MITSUBISHI MATERIALS

MVE/MVS

NEW GENERATION SOLID CARBIDE DRILLS EMPLOYS NEW TRI-COOLING TECHNOLOGY®





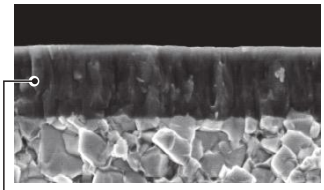
TOOL NEWS **B207A**

Solid Carbide Drills
WSTAR Drill Series

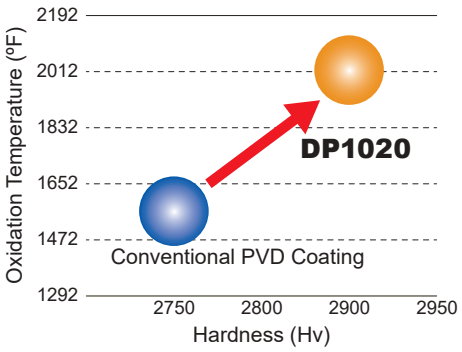
MVE/MVS

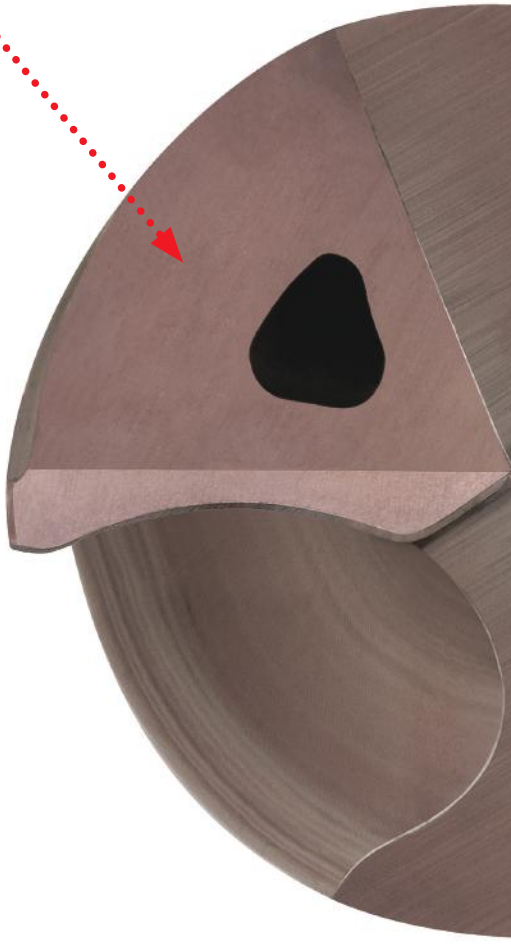
Coated Grade DP1020

Newly-developed coating for drills provides excellent wear resistance with low friction property, resulting in excellent versatility and extended tool life.



Multi-layer Accumulated
Al-Ti-Cr-N Based PVD Coating



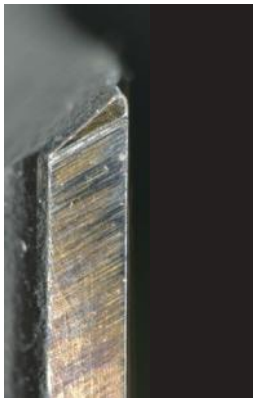


Excellent Margin Wear

DP1020 has excellent margin wear resistance which minimizes drill length reduction from re-grinding.

Margin Wear after 187 feet Machining

DP1020



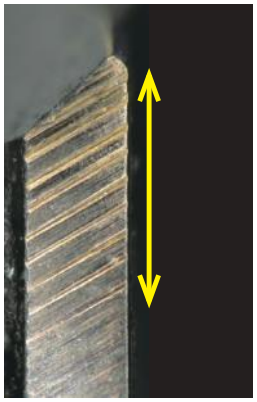
Minor Wear

Conventional A



Deep Plowing Wear

Conventional B



Wide Plowing Wear

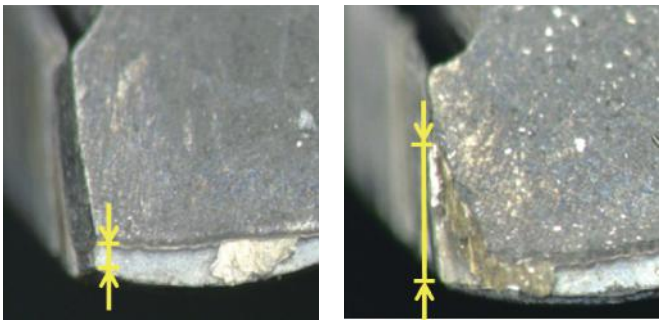
<Cutting Conditions>
Work Material : AISI 1050
Cutting Speed : 330 SFM
Feed Rate : .008 IPR
Cutting Mode : Water Based (External Coolant)

New Wavy Cutting Edge

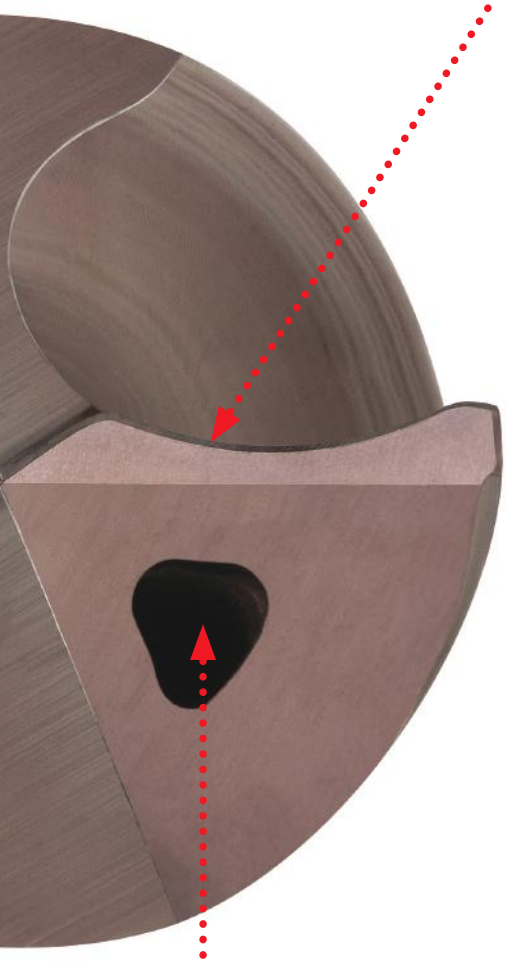
The unique curved cutting edge combines edge sharpness with rigidity. This combination controls the progression of wear at the cutting edge periphery.

Comparison of Wear at the Cutting Edge Periphery (After 187 feet Machining)

MVE | Conventional



<Cutting Conditions>
Work Material : AISI 1050
Cutting Speed : 330 SFM
Feed Rate : .008 IPR
Cutting Mode : Water Based (External Coolant)



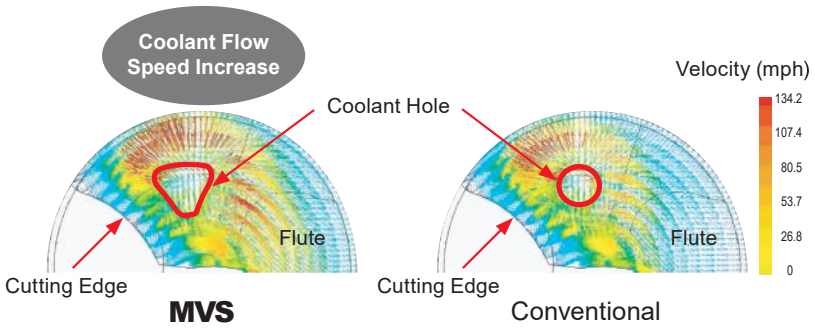
ZERO-μ Surface

Our unique smooth surface technology reduces cutting resistance and offers excellent chip evacuation.



TRI-cooling Technology®

Longer tool life is achieved with unique coolant hole geometry which improves coolant flow rate and reduces the heat generated in the hole (available in sizes over : ø.236 inch or ø 6 mm).

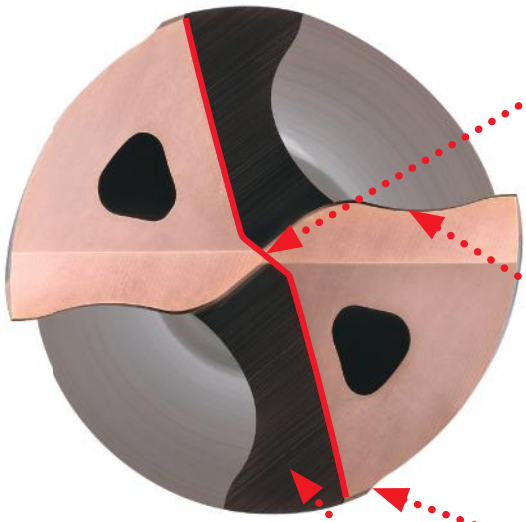


Solid Carbide Drills
WSTAR Drill Series

MVS Long Type



Available in DCx10, DCx15, DCx20, DCx25, DCx30, DCx35, DCx40



New Type Thinning

Large chip pocket near center of drill
Low thrust force

Wavy Cutting Edge

High cutting edge strength and ideal chip control
Deep hole cutting with high efficiency

Double Margin

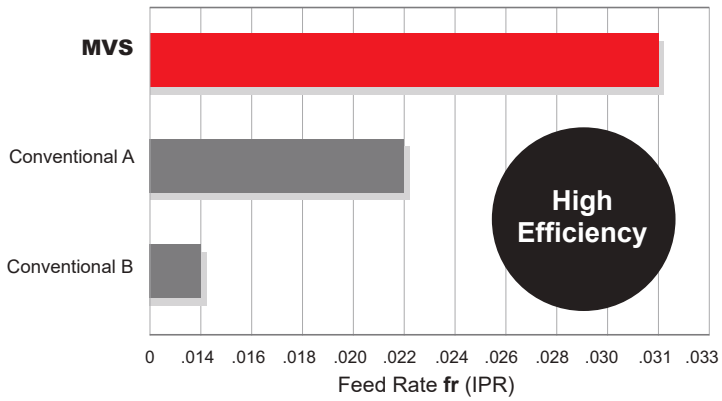
Provides excellent straightness and surface finish

New Flute Shape

Ideal web thickness and helix angle

MVS Long Type Provides High Feed

Feed Limit Test



<Cutting Conditions>
Drill Dia. : ø5 mm (.197")
Work Material : AISI 1050
Hole Depth : 5.906 inch (L/D = 30)
Cutting Speed : 260 SFM
Cutting Mode : Water Based (Internal Coolant)

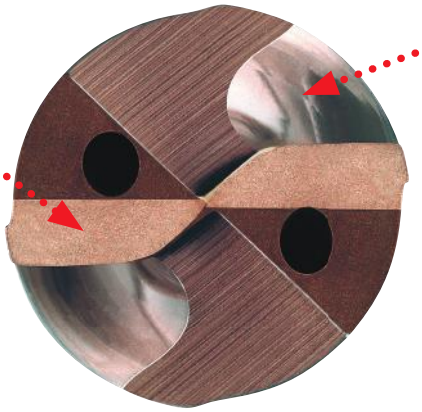
Solid Carbide Drills
WSTAR Drill Series

MICRO-MVS

Diameters from ø.0394"—ø.1142"
Available in DCx2, DCx7, DCx12, DCx20, DCx25 & DCx30
Ideal for long tool life and deep hole drilling.

Straight Cutting Edge

Improved chip evacuation and enhanced cutting edge strength



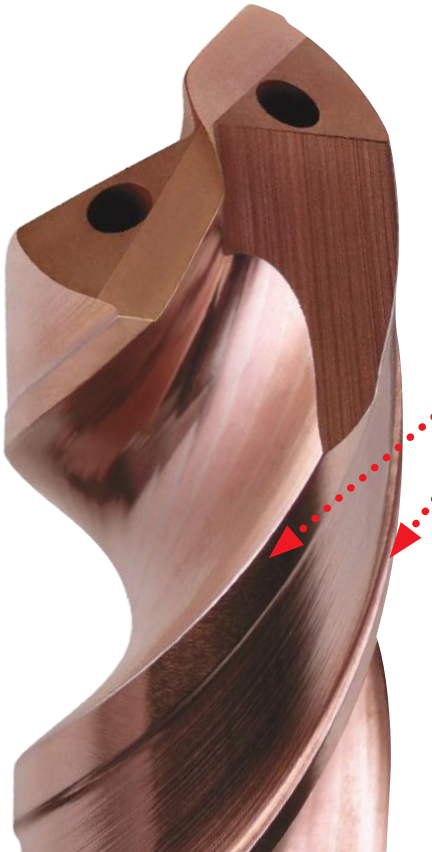
New Flute Geometry

For improved chip evacuation

Uniform, Fine Chips

MICRO-MVS	Conventional A	Conventional B
		

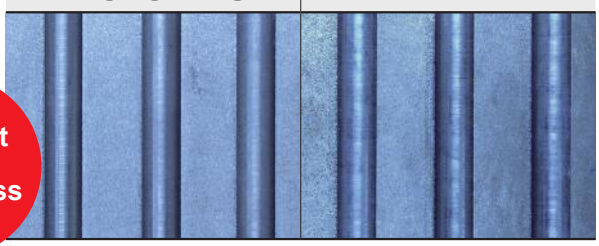
<Cutting Conditions>
Drill Dia. : ø2.5 mm (.098")
Work Material : AISI 304
Hole Depth : 2.95 inch (L/D=30)
Cutting Speed : 130 SFM
Feed Rate : .002 IPR
Cutting Mode : Water Based (Internal Coolant) (1000PSI)



Double Margin

Provides excellent straightness and high precision cutting.

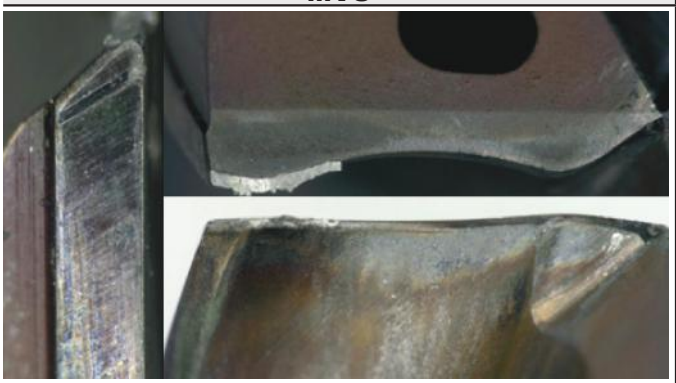
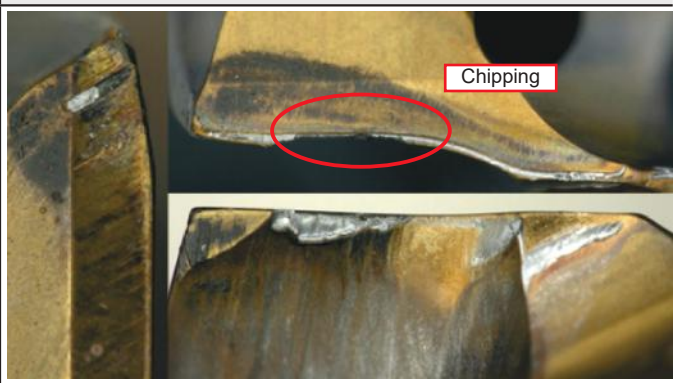
Excellent Surface Roughness

MICRO-MVS	Conventional
	
Double Margin	Double Margin

<Cutting Conditions>
Drill Dia. : ø2 mm (.079")
Work Material : AISI 4140
Hole Depth : 2.36 inch (L/D=30)
Cutting Speed : 100 SFM
Feed Rate : .002 IPR
Cutting Mode : Water Based (Internal Coolant) (1000 PSI)

Solid Carbide Drills
Cutting Performance

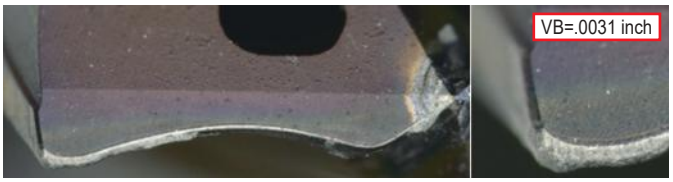
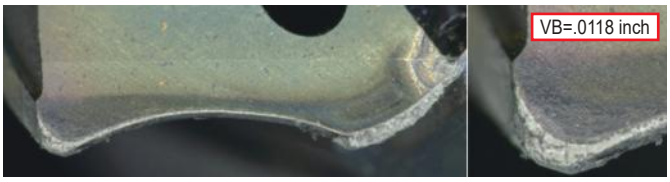
Cutting of Alloy Steel

MVS	Conventional
	

<Cutting Conditions>
Drill Dia. : ø6.0 mm (.236")
Work Material : AISI 4140
Hole Depth : .748 inch (L/D=3)
Cutting Speed : 330 SFM
Feed Rate : .008 IPR
Cutting Mode : Water Based (Internal Coolant)
Machine : Machining Center

Damage of the Cutting Edge after 492 feet of Machining

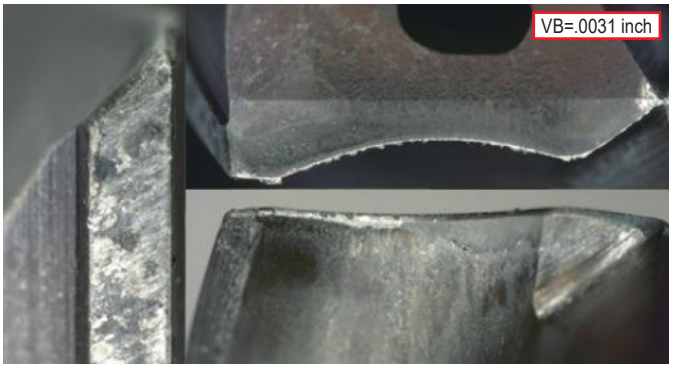
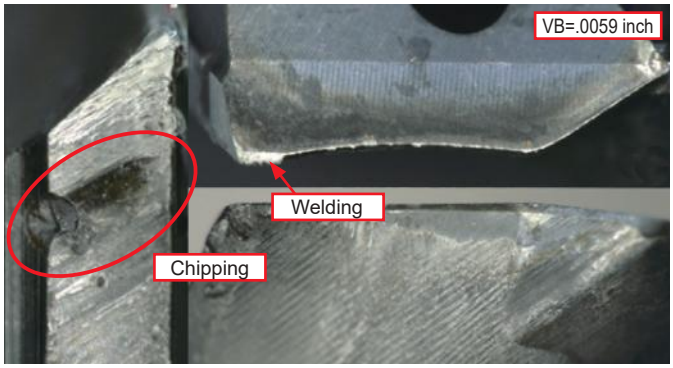
Cutting of Cast Iron

MVS	Conventional
	

<Cutting Conditions>
Drill Dia. : ø6.0 mm (.236")
Work Material : AISI No.35B
Hole Depth : .748 inch (L/D=3)
Cutting Speed : 330 SFM
Feed Rate : .008 IPR
Cutting Mode : Water Based (Internal Coolant)
Machine : Machining Center

Damage of the Cutting Edge after 220 feet of Machining

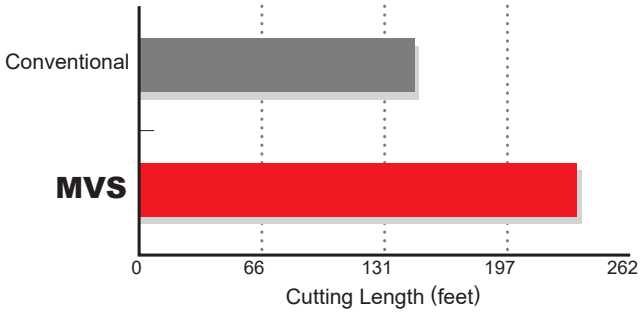
Cutting of Stainless Steel

MVS	Conventional
	

<Cutting Conditions>
Drill Dia. : ø6.0 mm (.236")
Work Material : AISI 304
Hole Depth : .748 inch (L/D=3)
Cutting Speed : 195 SFM
Feed Rate : .006 IPR
Cutting Mode : Water Based (Internal Coolant)
Machine : Machining Center

Damage of the Cutting Edge after 315 feet of Machining

Cutting of Carbon Steel

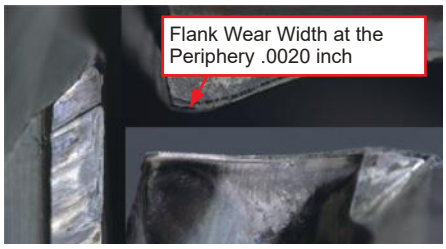
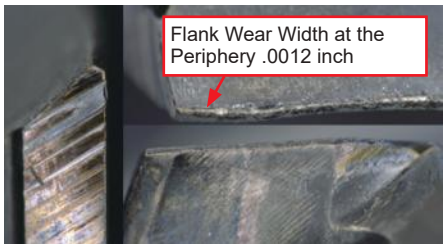


MVS	Conventional
	

<Cutting Conditions>

Drill Dia.	: ø6.0 mm (.236")	Feed Rate	: .008 IPR
Work Material	: AISI 1050	Cutting Mode	: Water Based (Internal Coolant)
Hole Depth	: .748 inch (L/D=3)		
Cutting Speed	: 330 SFM	Machine	: Machining Center

Cutting of M.Q.L.

MVS	Conventional A	Conventional B
		

<Cutting Conditions>

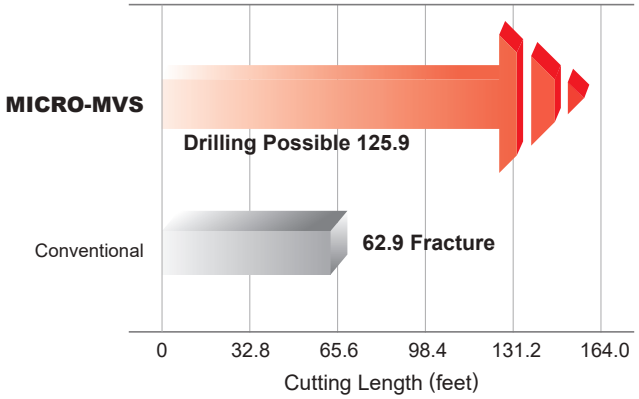
Drill Dia.	: ø6.0 mm (.236")	Feed Rate	: .008 IPR
Work Material	: AISI 1050	Cutting Mode	: M.Q.L.
Hole Depth	: .748 inch (L/D=3)	Machine	: Machining Center
Cutting Speed	: 260 SFM		

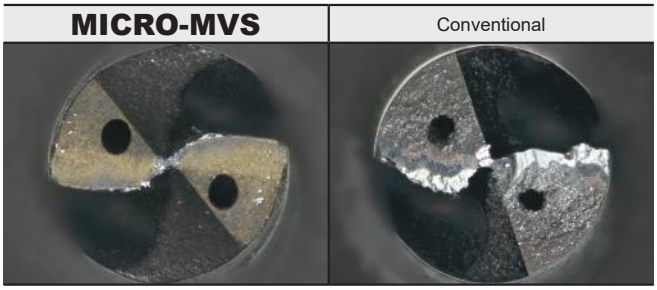
Damage of the Cutting Edge after 180 feet of Machining

Cutting Performance

Alloy Steel

MVS gives a stable performance and double tool life.



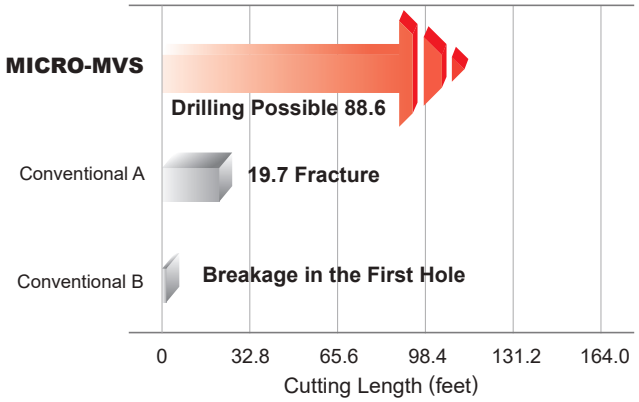


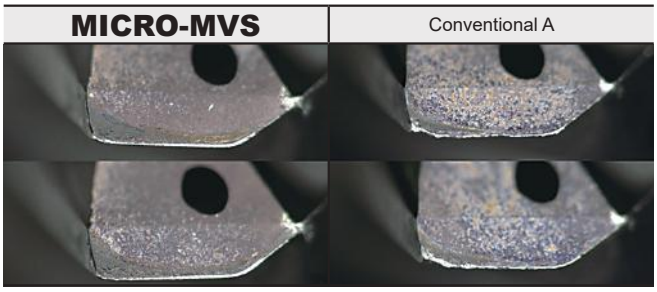
Cutting Length : 125.9 feet | Cutting Length : 62.9 feet

<Cutting Conditions>
Drill Dia. : ø1 mm (.039")
Work Material : AISI 4140
Hole Depth : .157 inch (L/D=4)
Cutting Speed : 130 SFM
Feed Rate : .002 IPR
Cutting Mode : Water Based (1000 PSI)

Stainless Steel

MVS provides stability and long tool life even when drilling stainless steel.



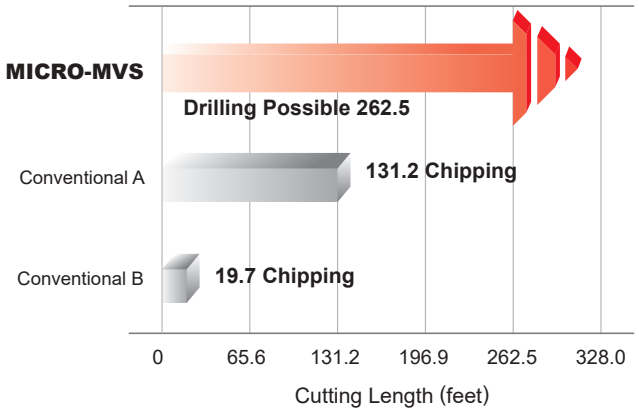


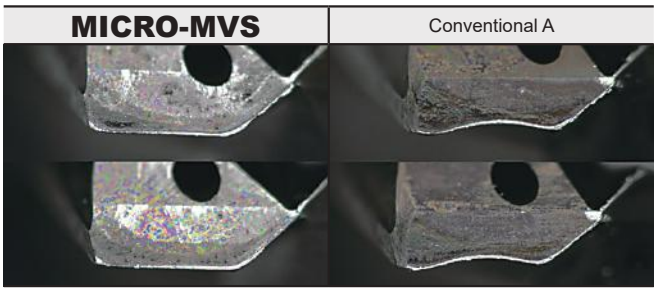
Cutting Length : 88.6 feet | Cutting Length : 19.7 feet

<Cutting Conditions>
Drill Dia. : ø2 mm (.079")
Work Material : AISI 304
Hole Depth : .157 inch (L/D=2)
Cutting Speed : 100 SFM
Feed Rate : .002 IPR
Cutting Mode : Water Based (1000 PSI)

Stainless Steel (L/D=30)

MVS provides stability and long tool life even when drilling deep holes in stainless steel.





Cutting Length : 262.5 feet | Cutting Length : 131.2 feet

<Cutting Conditions>
Drill Dia. : ø2 mm (.079")
Work Material : AISI 304
Hole Depth : 2.362 inch (L/D=30)
Cutting Speed : 100 SFM
Feed Rate : .002 IPR
Cutting Mode : Water Based (1000 PSI)

WSTAR Drill Series

MVE / MVS are applicable in a wide range of materials.
Drills for specific materials are also available.

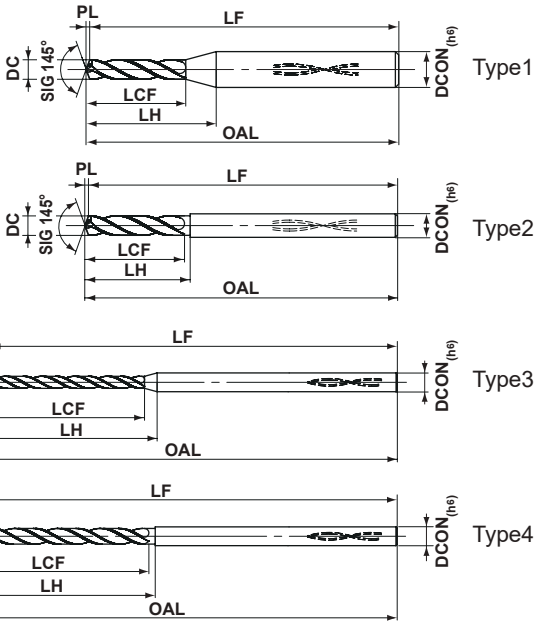
	P Carbon Steel	M Stainless Steel	K Cast Iron	N Light Alloy	S Heat-resistant Alloy	H Hardened Steel
MVE/MVS 	+++	+++	+++	+	+	+ Only MVE
MMS 		++++				
MNS 				++++		
MHS 	+	+			+	++++
MWE/MWS 	++	++	++	+	+	

MICRO-MVS

- Straight cutting edge profile improves both chip evacuation and cutting edge strength.
- Double margin offers excellent straightness and high precision.

P M K N S H





Type	Tolerance	DC<.1181 (inch)	DC<3 (mm)
Type 1	DC	+.00055 0	+0.014 0
Type2,3,4	DC	0 −.00055	0 −0.014
DCON		0 −.00024	0 −0.006

Internal Coolant

DC Metric (mm)	DC Decimal (inch)	DC Fraction (inch)	Wire / Letter	Thread Size	l/d	Order Number	Stock DP1020	LCF mm	LCF inch	LH mm	LH inch	OAL mm	OAL inch	LF mm	LF inch	PL mm	PL inch	DCON mm	DCON inch	Type
1.000	.0394				2	MVS0100X02S030	●	5.2	.205	8.9	.350	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	MVS0100X07S030	●	10.2	.402	13.9	.547	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	MVS0100X12S030	●	15.2	.598	18.9	.744	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	MVS0100X20S030	●	24.2	.953	27.9	1.098	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	MVS0100X25S030	●	28.2	1.110	31.9	1.256	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	MVS0100X30S030	●	33.2	1.307	36.9	1.453	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.016	.0400		60		2	MVS0102X02S030	●	5.6	.220	9.3	.366	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	MVS0102X07S030	●	11.2	.441	14.9	.587	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	MVS0102X12S030	●	17.2	.677	20.9	.823	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	MVS0102X20S030	●	25.2	.992	28.9	1.138	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	MVS0102X25S030	●	31.2	1.228	34.9	1.374	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	MVS0102X30S030	●	36.2	1.425	39.9	1.571	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.041	.0410		59		2	MVS0104X02S030	●	5.6	.220	9.3	.366	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	MVS0104X07S030	●	11.2	.441	14.9	.587	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	MVS0104X12S030	●	17.2	.677	20.9	.823	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	MVS0104X20S030	●	25.2	.992	28.9	1.138	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	MVS0104X25S030	●	31.2	1.228	34.9	1.374	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	MVS0104X30S030	●	36.2	1.425	39.9	1.571	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.067	.0420		58		2	MVS0107X02S030	●	5.6	.220	9.2	.362	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	MVS0107X07S030	●	11.2	.441	14.8	.583	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	MVS0107X12S030	●	17.2	.677	20.8	.819	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	MVS0107X20S030	●	25.2	.992	28.8	1.134	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	MVS0107X25S030	●	31.2	1.228	34.8	1.370	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	MVS0107X30S030	●	36.2	1.425	39.8	1.567	72.2	2.843	72	2.835	0.2	.008	3	.118	3

(Note) The coolant hole of ø5.9mm or less will be round shape.

● : **USA Stock**

Internal Coolant

DC					l/d	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size			DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
1.092	**.0430**		**57**		2	**MVS0109X02S030**	●	5.6	.220	9.2	.362	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0109X07S030**	●	11.2	.441	14.8	.583	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0109X12S030**	●	17.2	.677	20.8	.819	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0109X20S030**	●	25.2	.992	28.8	1.134	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	**MVS0109X25S030**	●	31.2	1.228	34.8	1.370	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	**MVS0109X30S030**	●	36.2	1.425	39.8	1.567	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.100	**.0433**				2	**MVS0110X02S030**	●	5.6	.220	9.1	.358	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0110X07S030**	●	11.2	.441	14.7	.579	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0110X12S030**	●	17.2	.677	20.7	.815	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0110X20S030**	●	25.2	.992	28.7	1.130	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	**MVS0110X25S030**	●	31.2	1.228	34.7	1.366	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	**MVS0110X30S030**	●	36.2	1.425	39.7	1.563	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.181	**.0465**		**56**		2	**MVS0118X02S030**	●	6.2	.244	9.6	.378	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0118X07S030**	●	12.2	.480	15.6	.614	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0118X12S030**	●	18.2	.717	21.6	.850	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0118X20S030**	●	28.2	1.110	31.6	1.244	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	**MVS0118X25S030**	●	34.2	1.346	37.6	1.480	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	**MVS0118X30S030**	●	40.2	1.583	43.6	1.717	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.200	**.0472**				2	**MVS0120X02S030**	●	6.2	.244	9.6	.378	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0120X07S030**	●	12.2	.480	15.6	.614	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0120X12S030**	●	18.2	.717	21.6	.850	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0120X20S030**	●	28.2	1.110	31.6	1.244	60.2	2.370	60	2.362	0.2	.008	3	.118	3
					25	**MVS0120X25S030**	●	34.2	1.346	37.6	1.480	66.2	2.606	66	2.598	0.2	.008	3	.118	3
					30	**MVS0120X30S030**	●	40.2	1.583	43.6	1.717	72.2	2.843	72	2.835	0.2	.008	3	.118	3
1.300	**.0512**				2	**MVS0130X02S030**	●	6.6	.260	9.8	.386	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0130X07S030**	●	13.2	.520	16.4	.646	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0130X12S030**	●	20.2	.795	23.4	.921	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0130X20S030**	●	30.2	1.189	33.4	1.315	68.2	2.685	68	2.677	0.2	.008	3	.118	3
					25	**MVS0130X25S030**	●	36.2	1.425	39.4	1.551	74.2	2.921	74	2.913	0.2	.008	3	.118	3
					30	**MVS0130X30S030**	●	43.2	1.701	46.4	1.827	82.2	3.236	82	3.228	0.2	.008	3	.118	3
1.321	**.0520**		**55**		2	**MVS0132X02S030**	●	7.2	.283	10.3	.406	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0132X07S030**	●	14.2	.559	17.3	.681	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					12	**MVS0132X12S030**	●	21.2	.835	24.3	.957	55.2	2.173	55	2.165	0.2	.008	3	.118	3
					20	**MVS0132X20S030**	●	32.2	1.268	35.3	1.390	68.2	2.685	68	2.677	0.2	.008	3	.118	3
					25	**MVS0132X25S030**	●	39.2	1.543	42.3	1.665	74.2	2.921	74	2.913	0.2	.008	3	.118	3
					30	**MVS0132X30S030**	●	46.2	1.819	49.3	1.941	82.2	3.236	82	3.228	0.2	.008	3	.118	3
1.397	**.0550**		**54**		2	**MVS0139X02S030**	●	7.2	.283	10.2	.402	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0139X07S030**	●	14.3	.563	17.3	.681	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					12	**MVS0139X12S030**	●	21.3	.839	24.3	.957	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					20	**MVS0139X20S030**	●	32.3	1.272	35.3	1.390	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					25	**MVS0139X25S030**	●	39.3	1.547	42.3	1.665	74.3	2.925	74	2.913	0.3	.012	3	.118	3
					30	**MVS0139X30S030**	●	46.3	1.823	49.3	1.941	82.3	3.240	82	3.228	0.3	.012	3	.118	3
1.400	**.0551**				2	**MVS0140X02S030**	●	7.2	.283	10.2	.402	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	**MVS0140X07S030**	●	14.3	.563	17.3	.681	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					12	**MVS0140X12S030**	●	21.3	.839	24.3	.957	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					20	**MVS0140X20S030**	●	32.3	1.272	35.3	1.390	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					25	**MVS0140X25S030**	●	39.3	1.547	42.3	1.665	74.3	2.925	74	2.913	0.3	.012	3	.118	3
					30	**MVS0140X30S030**	●	46.3	1.823	49.3	1.941	82.3	3.240	82	3.228	0.3	.012	3	.118	3

Solid Carbide Drills

MICRO-MVS

Internal Coolant

DC					l/d	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size			DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
1.500	.0591				2	MVS0150X02S030	●	7.6	.299	10.4	.409	55.2	2.173	55	2.165	0.2	.008	3	.118	1
					7	MVS0150X07S030	●	15.3	.602	18.1	.713	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					12	MVS0150X12S030	●	23.3	.917	26.1	1.028	55.3	2.177	55	2.165	0.3	.012	3	.118	3
					20	MVS0150X20S030	●	35.3	1.390	38.1	1.500	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					25	MVS0150X25S030	●	42.3	1.665	45.1	1.776	74.3	2.925	74	2.913	0.3	.012	3	.118	3
					30	MVS0150X30S030	●	50.3	1.980	53.1	2.091	82.3	3.240	82	3.228	0.3	.012	3	.118	3
1.588	.0625	1/16			2	MVS0159X02S030	●	8.3	.327	10.9	.429	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0159X07S030	●	16.3	.642	18.9	.744	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0159X12S030	●	24.3	.957	26.9	1.059	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0159X20S030	●	37.3	1.469	39.9	1.571	78.3	3.083	78	3.071	0.3	.012	3	.118	3
					25	MVS0159X25S030	●	45.3	1.783	47.9	1.886	86.3	3.398	86	3.386	0.3	.012	3	.118	3
					30	MVS0159X30S030	●	53.3	2.098	55.9	2.201	95.3	3.752	95	3.740	0.3	.012	3	.118	3
1.600	.0630				2	MVS0160X02S030	●	8.3	.327	10.9	.429	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0160X07S030	●	16.3	.642	18.9	.744	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0160X12S030	●	24.3	.957	26.9	1.059	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0160X20S030	●	37.3	1.469	39.9	1.571	78.3	3.083	78	3.071	0.3	.012	3	.118	3
					25	MVS0160X25S030	●	45.3	1.783	47.9	1.886	86.3	3.398	86	3.386	0.3	.012	3	.118	3
					30	MVS0160X30S030	●	53.3	2.098	55.9	2.201	95.3	3.752	95	3.740	0.3	.012	3	.118	3
1.613	.0635		52		2	MVS0161X02S030	●	8.7	.343	11.3	.445	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0161X07S030	●	17.3	.681	19.9	.783	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0161X12S030	●	26.3	1.035	28.9	1.138	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0161X20S030	●	39.3	1.547	41.9	1.650	78.3	3.083	78	3.071	0.3	.012	3	.118	3
					25	MVS0161X25S030	●	48.3	1.902	50.9	2.004	86.3	3.398	86	3.386	0.3	.012	3	.118	3
					30	MVS0161X30S030	●	56.3	2.217	58.9	2.319	95.3	3.752	95	3.740	0.3	.012	3	.118	3
1.700	.0669				2	MVS0170X02S030	●	8.7	.343	11.1	.437	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0170X07S030	●	17.3	.681	19.7	.776	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0170X12S030	●	26.3	1.035	28.7	1.130	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0170X20S030	●	39.3	1.547	41.7	1.642	78.3	3.083	78	3.071	0.3	.012	3	.118	3
					25	MVS0170X25S030	●	48.3	1.902	50.7	1.996	86.3	3.398	86	3.386	0.3	.012	3	.118	3
					30	MVS0170X30S030	●	56.3	2.217	58.7	2.311	95.3	3.752	95	3.740	0.3	.012	3	.118	3
1.778	.0700		50	#2-56	2	MVS0178X02S030	●	9.3	.366	11.6	.457	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0178X07S030	●	18.3	.720	20.6	.811	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0178X12S030	●	27.3	1.075	29.6	1.165	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0178X20S030	●	41.3	1.626	43.6	1.717	84.3	3.319	84	3.307	0.3	.012	3	.118	3
					25	MVS0178X25S030	●	50.3	1.980	52.6	2.071	94.3	3.713	94	3.701	0.3	.012	3	.118	3
					30	MVS0178X30S030	●	59.3	2.335	61.6	2.425	102.3	4.028	102	4.016	0.3	.012	3	.118	3
1.800	.0709				2	MVS0180X02S030	●	9.3	.366	11.5	.453	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0180X07S030	●	18.3	.720	20.5	.807	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0180X12S030	●	27.3	1.075	29.5	1.161	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0180X20S030	●	41.3	1.626	43.5	1.713	84.3	3.319	84	3.307	0.3	.012	3	.118	3
					25	MVS0180X25S030	●	50.3	1.980	52.5	2.067	94.3	3.713	94	3.701	0.3	.012	3	.118	3
					30	MVS0180X30S030	●	59.3	2.335	61.5	2.421	102.3	4.028	102	4.016	0.3	.012	3	.118	3
1.854	.0730		49		2	MVS0186X02S030	●	9.7	.382	11.8	.465	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0186X07S030	●	19.3	.760	21.4	.843	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0186X12S030	●	29.3	1.154	31.4	1.236	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0186X20S030	●	44.3	1.744	46.4	1.827	84.3	3.319	84	3.307	0.3	.012	3	.118	3
					25	MVS0186X25S030	●	53.3	2.098	55.4	2.181	94.3	3.713	94	3.701	0.3	.012	3	.118	3
					30	MVS0186X30S030	●	63.3	2.492	65.4	2.575	102.3	4.028	102	4.016	0.3	.012	3	.118	3

(Note) The coolant hole of ø5.9mm or less will be round shape.

● : **USA Stock**

Internal Coolant

DC					I/d	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size			DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
1.900	.0748				2	MVS0190X02S030	●	9.7	.382	11.8	.465	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0190X07S030	●	19.3	.760	21.4	.843	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					12	MVS0190X12S030	●	29.3	1.154	31.4	1.236	68.3	2.689	68	2.677	0.3	.012	3	.118	3
					20	MVS0190X20S030	●	44.3	1.744	46.4	1.827	84.3	3.319	84	3.307	0.3	.012	3	.118	3
					25	MVS0190X25S030	●	53.3	2.098	55.4	2.181	94.3	3.713	94	3.701	0.3	.012	3	.118	3
					30	MVS0190X30S030	●	63.3	2.492	65.4	2.575	102.3	4.028	102	4.016	0.3	.012	3	.118	3
1.930	.0760		48		2	MVS0193X02S030	●	10.3	.406	12.3	.484	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0193X07S030	●	20.4	.803	22.4	.882	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					12	MVS0193X12S030	●	30.4	1.197	32.4	1.276	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					20	MVS0193X20S030	●	46.4	1.827	48.4	1.906	84.4	3.323	84	3.307	0.4	.016	3	.118	3
					25	MVS0193X25S030	●	56.4	2.220	58.4	2.299	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					30	MVS0193X30S030	●	66.4	2.614	68.4	2.693	102.4	4.031	102	4.016	0.4	.016	3	.118	3
1.994	.0785				2	MVS0199X02S030	●	10.3	.406	12.2	.480	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0199X07S030	●	20.4	.803	22.3	.878	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					12	MVS0199X12S030	●	30.4	1.197	32.3	1.272	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					20	MVS0199X20S030	●	46.4	1.827	48.3	1.902	84.4	3.323	84	3.307	0.4	.016	3	.118	3
					25	MVS0199X25S030	●	56.4	2.220	58.3	2.295	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					30	MVS0199X30S030	●	66.4	2.614	68.3	2.689	102.4	4.031	102	4.016	0.4	.016	3	.118	3
2.000	.0787				2	MVS0200X02S030	●	10.3	.406	12.2	.480	68.3	2.689	68	2.677	0.3	.012	3	.118	1
					7	MVS0200X07S030	●	20.4	.803	22.3	.878	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					12	MVS0200X12S030	●	30.4	1.197	32.3	1.272	68.4	2.693	68	2.677	0.4	.016	3	.118	3
					20	MVS0200X20S030	●	46.4	1.827	48.3	1.902	84.4	3.323	84	3.307	0.4	.016	3	.118	3
					25	MVS0200X25S030	●	56.4	2.220	58.3	2.295	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					30	MVS0200X30S030	●	66.4	2.614	68.3	2.689	102.4	4.031	102	4.016	0.4	.016	3	.118	3
2.057	.0810		46		2	MVS0206X02S030	●	10.7	.421	12.5	.492	74.3	2.925	74	2.913	0.3	.012	3	.118	1
					7	MVS0206X07S030	●	21.4	.843	23.2	.913	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0206X12S030	●	32.4	1.276	34.2	1.346	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0206X20S030	●	48.4	1.906	50.2	1.976	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0206X25S030	●	59.4	2.339	61.2	2.409	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0206X30S030	●	69.4	2.732	71.2	2.803	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.100	.0827				2	MVS0210X02S030	●	10.7	.421	12.4	.488	74.3	2.925	74	2.913	0.3	.012	3	.118	1
					7	MVS0210X07S030	●	21.4	.843	23.1	.909	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0210X12S030	●	32.4	1.276	34.1	1.343	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0210X20S030	●	48.4	1.906	50.1	1.972	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0210X25S030	●	59.4	2.339	61.1	2.406	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0210X30S030	●	69.4	2.732	71.1	2.799	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.184	.0860		44		2	MVS0218X02S030	●	11.3	.445	12.8	.504	74.3	2.925	74	2.913	0.3	.012	3	.118	1
					7	MVS0218X07S030	●	22.4	.882	23.9	.941	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0218X12S030	●	33.4	1.315	34.9	1.374	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0218X20S030	●	51.4	2.024	52.9	2.083	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0218X25S030	●	62.4	2.457	63.9	2.516	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0218X30S030	●	73.4	2.890	74.9	2.949	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.200	.0866				2	MVS0220X02S030	●	11.3	.445	12.8	.504	74.3	2.925	74	2.913	0.3	.012	3	.118	1
					7	MVS0220X07S030	●	22.4	.882	23.9	.941	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0220X12S030	●	33.4	1.315	34.9	1.374	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0220X20S030	●	51.4	2.024	52.9	2.083	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0220X25S030	●	62.4	2.457	63.9	2.516	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0220X30S030	●	73.4	2.890	74.9	2.949	118.4	4.661	118	4.646	0.4	.016	3	.118	3

Solid Carbide Drills

MICRO-MVS

Internal Coolant

DC					l/d	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size			DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
2.261	.0890		43	#4-40	2	MVS0226X02S030	●	11.8	.465	13.2	.520	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0226X07S030	●	23.4	.921	24.8	.976	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0226X12S030	●	35.4	1.394	36.8	1.449	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0226X20S030	●	53.4	2.102	54.8	2.157	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0226X25S030	●	64.4	2.535	65.8	2.591	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0226X30S030	●	76.4	3.008	77.8	3.063	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.300	.0906				2	MVS0230X02S030	●	11.8	.465	13.1	.516	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0230X07S030	●	23.4	.921	24.7	.972	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0230X12S030	●	35.4	1.394	36.7	1.445	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0230X20S030	●	53.4	2.102	54.7	2.154	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0230X25S030	●	64.4	2.535	65.7	2.587	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0230X30S030	●	76.4	3.008	77.7	3.059	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.383	.0938	3/32			2	MVS0238X02S030	●	12.4	.488	13.6	.535	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0238X07S030	●	24.4	.961	25.6	1.008	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0238X12S030	●	36.4	1.433	37.6	1.480	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0238X20S030	●	55.4	2.181	56.6	2.228	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0238X25S030	●	67.4	2.654	68.6	2.701	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0238X30S030	●	79.4	3.126	80.6	3.173	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.400	.0945				2	MVS0240X02S030	●	12.4	.488	13.5	.531	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0240X07S030	●	24.4	.961	25.5	1.004	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0240X12S030	●	36.4	1.433	37.5	1.476	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0240X20S030	●	55.4	2.181	56.5	2.224	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0240X25S030	●	67.4	2.654	68.5	2.697	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0240X30S030	●	79.4	3.126	80.5	3.169	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.438	.0960		41		2	MVS0244X02S030	●	12.8	.504	13.8	.543	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0244X07S030	●	25.4	1.000	26.4	1.039	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					12	MVS0244X12S030	●	38.4	1.512	39.4	1.551	74.4	2.929	74	2.913	0.4	.016	3	.118	3
					20	MVS0244X20S030	●	58.4	2.299	59.4	2.339	94.4	3.717	94	3.701	0.4	.016	3	.118	3
					25	MVS0244X25S030	●	70.4	2.772	71.4	2.811	107.4	4.228	107	4.213	0.4	.016	3	.118	3
					30	MVS0244X30S030	●	83.4	3.283	84.4	3.323	118.4	4.661	118	4.646	0.4	.016	3	.118	3
2.500	.0984				2	MVS0250X02S030	●	12.8	.504	13.7	.539	74.4	2.929	74	2.913	0.4	.016	3	.118	1
					7	MVS0250X07S030	●	25.5	1.004	26.4	1.039	74.5	2.933	74	2.913	0.5	.020	3	.118	3
					12	MVS0250X12S030	●	38.5	1.516	39.4	1.551	74.5	2.933	74	2.913	0.5	.020	3	.118	3
					20	MVS0250X20S030	●	58.5	2.303	59.4	2.339	94.5	3.720	94	3.701	0.5	.020	3	.118	3
					25	MVS0250X25S030	●	70.5	2.776	71.4	2.811	107.5	4.232	107	4.213	0.5	.020	3	.118	3
					30	MVS0250X30S030	●	83.5	3.287	84.4	3.323	118.5	4.665	118	4.646	0.5	.020	3	.118	3
2.565	.1010				2	MVS0257X02S030	●	13.4	.528	13.4	.528	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	MVS0257X07S030	●	26.5	1.043	26.5	1.043	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	MVS0257X12S030	●	39.5	1.555	39.5	1.555	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	MVS0257X20S030	●	60.5	2.382	60.5	2.382	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	MVS0257X25S030	●	73.5	2.894	73.5	2.894	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	MVS0257X30S030	●	86.5	3.406	86.5	3.406	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.600	.1024				2	MVS0260X02S030	●	13.4	.528	13.4	.528	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	MVS0260X07S030	●	26.5	1.043	26.5	1.043	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	MVS0260X12S030	●	39.5	1.555	39.5	1.555	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	MVS0260X20S030	●	60.5	2.382	60.5	2.382	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	MVS0260X25S030	●	73.5	2.894	73.5	2.894	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	MVS0260X30S030	●	86.5	3.406	86.5	3.406	132.5	5.217	132	5.197	0.5	.020	3	.118	4

(Note) The coolant hole of ø5.9mm or less will be round shape.

● : **USA Stock**

Internal Coolant

DC					l/d	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size			DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
2.642	**.1040**		**37**	**#5-44**	2	**MVS0264X02S030**	●	13.8	.543	13.8	.543	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	**MVS0264X07S030**	●	27.5	1.083	27.5	1.083	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0264X12S030**	●	41.5	1.634	41.5	1.634	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0264X20S030**	●	62.5	2.461	62.5	2.461	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0264X25S030**	●	76.5	3.012	76.5	3.012	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0264X30S030**	●	89.5	3.524	89.5	3.524	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.692	**.1060**				2	**MVS0269X02S030**	●	13.8	.543	13.8	.543	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	**MVS0269X07S030**	●	27.5	1.083	27.5	1.083	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0269X12S030**	●	41.5	1.634	41.5	1.634	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0269X20S030**	●	62.5	2.461	62.5	2.461	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0269X25S030**	●	76.5	3.012	76.5	3.012	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0269X30S030**	●	89.5	3.524	89.5	3.524	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.700	**.1063**				2	**MVS0270X02S030**	●	13.8	.543	13.8	.543	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	**MVS0270X07S030**	●	27.5	1.083	27.5	1.083	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0270X12S030**	●	41.5	1.634	41.5	1.634	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0270X20S030**	●	62.5	2.461	62.5	2.461	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0270X25S030**	●	76.5	3.012	76.5	3.012	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0270X30S030**	●	89.5	3.524	89.5	3.524	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.779	**.1094**	**7/64**			2	**MVS0278X02S030**	●	14.4	.567	14.4	.567	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	**MVS0278X07S030**	●	28.5	1.122	28.5	1.122	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0278X12S030**	●	42.5	1.673	42.5	1.673	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0278X20S030**	●	64.5	2.539	64.5	2.539	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0278X25S030**	●	78.5	3.091	78.5	3.091	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0278X30S030**	●	92.5	3.642	92.5	3.642	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.800	**.1102**				2	**MVS0280X02S030**	●	14.4	.567	14.4	.567	81.4	3.205	81	3.189	0.4	.016	3	.118	2
					7	**MVS0280X07S030**	●	28.5	1.122	28.5	1.122	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0280X12S030**	●	42.5	1.673	42.5	1.673	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0280X20S030**	●	64.5	2.539	64.5	2.539	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0280X25S030**	●	78.5	3.091	78.5	3.091	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0280X30S030**	●	92.5	3.642	92.5	3.642	132.5	5.217	132	5.197	0.5	.020	3	.118	4
2.900	**.1142**				2	**MVS0290X02S030**	●	14.9	.587	14.9	.587	81.5	3.209	81	3.189	0.5	.020	3	.118	2
					7	**MVS0290X07S030**	●	29.5	1.161	29.5	1.161	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					12	**MVS0290X12S030**	●	44.5	1.752	44.5	1.752	81.5	3.209	81	3.189	0.5	.020	3	.118	4
					20	**MVS0290X20S030**	●	67.5	2.657	67.5	2.657	103.5	4.075	103	4.055	0.5	.020	3	.118	4
					25	**MVS0290X25S030**	●	81.5	3.209	81.5	3.209	117.5	4.626	117	4.606	0.5	.020	3	.118	4
					30	**MVS0290X30S030**	●	96.5	3.799	96.5	3.799	132.5	5.217	132	5.197	0.5	.020	3	.118	4

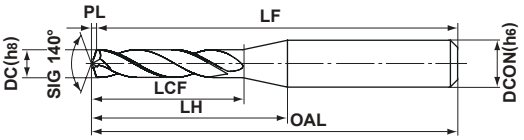
MVE/MVS

P M K N S H
only MVE

MVE

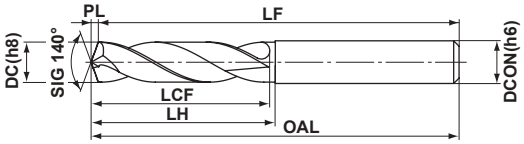



Type1





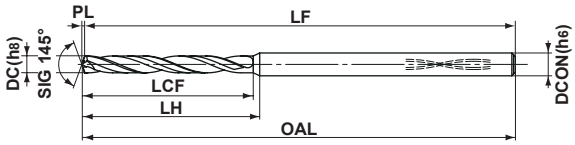
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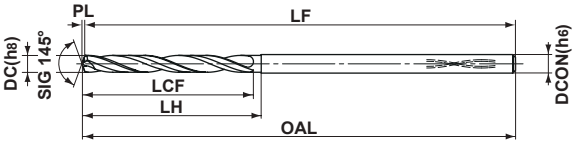
MVS




Type3

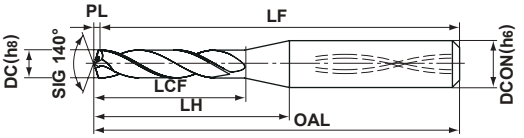


Type4



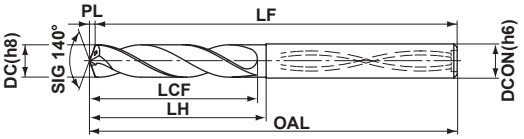



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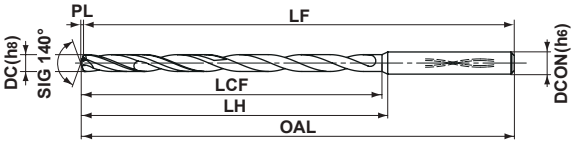


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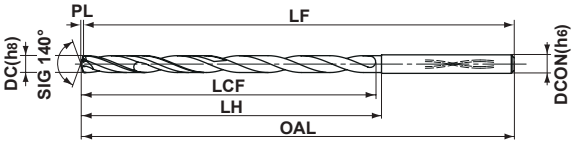





Type7



Type8



(inch)

Type	Tolerance	DC=.1181	.1181<DC≤.2362	.2362<DC≤.3937	.3937<DC≤.7087	.7087<DC≤.7874
Type1,2,3,4,5,6	DC	$^{0}_{-.00055}$	$^{0}_{-.00071}$	$^{0}_{-.00087}$	$^{0}_{-.00106}$	$^{0}_{-.00130}$
Type7,8	DC	$^{-.00067}_{-.00122}$	$^{-.00098}_{-.00169}$	$^{-.00130}_{-.00217}$	$^{-.00161}_{-.00268}$	–
DCON		$^{0}_{-.00024}$	$^{0}_{-.00031}$	$^{0}_{-.00035}$	$^{0}_{-.00043}$	$^{0}_{-.00051}$

(mm)

Type	Tolerance	DC=3	3<DC≤6	6<DC≤10	10<DC≤18	18 <DC≤20
Type1,2,3,4,5,6	DC	$^{0}_{-0.014}$	$^{0}_{-0.018}$	$^{0}_{-0.022}$	$^{0}_{-0.027}$	$^{0}_{-0.033}$
Type7,8	DC	$^{-0.017}_{-0.031}$	$^{-0.025}_{-0.043}$	$^{-0.033}_{-0.055}$	$^{-0.041}_{-0.068}$	–
DCON		$^{0}_{-0.006}$	$^{0}_{-0.008}$	$^{0}_{-0.009}$	$^{0}_{-0.011}$	$^{0}_{-0.013}$

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.0	.1181				2	Ext.	MVE0300X02S030	★	16.5	.650	16.5	.650	55.5	2.185	55	2.165	0.5	.020	3	.118	2
					2	Ext.	MVE0300X02S060	●	16.5	.650	19.7	.776	55.5	2.185	55	2.165	0.5	.020	6	.236	1
					2	Int.	MVS0300X02S030PL	★	16.5	.650	16.5	.650	55.5	2.185	55	2.165	0.5	.020	3	.118	4
					2	Int.	MVS0300X02S060PL	●	16.5	.650	19.7	.776	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Ext.	MVE0300X03S030	★	21.5	.846	21.5	.846	60.5	2.382	60	2.362	0.5	.020	3	.118	2
					3	Ext.	MVE0300X03S060	★	21.5	.846	24.7	.972	60.5	2.382	60	2.362	0.5	.020	6	.236	1
					3	Int.	MVS0300X03S030	★	21.5	.846	21.5	.846	72.5	2.854	72	2.835	0.5	.020	3	.118	6
					3	Int.	MVS0300X03S060	●	21.5	.846	24.7	.972	72.5	2.854	72	2.835	0.5	.020	6	.236	5
					5	Int.	MVS0300X05S030	★	28.5	1.122	28.5	1.122	81.5	3.209	81	3.189	0.5	.020	3	.118	6
					5	Int.	MVS0300X05S060	●	28.5	1.122	31.7	1.248	81.5	3.209	81	3.189	0.5	.020	6	.236	5
					8	Int.	MVS0300X08S030	★	35.5	1.398	35.5	1.398	81.5	3.209	81	3.189	0.5	.020	3	.118	6
					8	Int.	MVS0300X08S060	●	35.5	1.398	38.7	1.524	81.5	3.209	81	3.189	0.5	.020	6	.236	5
					10	Int.	MVS0300X10S030	★	39.5	1.555	42.5	1.677	90.5	3.563	90	3.543	0.5	.020	3	.118	8
					10	Int.	MVS0300X10S060	●	39.5	1.555	45.8	1.803	90.5	3.563	90	3.543	0.5	.020	6	.236	7
					15	Int.	MVS0300X15S030	★	54.5	2.146	57.5	2.268	105.5	4.154	105	4.134	0.5	.020	3	.118	8
					15	Int.	MVS0300X15S060	●	54.5	2.146	60.8	2.394	105.5	4.154	105	4.134	0.5	.020	6	.236	7
					20	Int.	MVS0300X20S030	★	69.5	2.736	72.5	2.858	120.5	4.744	120	4.724	0.5	.020	3	.118	8
					20	Int.	MVS0300X20S060	●	69.5	2.736	75.8	2.984	120.5	4.744	120	4.724	0.5	.020	6	.236	7
					25	Int.	MVS0300X25S030	★	84.5	3.327	87.5	3.449	135.5	5.335	135	5.315	0.5	.020	3	.118	8
					25	Int.	MVS0300X25S060	●	84.5	3.327	90.8	3.575	135.5	5.335	135	5.315	0.5	.020	6	.236	7
					30	Int.	MVS0300X30S030	★	99.5	3.917	102.5	4.039	150.5	5.925	150	5.906	0.5	.020	3	.118	8
					30	Int.	MVS0300X30S060	●	99.5	3.917	105.8	4.165	150.5	5.925	150	5.906	0.5	.020	6	.236	7
					35	Int.	MVS0300X35S030	★	115.5	4.547	118.5	4.669	166.5	6.555	166	6.535	0.5	.020	3	.118	8
					35	Int.	MVS0300X35S060	●	115.5	4.547	121.8	4.795	166.5	6.555	166	6.535	0.5	.020	6	.236	7
					40	Int.	MVS0300X40S030	★	130.5	5.138	133.5	5.260	181.5	7.146	181	7.126	0.5	.020	3	.118	8
					40	Int.	MVS0300X40S060	●	130.5	5.138	136.8	5.386	181.5	7.146	181	7.126	0.5	.020	6	.236	7
3.048	.1200		31		2	Ext.	MVE0305X02S060	●	18.6	.732	21.8	.858	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0305X02S060PL	●	18.5	.728	21.6	.854	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Int.	MVS0305X03S060	●	21.6	.850	24.8	.976	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0305X05S060	●	32.6	1.283	35.8	1.409	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0305X08S060	●	41.6	1.638	44.8	1.764	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0305X10S060	●	46.6	1.835	52.7	2.079	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0305X15S060	●	63.6	2.504	69.7	2.748	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0305X20S060	●	81.6	3.213	87.7	3.457	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0305X25S060	●	98.6	3.882	104.7	4.126	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0305X30S060	●	116.6	4.591	119.6	4.835	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0305X35S060	●	134.6	5.299	137.6	5.543	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0305X40S060	●	150.6	5.929	153.6	6.173	201.6	7.937	201	7.913	0.6	.024	6	.236	7

(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan

Solid Carbide Drills

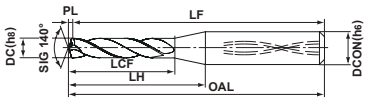
MVE/MVS

DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	MVE0310X02S040	★	18.6	.732	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	2
					2	Ext.	MVE0310X02S060	●	18.6	.732	21.7	.854	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0310X02S040PL	★	18.5	.728	20.5	.807	55.5	2.185	55	2.165	0.5	.020	4	.157	4
					2	Int.	MVS0310X02S060PL	●	18.5	.728	21.6	.850	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Ext.	MVE0310X03S040	★	24.6	.969	26.6	1.047	60.6	2.386	60	2.362	0.6	.024	4	.157	2
					3	Ext.	MVE0310X03S060	★	24.6	.969	27.7	1.091	60.6	2.386	60	2.362	0.6	.024	6	.236	1
					3	Int.	MVS0310X03S040	★	21.6	.850	23.6	.929	76.6	3.016	76	2.992	0.6	.024	4	.157	6
					3	Int.	MVS0310X03S060	●	21.6	.850	24.7	.972	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0310X05S040	★	32.6	1.283	32.6	1.283	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					5	Int.	MVS0310X05S060	●	32.6	1.283	35.7	1.406	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0310X08S040	★	41.6	1.638	41.6	1.638	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					8	Int.	MVS0310X08S060	●	41.6	1.638	44.7	1.760	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0310X10S040	★	46.6	1.835	49.6	1.953	97.6	3.843	97	3.819	0.6	.024	4	.157	8
3.100	.1220				10	Int.	MVS0310X10S060	●	46.6	1.835	52.7	2.075	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0310X15S040	★	63.6	2.504	66.6	2.622	114.6	4.512	114	4.488	0.6	.024	4	.157	8
					15	Int.	MVS0310X15S060	●	63.6	2.504	69.7	2.744	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0310X20S040	★	81.6	3.213	84.6	3.331	132.6	5.220	132	5.197	0.6	.024	4	.157	8
					20	Int.	MVS0310X20S060	●	81.6	3.213	87.7	3.453	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0310X25S040	★	98.6	3.882	101.6	4.000	149.6	5.890	149	5.866	0.6	.024	4	.157	8
					25	Int.	MVS0310X25S060	●	98.6	3.882	104.7	4.122	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0310X30S040	★	116.6	4.591	119.6	4.709	167.6	6.598	167	6.575	0.6	.024	4	.157	8
					30	Int.	MVS0310X30S060	●	116.6	4.591	122.7	4.831	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0310X35S040	□	134.6	5.299	137.6	5.417	185.6	7.307	185	7.283	0.6	.024	4	.157	8
					35	Int.	MVS0310X35S060	□	134.6	5.299	140.7	5.539	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0310X40S040	□	150.6	5.929	153.6	6.047	201.6	7.937	201	7.913	0.6	.024	4	.157	8
					40	Int.	MVS0310X40S060	□	150.6	5.929	156.7	6.169	201.6	7.937	201	7.913	0.6	.024	6	.236	7
					2	Ext.	MVE0318X02S060	●	18.6	.732	21.6	.850	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0318X02S060PL	●	18.5	.728	21.5	.846	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Int.	MVS0318X03S060	●	21.6	.850	24.6	.969	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0318X05S060	●	32.6	1.283	35.6	1.402	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0318X08S060	●	41.6	1.638	44.6	1.756	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0318X10S060	●	46.6	1.835	52.6	2.071	97.6	3.843	97	3.819	0.6	.024	6	.236	7
3.175	.1250	1/8			15	Int.	MVS0318X15S060	●	63.6	2.504	69.6	2.740	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0318X20S060	●	81.6	3.213	87.6	3.449	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0318X25S060	●	98.6	3.882	104.6	4.118	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0318X30S060	●	116.6	4.591	119.6	4.827	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0318X35S060	●	134.6	5.299	137.6	5.535	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0318X40S060	●	150.6	5.929	153.6	6.165	201.6	7.937	201	7.913	0.6	.024	6	.236	7

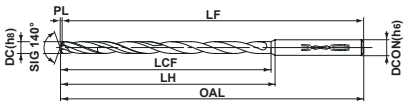
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan
□ : Non stock, produced to order only.

Type5



Type7



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.200	.1260				2	Ext.	MVE0320X02S040	★	18.6	.732	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	2
					2	Ext.	MVE0320X02S060	●	18.6	.732	21.6	.850	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0320X02S040PL	★	18.5	.728	20.5	.807	55.5	2.185	55	2.165	0.5	.020	4	.157	4
					2	Int.	MVS0320X02S060PL	●	18.5	.728	21.5	.846	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Ext.	MVE0320X03S040	★	24.6	.969	26.6	1.047	60.6	2.386	60	2.362	0.6	.024	4	.157	2
					3	Ext.	MVE0320X03S060	★	24.6	.969	27.6	1.087	60.6	2.386	60	2.362	0.6	.024	6	.236	1
					3	Int.	MVS0320X03S040	★	21.6	.850	23.6	.929	76.6	3.016	76	2.992	0.6	.024	4	.157	6
					3	Int.	MVS0320X03S060	●	21.6	.850	24.6	.969	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0320X05S040	★	32.6	1.283	32.6	1.283	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					5	Int.	MVS0320X05S060	●	32.6	1.283	35.6	1.402	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0320X08S040	★	41.6	1.638	41.6	1.638	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					8	Int.	MVS0320X08S060	●	41.6	1.638	44.6	1.756	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0320X10S040	★	46.6	1.835	49.6	1.953	97.6	3.843	97	3.819	0.6	.024	4	.157	8
					10	Int.	MVS0320X10S060	●	46.6	1.835	52.6	2.071	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0320X15S040	★	63.6	2.504	66.6	2.622	114.6	4.512	114	4.488	0.6	.024	4	.157	8
					15	Int.	MVS0320X15S060	●	63.6	2.504	69.6	2.740	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0320X20S040	★	81.6	3.213	84.6	3.331	132.6	5.220	132	5.197	0.6	.024	4	.157	8
					20	Int.	MVS0320X20S060	●	81.6	3.213	87.6	3.449	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0320X25S040	★	98.6	3.882	101.6	4.000	149.6	5.890	149	5.866	0.6	.024	4	.157	8
					25	Int.	MVS0320X25S060	●	98.6	3.882	104.6	4.118	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0320X30S040	★	116.6	4.591	119.6	4.709	167.6	6.598	167	6.575	0.6	.024	4	.157	8
					30	Int.	MVS0320X30S060	●	116.6	4.591	122.6	4.827	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0320X35S040	□	134.6	5.299	137.6	5.417	185.6	7.307	185	7.283	0.6	.024	4	.157	8
					35	Int.	MVS0320X35S060	□	134.6	5.299	140.6	5.539	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0320X40S040	□	150.6	5.929	153.6	6.047	201.6	7.937	201	7.913	0.6	.024	4	.157	8
					40	Int.	MVS0320X40S060	□	150.6	5.929	156.6	6.165	201.6	7.937	201	7.913	0.6	.024	6	.236	7
3.300	.1299			M4x.7	2	Ext.	MVE0330X02S040	★	18.6	.732	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	2
					2	Ext.	MVE0330X02S060	●	18.6	.732	21.5	.846	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0330X02S040PL	★	18.5	.728	20.5	.807	55.5	2.185	55	2.165	0.5	.020	4	.157	4
					2	Int.	MVS0330X02S060PL	●	18.5	.728	21.4	.843	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Ext.	MVE0330X03S040	★	24.6	.969	26.6	1.047	60.6	2.386	60	2.362	0.6	.024	4	.157	2
					3	Ext.	MVE0330X03S060	★	24.6	.969	27.5	1.083	60.6	2.386	60	2.362	0.6	.024	6	.236	1
					3	Int.	MVS0330X03S040	★	21.6	.850	23.6	.929	76.6	3.016	76	2.992	0.6	.024	4	.157	6
					3	Int.	MVS0330X03S060	●	21.6	.850	24.5	.965	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0330X05S040	★	32.6	1.283	32.6	1.283	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					5	Int.	MVS0330X05S060	●	32.6	1.283	35.5	1.398	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0330X08S040	★	41.6	1.638	41.6	1.638	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					8	Int.	MVS0330X08S060	●	41.6	1.638	44.5	1.752	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0330X10S040	★	46.6	1.835	49.6	1.953	97.6	3.843	97	3.819	0.6	.024	4	.157	8
					10	Int.	MVS0330X10S060	●	46.6	1.835	52.5	2.067	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0330X15S040	★	63.6	2.504	66.6	2.622	114.6	4.512	114	4.488	0.6	.024	4	.157	8
					15	Int.	MVS0330X15S060	●	63.6	2.504	69.5	2.736	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0330X20S040	★	81.6	3.213	84.6	3.331	132.6	5.220	132	5.197	0.6	.024	4	.157	8
					20	Int.	MVS0330X20S060	●	81.6	3.213	87.5	3.445	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0330X25S040	★	98.6	3.882	101.6	4.000	149.6	5.890	149	5.866	0.6	.024	4	.157	8
					25	Int.	MVS0330X25S060	●	98.6	3.882	104.5	4.114	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0330X30S040	★	116.6	4.591	119.6	4.709	167.6	6.598	167	6.575	0.6	.024	4	.157	8
					30	Int.	MVS0330X30S060	●	116.6	4.591	122.5	4.823	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0330X35S040	□	134.6	5.299	137.6	5.417	185.6	7.307	185	7.283	0.6	.024	4	.157	8
					35	Int.	MVS0330X35S060	□	134.6	5.299	140.5	5.531	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0330X40S040	□	150.6	5.929	153.6	6.047	201.6	7.937	201	7.913	0.6	.024	4	.157	8
					40	Int.	MVS0330X40S060	□	150.6	5.929	156.5	6.161	201.6	7.937	201	7.913	0.6	.024	6	.236	7

Solid Carbide Drills

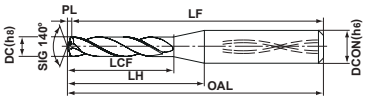
MVE/MVS

DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.400	.1339				2	Ext.	MVE0340X02S040	★	18.6	.732	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	2
					2	Ext.	MVE0340X02S060	●	18.6	.732	21.4	.843	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0340X02S040PL	★	18.5	.728	20.5	.807	55.5	2.185	55	2.165	0.5	.020	4	.157	4
					2	Int.	MVS0340X02S060PL	●	18.5	.728	21.3	.839	55.5	2.185	55	2.165	0.5	.020	6	.236	3
					3	Ext.	MVE0340X03S040	★	24.6	.969	26.6	1.047	60.6	2.386	60	2.362	0.6	.024	4	.157	2
					3	Ext.	MVE0340X03S060	★	24.6	.969	27.4	1.079	60.6	2.386	60	2.362	0.6	.024	6	.236	1
					3	Int.	MVS0340X03S040	★	21.6	.850	23.6	.929	76.6	3.016	76	2.992	0.6	.024	4	.157	6
					3	Int.	MVS0340X03S060	●	21.6	.850	24.4	.961	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0340X05S040	★	32.6	1.283	32.6	1.283	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					5	Int.	MVS0340X05S060	●	32.6	1.283	35.4	1.394	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0340X08S040	★	41.6	1.638	41.6	1.638	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					8	Int.	MVS0340X08S060	●	41.6	1.638	44.4	1.748	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0340X10S040	★	46.6	1.835	49.6	1.953	97.6	3.843	97	3.819	0.6	.024	4	.157	8
					10	Int.	MVS0340X10S060	●	46.6	1.835	52.4	2.063	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0340X15S040	★	63.6	2.504	66.6	2.622	114.6	4.512	114	4.488	0.6	.024	4	.157	8
					15	Int.	MVS0340X15S060	●	63.6	2.504	69.4	2.732	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0340X20S040	★	81.6	3.213	84.6	3.331	132.6	5.220	132	5.197	0.6	.024	4	.157	8
					20	Int.	MVS0340X20S060	●	81.6	3.213	87.4	3.441	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0340X25S040	★	98.6	3.882	101.6	4.000	149.6	5.890	149	5.866	0.6	.024	4	.157	8
					25	Int.	MVS0340X25S060	●	98.6	3.882	104.4	4.110	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0340X30S040	★	116.6	4.591	119.6	4.709	167.6	6.598	167	6.575	0.6	.024	4	.157	8
					30	Int.	MVS0340X30S060	●	116.6	4.591	122.4	4.819	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0340X35S040	□	134.6	5.299	137.6	5.417	185.6	7.307	185	7.283	0.6	.024	4	.157	8
					35	Int.	MVS0340X35S060	□	134.6	5.299	140.4	5.528	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0340X40S040	□	150.6	5.929	153.6	6.047	201.6	7.937	201	7.913	0.6	.024	4	.157	8
					40	Int.	MVS0340X40S060	□	150.6	5.929	156.4	6.157	201.6	7.937	201	7.913	0.6	.024	6	.236	7
3.500	.1378				2	Ext.	MVE0350X02S040	★	18.6	.732	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	2
					2	Ext.	MVE0350X02S060	●	18.6	.732	21.3	.839	55.6	2.189	55	2.165	0.6	.024	6	.236	1
					2	Int.	MVS0350X02S040PL	★	18.5	.728	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	MVS0350X02S060PL	●	18.5	.728	21.2	.835	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	MVE0350X03S040	★	24.6	.969	26.6	1.047	60.6	2.386	60	2.362	0.6	.024	4	.157	2
					3	Ext.	MVE0350X03S060	★	24.6	.969	27.3	1.075	60.6	2.386	60	2.362	0.6	.024	6	.236	1
					3	Int.	MVS0350X03S040	★	21.6	.850	23.6	.929	76.6	3.016	76	2.992	0.6	.024	4	.157	6
					3	Int.	MVS0350X03S060	●	21.6	.850	24.3	.957	76.6	3.016	76	2.992	0.6	.024	6	.236	5
					5	Int.	MVS0350X05S040	★	32.6	1.283	32.6	1.283	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					5	Int.	MVS0350X05S060	●	32.6	1.283	35.3	1.390	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					8	Int.	MVS0350X08S040	★	41.6	1.638	41.6	1.638	87.6	3.449	87	3.425	0.6	.024	4	.157	6
					8	Int.	MVS0350X08S060	●	41.6	1.638	44.3	1.744	87.6	3.449	87	3.425	0.6	.024	6	.236	5
					10	Int.	MVS0350X10S040	★	46.6	1.835	49.6	1.953	97.6	3.843	97	3.819	0.6	.024	4	.157	8
					10	Int.	MVS0350X10S060	●	46.6	1.835	52.3	2.059	97.6	3.843	97	3.819	0.6	.024	6	.236	7
					15	Int.	MVS0350X15S040	★	63.6	2.504	66.6	2.622	114.6	4.512	114	4.488	0.6	.024	4	.157	8
					15	Int.	MVS0350X15S060	●	63.6	2.504	69.3	2.728	114.6	4.512	114	4.488	0.6	.024	6	.236	7
					20	Int.	MVS0350X20S040	★	81.6	3.213	84.6	3.331	132.6	5.220	132	5.197	0.6	.024	4	.157	8
					20	Int.	MVS0350X20S060	●	81.6	3.213	87.3	3.437	132.6	5.220	132	5.197	0.6	.024	6	.236	7
					25	Int.	MVS0350X25S040	★	98.6	3.882	101.6	4.000	149.6	5.890	149	5.866	0.6	.024	4	.157	8
					25	Int.	MVS0350X25S060	●	98.6	3.882	104.3	4.106	149.6	5.890	149	5.866	0.6	.024	6	.236	7
					30	Int.	MVS0350X30S040	★	116.6	4.591	119.6	4.709	167.6	6.598	167	6.575	0.6	.024	4	.157	8
					30	Int.	MVS0350X30S060	●	116.6	4.591	122.3	4.815	167.6	6.598	167	6.575	0.6	.024	6	.236	7
					35	Int.	MVS0350X35S040	★	134.6	5.299	137.6	5.417	185.6	7.307	185	7.283	0.6	.024	4	.157	8
					35	Int.	MVS0350X35S060	●	134.6	5.299	140.3	5.524	185.6	7.307	185	7.283	0.6	.024	6	.236	7
					40	Int.	MVS0350X40S040	★	150.6	5.929	153.6	6.047	201.6	7.937	201	7.913	0.6	.024	4	.157	8
					40	Int.	MVS0350X40S060	●	150.6	5.929	156.3	6.154	201.6	7.937	201	7.913	0.6	.024	6	.236	7

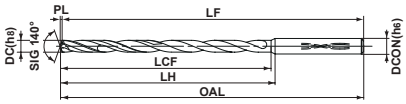
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type5



Type7



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.571	**.1406**	**9/64**			2	Ext.	**MVE0357X02S060**	●	20.7	.815	23.3	.917	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	**MVS0357X02S060PL**	●	20.6	.811	23.2	.913	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Int.	**MVS0357X03S060**	●	23.7	.933	26.3	1.035	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	**MVS0357X05S060**	●	36.7	1.445	39.3	1.547	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	**MVS0357X08S060**	●	46.7	1.839	49.3	1.941	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	**MVS0357X10S060**	●	52.7	2.075	58.3	2.295	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	**MVS0357X15S060**	●	72.7	2.862	78.3	3.083	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	**MVS0357X20S060**	●	92.7	3.650	98.3	3.870	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	**MVS0357X25S060**	●	112.7	4.437	118.3	4.657	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	**MVS0357X30S060**	●	132.7	5.224	135.7	5.445	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	**MVS0357X35S060**	●	152.7	6.012	155.7	6.232	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	**MVS0357X40S060**	●	172.7	6.799	175.7	7.020	223.7	8.807	223	8.780	0.7	.028	6	.236	7
3.600	**.1417**				2	Ext.	**MVE0360X02S040**	★	20.7	.815	20.7	.815	55.7	2.193	55	2.165	0.7	.028	4	.157	2
					2	Ext.	**MVE0360X02S060**	●	20.7	.815	23.3	.917	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	**MVS0360X02S040PL**	★	20.6	.811	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	**MVS0360X02S060PL**	●	20.6	.811	23.1	.909	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	**MVE0360X03S040**	★	27.7	1.091	27.7	1.091	60.7	2.390	60	2.362	0.7	.028	4	.157	2
					3	Ext.	**MVE0360X03S060**	★	27.7	1.091	30.3	1.193	60.7	2.390	60	2.362	0.7	.028	6	.236	1
					3	Int.	**MVS0360X03S040**	★	23.7	.933	23.7	.933	80.7	3.177	80	3.150	0.7	.028	4	.157	6
					3	Int.	**MVS0360X03S060**	●	23.7	.933	26.3	1.035	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	**MVS0360X05S040**	★	36.7	1.445	36.7	1.445	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					5	Int.	**MVS0360X05S060**	●	36.7	1.445	39.3	1.547	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	**MVS0360X08S040**	★	46.7	1.839	46.7	1.839	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					8	Int.	**MVS0360X08S060**	●	46.7	1.839	49.3	1.941	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	**MVS0360X10S040**	★	52.7	2.075	55.7	2.193	103.7	4.083	103	4.055	0.7	.028	4	.157	8
					10	Int.	**MVS0360X10S060**	●	52.7	2.075	58.2	2.291	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	**MVS0360X15S040**	★	72.7	2.862	75.7	2.980	123.7	4.870	123	4.843	0.7	.028	4	.157	8
					15	Int.	**MVS0360X15S060**	●	72.7	2.862	78.2	3.079	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	**MVS0360X20S040**	★	92.7	3.650	95.7	3.768	143.7	5.657	143	5.630	0.7	.028	4	.157	8
					20	Int.	**MVS0360X20S060**	●	92.7	3.650	98.2	3.866	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	**MVS0360X25S040**	★	112.7	4.437	115.7	4.555	163.7	6.445	163	6.417	0.7	.028	4	.157	8
					25	Int.	**MVS0360X25S060**	●	112.7	4.437	118.2	4.654	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	**MVS0360X30S040**	★	132.7	5.224	135.7	5.343	183.7	7.232	183	7.205	0.7	.028	4	.157	8
					30	Int.	**MVS0360X30S060**	●	132.7	5.224	138.2	5.441	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	**MVS0360X35S040**	□	152.7	6.012	155.7	6.130	203.7	8.020	203	7.992	0.7	.028	4	.157	8
					35	Int.	**MVS0360X35S060**	□	152.7	6.012	158.2	6.232	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	**MVS0360X40S040**	□	172.7	6.799	175.7	6.917	223.7	8.807	223	8.780	0.7	.028	4	.157	8
					40	Int.	**MVS0360X40S060**	□	172.7	6.799	178.2	7.020	223.7	8.807	223	8.780	0.7	.028	6	.236	7

Solid Carbide Drills

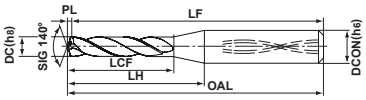
MVE/MVS

DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.700	.1457			M4.5x.75	2	Ext.	MVE0370X02S040	★	20.7	.815	20.7	.815	55.7	2.193	55	2.165	0.7	.028	4	.157	2
					2	Ext.	MVE0370X02S060	●	20.7	.815	23.2	.913	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	MVS0370X02S040PL	★	20.6	.811	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	MVS0370X02S060PL	●	20.6	.811	23.0	.906	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	MVE0370X03S040	★	27.7	1.091	27.7	1.091	60.7	2.390	60	2.362	0.7	.028	4	.157	2
					3	Ext.	MVE0370X03S060	★	27.7	1.091	30.2	1.189	60.7	2.390	60	2.362	0.7	.028	6	.236	1
					3	Int.	MVS0370X03S040	★	23.7	.933	23.7	.933	80.7	3.177	80	3.150	0.7	.028	4	.157	6
					3	Int.	MVS0370X03S060	●	23.7	.933	26.2	1.031	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	MVS0370X05S040	★	36.7	1.445	36.7	1.445	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					5	Int.	MVS0370X05S060	●	36.7	1.445	39.2	1.543	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	MVS0370X08S040	★	46.7	1.839	46.7	1.839	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					8	Int.	MVS0370X08S060	●	46.7	1.839	49.2	1.937	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	MVS0370X10S040	★	52.7	2.075	55.7	2.193	103.7	4.083	103	4.055	0.7	.028	4	.157	8
					10	Int.	MVS0370X10S060	●	52.7	2.075	58.1	2.287	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	MVS0370X15S040	★	72.7	2.862	75.7	2.980	123.7	4.870	123	4.843	0.7	.028	4	.157	8
					15	Int.	MVS0370X15S060	●	72.7	2.862	78.1	3.075	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	MVS0370X20S040	★	92.7	3.650	95.7	3.768	143.7	5.657	143	5.630	0.7	.028	4	.157	8
					20	Int.	MVS0370X20S060	●	92.7	3.650	98.1	3.862	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	MVS0370X25S040	★	112.7	4.437	115.7	4.555	163.7	6.445	163	6.417	0.7	.028	4	.157	8
					25	Int.	MVS0370X25S060	●	112.7	4.437	118.1	4.650	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	MVS0370X30S040	★	132.7	5.224	135.7	5.343	183.7	7.232	183	7.205	0.7	.028	4	.157	8
					30	Int.	MVS0370X30S060	●	132.7	5.224	138.1	5.437	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	MVS0370X35S040	□	152.7	6.012	155.7	6.130	203.7	8.020	203	7.992	0.7	.028	4	.157	8
					35	Int.	MVS0370X35S060	□	152.7	6.012	158.1	6.228	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	MVS0370X40S040	□	172.7	6.799	175.7	6.917	223.7	8.807	223	8.780	0.7	.028	4	.157	8
					40	Int.	MVS0370X40S060	□	172.7	6.799	178.1	7.016	223.7	8.807	223	8.780	0.7	.028	6	.236	7
3.800	.1496		25	#10-24	2	Ext.	MVE0380X02S040	★	20.7	.815	20.7	.815	55.7	2.193	55	2.165	0.7	.028	4	.157	2
					2	Ext.	MVE0380X02S060	●	20.7	.815	23.1	.909	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	MVS0380X02S040PL	★	20.6	.811	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	MVS0380X02S060PL	●	20.6	.811	23.0	.906	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	MVE0380X03S040	★	27.7	1.091	27.7	1.091	60.7	2.390	60	2.362	0.7	.028	4	.157	2
					3	Ext.	MVE0380X03S060	★	27.7	1.091	30.1	1.185	60.7	2.390	60	2.362	0.7	.028	6	.236	1
					3	Int.	MVS0380X03S040	★	23.7	.933	23.7	.933	80.7	3.177	80	3.150	0.7	.028	4	.157	6
					3	Int.	MVS0380X03S060	●	23.7	.933	26.1	1.028	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	MVS0380X05S040	★	36.7	1.445	36.7	1.445	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					5	Int.	MVS0380X05S060	●	36.7	1.445	39.1	1.539	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	MVS0380X08S040	★	46.7	1.839	46.7	1.839	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					8	Int.	MVS0380X08S060	●	46.7	1.839	49.1	1.933	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	MVS0380X10S040	★	52.7	2.075	55.7	2.193	103.7	4.083	103	4.055	0.7	.028	4	.157	8
					10	Int.	MVS0380X10S060	●	52.7	2.075	58.1	2.287	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	MVS0380X15S040	★	72.7	2.862	75.7	2.980	123.7	4.870	123	4.843	0.7	.028	4	.157	8
					15	Int.	MVS0380X15S060	●	72.7	2.862	78.1	3.075	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	MVS0380X20S040	★	92.7	3.650	95.7	3.768	143.7	5.657	143	5.630	0.7	.028	4	.157	8
					20	Int.	MVS0380X20S060	●	92.7	3.650	98.1	3.862	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	MVS0380X25S040	★	112.7	4.437	115.7	4.555	163.7	6.445	163	6.417	0.7	.028	4	.157	8
					25	Int.	MVS0380X25S060	●	112.7	4.437	118.1	4.650	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	MVS0380X30S040	★	132.7	5.224	135.7	5.343	183.7	7.232	183	7.205	0.7	.028	4	.157	8
					30	Int.	MVS0380X30S060	●	132.7	5.224	138.1	5.437	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	MVS0380X35S040	□	152.7	6.012	155.7	6.130	203.7	8.020	203	7.992	0.7	.028	4	.157	8
					35	Int.	MVS0380X35S060	□	152.7	6.012	158.1	6.224	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	MVS0380X40S040	□	172.7	6.799	175.7	6.917	223.7	8.807	223	8.780	0.7	.028	4	.157	8
					40	Int.	MVS0380X40S060	□	172.7	6.799	178.1	7.012	223.7	8.807	223	8.780	0.7	.028	6	.236	7

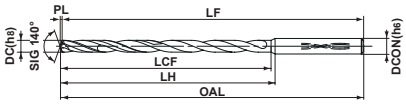
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type5



Type7



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
3.900	.1535				2	Ext.	MVE0390X02S040	★	20.7	.815	20.7	.815	55.7	2.193	55	2.165	0.7	.028	4	.157	2
					2	Ext.	MVE0390X02S060	●	20.7	.815	23.0	.906	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	MVS0390X02S040PL	★	20.6	.811	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	MVS0390X02S060PL	●	20.6	.811	22.9	.902	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	MVE0390X03S040	★	27.7	1.091	27.7	1.091	60.7	2.390	60	2.362	0.7	.028	4	.157	2
					3	Ext.	MVE0390X03S060	★	27.7	1.091	30.0	1.181	60.7	2.390	60	2.362	0.7	.028	6	.236	1
					3	Int.	MVS0390X03S040	★	23.7	.933	23.7	.933	80.7	3.177	80	3.150	0.7	.028	4	.157	6
					3	Int.	MVS0390X03S060	●	23.7	.933	26.0	1.024	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	MVS0390X05S040	★	36.7	1.445	36.7	1.445	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					5	Int.	MVS0390X05S060	●	36.7	1.445	39.0	1.535	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	MVS0390X08S040	★	46.7	1.839	46.7	1.839	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					8	Int.	MVS0390X08S060	●	46.7	1.839	49.0	1.929	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	MVS0390X10S040	★	52.7	2.075	55.7	2.193	103.7	4.083	103	4.055	0.7	.028	4	.157	8
					10	Int.	MVS0390X10S060	●	52.7	2.075	58.0	2.283	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	MVS0390X15S040	★	72.7	2.862	75.7	2.980	123.7	4.870	123	4.843	0.7	.028	4	.157	8
					15	Int.	MVS0390X15S060	●	72.7	2.862	78.0	3.071	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	MVS0390X20S040	★	92.7	3.650	95.7	3.768	143.7	5.657	143	5.630	0.7	.028	4	.157	8
					20	Int.	MVS0390X20S060	●	92.7	3.650	98.0	3.858	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	MVS0390X25S040	★	112.7	4.437	115.7	4.555	163.7	6.445	163	6.417	0.7	.028	4	.157	8
					25	Int.	MVS0390X25S060	●	112.7	4.437	118.0	4.646	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	MVS0390X30S040	★	132.7	5.224	135.7	5.343	183.7	7.232	183	7.205	0.7	.028	4	.157	8
					30	Int.	MVS0390X30S060	●	132.7	5.224	138.0	5.433	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	MVS0390X35S040	□	152.7	6.012	155.7	6.130	203.7	8.020	203	7.992	0.7	.028	4	.157	8
					35	Int.	MVS0390X35S060	□	152.7	6.012	158.0	6.220	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	MVS0390X40S040	□	172.7	6.799	175.7	6.917	223.7	8.807	223	8.780	0.7	.028	4	.157	8
					40	Int.	MVS0390X40S060	□	172.7	6.799	178.0	7.008	223.7	8.807	223	8.780	0.7	.028	6	.236	7
3.967	.1562	5/32			2	Ext.	MVE0397X02S060	●	20.7	.815	22.9	.902	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	MVS0397X02S060PL	●	20.6	.811	22.8	.898	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Int.	MVS0397X03S060	●	23.7	.933	25.9	1.020	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	MVS0397X05S060	●	36.7	1.445	38.9	1.531	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	MVS0397X08S060	●	46.7	1.839	48.9	1.925	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	MVS0397X10S060	●	52.7	2.075	57.9	2.280	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	MVS0397X15S060	●	72.7	2.862	77.9	3.067	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	MVS0397X20S060	●	92.7	3.650	97.9	3.854	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	MVS0397X25S060	●	112.7	4.437	117.9	4.642	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	MVS0397X30S060	●	132.7	5.224	135.7	5.429	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	MVS0397X35S060	●	152.7	6.012	155.7	6.217	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	MVS0397X40S060	●	172.7	6.799	175.7	7.004	223.7	8.807	223	8.780	0.7	.028	6	.236	7

Solid Carbide Drills

MVE/MVS

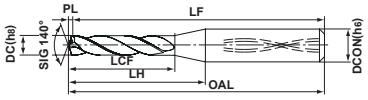
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
4.000	.1575				2	Ext.	MVE0400X02S040	★	20.7	.815	20.7	.815	55.7	2.193	55	2.165	0.7	.028	4	.157	2
					2	Ext.	MVE0400X02S060	●	20.7	.815	22.8	.898	55.7	2.193	55	2.165	0.7	.028	6	.236	1
					2	Int.	MVS0400X02S040PL	★	20.6	.811	20.6	.811	55.6	2.189	55	2.165	0.6	.024	4	.157	4
					2	Int.	MVS0400X02S060PL	●	20.6	.811	22.8	.898	55.6	2.189	55	2.165	0.6	.024	6	.236	3
					3	Ext.	MVE0400X03S040	★	27.7	1.091	27.7	1.091	60.7	2.390	60	2.362	0.7	.028	4	.157	2
					3	Ext.	MVE0400X03S060	★	27.7	1.091	29.8	1.173	60.7	2.390	60	2.362	0.7	.028	6	.236	1
					3	Int.	MVS0400X03S040	★	23.7	.933	23.7	.933	80.7	3.177	80	3.150	0.7	.028	4	.157	6
					3	Int.	MVS0400X03S060	●	23.7	.933	25.8	1.016	80.7	3.177	80	3.150	0.7	.028	6	.236	5
					5	Int.	MVS0400X05S040	★	36.7	1.445	36.7	1.445	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					5	Int.	MVS0400X05S060	●	36.7	1.445	38.8	1.528	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					8	Int.	MVS0400X08S040	★	46.7	1.839	46.7	1.839	92.7	3.650	92	3.622	0.7	.028	4	.157	6
					8	Int.	MVS0400X08S060	●	46.7	1.839	48.8	1.921	92.7	3.650	92	3.622	0.7	.028	6	.236	5
					10	Int.	MVS0400X10S040	★	52.7	2.075	55.7	2.193	103.7	4.083	103	4.055	0.7	.028	4	.157	8
					10	Int.	MVS0400X10S060	●	52.7	2.075	57.9	2.280	103.7	4.083	103	4.055	0.7	.028	6	.236	7
					15	Int.	MVS0400X15S040	★	72.7	2.862	75.7	2.980	123.7	4.870	123	4.843	0.7	.028	4	.157	8
					15	Int.	MVS0400X15S060	●	72.7	2.862	77.9	3.067	123.7	4.870	123	4.843	0.7	.028	6	.236	7
					20	Int.	MVS0400X20S040	★	92.7	3.650	95.7	3.768	143.7	5.657	143	5.630	0.7	.028	4	.157	8
					20	Int.	MVS0400X20S060	●	92.7	3.650	97.9	3.854	143.7	5.657	143	5.630	0.7	.028	6	.236	7
					25	Int.	MVS0400X25S040	★	112.7	4.437	115.7	4.555	163.7	6.445	163	6.417	0.7	.028	4	.157	8
					25	Int.	MVS0400X25S060	●	112.7	4.437	117.9	4.642	163.7	6.445	163	6.417	0.7	.028	6	.236	7
					30	Int.	MVS0400X30S040	★	132.7	5.224	135.7	5.343	183.7	7.232	183	7.205	0.7	.028	4	.157	8
					30	Int.	MVS0400X30S060	●	132.7	5.224	137.9	5.429	183.7	7.232	183	7.205	0.7	.028	6	.236	7
					35	Int.	MVS0400X35S040	★	152.7	6.012	155.7	6.130	203.7	8.020	203	7.992	0.7	.028	4	.157	8
					35	Int.	MVS0400X35S060	●	152.7	6.012	157.9	6.217	203.7	8.020	203	7.992	0.7	.028	6	.236	7
					40	Int.	MVS0400X40S040	★	172.7	6.799	175.7	6.917	223.7	8.807	223	8.780	0.7	.028	4	.157	8
					40	Int.	MVS0400X40S060	●	172.7	6.799	177.9	7.004	223.7	8.807	223	8.780	0.7	.028	6	.236	7
4.039	.1590		21	#10-32	2	Ext.	MVE0404X02S060	●	22.7	.894	24.8	.976	62.7	2.469	62	2.441	0.7	.028	6	.236	1
					2	Int.	MVS0404X02S060PL	●	22.6	.890	24.7	.972	62.6	2.465	62	2.441	0.6	.024	6	.236	3
					3	Int.	MVS0404X03S060	●	25.7	1.012	27.8	1.094	86.7	3.413	86	3.386	0.7	.028	6	.236	5
					5	Int.	MVS0404X05S060	●	40.7	1.602	42.8	1.685	100.7	3.965	100	3.937	0.7	.028	6	.236	5
					8	Int.	MVS0404X08S060	●	52.7	2.075	54.8	2.157	100.7	3.965	100	3.937	0.7	.028	6	.236	5
					10	Int.	MVS0404X10S060	●	59.7	2.350	64.8	2.551	112.7	4.437	112	4.409	0.7	.028	6	.236	7
					15	Int.	MVS0404X15S060	●	81.7	3.217	86.8	3.417	134.7	5.303	134	5.276	0.7	.028	6	.236	7
					20	Int.	MVS0404X20S060	●	104.7	4.122	109.8	4.323	157.7	6.209	157	6.181	0.7	.028	6	.236	7
					25	Int.	MVS0404X25S060	●	126.7	4.988	131.8	5.189	179.7	7.075	179	7.047	0.7	.028	6	.236	7
					30	Int.	MVS0404X30S060	●	149.7	5.894	152.7	6.094	202.7	7.980	202	7.953	0.7	.028	6	.236	7
					35	Int.	MVS0404X35S060	●	171.7	6.760	174.7	6.961	224.7	8.846	224	8.819	0.7	.028	6	.236	7
					40	Int.	MVS0404X40S060	●	195.7	7.705	198.7	7.906	248.7	9.791	248	9.764	0.7	.028	6	.236	7

(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

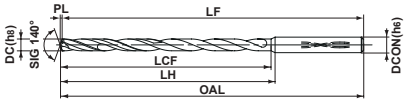
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type5



Type7



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
4.100	.1614				2	Ext.	MVE0410X02S050	★	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	2
					2	Ext.	MVE0410X02S060	●	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	6	.236	1
					2	Int.	MVS0410X02S050PL	★	22.6	.890	24.6	.969	62.6	2.465	62	2.441	0.6	.024	5	.197	4
					2	Int.	MVS0410X02S060PL	●	22.6	.890	24.7	.972	62.6	2.465	62	2.441	0.6	.024	6	.236	3
					3	Ext.	MVE0410X03S050	★	29.7	1.169	31.7	1.248	68.7	2.705	68	2.677	0.7	.028	5	.197	2
					3	Ext.	MVE0410X03S060	★	29.7	1.169	31.7	1.248	68.7	2.705	68	2.677	0.7	.028	6	.236	1
					3	Int.	MVS0410X03S050	★	25.7	1.012	25.7	1.012	86.7	3.413	86	3.386	0.7	.028	5	.197	6
					3	Int.	MVS0410X03S060	●	25.7	1.012	27.7	1.091	86.7	3.413	86	3.386	0.7	.028	6	.236	5
					5	Int.	MVS0410X05S050	★	40.7	1.602	40.7	1.602	100.7	3.965	100	3.937	0.7	.028	5	.197	6
					5	Int.	MVS0410X05S060	●	40.7	1.602	42.7	1.681	100.7	3.965	100	3.937	0.7	.028	6	.236	5
					8	Int.	MVS0410X08S050	★	52.7	2.075	52.7	2.075	100.7	3.965	100	3.937	0.7	.028	5	.197	6
					8	Int.	MVS0410X08S060	●	52.7	2.075	54.7	2.154	100.7	3.965	100	3.937	0.7	.028	6	.236	5
					10	Int.	MVS0410X10S050	★	59.7	2.350	62.7	2.472	112.7	4.437	112	4.409	0.7	.028	5	.197	8
					10	Int.	MVS0410X10S060	●	59.7	2.350	64.8	2.551	112.7	4.437	112	4.409	0.7	.028	6	.236	7
					15	Int.	MVS0410X15S050	★	81.7	3.217	84.7	3.339	134.7	5.303	134	5.276	0.7	.028	5	.197	8
					15	Int.	MVS0410X15S060	●	81.7	3.217	86.8	3.417	134.7	5.303	134	5.276	0.7	.028	6	.236	7
					20	Int.	MVS0410X20S050	★	104.7	4.122	107.7	4.244	157.7	6.209	157	6.181	0.7	.028	5	.197	8
					20	Int.	MVS0410X20S060	●	104.7	4.122	109.8	4.323	157.7	6.209	157	6.181	0.7	.028	6	.236	7
					25	Int.	MVS0410X25S050	★	126.7	4.988	129.7	5.110	179.7	7.075	179	7.047	0.7	.028	5	.197	8
					25	Int.	MVS0410X25S060	●	126.7	4.988	131.8	5.189	179.7	7.075	179	7.047	0.7	.028	6	.236	7
					30	Int.	MVS0410X30S050	★	149.7	5.894	152.7	6.016	202.7	7.980	202	7.953	0.7	.028	5	.197	8
					30	Int.	MVS0410X30S060	●	149.7	5.894	154.8	6.094	202.7	7.980	202	7.953	0.7	.028	6	.236	7
					35	Int.	MVS0410X35S050	□	171.7	6.760	174.7	6.882	224.7	8.846	224	8.819	0.7	.028	5	.197	8
					35	Int.	MVS0410X35S060	□	171.7	6.760	176.8	6.961	224.7	8.846	224	8.819	0.7	.028	6	.236	7
					40	Int.	MVS0410X40S050	□	195.7	7.705	198.7	7.827	248.7	9.791	248	9.764	0.7	.028	5	.197	8
					40	Int.	MVS0410X40S060	□	195.7	7.705	200.8	7.906	248.7	9.791	248	9.764	0.7	.028	6	.236	7
4.200	.1654			M5x.8	2	Ext.	MVE0420X02S050	★	22.8	.898	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	2
					2	Ext.	MVE0420X02S060	●	22.8	.898	24.7	.972	62.8	2.472	62	2.441	0.8	.031	6	.236	1
					2	Int.	MVS0420X02S050PL	★	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0420X02S060PL	●	22.7	.894	24.6	.969	62.7	2.469	62	2.441	0.7	.028	6	.236	3
					3	Ext.	MVE0420X03S050	★	29.8	1.173	31.8	1.252	68.8	2.709	68	2.677	0.8	.031	5	.197	2
					3	Ext.	MVE0420X03S060	★	29.8	1.173	31.7	1.248	68.8	2.709	68	2.677	0.8	.031	6	.236	1
					3	Int.	MVS0420X03S050	★	25.8	1.016	25.8	1.016	86.8	3.417	86	3.386	0.8	.031	5	.197	6
					3	Int.	MVS0420X03S060	●	25.8	1.016	27.7	1.091	86.8	3.417	86	3.386	0.8	.031	6	.236	5
					5	Int.	MVS0420X05S050	★	40.8	1.606	40.8	1.606	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					5	Int.	MVS0420X05S060	●	40.8	1.606	42.7	1.681	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					8	Int.	MVS0420X08S050	★	52.8	2.079	52.8	2.079	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					8	Int.	MVS0420X08S060	●	52.8	2.079	54.7	2.154	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					10	Int.	MVS0420X10S050	★	59.8	2.354	62.8	2.472	112.8	4.441	112	4.409	0.8	.031	5	.197	8
					10	Int.	MVS0420X10S060	●	59.8	2.354	64.7	2.547	112.8	4.441	112	4.409	0.8	.031	6	.236	7
					15	Int.	MVS0420X15S050	★	81.8	3.220	84.8	3.339	134.8	5.307	134	5.276	0.8	.031	5	.197	8
					15	Int.	MVS0420X15S060	●	81.8	3.220	86.7	3.413	134.8	5.307	134	5.276	0.8	.031	6	.236	7
					20	Int.	MVS0420X20S050	★	104.8	4.126	107.8	4.244	157.8	6.213	157	6.181	0.8	.031	5	.197	8
					20	Int.	MVS0420X20S060	●	104.8	4.126	109.7	4.319	157.8	6.213	157	6.181	0.8	.031	6	.236	7
					25	Int.	MVS0420X25S050	★	126.8	4.992	129.8	5.110	179.8	7.079	179	7.047	0.8	.031	5	.197	8
					25	Int.	MVS0420X25S060	●	126.8	4.992	131.7	5.185	179.8	7.079	179	7.047	0.8	.031	6	.236	7
					30	Int.	MVS0420X30S050	★	149.8	5.898	152.8	6.016	202.8	7.984	202	7.953	0.8	.031	5	.197	8
					30	Int.	MVS0420X30S060	●	149.8	5.898	154.7	6.091	202.8	7.984	202	7.953	0.8	.031	6	.236	7
					35	Int.	MVS0420X35S050	□	171.8	6.764	174.8	6.882	224.8	8.850	224	8.819	0.8	.031	5	.197	8
					35	Int.	MVS0420X35S060	□	171.8	6.764	176.7	6.957	224.8	8.850	224	8.819	0.8	.031	6	.236	7
					40	Int.	MVS0420X40S050	□	195.8	7.709	198.8	7.827	248.8	9.795	248	9.764	0.8	.031	5	.197	8
					40	Int.	MVS0420X40S060	□	195.8	7.709	200.7	7.902	248.8	9.795	248	9.764	0.8	.031	6	.236	7

Solid Carbide Drills

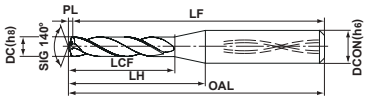
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	MVE0430X02S050	★	22.8	.898	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	2
					2	Ext.	MVE0430X02S060	●	22.8	.898	24.6	.969	62.8	2.472	62	2.441	0.8	.031	6	.236	1
					2	Int.	MVS0430X02S050PL	★	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0430X02S060PL	●	22.7	.894	24.5	.965	62.7	2.469	62	2.441	0.7	.028	6	.236	3
					3	Ext.	MVE0430X03S050	★	29.8	1.173	31.8	1.252	68.8	2.709	68	2.677	0.8	.031	5	.197	2
					3	Ext.	MVE0430X03S060	★	29.8	1.173	31.6	1.244	68.8	2.709	68	2.677	0.8	.031	6	.236	1
					3	Int.	MVS0430X03S050	★	25.8	1.016	25.8	1.016	86.8	3.417	86	3.386	0.8	.031	5	.197	6
					3	Int.	MVS0430X03S060	●	25.8	1.016	27.6	1.087	86.8	3.417	86	3.386	0.8	.031	6	.236	5
					5	Int.	MVS0430X05S050	★	40.8	1.606	40.8	1.606	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					5	Int.	MVS0430X05S060	●	40.8	1.606	42.6	1.677	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					8	Int.	MVS0430X08S050	★	52.8	2.079	52.8	2.079	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					8	Int.	MVS0430X08S060	●	52.8	2.079	54.6	2.150	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					10	Int.	MVS0430X10S050	★	59.8	2.354	62.8	2.472	112.8	4.441	112	4.409	0.8	.031	5	.197	8
4.300	.1693				10	Int.	MVS0430X10S060	●	59.8	2.354	64.6	2.543	112.8	4.441	112	4.409	0.8	.031	6	.236	7
					15	Int.	MVS0430X15S050	★	81.8	3.220	84.8	3.339	134.8	5.307	134	5.276	0.8	.031	5	.197	8
					15	Int.	MVS0430X15S060	●	81.8	3.220	86.6	3.409	134.8	5.307	134	5.276	0.8	.031	6	.236	7
					20	Int.	MVS0430X20S050	★	104.8	4.126	107.8	4.244	157.8	6.213	157	6.181	0.8	.031	5	.197	8
					20	Int.	MVS0430X20S060	●	104.8	4.126	109.6	4.315	157.8	6.213	157	6.181	0.8	.031	6	.236	7
					25	Int.	MVS0430X25S050	★	126.8	4.992	129.8	5.110	179.8	7.079	179	7.047	0.8	.031	5	.197	8
					25	Int.	MVS0430X25S060	●	126.8	4.992	131.6	5.181	179.8	7.079	179	7.047	0.8	.031	6	.236	7
					30	Int.	MVS0430X30S050	★	149.8	5.898	152.8	6.016	202.8	7.984	202	7.953	0.8	.031	5	.197	8
					30	Int.	MVS0430X30S060	●	149.8	5.898	154.6	6.087	202.8	7.984	202	7.953	0.8	.031	6	.236	7
					35	Int.	MVS0430X35S050	□	171.8	6.764	174.8	6.882	224.8	8.850	224	8.819	0.8	.031	5	.197	8
					35	Int.	MVS0430X35S060	□	171.8	6.764	176.6	6.953	224.8	8.850	224	8.819	0.8	.031	6	.236	7
					40	Int.	MVS0430X40S050	□	195.8	7.709	198.8	7.827	248.8	9.795	248	9.764	0.8	.031	5	.197	8
					40	Int.	MVS0430X40S060	□	195.8	7.709	200.6	7.898	248.8	9.795	248	9.764	0.8	.031	6	.236	7
					2	Ext.	MVE0437X02S060	●	22.8	.898	24.6	.969	62.8	2.472	62	2.441	0.8	.031	6	.236	1
					2	Int.	MVS0437X02S060PL	●	22.7	.894	24.4	.965	62.7	2.469	62	2.441	0.7	.028	6	.236	3
					3	Int.	MVS0437X03S060	●	25.8	1.016	27.6	1.087	86.8	3.417	86	3.386	0.8	.031	6	.236	5
					5	Int.	MVS0437X05S060	●	40.8	1.606	42.6	1.677	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					8	Int.	MVS0437X08S060	●	52.8	2.079	54.6	2.150	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					10	Int.	MVS0437X10S060	●	59.8	2.354	64.5	2.543	112.8	4.441	112	4.409	0.8	.031	6	.236	7
4.366	.1719	11/64			15	Int.	MVS0437X15S060	●	81.8	3.220	86.5	3.409	134.8	5.307	134	5.276	0.8	.031	6	.236	7
					20	Int.	MVS0437X20S060	●	104.8	4.126	109.5	4.315	157.8	6.213	157	6.181	0.8	.031	6	.236	7
					25	Int.	MVS0437X25S060	●	126.8	4.992	131.5	5.181	179.8	7.079	179	7.047	0.8	.031	6	.236	7
					30	Int.	MVS0437X30S060	●	149.8	5.898	152.8	6.087	202.8	7.984	202	7.953	0.8	.031	6	.236	7
					35	Int.	MVS0437X35S060	●	171.8	6.764	174.8	6.953	224.8	8.850	224	8.819	0.8	.031	6	.236	7
					40	Int.	MVS0437X40S060	●	195.8	7.709	198.8	7.898	248.8	9.795	248	9.764	0.8	.031	6	.236	7

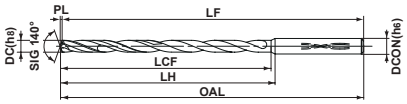
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan
□ : Non stock, produced to order only.

Type5



Type7



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
4.400	.1732		17		2	Ext.	MVE0440X02S050	★	22.8	.898	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	2
					2	Ext.	MVE0440X02S060	●	22.8	.898	24.5	.965	62.8	2.472	62	2.441	0.8	.031	6	.236	1
					2	Int.	MVS0440X02S050PL	★	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0440X02S060PL	●	22.7	.894	24.4	.961	62.7	2.469	62	2.441	0.7	.028	6	.236	3
					3	Ext.	MVE0440X03S050	★	29.8	1.173	31.8	1.252	68.8	2.709	68	2.677	0.8	.031	5	.197	2
					3	Ext.	MVE0440X03S060	★	29.8	1.173	31.5	1.240	68.8	2.709	68	2.677	0.8	.031	6	.236	1
					3	Int.	MVS0440X03S050	★	25.8	1.016	25.8	1.016	86.8	3.417	86	3.386	0.8	.031	5	.197	6
					3	Int.	MVS0440X03S060	●	25.8	1.016	27.5	1.083	86.8	3.417	86	3.386	0.8	.031	6	.236	5
					5	Int.	MVS0440X05S050	★	40.8	1.606	40.8	1.606	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					5	Int.	MVS0440X05S060	●	40.8	1.606	42.5	1.673	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					8	Int.	MVS0440X08S050	★	52.8	2.079	52.8	2.079	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					8	Int.	MVS0440X08S060	●	52.8	2.079	54.5	2.146	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					10	Int.	MVS0440X10S050	★	59.8	2.354	62.8	2.472	112.8	4.441	112	4.409	0.8	.031	5	.197	8
					10	Int.	MVS0440X10S060	●	59.8	2.354	64.5	2.539	112.8	4.441	112	4.409	0.8	.031	6	.236	7
					15	Int.	MVS0440X15S050	★	81.8	3.220	84.8	3.339	134.8	5.307	134	5.276	0.8	.031	5	.197	8
					15	Int.	MVS0440X15S060	●	81.8	3.220	86.5	3.406	134.8	5.307	134	5.276	0.8	.031	6	.236	7
					20	Int.	MVS0440X20S050	★	104.8	4.126	107.8	4.244	157.8	6.213	157	6.181	0.8	.031	5	.197	8
					20	Int.	MVS0440X20S060	●	104.8	4.126	109.5	4.311	157.8	6.213	157	6.181	0.8	.031	6	.236	7
					25	Int.	MVS0440X25S050	★	126.8	4.992	129.8	5.110	179.8	7.079	179	7.047	0.8	.031	5	.197	8
					25	Int.	MVS0440X25S060	●	126.8	4.992	131.5	5.177	179.8	7.079	179	7.047	0.8	.031	6	.236	7
					30	Int.	MVS0440X30S050	★	149.8	5.898	152.8	6.016	202.8	7.984	202	7.953	0.8	.031	5	.197	8
					30	Int.	MVS0440X30S060	●	149.8	5.898	154.5	6.083	202.8	7.984	202	7.953	0.8	.031	6	.236	7
					35	Int.	MVS0440X35S050	□	171.8	6.764	174.8	6.882	224.8	8.850	224	8.819	0.8	.031	5	.197	8
					35	Int.	MVS0440X35S060	□	171.8	6.764	176.5	6.949	224.8	8.850	224	8.819	0.8	.031	6	.236	7
					40	Int.	MVS0440X40S050	□	195.8	7.709	198.8	7.827	248.8	9.795	248	9.764	0.8	.031	5	.197	8
					40	Int.	MVS0440X40S060	□	195.8	7.709	200.5	7.894	248.8	9.795	248	9.764	0.8	.031	6	.236	7
4.500	.1772		16	#12-24	2	Ext.	MVE0450X02S050	★	22.8	.898	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	2
					2	Ext.	MVE0450X02S060	●	22.8	.898	24.4	.961	62.8	2.472	62	2.441	0.8	.031	6	.236	1
					2	Int.	MVS0450X02S050PL	★	22.7	.894	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0450X02S060PL	●	22.7	.894	24.3	.957	62.7	2.469	62	2.441	0.7	.028	6	.236	3
					3	Ext.	MVE0450X03S050	★	29.8	1.173	31.8	1.252	68.8	2.709	68	2.677	0.8	.031	5	.197	2
					3	Ext.	MVE0450X03S060	★	29.8	1.173	31.4	1.236	68.8	2.709	68	2.677	0.8	.031	6	.236	1
					3	Int.	MVS0450X03S050	★	25.8	1.016	25.8	1.016	86.8	3.417	86	3.386	0.8	.031	5	.197	6
					3	Int.	MVS0450X03S060	●	25.8	1.016	27.4	1.079	86.8	3.417	86	3.386	0.8	.031	6	.236	5
					5	Int.	MVS0450X05S050	★	40.8	1.606	40.8	1.606	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					5	Int.	MVS0450X05S060	●	40.8	1.606	42.4	1.669	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					8	Int.	MVS0450X08S050	★	52.8	2.079	52.8	2.079	100.8	3.969	100	3.937	0.8	.031	5	.197	6
					8	Int.	MVS0450X08S060	●	52.8	2.079	54.4	2.142	100.8	3.969	100	3.937	0.8	.031	6	.236	5
					10	Int.	MVS0450X10S050	★	59.8	2.354	62.8	2.472	112.8	4.441	112	4.409	0.8	.031	5	.197	8
					10	Int.	MVS0450X10S060	●	59.8	2.354	64.4	2.535	112.8	4.441	112	4.409	0.8	.031	6	.236	7
					15	Int.	MVS0450X15S050	★	81.8	3.220	84.8	3.339	134.8	5.307	134	5.276	0.8	.031	5	.197	8
					15	Int.	MVS0450X15S060	●	81.8	3.220	86.4	3.402	134.8	5.307	134	5.276	0.8	.031	6	.236	7
					20	Int.	MVS0450X20S050	★	104.8	4.126	107.8	4.244	157.8	6.213	157	6.181	0.8	.031	5	.197	8
					20	Int.	MVS0450X20S060	●	104.8	4.126	109.4	4.307	157.8	6.213	157	6.181	0.8	.031	6	.236	7
					25	Int.	MVS0450X25S050	★	126.8	4.992	129.8	5.110	179.8	7.079	179	7.047	0.8	.031	5	.197	8
					25	Int.	MVS0450X25S060	●	126.8	4.992	131.4	5.173	179.8	7.079	179	7.047	0.8	.031	6	.236	7
					30	Int.	MVS0450X30S050	★	149.8	5.898	152.8	6.016	202.8	7.984	202	7.953	0.8	.031	5	.197	8
					30	Int.	MVS0450X30S060	●	149.8	5.898	154.4	6.079	202.8	7.984	202	7.953	0.8	.031	6	.236	7
					35	Int.	MVS0450X35S050	★	171.8	6.764	174.8	6.882	224.8	8.850	224	8.819	0.8	.031	5	.197	8
					35	Int.	MVS0450X35S060	●	171.8	6.764	176.4	6.945	224.8	8.850	224	8.819	0.8	.031	6	.236	7
					40	Int.	MVS0450X40S050	★	195.8	7.709	198.8	7.827	248.8	9.795	248	9.764	0.8	.031	5	.197	8
					40	Int.	MVS0450X40S060	●	195.8	7.709	200.4	7.890	248.8	9.795	248	9.764	0.8	.031	6	.236	7

Solid Carbide Drills

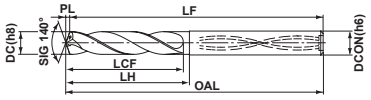
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	MVE0460X02S050	★	24.8	.976	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	2
					2	Ext.	MVE0460X02S060	●	24.8	.976	27.8	1.094	62.8	2.472	62	2.441	0.8	.031	6	.236	2
					2	Int.	MVS0460X02S050PL	★	24.7	.972	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0460X02S060PL	●	24.7	.972	27.7	1.091	62.7	2.469	62	2.441	0.7	.028	6	.236	4
					3	Ext.	MVE0460X03S050	★	32.8	1.291	32.8	1.291	68.8	2.709	68	2.677	0.8	.031	5	.197	2
					3	Ext.	MVE0460X03S060	★	32.8	1.291	35.8	1.409	68.8	2.709	68	2.677	0.8	.031	6	.236	2
					3	Int.	MVS0460X03S050	★	28.3	1.114	28.3	1.114	90.8	3.575	90	3.543	0.8	.031	5	.197	6
					3	Int.	MVS0460X03S060	●	28.3	1.114	31.3	1.232	90.8	3.575	90	3.543	0.8	.031	6	.236	6
					5	Int.	MVS0460X05S050	★	44.8	1.764	44.8	1.764	105.8	4.165	105	4.134	0.8	.031	5	.197	6
					5	Int.	MVS0460X05S060	●	44.8	1.764	47.8	1.882	105.8	4.165	105	4.134	0.8	.031	6	.236	6
					8	Int.	MVS0460X08S050	★	57.8	2.276	57.8	2.276	105.8	4.165	105	4.134	0.8	.031	5	.197	6
					8	Int.	MVS0460X08S060	●	57.8	2.276	60.8	2.394	105.8	4.165	105	4.134	0.8	.031	6	.236	6
					10	Int.	MVS0460X10S050	★	65.8	2.591	68.8	2.709	118.8	4.677	118	4.646	0.8	.031	5	.197	8
4.600	.1811				10	Int.	MVS0460X10S060	●	65.8	2.591	68.8	2.709	118.8	4.677	118	4.646	0.8	.031	6	.236	8
					15	Int.	MVS0460X15S050	★	90.8	3.575	93.8	3.693	143.8	5.661	143	5.630	0.8	.031	5	.197	8
					15	Int.	MVS0460X15S060	●	90.8	3.575	93.8	3.693	143.8	5.661	143	5.630	0.8	.031	6	.236	8
					20	Int.	MVS0460X20S050	★	115.8	4.559	118.8	4.677	168.8	6.646	168	6.614	0.8	.031	5	.197	8
					20	Int.	MVS0460X20S060	●	115.8	4.559	118.8	4.677	168.8	6.646	168	6.614	0.8	.031	6	.236	8
					25	Int.	MVS0460X25S050	★	140.8	5.543	143.8	5.661	193.8	7.630	193	7.598	0.8	.031	5	.197	8
					25	Int.	MVS0460X25S060	●	140.8	5.543	143.8	5.661	193.8	7.630	193	7.598	0.8	.031	6	.236	8
					30	Int.	MVS0460X30S050	★	165.8	6.528	168.8	6.646	218.8	8.614	218	8.583	0.8	.031	5	.197	8
					30	Int.	MVS0460X30S060	●	165.8	6.528	168.8	6.646	218.8	8.614	218	8.583	0.8	.031	6	.236	8
					35	Int.	MVS0460X35S050	□	190.8	7.512	193.8	7.630	243.8	9.598	243	9.567	0.8	.031	5	.197	8
					35	Int.	MVS0460X35S060	□	190.8	7.512	193.8	7.630	243.8	9.598	243	9.567	0.8	.031	6	.236	8
					40	Int.	MVS0460X40S050	□	215.8	8.496	218.8	8.614	268.8	10.583	268	10.551	0.8	.031	5	.197	8
					40	Int.	MVS0460X40S060	□	215.8	8.496	218.8	8.614	268.8	10.583	268	10.551	0.8	.031	6	.236	8
					2	Ext.	MVE0470X02S050	★	24.9	.980	24.9	.980	62.9	2.476	62	2.441	0.9	.035	5	.197	2
					2	Ext.	MVE0470X02S060	●	24.9	.980	27.9	1.098	62.9	2.476	62	2.441	0.9	.035	6	.236	2
					2	Int.	MVS0470X02S050PL	★	24.7	.972	24.7	.972	62.7	2.469	62	2.441	0.7	.028	5	.197	4
					2	Int.	MVS0470X02S060PL	●	24.7	.972	27.7	1.091	62.7	2.469	62	2.441	0.7	.028	6	.236	4
					3	Ext.	MVE0470X03S050	★	32.9	1.295	32.9	1.295	68.9	2.713	68	2.677	0.9	.035	5	.197	2
					3	Ext.	MVE0470X03S060	★	32.9	1.295	35.9	1.413	68.9	2.713	68	2.677	0.9	.035	6	.236	2
					3	Int.	MVS0470X03S050	★	28.4	1.118	28.4	1.118	90.9	3.579	90	3.543	0.9	.035	5	.197	6
					3	Int.	MVS0470X03S060	●	28.4	1.118	31.4	1.236	90.9	3.579	90	3.543	0.9	.035	6	.236	6
					5	Int.	MVS0470X05S050	★	44.9	1.768	44.9	1.768	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					5	Int.	MVS0470X05S060	●	44.9	1.768	47.9	1.886	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					8	Int.	MVS0470X08S050	★	57.9	2.280	57.9	2.280	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					8	Int.	MVS0470X08S060	●	57.9	2.280	60.9	2.398	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					10	Int.	MVS0470X10S050	★	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	5	.197	8
4.700	.1850		13		10	Int.	MVS0470X10S060	●	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	6	.236	8
					15	Int.	MVS0470X15S050	★	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	5	.197	8
					15	Int.	MVS0470X15S060	●	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	6	.236	8
					20	Int.	MVS0470X20S050	★	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	5	.197	8
					20	Int.	MVS0470X20S060	●	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	6	.236	8
					25	Int.	MVS0470X25S050	★	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	5	.197	8
					25	Int.	MVS0470X25S060	●	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	6	.236	8
					30	Int.	MVS0470X30S050	★	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	5	.197	8
					30	Int.	MVS0470X30S060	●	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	6	.236	8
					35	Int.	MVS0470X35S050	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	5	.197	8
					35	Int.	MVS0470X35S060	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	6	.236	8
					40	Int.	MVS0470X40S050	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	5	.197	8
					40	Int.	MVS0470X40S060	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	6	.236	8

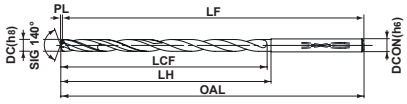
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan. □ : Non stock, produced to order only.

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
4.763	**.1875**	**3/16**			2	Ext.	**MVE0476X02S060**	●	24.9	.980	27.9	1.098	62.9	2.476	62	2.441	0.9	.035	6	.236	2
					2	Int.	**MVS0476X02S060PL**	●	24.8	.976	27.8	1.094	62.8	2.472	62	2.441	0.8	.031	6	.236	4
					3	Int.	**MVS0476X03S060**	●	28.4	1.118	31.4	1.236	90.9	3.579	90	3.543	0.9	.035	6	.236	6
					5	Int.	**MVS0476X05S060**	●	44.9	1.768	47.9	1.886	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					8	Int.	**MVS0476X08S060**	●	57.9	2.280	60.9	2.398	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					10	Int.	**MVS0476X10S060**	●	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	6	.236	8
					15	Int.	**MVS0476X15S060**	●	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	6	.236	8
					20	Int.	**MVS0476X20S060**	●	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	6	.236	8
					25	Int.	**MVS0476X25S060**	●	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	6	.236	8
					30	Int.	**MVS0476X30S060**	●	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	6	.236	8
					35	Int.	**MVS0476X35S060**	●	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	6	.236	8
					40	Int.	**MVS0476X40S060**	●	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	6	.236	8
4.800	**.1890**		**12**		2	Ext.	**MVE0480X02S050**	★	24.9	.980	24.9	.980	62.9	2.476	62	2.441	0.9	.035	5	.197	2
					2	Ext.	**MVE0480X02S060**	●	24.9	.980	27.9	1.098	62.9	2.476	62	2.441	0.9	.035	6	.236	2
					2	Int.	**MVS0480X02S050PL**	★	24.8	.976	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	4
					2	Int.	**MVS0480X02S060PL**	●	24.8	.976	27.8	1.094	62.8	2.472	62	2.441	0.8	.031	6	.236	4
					3	Ext.	**MVE0480X03S050**	★	32.9	1.295	32.9	1.295	68.9	2.713	68	2.677	0.9	.035	5	.197	2
					3	Ext.	**MVE0480X03S060**	★	32.9	1.295	35.9	1.413	68.9	2.713	68	2.677	0.9	.035	6	.236	2
					3	Int.	**MVS0480X03S050**	★	28.4	1.118	28.4	1.118	90.9	3.579	90	3.543	0.9	.035	5	.197	6
					3	Int.	**MVS0480X03S060**	●	28.4	1.118	31.4	1.236	90.9	3.579	90	3.543	0.9	.035	6	.236	6
					5	Int.	**MVS0480X05S050**	★	44.9	1.768	44.9	1.768	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					5	Int.	**MVS0480X05S060**	●	44.9	1.768	47.9	1.886	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					8	Int.	**MVS0480X08S050**	★	57.9	2.280	57.9	2.280	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					8	Int.	**MVS0480X08S060**	●	57.9	2.280	60.9	2.398	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					10	Int.	**MVS0480X10S050**	★	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	5	.197	8
					10	Int.	**MVS0480X10S060**	●	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	6	.236	8
					15	Int.	**MVS0480X15S050**	★	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	5	.197	8
					15	Int.	**MVS0480X15S060**	●	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	6	.236	8
					20	Int.	**MVS0480X20S050**	★	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	5	.197	8
					20	Int.	**MVS0480X20S060**	●	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	6	.236	8
					25	Int.	**MVS0480X25S050**	★	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	5	.197	8
					25	Int.	**MVS0480X25S060**	●	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	6	.236	8
					30	Int.	**MVS0480X30S050**	★	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	5	.197	8
					30	Int.	**MVS0480X30S060**	●	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	6	.236	8
					35	Int.	**MVS0480X35S050**	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	5	.197	8
					35	Int.	**MVS0480X35S060**	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	6	.236	8
					40	Int.	**MVS0480X40S050**	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	5	.197	8
					40	Int.	**MVS0480X40S060**	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	6	.236	8

Solid Carbide Drills

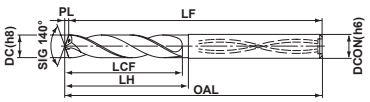
MVE/MVS

DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
4.900	.1929				2	Ext.	MVE0490X02S050	★	24.9	.980	24.9	.980	62.9	2.476	62	2.441	0.9	.035	5	.197	2
					2	Ext.	MVE0490X02S060	●	24.9	.980	27.9	1.098	62.9	2.476	62	2.441	0.9	.035	6	.236	2
					2	Int.	MVS0490X02S050PL	★	24.8	.976	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	4
					2	Int.	MVS0490X02S060PL	●	24.8	.976	27.8	1.094	62.8	2.472	62	2.441	0.8	.031	6	.236	4
					3	Ext.	MVE0490X03S050	★	32.9	1.295	32.9	1.295	68.9	2.713	68	2.677	0.9	.035	5	.197	2
					3	Ext.	MVE0490X03S060	★	32.9	1.295	35.9	1.413	68.9	2.713	68	2.677	0.9	.035	6	.236	2
					3	Int.	MVS0490X03S050	★	28.4	1.118	28.4	1.118	90.9	3.579	90	3.543	0.9	.035	5	.197	6
					3	Int.	MVS0490X03S060	●	28.4	1.118	31.4	1.236	90.9	3.579	90	3.543	0.9	.035	6	.236	6
					5	Int.	MVS0490X05S050	★	44.9	1.768	44.9	1.768	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					5	Int.	MVS0490X05S060	●	44.9	1.768	47.9	1.886	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					8	Int.	MVS0490X08S050	★	57.9	2.280	57.9	2.280	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					8	Int.	MVS0490X08S060	●	57.9	2.280	60.9	2.398	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					10	Int.	MVS0490X10S050	★	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	5	.197	8
					10	Int.	MVS0490X10S060	●	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	6	.236	8
					15	Int.	MVS0490X15S050	★	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	5	.197	8
					15	Int.	MVS0490X15S060	●	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	6	.236	8
					20	Int.	MVS0490X20S050	★	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	5	.197	8
					20	Int.	MVS0490X20S060	●	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	6	.236	8
					25	Int.	MVS0490X25S050	★	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	5	.197	8
					25	Int.	MVS0490X25S060	●	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	6	.236	8
					30	Int.	MVS0490X30S050	★	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	5	.197	8
					30	Int.	MVS0490X30S060	●	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	6	.236	8
					35	Int.	MVS0490X35S050	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	5	.197	8
					35	Int.	MVS0490X35S060	□	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	6	.236	8
					40	Int.	MVS0490X40S050	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	5	.197	8
					40	Int.	MVS0490X40S060	□	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	6	.236	8
5.000	.1969			M6x1.0	2	Ext.	MVE0500X02S050	★	24.9	.980	24.9	.980	62.9	2.476	62	2.441	0.9	.035	5	.197	2
					2	Ext.	MVE0500X02S060	●	24.9	.980	27.9	1.098	62.9	2.476	62	2.441	0.9	.035	6	.236	2
					2	Int.	MVS0500X02S050PL	★	24.8	.976	24.8	.976	62.8	2.472	62	2.441	0.8	.031	5	.197	4
					2	Int.	MVS0500X02S060PL	●	24.8	.976	24.8	.976	62.8	2.472	62	2.441	0.8	.031	6	.236	4
					3	Ext.	MVE0500X03S050	★	32.9	1.295	32.9	1.295	68.9	2.713	68	2.677	0.9	.035	5	.197	2
					3	Ext.	MVE0500X03S060	★	32.9	1.295	35.9	1.413	68.9	2.713	68	2.677	0.9	.035	6	.236	2
					3	Int.	MVS0500X03S050	★	28.4	1.118	28.4	1.118	90.9	3.579	90	3.543	0.9	.035	5	.197	6
					3	Int.	MVS0500X03S060	●	28.4	1.118	31.4	1.236	90.9	3.579	90	3.543	0.9	.035	6	.236	6
					5	Int.	MVS0500X05S050	★	44.9	1.768	44.9	1.768	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					5	Int.	MVS0500X05S060	●	44.9	1.768	47.9	1.886	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					8	Int.	MVS0500X08S050	★	57.9	2.280	57.9	2.280	105.9	4.169	105	4.134	0.9	.035	5	.197	6
					8	Int.	MVS0500X08S060	●	57.9	2.280	60.9	2.398	105.9	4.169	105	4.134	0.9	.035	6	.236	6
					10	Int.	MVS0500X10S050	★	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	5	.197	8
					10	Int.	MVS0500X10S060	●	65.9	2.594	68.9	2.713	118.9	4.681	118	4.646	0.9	.035	6	.236	8
					15	Int.	MVS0500X15S050	★	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	5	.197	8
					15	Int.	MVS0500X15S060	●	90.9	3.579	93.9	3.697	143.9	5.665	143	5.630	0.9	.035	6	.236	8
					20	Int.	MVS0500X20S050	★	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	5	.197	8
					20	Int.	MVS0500X20S060	●	115.9	4.563	118.9	4.681	168.9	6.650	168	6.614	0.9	.035	6	.236	8
					25	Int.	MVS0500X25S050	★	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	5	.197	8
					25	Int.	MVS0500X25S060	●	140.9	5.547	143.9	5.665	193.9	7.634	193	7.598	0.9	.035	6	.236	8
					30	Int.	MVS0500X30S050	★	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	5	.197	8
					30	Int.	MVS0500X30S060	●	165.9	6.531	168.9	6.650	218.9	8.618	218	8.583	0.9	.035	6	.236	8
					35	Int.	MVS0500X35S050	★	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	5	.197	8
					35	Int.	MVS0500X35S060	●	190.9	7.516	193.9	7.634	243.9	9.602	243	9.567	0.9	.035	6	.236	8
					40	Int.	MVS0500X40S050	★	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	5	.197	8
					40	Int.	MVS0500X40S060	●	215.9	8.500	218.9	8.618	268.9	10.587	268	10.551	0.9	.035	6	.236	8

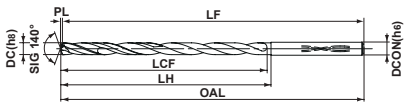
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
5.100	**.2008**		**7**	**1/4-20**	2	Ext.	**MVE0510X02S060**	●	26.9	1.059	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	2
					2	Int.	**MVS0510X02S060PL**	●	26.8	1.055	28.8	1.134	66.8	2.630	66	2.598	0.8	.031	6	.236	4
					3	Ext.	**MVE0510X03S060**	★	34.9	1.374	36.9	1.453	74.9	2.949	74	2.913	0.9	.035	6	.236	2
					3	Int.	**MVS0510X03S060**	●	28.4	1.118	30.9	1.217	82.9	3.264	82	3.228	0.9	.035	6	.236	6
					5	Int.	**MVS0510X05S060**	●	44.9	1.768	48.9	1.925	100.9	3.972	100	3.937	0.9	.035	6	.236	6
					8	Int.	**MVS0510X08S060**	●	61.9	2.437	66.9	2.634	118.9	4.681	118	4.646	0.9	.035	6	.236	6
					10	Int.	**MVS0510X10S060**	●	72.9	2.870	75.9	2.988	127.9	5.035	127	5.000	0.9	.035	6	.236	8
					15	Int.	**MVS0510X15S060**	●	99.9	3.933	102.9	4.051	154.9	6.098	154	6.063	0.9	.035	6	.236	8
					20	Int.	**MVS0510X20S060**	★	127.9	5.035	130.9	5.154	182.9	7.201	182	7.165	0.9	.035	6	.236	8
					25	Int.	**MVS0510X25S060**	★	154.9	6.098	157.9	6.217	209.9	8.264	209	8.228	0.9	.035	6	.236	8
					30	Int.	**MVS0510X30S060**	★	182.9	7.201	185.9	7.319	237.9	9.366	237	9.331	0.9	.035	6	.236	8
					35	Int.	**MVS0510X35S060**	□	209.9	8.264	212.9	8.382	264.9	10.429	264	10.394	0.9	.035	6	.236	8
					40	Int.	**MVS0510X40S060**	□	240.9	9.484	243.9	9.602	295.9	11.650	295	11.614	0.9	.035	6	.236	8
5.159	**.2031**	**13/64**			2	Ext.	**MVE0516X02S060**	●	26.9	1.059	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	2
					2	Int.	**MVS0516X02S060PL**	●	26.8	1.055	28.8	1.134	66.8	2.630	66	2.598	0.8	.031	6	.236	4
					3	Int.	**MVS0516X03S060**	●	28.4	1.118	30.9	1.217	82.9	3.264	82	3.228	0.9	.035	6	.236	6
					5	Int.	**MVS0516X05S060**	●	44.9	1.768	48.9	1.925	100.9	3.972	100	3.937	0.9	.035	6	.236	6
					8	Int.	**MVS0516X08S060**	●	61.9	2.437	66.9	2.634	118.9	4.681	118	4.646	0.9	.035	6	.236	6
					10	Int.	**MVS0516X10S060**	●	72.9	2.870	75.9	2.988	127.9	5.035	127	5.000	0.9	.035	6	.236	8
					15	Int.	**MVS0516X15S060**	●	99.9	3.933	102.9	4.051	154.9	6.098	154	6.063	0.9	.035	6	.236	8
					20	Int.	**MVS0516X20S060**	●	127.9	5.035	130.9	5.154	182.9	7.201	182	7.165	0.9	.035	6	.236	8
					25	Int.	**MVS0516X25S060**	●	154.9	6.098	157.9	6.217	209.9	8.264	209	8.228	0.9	.035	6	.236	8
					30	Int.	**MVS0516X30S060**	●	182.9	7.201	185.9	7.319	237.9	9.366	237	9.331	0.9	.035	6	.236	8
					35	Int.	**MVS0516X35S060**	●	209.9	8.264	212.9	8.382	264.9	10.429	264	10.394	0.9	.035	6	.236	8
					40	Int.	**MVS0516X40S060**	●	240.9	9.484	243.9	9.602	295.9	11.650	295	11.614	0.9	.035	6	.236	8
5.200	**.2047**				2	Ext.	**MVE0520X02S060**	●	26.9	1.059	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	2
					2	Int.	**MVS0520X02S060PL**	●	26.8	1.055	28.8	1.134	66.8	2.630	66	2.598	0.8	.031	6	.236	4
					3	Ext.	**MVE0520X03S060**	★	34.9	1.374	36.9	1.453	74.9	2.949	74	2.913	0.9	.035	6	.236	2
					3	Int.	**MVS0520X03S060**	●	28.4	1.118	30.9	1.217	82.9	3.264	82	3.228	0.9	.035	6	.236	6
					5	Int.	**MVS0520X05S060**	●	44.9	1.768	48.9	1.925	100.9	3.972	100	3.937	0.9	.035	6	.236	6
					8	Int.	**MVS0520X08S060**	●	61.9	2.437	66.9	2.634	118.9	4.681	118	4.646	0.9	.035	6	.236	6
					10	Int.	**MVS0520X10S060**	●	72.9	2.870	75.9	2.992	127.9	5.035	127	5.000	0.9	.035	6	.236	8
					15	Int.	**MVS0520X15S060**	●	99.9	3.933	102.9	4.051	154.9	6.098	154	6.063	0.9	.035	6	.236	8
					20	Int.	**MVS0520X20S060**	★	127.9	5.035	130.9	5.157	182.9	7.201	182	7.165	0.9	.035	6	.236	8
					25	Int.	**MVS0520X25S060**	★	154.9	6.098	157.9	6.217	209.9	8.264	209	8.228	0.9	.035	6	.236	8
					30	Int.	**MVS0520X30S060**	★	182.9	7.201	185.9	7.319	237.9	9.366	237	9.331	0.9	.035	6	.236	8
					35	Int.	**MVS0520X35S060**	□	209.9	8.264	212.9	8.386	264.9	10.429	264	10.394	0.9	.035	6	.236	8
					40	Int.	**MVS0520X40S060**	□	240.9	9.484	243.9	9.606	295.9	11.650	295	11.614	0.9	.035	6	.236	8
5.300	**.2087**		**4**		2	Ext.	**MVE0530X02S060**	●	27.0	1.063	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	**MVS0530X02S060PL**	●	26.8	1.055	28.8	1.134	66.8	2.630	66	2.598	0.8	.031	6	.236	4
					3	Ext.	**MVE0530X03S060**	★	35.0	1.378	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	6	.236	2
					3	Int.	**MVS0530X03S060**	●	28.5	1.122	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	**MVS0530X05S060**	●	45.0	1.772	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	**MVS0530X08S060**	●	62.0	2.441	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	**MVS0530X10S060**	●	73.0	2.874	76.0	2.992	128.0	5.039	127	5.000	1.0	.039	6	.236	8
					15	Int.	**MVS0530X15S060**	●	100.0	3.937	103.0	4.055	155.0	6.102	154	6.063	1.0	.039	6	.236	8
					20	Int.	**MVS0530X20S060**	★	128.0	5.039	131.0	5.157	183.0	7.205	182	7.165	1.0	.039	6	.236	8
					25	Int.	**MVS0530X25S060**	★	155.0	6.102	158.0	6.220	210.0	8.268	209	8.228	1.0	.039	6	.236	8
					30	Int.	**MVS0530X30S060**	★	183.0	7.205	186.0	7.323	238.0	9.370	237	9.331	1.0	.039	6	.236	8
					35	Int.	**MVS0530X35S060**	□	210.0	8.268	213.0	8.386	265.0	10.433	264	10.394	1.0	.039	6	.236	8
					40	Int.	**MVS0530X40S060**	□	241.0	9.488	244.0	9.606	296.0	11.654	295	11.614	1.0	.039	6	.236	8

Solid Carbide Drills

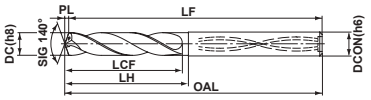
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
5.400	.2126				2	Ext.	MVE0540X02S060	●	27.0	1.063	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	MVS0540X02S060PL	●	26.9	1.059	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0540X03S060	★	35.0	1.378	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	6	.236	2
					3	Int.	MVS0540X03S060	●	28.5	1.122	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	MVS0540X05S060	●	45.0	1.772	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	MVS0540X08S060	●	62.0	2.441	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	MVS0540X10S060	★	73.0	2.874	76.0	2.992	128.0	5.039	127	5.000	1.0	.039	6	.236	8
					15	Int.	MVS0540X15S060	●	100.0	3.937	103.0	4.055	155.0	6.102	154	6.063	1.0	.039	6	.236	8
					20	Int.	MVS0540X20S060	★	128.0	5.039	131.0	5.157	183.0	7.205	182	7.165	1.0	.039	6	.236	8
					25	Int.	MVS0540X25S060	★	155.0	6.102	158.0	6.220	210.0	8.268	209	8.228	1.0	.039	6	.236	8
					30	Int.	MVS0540X30S060	★	183.0	7.205	186.0	7.323	238.0	9.370	237	9.331	1.0	.039	6	.236	8
					35	Int.	MVS0540X35S060	□	210.0	8.268	213.0	8.386	265.0	10.433	264	10.394	1.0	.039	6	.236	8
					40	Int.	MVS0540X40S060	□	241.0	9.488	244.0	9.606	296.0	11.654	295	11.614	1.0	.039	6	.236	8
5.500	.2165				2	Ext.	MVE0550X02S060	●	27.0	1.063	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	MVS0550X02S060PL	●	26.9	1.059	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0550X03S060	★	35.0	1.378	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	6	.236	2
					3	Int.	MVS0550X03S060	●	28.5	1.122	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	MVS0550X05S060	●	45.0	1.772	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	MVS0550X08S060	●	62.0	2.441	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	MVS0550X10S060	●	73.0	2.874	76.0	2.992	128.0	5.039	127	5.000	1.0	.039	6	.236	8
					15	Int.	MVS0550X15S060	★	100.0	3.937	103.0	4.055	155.0	6.102	154	6.063	1.0	.039	6	.236	8
					20	Int.	MVS0550X20S060	●	128.0	5.039	131.0	5.157	183.0	7.205	182	7.165	1.0	.039	6	.236	8
					25	Int.	MVS0550X25S060	●	155.0	6.102	158.0	6.220	210.0	8.268	209	8.228	1.0	.039	6	.236	8
					30	Int.	MVS0550X30S060	★	183.0	7.205	186.0	7.323	238.0	9.370	237	9.331	1.0	.039	6	.236	8
					35	Int.	MVS0550X35S060	●	210.0	8.268	213.0	8.386	265.0	10.433	264	10.394	1.0	.039	6	.236	8
					40	Int.	MVS0550X40S060	●	241.0	9.488	244.0	9.606	296.0	11.654	295	11.614	1.0	.039	6	.236	8
5.558	.2188	7/32			2	Ext.	MVE0556X02S060	●	29.0	1.142	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	MVS0556X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Int.	MVS0556X03S060	●	31.0	1.220	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	MVS0556X05S060	●	49.0	1.929	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	MVS0556X08S060	●	67.0	2.638	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	MVS0556X10S060	●	79.0	3.110	82.0	3.228	134.0	5.276	133	5.236	1.0	.039	6	.236	8
					15	Int.	MVS0556X15S060	●	109.0	4.291	112.0	4.409	164.0	6.457	163	6.417	1.0	.039	6	.236	8
					20	Int.	MVS0556X20S060	●	139.0	5.472	142.0	5.591	194.0	7.638	193	7.598	1.0	.039	6	.236	8
					25	Int.	MVS0556X25S060	●	169.0	6.654	172.0	6.772	224.0	8.819	223	8.780	1.0	.039	6	.236	8
					30	Int.	MVS0556X30S060	●	199.0	7.835	202.0	7.953	254.0	10.000	253	9.961	1.0	.039	6	.236	8
					35	Int.	MVS0556X35S060	●	229.0	9.016	232.0	9.134	284.0	11.181	283	11.142	1.0	.039	6	.236	8
					40	Int.	MVS0556X40S060	●	261.0	10.276	264.0	10.394	316.0	12.441	315	12.402	1.0	.039	6	.236	8
5.600	.2205		2		2	Ext.	MVE0560X02S060	●	29.0	1.142	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	MVS0560X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0560X03S060	★	37.0	1.457	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	6	.236	2
					3	Int.	MVS0560X03S060	●	31.0	1.220	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	MVS0560X05S060	●	49.0	1.929	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	MVS0560X08S060	●	67.0	2.638	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	MVS0560X10S060	★	79.0	3.110	82.0	3.228	134.0	5.276	133	5.236	1.0	.039	6	.236	8
					15	Int.	MVS0560X15S060	★	109.0	4.291	112.0	4.409	164.0	6.457	163	6.417	1.0	.039	6	.236	8
					20	Int.	MVS0560X20S060	★	139.0	5.472	142.0	5.591	194.0	7.638	193	7.598	1.0	.039	6	.236	8
					25	Int.	MVS0560X25S060	★	169.0	6.654	172.0	6.772	224.0	8.819	223	8.780	1.0	.039	6	.236	8
					30	Int.	MVS0560X30S060	★	199.0	7.835	202.0	7.953	254.0	10.000	253	9.961	1.0	.039	6	.236	8
					35	Int.	MVS0560X35S060	□	229.0	9.016	232.0	9.134	284.0	11.181	283	11.142	1.0	.039	6	.236	8
					40	Int.	MVS0560X40S060	□	261.0	10.276	264.0	10.394	316.0	12.441	315	12.402	1.0	.039	6	.236	8

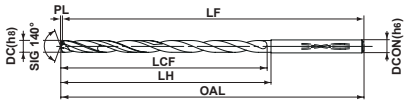
(Note 1) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).
(Note 2) The coolant hole of ø5.9mm or less will be round shape.

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
5.700	.2244				2	Ext.	MVE0570X02S060	●	29.0	1.142	29.0	1.142	67.0	2.638	66	2.598	1.0	.039	6	.236	2
					2	Int.	MVS0570X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0570X03S060	★	37.0	1.457	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	6	.236	2
					3	Int.	MVS0570X03S060	●	31.0	1.220	31.0	1.220	83.0	3.268	82	3.228	1.0	.039	6	.236	6
					5	Int.	MVS0570X05S060	●	49.0	1.929	49.0	1.929	101.0	3.976	100	3.937	1.0	.039	6	.236	6
					8	Int.	MVS0570X08S060	●	67.0	2.638	67.0	2.638	119.0	4.685	118	4.646	1.0	.039	6	.236	6
					10	Int.	MVS0570X10S060	●	79.0	3.110	82.0	3.228	134.0	5.276	133	5.236	1.0	.039	6	.236	8
					15	Int.	MVS0570X15S060	●	109.0	4.291	112.0	4.409	164.0	6.457	163	6.417	1.0	.039	6	.236	8
					20	Int.	MVS0570X20S060	●	139.0	5.472	142.0	5.591	194.0	7.638	193	7.598	1.0	.039	6	.236	8
					25	Int.	MVS0570X25S060	★	169.0	6.654	172.0	6.772	224.0	8.819	223	8.780	1.0	.039	6	.236	8
					30	Int.	MVS0570X30S060	★	199.0	7.835	202.0	7.953	254.0	10.000	253	9.961	1.0	.039	6	.236	8
					35	Int.	MVS0570X35S060	□	229.0	9.016	232.0	9.134	284.0	11.181	283	11.142	1.0	.039	6	.236	8
					40	Int.	MVS0570X40S060	□	261.0	10.276	264.0	10.394	316.0	12.441	315	12.402	1.0	.039	6	.236	8
5.800	.2283		1		2	Ext.	MVE0580X02S060	●	29.1	1.146	29.1	1.146	67.1	2.642	66	2.598	1.1	.043	6	.236	2
					2	Int.	MVS0580X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0580X03S060	★	37.1	1.461	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	6	.236	2
					3	Int.	MVS0580X03S060	●	31.1	1.224	31.1	1.224	83.1	3.272	82	3.228	1.1	.043	6	.236	6
					5	Int.	MVS0580X05S060	●	49.1	1.933	49.1	1.933	101.1	3.980	100	3.937	1.1	.043	6	.236	6
					8	Int.	MVS0580X08S060	●	67.1	2.642	67.1	2.642	119.1	4.689	118	4.646	1.1	.043	6	.236	6
					10	Int.	MVS0580X10S060	●	79.1	3.114	82.1	3.232	134.1	5.280	133	5.236	1.1	.043	6	.236	8
					15	Int.	MVS0580X15S060	★	109.1	4.295	112.1	4.413	164.1	6.461	163	6.417	1.1	.043	6	.236	8
					20	Int.	MVS0580X20S060	●	139.1	5.476	142.1	5.594	194.1	7.642	193	7.598	1.1	.043	6	.236	8
					25	Int.	MVS0580X25S060	★	169.1	6.657	172.1	6.776	224.1	8.823	223	8.780	1.1	.043	6	.236	8
					30	Int.	MVS0580X30S060	★	199.1	7.839	202.1	7.957	254.1	10.004	253	9.961	1.1	.043	6	.236	8
					35	Int.	MVS0580X35S060	□	229.1	9.020	232.1	9.138	284.1	11.185	283	11.142	1.1	.043	6	.236	8
					40	Int.	MVS0580X40S060	□	261.1	10.280	264.1	10.398	316.1	12.445	315	12.402	1.1	.043	6	.236	8
5.900	.2323				2	Ext.	MVE0590X02S060	●	29.1	1.146	29.1	1.146	67.1	2.642	66	2.598	1.1	.043	6	.236	2
					2	Int.	MVS0590X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	MVE0590X03S060	★	37.1	1.461	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	6	.236	2
					3	Int.	MVS0590X03S060	●	31.1	1.224	31.1	1.224	83.1	3.272	82	3.228	1.1	.043	6	.236	6
					5	Int.	MVS0590X05S060	●	49.1	1.933	49.1	1.933	101.1	3.980	100	3.937	1.1	.043	6	.236	6
					8	Int.	MVS0590X08S060	●	67.1	2.642	67.1	2.642	119.1	4.689	118	4.646	1.1	.043	6	.236	6
					10	Int.	MVS0590X10S060	★	79.1	3.114	82.1	3.232	134.1	5.280	133	5.236	1.1	.043	6	.236	8
					15	Int.	MVS0590X15S060	★	109.1	4.295	112.1	4.413	164.1	6.461	163	6.417	1.1	.043	6	.236	8
					20	Int.	MVS0590X20S060	★	139.1	5.476	142.1	5.594	194.1	7.642	193	7.598	1.1	.043	6	.236	8
					25	Int.	MVS0590X25S060	★	169.1	6.657	172.1	6.776	224.1	8.823	223	8.780	1.1	.043	6	.236	8
					30	Int.	MVS0590X30S060	★	199.1	7.839	202.1	7.957	254.1	10.004	253	9.961	1.1	.043	6	.236	8
					35	Int.	MVS0590X35S060	□	229.1	9.020	232.1	9.138	284.1	11.185	283	11.142	1.1	.043	6	.236	8
					40	Int.	MVS0590X40S060	□	261.1	10.280	264.1	10.398	316.1	12.445	315	12.402	1.1	.043	6	.236	8
5.954	.2344	15/64	A		2	Ext.	MVE0595X02S060	●	29.1	1.146	29.1	1.146	67.1	2.642	66	2.598	1.1	.043	6	.236	2
					2	Int.	MVS0595X02S060PL	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Int.	MVS0595X03S060	●	31.1	1.224	31.1	1.224	83.1	3.272	82	3.228	1.1	.043	6	.236	6
					5	Int.	MVS0595X05S060	●	49.1	1.933	49.1	1.933	101.1	3.980	100	3.937	1.1	.043	6	.236	6
					8	Int.	MVS0595X08S060	●	67.1	2.642	67.1	2.642	119.1	4.689	118	4.646	1.1	.043	6	.236	6
					10	Int.	MVS0595X10S060	●	79.1	3.114	82.1	3.232	134.1	5.280	133	5.236	1.1	.043	6	.236	8
					15	Int.	MVS0595X15S060	●	109.1	4.295	112.1	4.413	164.1	6.461	163	6.417	1.1	.043	6	.236	8
					20	Int.	MVS0595X20S060	●	139.1	5.476	142.1	5.594	194.1	7.642	193	7.598	1.1	.043	6	.236	8
					25	Int.	MVS0595X25S060	●	169.1	6.657	172.1	6.776	224.1	8.823	223	8.780	1.1	.043	6	.236	8
					30	Int.	MVS0595X30S060	●	199.1	7.839	202.1	7.957	254.1	10.004	253	9.961	1.1	.043	6	.236	8
					35	Int.	MVS0595X35S060	●	229.1	9.020	232.1	9.138	284.1	11.185	283	11.142	1.1	.043	6	.236	8
					40	Int.	MVS0595X40S060	●	261.1	10.280	264.1	10.398	316.1	12.445	315	12.402	1.1	.043	6	.236	8

Solid Carbide Drills

MVE/MVS

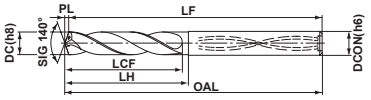
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	**MVE0600X02S060**	●	29.1	1.146	29.1	1.146	67.1	2.642	66	2.598	1.1	.043	6	.236	2
					2	Int.	**MVS0600X02S060PL**	●	28.9	1.138	28.9	1.138	66.9	2.634	66	2.598	0.9	.035	6	.236	4
					3	Ext.	**MVE0600X03S060**	★	37.1	1.461	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	6	.236	2
					3	Int.	**MVS0600X03S060**	●	31.1	1.224	31.1	1.224	83.1	3.272	82	3.228	1.1	.043	6	.236	6
					5	Int.	**MVS0600X05S060**	●	49.1	1.933	49.1	1.933	101.1	3.980	100	3.937	1.1	.043	6	.236	6
					8	Int.	**MVS0600X08S060**	●	67.1	2.642	67.1	2.642	119.1	4.689	118	4.646	1.1	.043	6	.236	6
6.000	**.2362**			**M7x1.0**	10	Int.	**MVS0600X10S060**	●	79.1	3.114	82.1	3.232	134.1	5.280	133	5.236	1.1	.043	6	.236	8
					15	Int.	**MVS0600X15S060**	●	109.1	4.295	112.1	4.413	164.1	6.461	163	6.417	1.1	.043	6	.236	8
					20	Int.	**MVS0600X20S060**	●	139.1	5.476	142.1	5.594	194.1	7.642	193	7.598	1.1	.043	6	.236	8
					25	Int.	**MVS0600X25S060**	●	169.1	6.657	172.1	6.776	224.1	8.823	223	8.780	1.1	.043	6	.236	8
					30	Int.	**MVS0600X30S060**	●	199.1	7.839	202.1	7.957	254.1	10.004	253	9.961	1.1	.043	6	.236	8
					35	Int.	**MVS0600X35S060**	●	229.1	9.020	232.1	9.138	284.1	11.185	283	11.142	1.1	.043	6	.236	8
					40	Int.	**MVS0600X40S060**	●	261.1	10.280	264.1	10.398	316.1	12.445	315	12.402	1.1	.043	6	.236	8
					2	Ext.	**MVE0610X02S070**	★	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	2
					2	Ext.	**MVE0610X02S080**	●	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	8	.315	2
					2	Int.	**MVS0610X02S070PL**	★	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	**MVS0610X02S080PL**	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	**MVE0610X03S070**	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	7	.276	2
					3	Ext.	**MVE0610X03S080**	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	8	.315	2
					3	Int.	**MVS0610X03S070**	★	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	7	.276	6
					3	Int.	**MVS0610X03S080**	●	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	8	.315	6
					5	Int.	**MVS0610X05S070**	★	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	7	.276	6
					5	Int.	**MVS0610X05S080**	●	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	8	.315	6
					8	Int.	**MVS0610X08S070**	★	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	7	.276	6
					8	Int.	**MVS0610X08S080**	●	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	8	.315	6
					10	Int.	**MVS0610X10S070**	★	86.1	3.390	89.1	3.508	142.1	5.594	141	5.551	1.1	.043	7	.276	8
6.100	**.2402**				10	Int.	**MVS0610X10S080**	●	86.1	3.390	89.1	3.508	142.1	5.594	141	5.551	1.1	.043	8	.315	8
					15	Int.	**MVS0610X15S070**	★	118.1	4.650	121.1	4.768	174.1	6.854	173	6.811	1.1	.043	7	.276	8
					15	Int.	**MVS0610X15S080**	●	118.1	4.650	121.1	4.768	174.1	6.854	173	6.811	1.1	.043	8	.315	8
					20	Int.	**MVS0610X20S070**	★	151.1	5.949	154.1	6.067	207.1	8.154	206	8.110	1.1	.043	7	.276	8
					20	Int.	**MVS0610X20S080**	●	151.1	5.949	154.1	6.067	207.1	8.154	206	8.110	1.1	.043	8	.315	8
					25	Int.	**MVS0610X25S070**	★	183.1	7.209	186.1	7.327	239.1	9.413	238	9.370	1.1	.043	7	.276	8
					25	Int.	**MVS0610X25S080**	●	183.1	7.209	186.1	7.327	239.1	9.413	238	9.370	1.1	.043	8	.315	8
					30	Int.	**MVS0610X30S070**	★	216.1	8.508	219.1	8.626	272.1	10.713	271	10.669	1.1	.043	7	.276	8
					30	Int.	**MVS0610X30S080**	●	216.1	8.508	219.1	8.626	272.1	10.713	271	10.669	1.1	.043	8	.315	8
					35	Int.	**MVS0610X35S070**	□	248.1	9.768	253.1	9.965	306.1	12.051	305	12.008	1.1	.043	7	.276	8
					35	Int.	**MVS0610X35S080**	□	248.1	9.768	253.1	9.965	306.1	12.051	305	12.008	1.1	.043	8	.315	8
					40	Int.	**MVS0610X40S070**	□	281.1	11.067	284.1	11.185	337.1	13.272	336	13.228	1.1	.043	7	.276	8
					40	Int.	**MVS0610X40S080**	□	281.1	11.067	284.1	11.185	337.1	13.272	336	13.228	1.1	.043	8	.315	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

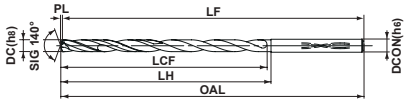
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.200	.2441				2	Ext.	MVE0620X02S070	★	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	2
					2	Ext.	MVE0620X02S080	●	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	8	.315	2
					2	Int.	MVS0620X02S070PL	★	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	MVS0620X02S080PL	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	MVE0620X03S070	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	7	.276	2
					3	Ext.	MVE0620X03S080	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	8	.315	2
					3	Int.	MVS0620X03S070	★	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	7	.276	6
					3	Int.	MVS0620X03S080	●	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	8	.315	6
					5	Int.	MVS0620X05S070	★	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	7	.276	6
					5	Int.	MVS0620X05S080	●	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	8	.315	6
					8	Int.	MVS0620X08S070	★	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	7	.276	6
					8	Int.	MVS0620X08S080	●	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	8	.315	6
					10	Int.	MVS0620X10S070	★	86.1	3.390	89.1	3.508	142.1	5.594	141	5.551	1.1	.043	7	.276	8
					10	Int.	MVS0620X10S080	●	86.1	3.390	89.1	3.508	142.1	5.594	141	5.551	1.1	.043	8	.315	8
					15	Int.	MVS0620X15S070	★	118.1	4.650	121.1	4.768	174.1	6.854	173	6.811	1.1	.043	7	.276	8
					15	Int.	MVS0620X15S080	●	118.1	4.650	121.1	4.768	174.1	6.854	173	6.811	1.1	.043	8	.315	8
					20	Int.	MVS0620X20S070	★	151.1	5.949	154.1	6.067	207.1	8.154	206	8.110	1.1	.043	7	.276	8
					20	Int.	MVS0620X20S080	●	151.1	5.949	154.1	6.067	207.1	8.154	206	8.110	1.1	.043	8	.315	8
					25	Int.	MVS0620X25S070	★	183.1	7.209	186.1	7.327	239.1	9.413	238	9.370	1.1	.043	7	.276	8
					25	Int.	MVS0620X25S080	●	183.1	7.209	186.1	7.327	239.1	9.413	238	9.370	1.1	.043	8	.315	8
					30	Int.	MVS0620X30S070	★	216.1	8.508	219.1	8.626	272.1	10.713	271	10.669	1.1	.043	7	.276	8
					30	Int.	MVS0620X30S080	●	216.1	8.508	219.1	8.626	272.1	10.713	271	10.669	1.1	.043	8	.315	8
					35	Int.	MVS0620X35S070	□	248.1	9.768	253.1	9.965	306.1	12.051	305	12.008	1.1	.043	7	.276	8
					35	Int.	MVS0620X35S080	□	248.1	9.768	253.1	9.965	306.1	12.051	305	12.008	1.1	.043	8	.315	8
					40	Int.	MVS0620X40S070	□	281.1	11.067	284.1	11.185	337.1	13.272	336	13.228	1.1	.043	7	.276	8
					40	Int.	MVS0620X40S080	□	281.1	11.067	284.1	11.185	337.1	13.272	336	13.228	1.1	.043	8	.315	8
6.300	.2480				2	Ext.	MVE0630X02S070	★	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	2
					2	Ext.	MVE0630X02S080	●	32.1	1.264	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	8	.315	2
					2	Int.	MVS0630X02S070PL	★	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	MVS0630X02S080PL	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	MVE0630X03S070	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	7	.276	2
					3	Ext.	MVE0630X03S080	★	42.1	1.657	45.1	1.776	84.1	3.311	83	3.268	1.1	.043	8	.315	2
					3	Int.	MVS0630X03S070	★	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	7	.276	6
					3	Int.	MVS0630X03S080	●	33.6	1.323	36.1	1.421	89.1	3.508	88	3.465	1.1	.043	8	.315	6
					5	Int.	MVS0630X05S070	★	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	7	.276	6
					5	Int.	MVS0630X05S080	●	53.1	2.091	57.1	2.248	110.1	4.335	109	4.291	1.1	.043	8	.315	6
					8	Int.	MVS0630X08S070	★	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	7	.276	6
					8	Int.	MVS0630X08S080	●	73.1	2.878	78.1	3.075	131.1	5.161	130	5.118	1.1	.043	8	.315	6
					10	Int.	MVS0630X10S070	★	86.1	3.390	89.1	3.512	142.1	5.594	141	5.551	1.1	.043	7	.276	8
					10	Int.	MVS0630X10S080	●	86.1	3.390	89.1	3.508	142.1	5.594	141	5.551	1.1	.043	8	.315	8
					15	Int.	MVS0630X15S070	★	118.1	4.650	121.1	4.772	174.1	6.854	173	6.811	1.1	.043	7	.276	8
					15	Int.	MVS0630X15S080	●	118.1	4.650	121.1	4.768	174.1	6.854	173	6.811	1.1	.043	8	.315	8
					20	Int.	MVS0630X20S070	★	151.1	5.949	154.1	6.071	207.1	8.154	206	8.110	1.1	.043	7	.276	8
					20	Int.	MVS0630X20S080	●	151.1	5.949	154.1	6.067	207.1	8.154	206	8.110	1.1	.043	8	.315	8
					25	Int.	MVS0630X25S070	★	183.1	7.209	186.1	7.331	239.1	9.413	238	9.370	1.1	.043	7	.276	8
					25	Int.	MVS0630X25S080	●	183.1	7.209	186.1	7.327	239.1	9.413	238	9.370	1.1	.043	8	.315	8
					30	Int.	MVS0630X30S070	★	216.1	8.508	219.1	8.630	272.1	10.713	271	10.669	1.1	.043	7	.276	8
					30	Int.	MVS0630X30S080	●	216.1	8.508	219.1	8.626	272.1	10.713	271	10.669	1.1	.043	8	.315	8
					35	Int.	MVS0630X35S070	□	248.1	9.768	253.1	9.969	306.1	12.051	305	12.008	1.1	.043	7	.276	8
					35	Int.	MVS0630X35S080	□	248.1	9.768	253.1	9.969	306.1	12.051	305	12.008	1.1	.043	8	.315	8
					40	Int.	MVS0630X40S070	□	281.1	11.067	284.1	11.189	337.1	13.272	336	13.228	1.1	.043	7	.276	8
					40	Int.	MVS0630X40S080	□	281.1	11.067	284.1	11.189	337.1	13.272	336	13.228	1.1	.043	8	.315	8

Solid Carbide Drills

MVE/MVS

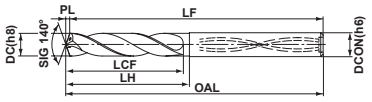
DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.350	.2500	1/4	E		2	Ext.	MVE0635X02S080	●	32.2	1.268	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0635X02S080PL	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Int.	MVS0635X03S080	●	33.7	1.327	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0635X05S080	●	53.2	2.094	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0635X08S080	●	73.2	2.882	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0635X10S080	●	86.2	3.394	89.2	3.512	142.2	5.598	141	5.551	1.2	.047	8	.315	8
					15	Int.	MVS0635X15S080	●	118.2	4.654	121.2	4.772	174.2	6.858	173	6.811	1.2	.047	8	.315	8
					20	Int.	MVS0635X20S080	●	151.2	5.953	154.2	6.071	207.2	8.157	206	8.110	1.2	.047	8	.315	8
					25	Int.	MVS0635X25S080	●	183.2	7.213	186.2	7.331	239.2	9.417	238	9.370	1.2	.047	8	.315	8
					30	Int.	MVS0635X30S080	●	216.2	8.512	219.2	8.630	272.2	10.717	271	10.669	1.2	.047	8	.315	8
					35	Int.	MVS0635X35S080	●	248.2	9.772	253.2	9.969	306.2	12.055	305	12.008	1.2	.047	8	.315	8
					40	Int.	MVS0635X40S080	●	281.2	11.071	284.2	11.189	337.2	13.276	336	13.228	1.2	.047	8	.315	8
6.400	.2520				2	Ext.	MVE0640X02S070	★	32.2	1.268	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	7	.276	2
					2	Ext.	MVE0640X02S080	●	32.2	1.268	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0640X02S070PL	★	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	MVS0640X02S080PL	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	MVE0640X03S070	★	42.2	1.661	45.2	1.780	84.2	3.315	83	3.268	1.2	.047	7	.276	2
					3	Ext.	MVE0640X03S080	★	42.2	1.661	45.2	1.780	84.2	3.315	83	3.268	1.2	.047	8	.315	2
					3	Int.	MVS0640X03S070	★	33.7	1.327	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	7	.276	6
					3	Int.	MVS0640X03S080	●	33.7	1.327	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0640X05S070	★	53.2	2.094	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	7	.276	6
					5	Int.	MVS0640X05S080	●	53.2	2.094	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0640X08S070	★	73.2	2.882	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	7	.276	6
					8	Int.	MVS0640X08S080	●	73.2	2.882	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0640X10S070	★	86.2	3.394	89.2	3.512	142.2	5.598	141	5.551	1.2	.047	7	.276	8
					10	Int.	MVS0640X10S080	●	86.2	3.394	89.2	3.512	142.2	5.598	141	5.551	1.2	.047	8	.315	8
					15	Int.	MVS0640X15S070	★	118.2	4.654	121.2	4.772	174.2	6.858	173	6.811	1.2	.047	7	.276	8
					15	Int.	MVS0640X15S080	●	118.2	4.654	121.2	4.772	174.2	6.858	173	6.811	1.2	.047	8	.315	8
					20	Int.	MVS0640X20S070	★	151.2	5.953	154.2	6.071	207.2	8.157	206	8.110	1.2	.047	7	.276	8
					20	Int.	MVS0640X20S080	●	151.2	5.953	154.2	6.071	207.2	8.157	206	8.110	1.2	.047	8	.315	8
					25	Int.	MVS0640X25S070	★	183.2	7.213	186.2	7.331	239.2	9.417	238	9.370	1.2	.047	7	.276	8
					25	Int.	MVS0640X25S080	●	183.2	7.213	186.2	7.331	239.2	9.417	238	9.370	1.2	.047	8	.315	8
					30	Int.	MVS0640X30S070	★	216.2	8.512	219.2	8.630	272.2	10.717	271	10.669	1.2	.047	7	.276	8
					30	Int.	MVS0640X30S080	●	216.2	8.512	219.2	8.630	272.2	10.717	271	10.669	1.2	.047	8	.315	8
					35	Int.	MVS0640X35S070	□	248.2	9.772	253.2	9.969	306.2	12.055	305	12.008	1.2	.047	7	.276	8
					35	Int.	MVS0640X35S080	□	248.2	9.772	253.2	9.969	306.2	12.055	305	12.008	1.2	.047	8	.315	8
					40	Int.	MVS0640X40S070	□	281.2	11.071	284.2	11.189	337.2	13.276	336	13.228	1.2	.047	7	.276	8
					40	Int.	MVS0640X40S080	□	281.2	11.071	284.2	11.189	337.2	13.276	336	13.228	1.2	.047	8	.315	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

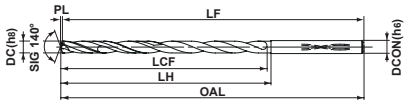
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.500	.2559				2	Ext.	MVE0650X02S070	★	32.2	1.268	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	7	.276	2
					2	Ext.	MVE0650X02S080	●	32.2	1.268	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0650X02S070PL	★	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	MVS0650X02S080PL	●	32.0	1.260	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	MVE0650X03S070	★	42.2	1.661	45.2	1.780	84.2	3.315	83	3.268	1.2	.047	7	.276	2
					3	Ext.	MVE0650X03S080	★	42.2	1.661	45.2	1.780	84.2	3.315	83	3.268	1.2	.047	8	.315	2
					3	Int.	MVS0650X03S070	★	33.7	1.327	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	7	.276	6
					3	Int.	MVS0650X03S080	●	33.7	1.327	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0650X05S070	★	53.2	2.094	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	7	.276	6
					5	Int.	MVS0650X05S080	●	53.2	2.094	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0650X08S070	★	73.2	2.882	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	7	.276	6
					8	Int.	MVS0650X08S080	●	73.2	2.882	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0650X10S070	★	86.2	3.394	89.2	3.512	142.2	5.598	141	5.551	1.2	.047	7	.276	8
					10	Int.	MVS0650X10S080	●	86.2	3.394	89.2	3.512	142.2	5.598	141	5.551	1.2	.047	8	.315	8
					15	Int.	MVS0650X15S070	★	118.2	4.654	121.2	4.772	174.2	6.858	173	6.811	1.2	.047	7	.276	8
					15	Int.	MVS0650X15S080	●	118.2	4.654	121.2	4.772	174.2	6.858	173	6.811	1.2	.047	8	.315	8
					20	Int.	MVS0650X20S070	★	151.2	5.953	154.2	6.071	207.2	8.157	206	8.110	1.2	.047	7	.276	8
					20	Int.	MVS0650X20S080	●	151.2	5.953	154.2	6.071	207.2	8.157	206	8.110	1.2	.047	8	.315	8
					25	Int.	MVS0650X25S070	★	183.2	7.213	186.2	7.331	239.2	9.417	238	9.370	1.2	.047	7	.276	8
					25	Int.	MVS0650X25S080	●	183.2	7.213	186.2	7.331	239.2	9.417	238	9.370	1.2	.047	8	.315	8
					30	Int.	MVS0650X30S070	★	216.2	8.512	219.2	8.630	272.2	10.717	271	10.669	1.2	.047	7	.276	8
					30	Int.	MVS0650X30S080	●	216.2	8.512	219.2	8.630	272.2	10.717	271	10.669	1.2	.047	8	.315	8
					35	Int.	MVS0650X35S070	★	248.2	9.772	253.2	9.969	306.2	12.055	305	12.008	1.2	.047	7	.276	8
					35	Int.	MVS0650X35S080	●	248.2	9.772	253.2	9.969	306.2	12.055	305	12.008	1.2	.047	8	.315	8
					40	Int.	MVS0650X40S070	★	281.2	11.071	284.2	11.189	337.2	13.276	336	13.228	1.2	.047	7	.276	8
					40	Int.	MVS0650X40S080	●	281.2	11.071	284.2	11.189	337.2	13.276	336	13.228	1.2	.047	8	.315	8
6.528	.2570		F	5/16-18	2	Ext.	MVE0653X02S080	●	35.2	1.386	37.2	1.465	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0653X02S080PL	●	35.0	1.378	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Int.	MVS0653X03S080	●	36.2	1.425	38.2	1.504	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0653X05S080	●	57.2	2.252	59.2	2.331	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0653X08S080	●	78.2	3.079	80.2	3.157	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0653X10S080	●	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	8	.315	8
					15	Int.	MVS0653X15S080	●	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	8	.315	8
					20	Int.	MVS0653X20S080	●	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	8	.315	8
					25	Int.	MVS0653X25S080	●	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	8	.315	8
					30	Int.	MVS0653X30S080	●	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	8	.315	8
					35	Int.	MVS0653X35S080	●	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	8	.315	8
					40	Int.	MVS0653X40S080	●	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	8	.315	8

Solid Carbide Drills

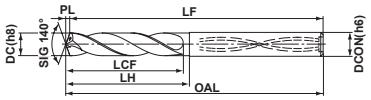
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.600	.2598				2	Ext.	MVE0660X02S070	★	35.2	1.386	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	7	.276	2
					2	Ext.	MVE0660X02S080	●	35.2	1.386	37.2	1.465	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0660X02S070PL	★	35.0	1.378	35.0	1.378	75.0	2.953	74	2.913	1.0	.039	7	.276	4
					2	Int.	MVS0660X02S080PL	●	35.0	1.378	37.0	1.457	75.0	2.953	74	2.913	1.0	.039	8	.315	4
					3	Ext.	MVE0660X03S070	★	44.2	1.740	44.2	1.740	84.2	3.315	83	3.268	1.2	.047	7	.276	2
					3	Ext.	MVE0660X03S080	★	44.2	1.740	46.2	1.819	84.2	3.315	83	3.268	1.2	.047	8	.315	2
					3	Int.	MVS0660X03S070	★	36.2	1.425	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	7	.276	6
					3	Int.	MVS0660X03S080	●	36.2	1.425	38.2	1.504	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0660X05S070	★	57.2	2.252	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	7	.276	6
					5	Int.	MVS0660X05S080	●	57.2	2.252	59.2	2.331	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0660X08S070	★	78.2	3.079	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	7	.276	6
					8	Int.	MVS0660X08S080	●	78.2	3.079	80.2	3.157	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0660X10S070	★	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	7	.276	8
					10	Int.	MVS0660X10S080	●	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	8	.315	8
					15	Int.	MVS0660X15S070	★	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	7	.276	8
					15	Int.	MVS0660X15S080	●	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	8	.315	8
					20	Int.	MVS0660X20S070	★	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	7	.276	8
					20	Int.	MVS0660X20S080	●	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	8	.315	8
					25	Int.	MVS0660X25S070	★	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	7	.276	8
					25	Int.	MVS0660X25S080	●	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	8	.315	8
					30	Int.	MVS0660X30S070	★	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	7	.276	8
					30	Int.	MVS0660X30S080	●	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	8	.315	8
					35	Int.	MVS0660X35S070	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	7	.276	8
					35	Int.	MVS0660X35S080	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	8	.315	8
					40	Int.	MVS0660X40S070	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	7	.276	8
					40	Int.	MVS0660X40S080	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	8	.315	8
6.700	.2638			M8x1.25	2	Ext.	MVE0670X02S070	★	35.2	1.386	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	7	.276	2
					2	Ext.	MVE0670X02S080	●	35.2	1.386	37.2	1.465	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0670X02S070PL	★	35.1	1.382	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	4
					2	Int.	MVS0670X02S080PL	●	35.1	1.382	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	8	.315	4
					3	Ext.	MVE0670X03S070	★	44.2	1.740	44.2	1.740	84.2	3.315	83	3.268	1.2	.047	7	.276	2
					3	Ext.	MVE0670X03S080	★	44.2	1.740	46.2	1.819	84.2	3.315	83	3.268	1.2	.047	8	.315	2
					3	Int.	MVS0670X03S070	★	36.2	1.425	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	7	.276	6
					3	Int.	MVS0670X03S080	●	36.2	1.425	38.2	1.504	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0670X05S070	★	57.2	2.252	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	7	.276	6
					5	Int.	MVS0670X05S080	●	57.2	2.252	59.2	2.331	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0670X08S070	★	78.2	3.079	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	7	.276	6
					8	Int.	MVS0670X08S080	●	78.2	3.079	80.2	3.157	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0670X10S070	★	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	7	.276	8
					10	Int.	MVS0670X10S080	●	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	8	.315	8
					15	Int.	MVS0670X15S070	★	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	7	.276	8
					15	Int.	MVS0670X15S080	●	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	8	.315	8
					20	Int.	MVS0670X20S070	★	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	7	.276	8
					20	Int.	MVS0670X20S080	●	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	8	.315	8
					25	Int.	MVS0670X25S070	★	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	7	.276	8
					25	Int.	MVS0670X25S080	●	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	8	.315	8
					30	Int.	MVS0670X30S070	★	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	7	.276	8
					30	Int.	MVS0670X30S080	●	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	8	.315	8
					35	Int.	MVS0670X35S070	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	7	.276	8
					35	Int.	MVS0670X35S080	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	8	.315	8
					40	Int.	MVS0670X40S070	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	7	.276	8
					40	Int.	MVS0670X40S080	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	8	.315	8

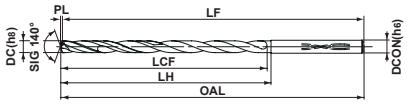
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.746	.2656	17/64			2	Ext.	MVE0675X02S080	●	35.2	1.386	37.2	1.465	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0675X02S080PL	●	35.1	1.382	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	8	.315	4
					3	Int.	MVS0675X03S080	●	36.2	1.425	38.2	1.504	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0675X05S080	●	57.2	2.252	59.2	2.331	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0675X08S080	●	78.2	3.079	80.2	3.157	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0675X10S080	●	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	8	.315	8
					15	Int.	MVS0675X15S080	●	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	8	.315	8
					20	Int.	MVS0675X20S080	●	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	8	.315	8
					25	Int.	MVS0675X25S080	●	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	8	.315	8
					30	Int.	MVS0675X30S080	●	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	8	.315	8
					35	Int.	MVS0675X35S080	●	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	8	.315	8
					40	Int.	MVS0675X40S080	●	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	8	.315	8
6.800	.2677				2	Ext.	MVE0680X02S070	★	35.2	1.386	35.2	1.386	75.2	2.961	74	2.913	1.2	.047	7	.276	2
					2	Ext.	MVE0680X02S080	●	35.2	1.386	37.2	1.465	75.2	2.961	74	2.913	1.2	.047	8	.315	2
					2	Int.	MVS0680X02S070PL	★	35.1	1.382	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	4
					2	Int.	MVS0680X02S080PL	●	35.1	1.382	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	8	.315	4
					3	Ext.	MVE0680X03S070	★	44.2	1.740	44.2	1.740	84.2	3.315	83	3.268	1.2	.047	7	.276	2
					3	Ext.	MVE0680X03S080	★	44.2	1.740	46.2	1.819	84.2	3.315	83	3.268	1.2	.047	8	.315	2
					3	Int.	MVS0680X03S070	★	36.2	1.425	36.2	1.425	89.2	3.512	88	3.465	1.2	.047	7	.276	6
					3	Int.	MVS0680X03S080	●	36.2	1.425	38.2	1.504	89.2	3.512	88	3.465	1.2	.047	8	.315	6
					5	Int.	MVS0680X05S070	★	57.2	2.252	57.2	2.252	110.2	4.339	109	4.291	1.2	.047	7	.276	6
					5	Int.	MVS0680X05S080	●	57.2	2.252	59.2	2.331	110.2	4.339	109	4.291	1.2	.047	8	.315	6
					8	Int.	MVS0680X08S070	★	78.2	3.079	78.2	3.079	131.2	5.165	130	5.118	1.2	.047	7	.276	6
					8	Int.	MVS0680X08S080	●	78.2	3.079	80.2	3.157	131.2	5.165	130	5.118	1.2	.047	8	.315	6
					10	Int.	MVS0680X10S070	★	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	7	.276	8
					10	Int.	MVS0680X10S080	●	92.2	3.630	95.2	3.748	148.2	5.835	147	5.787	1.2	.047	8	.315	8
					15	Int.	MVS0680X15S070	★	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	7	.276	8
					15	Int.	MVS0680X15S080	●	127.2	5.008	130.2	5.126	183.2	7.213	182	7.165	1.2	.047	8	.315	8
					20	Int.	MVS0680X20S070	★	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	7	.276	8
					20	Int.	MVS0680X20S080	●	162.2	6.386	165.2	6.504	218.2	8.591	217	8.543	1.2	.047	8	.315	8
					25	Int.	MVS0680X25S070	★	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	7	.276	8
					25	Int.	MVS0680X25S080	●	197.2	7.764	200.2	7.882	253.2	9.969	252	9.921	1.2	.047	8	.315	8
					30	Int.	MVS0680X30S070	★	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	7	.276	8
					30	Int.	MVS0680X30S080	●	232.2	9.142	235.2	9.260	288.2	11.346	287	11.299	1.2	.047	8	.315	8
					35	Int.	MVS0680X35S070	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	7	.276	8
					35	Int.	MVS0680X35S080	□	267.2	10.520	270.2	10.638	323.2	12.724	322	12.677	1.2	.047	8	.315	8
					40	Int.	MVS0680X40S070	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	7	.276	8
					40	Int.	MVS0680X40S080	□	301.2	11.858	304.2	11.976	357.2	14.063	356	14.016	1.2	.047	8	.315	8

Solid Carbide Drills

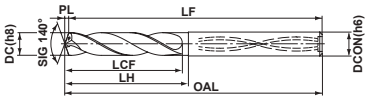
MVE/MVS

DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
6.900	.2717			5/16-24	2	Ext.	MVE0690X02S070	★	35.3	1.390	35.3	1.390	75.3	2.965	74	2.913	1.3	.051	7	.276	2
					2	Ext.	MVE0690X02S080	●	35.3	1.390	37.3	1.469	75.3	2.965	74	2.913	1.3	.051	8	.315	2
					2	Int.	MVS0690X02S070PL	★	35.1	1.382	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	4
					2	Int.	MVS0690X02S080PL	●	35.1	1.382	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	8	.315	4
					3	Ext.	MVE0690X03S070	★	44.3	1.744	44.3	1.744	84.3	3.319	83	3.268	1.3	.051	7	.276	2
					3	Ext.	MVE0690X03S080	★	44.3	1.744	46.3	1.823	84.3	3.319	83	3.268	1.3	.051	8	.315	2
					3	Int.	MVS0690X03S070	★	36.3	1.429	36.3	1.429	89.3	3.516	88	3.465	1.3	.051	7	.276	6
					3	Int.	MVS0690X03S080	●	36.3	1.429	38.3	1.508	89.3	3.516	88	3.465	1.3	.051	8	.315	6
					5	Int.	MVS0690X05S070	★	57.3	2.256	57.3	2.256	110.3	4.343	109	4.291	1.3	.051	7	.276	6
					5	Int.	MVS0690X05S080	●	57.3	2.256	59.3	2.335	110.3	4.343	109	4.291	1.3	.051	8	.315	6
					8	Int.	MVS0690X08S070	★	78.3	3.083	78.3	3.083	131.3	5.169	130	5.118	1.3	.051	7	.276	6
					8	Int.	MVS0690X08S080	●	78.3	3.083	80.3	3.161	131.3	5.169	130	5.118	1.3	.051	8	.315	6
					10	Int.	MVS0690X10S070	★	92.3	3.634	95.3	3.752	148.3	5.839	147	5.787	1.3	.051	7	.276	8
					10	Int.	MVS0690X10S080	●	92.3	3.634	95.3	3.752	148.3	5.839	147	5.787	1.3	.051	8	.315	8
					15	Int.	MVS0690X15S070	★	127.3	5.012	130.3	5.130	183.3	7.217	182	7.165	1.3	.051	7	.276	8
					15	Int.	MVS0690X15S080	●	127.3	5.012	130.3	5.130	183.3	7.217	182	7.165	1.3	.051	8	.315	8
					20	Int.	MVS0690X20S070	★	162.3	6.390	165.3	6.508	218.3	8.594	217	8.543	1.3	.051	7	.276	8
					20	Int.	MVS0690X20S080	●	162.3	6.390	165.3	6.508	218.3	8.594	217	8.543	1.3	.051	8	.315	8
					25	Int.	MVS0690X25S070	★	197.3	7.768	200.3	7.886	253.3	9.972	252	9.921	1.3	.051	7	.276	8
					25	Int.	MVS0690X25S080	●	197.3	7.768	200.3	7.886	253.3	9.972	252	9.921	1.3	.051	8	.315	8
					30	Int.	MVS0690X30S070	★	232.3	9.146	235.3	9.264	288.3	11.350	287	11.299	1.3	.051	7	.276	8
					30	Int.	MVS0690X30S080	●	232.3	9.146	235.3	9.264	288.3	11.350	287	11.299	1.3	.051	8	.315	8
					35	Int.	MVS0690X35S070	□	267.3	10.524	270.3	10.642	323.3	12.728	322	12.677	1.3	.051	7	.276	8
					35	Int.	MVS0690X35S080	□	267.3	10.524	270.3	10.642	323.3	12.728	322	12.677	1.3	.051	8	.315	8
					40	Int.	MVS0690X40S070	□	301.3	11.862	304.3	11.980	357.3	14.067	356	14.016	1.3	.051	7	.276	8
					40	Int.	MVS0690X40S080	□	301.3	11.862	304.3	11.980	357.3	14.067	356	14.016	1.3	.051	8	.315	8
7.000	.2756			M8x1.0	2	Ext.	MVE0700X02S070	★	35.3	1.390	35.3	1.390	75.3	2.965	74	2.913	1.3	.051	7	.276	2
					2	Ext.	MVE0700X02S080	●	35.3	1.390	37.3	1.469	75.3	2.965	74	2.913	1.3	.051	8	.315	2
					2	Int.	MVS0700X02S070PL	★	35.1	1.382	35.1	1.382	75.1	2.957	74	2.913	1.1	.043	7	.276	4
					2	Int.	MVS0700X02S080PL	●	35.1	1.382	37.1	1.461	75.1	2.957	74	2.913	1.1	.043	8	.315	4
					3	Ext.	MVE0700X03S070	★	44.3	1.744	44.3	1.744	84.3	3.319	83	3.268	1.3	.051	7	.276	2
					3	Ext.	MVE0700X03S080	★	44.3	1.744	46.3	1.823	84.3	3.319	83	3.268	1.3	.051	8	.315	2
					3	Int.	MVS0700X03S070	★	36.3	1.429	36.3	1.429	89.3	3.516	88	3.465	1.3	.051	7	.276	6
					3	Int.	MVS0700X03S080	●	36.3	1.429	38.3	1.508	89.3	3.516	88	3.465	1.3	.051	8	.315	6
					5	Int.	MVS0700X05S070	★	57.3	2.256	57.3	2.256	110.3	4.343	109	4.291	1.3	.051	7	.276	6
					5	Int.	MVS0700X05S080	●	57.3	2.256	59.3	2.335	110.3	4.343	109	4.291	1.3	.051	8	.315	6
					8	Int.	MVS0700X08S070	★	78.3	3.083	78.3	3.083	131.3	5.169	130	5.118	1.3	.051	7	.276	6
					8	Int.	MVS0700X08S080	●	78.3	3.083	80.3	3.161	131.3	5.169	130	5.118	1.3	.051	8	.315	6
					10	Int.	MVS0700X10S070	★	92.3	3.634	95.3	3.752	148.3	5.839	147	5.787	1.3	.051	7	.276	8
					10	Int.	MVS0700X10S080	●	92.3	3.634	95.3	3.752	148.3	5.839	147	5.787	1.3	.051	8	.315	8
					15	Int.	MVS0700X15S070	★	127.3	5.012	130.3	5.130	183.3	7.217	182	7.165	1.3	.051	7	.276	8
					15	Int.	MVS0700X15S080	●	127.3	5.012	130.3	5.130	183.3	7.217	182	7.165	1.3	.051	8	.315	8
					20	Int.	MVS0700X20S070	★	162.3	6.390	165.3	6.508	218.3	8.594	217	8.543	1.3	.051	7	.276	8
					20	Int.	MVS0700X20S080	●	162.3	6.390	165.3	6.508	218.3	8.594	217	8.543	1.3	.051	8	.315	8
					25	Int.	MVS0700X25S070	★	197.3	7.768	200.3	7.886	253.3	9.972	252	9.921	1.3	.051	7	.276	8
					25	Int.	MVS0700X25S080	●	197.3	7.768	200.3	7.886	253.3	9.972	252	9.921	1.3	.051	8	.315	8
					30	Int.	MVS0700X30S070	★	232.3	9.146	235.3	9.264	288.3	11.350	287	11.299	1.3	.051	7	.276	8
					30	Int.	MVS0700X30S080	●	232.3	9.146	235.3	9.264	288.3	11.350	287	11.299	1.3	.051	8	.315	8
					35	Int.	MVS0700X35S070	★	267.3	10.524	270.3	10.642	323.3	12.728	322	12.677	1.3	.051	7	.276	8
					35	Int.	MVS0700X35S080	●	267.3	10.524	270.3	10.642	323.3	12.728	322	12.677	1.3	.051	8	.315	8
					40	Int.	MVS0700X40S070	★	301.3	11.862	304.3	11.980	357.3	14.067	356	14.016	1.3	.051	7	.276	8
					40	Int.	MVS0700X40S080	●	301.3	11.862	304.3	11.980	357.3	14.067	356	14.016	1.3	.051	8	.315	8

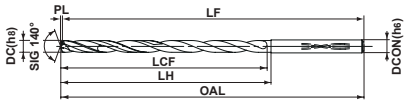
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
7.100	.2795				2	Ext.	MVE0710X02S080	●	35.3	1.390	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	2
					2	Int.	MVS0710X02S080PL	●	35.1	1.382	38.1	1.500	80.1	3.154	79	3.110	1.1	.043	8	.315	4
					3	Ext.	MVE0710X03S080	★	46.3	1.823	49.3	1.941	91.3	3.594	90	3.543	1.3	.051	8	.315	2
					3	Int.	MVS0710X03S080	●	38.8	1.528	41.3	1.626	95.3	3.752	94	3.701	1.3	.051	8	.315	6
					5	Int.	MVS0710X05S080	●	61.3	2.413	65.3	2.571	119.3	4.697	118	4.646	1.3	.051	8	.315	6
					8	Int.	MVS0710X08S080	●	84.3	3.319	89.3	3.516	143.3	5.642	142	5.591	1.3	.051	8	.315	6
					10	Int.	MVS0710X10S080	★	99.3	3.909	102.3	4.028	156.3	6.154	155	6.102	1.3	.051	8	.315	8
					15	Int.	MVS0710X15S080	★	136.3	5.366	139.3	5.484	193.3	7.610	192	7.559	1.3	.051	8	.315	8
					20	Int.	MVS0710X20S080	★	174.3	6.862	177.3	6.980	231.3	9.106	230	9.055	1.3	.051	8	.315	8
					25	Int.	MVS0710X25S080	★	211.3	8.319	214.3	8.437	268.3	10.563	267	10.512	1.3	.051	8	.315	8
					30	Int.	MVS0710X30S080	★	249.3	9.815	252.3	9.933	306.3	12.059	305	12.008	1.3	.051	8	.315	8
					35	Int.	MVS0710X35S080	□	286.3	11.272	289.3	11.390	343.3	13.516	342	13.465	1.3	.051	8	.315	8
					40	Int.	MVS0710X40S080	□	321.3	12.650	324.3	12.768	378.3	14.894	377	14.843	1.3	.051	8	.315	8
7.142	.2812	9/32	K		2	Ext.	MVE0714X02S080	●	35.3	1.390	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	2
					2	Int.	MVS0714X02S080PL	●	35.1	1.382	38.1	1.500	80.1	3.154	79	3.110	1.1	.043	8	.315	4
					3	Int.	MVS0714X03S080	●	38.8	1.528	41.3	1.626	95.3	3.752	94	3.701	1.3	.051	8	.315	6
					5	Int.	MVS0714X05S080	●	61.3	2.413	65.3	2.571	119.3	4.697	118	4.646	1.3	.051	8	.315	6
					8	Int.	MVS0714X08S080	●	84.3	3.319	89.3	3.516	143.3	5.642	142	5.591	1.3	.051	8	.315	6
					10	Int.	MVS0714X10S080	●	99.3	3.909	102.3	4.028	156.3	6.154	155	6.102	1.3	.051	8	.315	8
					15	Int.	MVS0714X15S080	●	136.3	5.366	139.3	5.484	193.3	7.610	192	7.559	1.3	.051	8	.315	8
					20	Int.	MVS0714X20S080	●	174.3	6.862	177.3	6.980	231.3	9.106	230	9.055	1.3	.051	8	.315	8
					25	Int.	MVS0714X25S080	●	211.3	8.319	214.3	8.437	268.3	10.563	267	10.512	1.3	.051	8	.315	8
					30	Int.	MVS0714X30S080	●	249.3	9.815	252.3	9.933	306.3	12.059	305	12.008	1.3	.051	8	.315	8
					35	Int.	MVS0714X35S080	●	286.3	11.272	289.3	11.390	343.3	13.516	342	13.465	1.3	.051	8	.315	8
					40	Int.	MVS0714X40S080	●	321.3	12.650	324.3	12.768	378.3	14.894	377	14.843	1.3	.051	8	.315	8
7.200	.2835				2	Ext.	MVE0720X02S080	●	35.3	1.390	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	2
					2	Int.	MVS0720X02S080PL	●	35.1	1.382	38.1	1.500	80.1	3.154	79	3.110	1.1	.043	8	.315	4
					3	Ext.	MVE0720X03S080	★	46.3	1.823	49.3	1.941	91.3	3.594	90	3.543	1.3	.051	8	.315	2
					3	Int.	MVS0720X03S080	●	38.8	1.528	41.3	1.626	95.3	3.752	94	3.701	1.3	.051	8	.315	6
					5	Int.	MVS0720X05S080	●	61.3	2.413	65.3	2.571	119.3	4.697	118	4.646	1.3	.051	8	.315	6
					8	Int.	MVS0720X08S080	●	84.3	3.319	89.3	3.516	143.3	5.642	142	5.591	1.3	.051	8	.315	6
					10	Int.	MVS0720X10S080	★	99.3	3.909	102.3	4.028	156.3	6.154	155	6.102	1.3	.051	8	.315	8
					15	Int.	MVS0720X15S080	★	136.3	5.366	139.3	5.484	193.3	7.610	192	7.559	1.3	.051	8	.315	8
					20	Int.	MVS0720X20S080	★	174.3	6.862	177.3	6.980	231.3	9.106	230	9.055	1.3	.051	8	.315	8
					25	Int.	MVS0720X25S080	★	211.3	8.319	214.3	8.437	268.3	10.563	267	10.512	1.3	.051	8	.315	8
					30	Int.	MVS0720X30S080	★	249.3	9.815	252.3	9.933	306.3	12.059	305	12.008	1.3	.051	8	.315	8
					35	Int.	MVS0720X35S080	□	286.3	11.272	289.3	11.390	343.3	13.516	342	13.465	1.3	.051	8	.315	8
					40	Int.	MVS0720X40S080	□	321.3	12.650	324.3	12.768	378.3	14.894	377	14.843	1.3	.051	8	.315	8
7.300	.2874				2	Ext.	MVE0730X02S080	●	35.3	1.390	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	2
					2	Int.	MVS0730X02S080PL	●	35.2	1.386	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0730X03S080	★	46.3	1.823	49.3	1.941	91.3	3.594	90	3.543	1.3	.051	8	.315	2
					3	Int.	MVS0730X03S080	●	38.8	1.528	41.3	1.626	95.3	3.752	94	3.701	1.3	.051	8	.315	6
					5	Int.	MVS0730X05S080	●	61.3	2.413	65.3	2.571	119.3	4.697	118	4.646	1.3	.051	8	.315	6
					8	Int.	MVS0730X08S080	●	84.3	3.319	89.3	3.516	143.3	5.642	142	5.591	1.3	.051	8	.315	6
					10	Int.	MVS0730X10S080	★	99.3	3.909	102.3	4.028	156.3	6.154	155	6.102	1.3	.051	8	.315	8
					15	Int.	MVS0730X15S080	★	136.3	5.366	139.3	5.484	193.3	7.610	192	7.559	1.3	.051	8	.315	8
					20	Int.	MVS0730X20S080	★	174.3	6.862	177.3	6.980	231.3	9.106	230	9.055	1.3	.051	8	.315	8
					25	Int.	MVS0730X25S080	★	211.3	8.319	214.3	8.437	268.3	10.563	267	10.512	1.3	.051	8	.315	8
					30	Int.	MVS0730X30S080	★	249.3	9.815	252.3	9.933	306.3	12.059	305	12.008	1.3	.051	8	.315	8
					35	Int.	MVS0730X35S080	□	286.3	11.272	289.3	11.390	343.3	13.516	342	13.465	1.3	.051	8	.315	8
					40	Int.	MVS0730X40S080	□	321.3	12.650	324.3	12.768	378.3	14.894	377	14.843	1.3	.051	8	.315	8

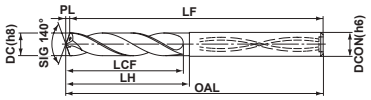
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
7.400	.2913				2	Ext.	MVE0740X02S080	●	35.3	1.390	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	2
					2	Int.	MVS0740X02S080PL	●	35.2	1.386	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0740X03S080	★	46.3	1.823	49.3	1.941	91.3	3.594	90	3.543	1.3	.051	8	.315	2
					3	Int.	MVS0740X03S080	●	38.8	1.528	41.3	1.626	95.3	3.752	94	3.701	1.3	.051	8	.315	6
					5	Int.	MVS0740X05S080	●	61.3	2.413	65.3	2.571	119.3	4.697	118	4.646	1.3	.051	8	.315	6
					8	Int.	MVS0740X08S080	●	84.3	3.319	89.3	3.516	143.3	5.642	142	5.591	1.3	.051	8	.315	6
					10	Int.	MVS0740X10S080	★	99.3	3.909	102.3	4.031	156.3	6.154	155	6.102	1.3	.051	8	.315	8
					15	Int.	MVS0740X15S080	★	136.3	5.366	139.3	5.488	193.3	7.610	192	7.559	1.3	.051	8	.315	8
					20	Int.	MVS0740X20S080	★	174.3	6.862	177.3	6.984	231.3	9.106	230	9.055	1.3	.051	8	.315	8
					25	Int.	MVS0740X25S080	★	211.3	8.319	214.3	8.441	268.3	10.563	267	10.512	1.3	.051	8	.315	8
					30	Int.	MVS0740X30S080	★	249.3	9.815	252.3	9.937	306.3	12.059	305	12.008	1.3	.051	8	.315	8
					35	Int.	MVS0740X35S080	□	286.3	11.272	289.3	11.394	343.3	13.516	342	13.465	1.3	.051	8	.315	8
					40	Int.	MVS0740X40S080	□	321.3	12.650	324.3	12.772	378.3	14.894	377	14.843	1.3	.051	8	.315	8
7.500	.2953		M		2	Ext.	MVE0750X02S080	●	35.4	1.394	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0750X02S080PL	●	35.2	1.386	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0750X03S080	★	46.4	1.827	49.4	1.945	91.4	3.598	90	3.543	1.4	.055	8	.315	2
					3	Int.	MVS0750X03S080	●	38.9	1.531	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0750X05S080	●	61.4	2.417	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0750X08S080	●	84.4	3.323	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0750X10S080	●	99.4	3.913	102.4	4.031	156.4	6.157	155	6.102	1.4	.055	8	.315	8
					15	Int.	MVS0750X15S080	★	136.4	5.370	139.4	5.488	193.4	7.614	192	7.559	1.4	.055	8	.315	8
					20	Int.	MVS0750X20S080	★	174.4	6.866	177.4	6.984	231.4	9.110	230	9.055	1.4	.055	8	.315	8
					25	Int.	MVS0750X25S080	★	211.4	8.323	214.4	8.441	268.4	10.567	267	10.512	1.4	.055	8	.315	8
					30	Int.	MVS0750X30S080	★	249.4	9.819	252.4	9.937	306.4	12.063	305	12.008	1.4	.055	8	.315	8
					35	Int.	MVS0750X35S080	●	286.4	11.276	289.4	11.394	343.4	13.520	342	13.465	1.4	.055	8	.315	8
					40	Int.	MVS0750X40S080	●	321.4	12.654	324.4	12.772	378.4	14.898	377	14.843	1.4	.055	8	.315	8
7.541	.2969	19/64			2	Ext.	MVE0754X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0754X02S080PL	●	38.2	1.504	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Int.	MVS0754X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0754X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0754X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0754X10S080	●	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0754X15S080	●	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0754X20S080	●	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0754X25S080	●	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0754X30S080	●	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0754X35S080	●	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0754X40S080	●	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8
7.600	.2992				2	Ext.	MVE0760X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0760X02S080PL	●	38.2	1.504	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0760X03S080	★	49.4	1.945	49.4	1.945	91.4	3.598	90	3.543	1.4	.055	8	.315	2
					3	Int.	MVS0760X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0760X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0760X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0760X10S080	★	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0760X15S080	★	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0760X20S080	★	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0760X25S080	★	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0760X30S080	★	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0760X35S080	□	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0760X40S080	□	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8

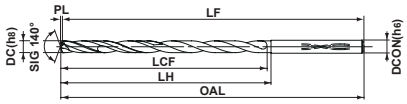
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
7.700	.3031				2	Ext.	MVE0770X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0770X02S080PL	●	38.2	1.504	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0770X03S080	★	49.4	1.945	49.4	1.945	91.4	3.598	90	3.543	1.4	.055	8	.315	2
					3	Int.	MVS0770X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0770X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0770X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0770X10S080	★	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0770X15S080	★	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0770X20S080	★	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0770X25S080	★	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0770X30S080	★	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0770X35S080	□	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0770X40S080	□	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8
7.800	.3071				2	Ext.	MVE0780X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0780X02S080PL	●	38.2	1.504	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0780X03S080	★	49.4	1.945	49.4	1.945	91.4	3.598	90	3.543	1.4	.055	8	.315	2
					3	Int.	MVS0780X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0780X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0780X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0780X10S080	★	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0780X15S080	●	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0780X20S080	★	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0780X25S080	●	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0780X30S080	★	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0780X35S080	□	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0780X40S080	□	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8
7.900	.3110				2	Ext.	MVE0790X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0790X02S080PL	●	38.2	1.504	38.2	1.504	80.2	3.157	79	3.110	1.2	.047	8	.315	4
					3	Ext.	MVE0790X03S080	★	49.4	1.945	49.4	1.945	91.4	3.598	90	3.543	1.4	.055	8	.315	2
					3	Int.	MVS0790X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0790X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0790X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0790X10S080	★	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0790X15S080	★	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0790X20S080	★	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0790X25S080	★	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0790X30S080	★	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0790X35S080	□	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0790X40S080	□	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8
7.938	.3125	5/16		3/8-16	2	Ext.	MVE0794X02S080	●	38.4	1.512	38.4	1.512	80.4	3.165	79	3.110	1.4	.055	8	.315	2
					2	Int.	MVS0794X02S080PL	●	38.3	1.508	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	4
					3	Int.	MVS0794X03S080	●	41.4	1.630	41.4	1.630	95.4	3.756	94	3.701	1.4	.055	8	.315	6
					5	Int.	MVS0794X05S080	●	65.4	2.575	65.4	2.575	119.4	4.701	118	4.646	1.4	.055	8	.315	6
					8	Int.	MVS0794X08S080	●	89.4	3.520	89.4	3.520	143.4	5.646	142	5.591	1.4	.055	8	.315	6
					10	Int.	MVS0794X10S080	●	105.4	4.150	108.4	4.268	162.4	6.394	161	6.339	1.4	.055	8	.315	8
					15	Int.	MVS0794X15S080	●	145.4	5.724	148.4	5.843	202.4	7.969	201	7.913	1.4	.055	8	.315	8
					20	Int.	MVS0794X20S080	●	185.4	7.299	188.4	7.417	242.4	9.543	241	9.488	1.4	.055	8	.315	8
					25	Int.	MVS0794X25S080	●	225.4	8.874	228.4	8.992	282.4	11.118	281	11.063	1.4	.055	8	.315	8
					30	Int.	MVS0794X30S080	●	265.4	10.449	268.4	10.567	322.4	12.693	321	12.638	1.4	.055	8	.315	8
					35	Int.	MVS0794X35S080	●	305.4	12.024	308.4	12.142	362.4	14.268	361	14.213	1.4	.055	8	.315	8
					40	Int.	MVS0794X40S080	●	341.4	13.441	344.4	13.559	398.4	15.685	397	15.630	1.4	.055	8	.315	8

MVE/MVS

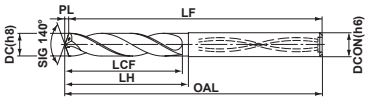
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.000	.3150				2	Ext.	MVE0800X02S080	●	38.5	1.516	38.5	1.516	80.5	3.169	79	3.110	1.5	.059	8	.315	2
					2	Int.	MVS0800X02S080PL	●	38.3	1.508	38.3	1.508	80.3	3.161	79	3.110	1.3	.051	8	.315	4
					3	Ext.	MVE0800X03S080	★	49.5	1.949	49.5	1.949	91.5	3.602	90	3.543	1.5	.059	8	.315	2
					3	Int.	MVS0800X03S080	●	41.5	1.634	41.5	1.634	95.5	3.760	94	3.701	1.5	.059	8	.315	6
					5	Int.	MVS0800X05S080	●	65.5	2.579	65.5	2.579	119.5	4.705	118	4.646	1.5	.059	8	.315	6
					8	Int.	MVS0800X08S080	●	89.5	3.524	89.5	3.524	143.5	5.650	142	5.591	1.5	.059	8	.315	6
					10	Int.	MVS0800X10S080	●	105.5	4.154	108.5	4.272	162.5	6.398	161	6.339	1.5	.059	8	.315	8
					15	Int.	MVS0800X15S080	●	145.5	5.728	148.5	5.846	202.5	7.972	201	7.913	1.5	.059	8	.315	8
					20	Int.	MVS0800X20S080	●	185.5	7.303	188.5	7.421	242.5	9.547	241	9.488	1.5	.059	8	.315	8
					25	Int.	MVS0800X25S080	★	225.5	8.878	228.5	8.996	282.5	11.122	281	11.063	1.5	.059	8	.315	8
					30	Int.	MVS0800X30S080	●	265.5	10.453	268.5	10.571	322.5	12.697	321	12.638	1.5	.059	8	.315	8
					35	Int.	MVS0800X35S080	●	305.5	12.028	308.5	12.146	362.5	14.272	361	14.213	1.5	.059	8	.315	8
					40	Int.	MVS0800X40S080	●	341.5	13.445	344.5	13.563	398.5	15.689	397	15.630	1.5	.059	8	.315	8
8.100	.3189				2	Ext.	MVE0810X02S090	★	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	9	.354	2
					2	Ext.	MVE0810X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0810X02S090PL	★	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	9	.354	4
					2	Int.	MVS0810X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Ext.	MVE0810X03S090	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	9	.354	2
					3	Ext.	MVE0810X03S100	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	10	.394	2
					3	Int.	MVS0810X03S090	★	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	9	.354	6
					3	Int.	MVS0810X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0810X05S090	★	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	9	.354	6
					5	Int.	MVS0810X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0810X08S090	★	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	9	.354	6
					8	Int.	MVS0810X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0810X10S090	★	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	9	.354	8
					10	Int.	MVS0810X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0810X15S090	★	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	9	.354	8
					15	Int.	MVS0810X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0810X20S090	★	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	9	.354	8
					20	Int.	MVS0810X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0810X25S090	★	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	9	.354	8
					25	Int.	MVS0810X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0810X30S090	★	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	9	.354	8
					30	Int.	MVS0810X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0810X35S090	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	9	.354	8
					35	Int.	MVS0810X35S100	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0810X40S090	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	9	.354	8
					40	Int.	MVS0810X40S100	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

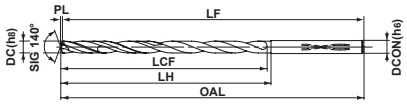
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.200	.3228		P		2	Ext.	MVE0820X02S090	★	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	9	.354	2
					2	Ext.	MVE0820X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0820X02S090PL	★	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	9	.354	4
					2	Int.	MVS0820X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Ext.	MVE0820X03S090	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	9	.354	2
					3	Ext.	MVE0820X03S100	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	10	.394	2
					3	Int.	MVS0820X03S090	★	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	9	.354	6
					3	Int.	MVS0820X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0820X05S090	★	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	9	.354	6
					5	Int.	MVS0820X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0820X08S090	★	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	9	.354	6
					8	Int.	MVS0820X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0820X10S090	★	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	9	.354	8
					10	Int.	MVS0820X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0820X15S090	★	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	9	.354	8
					15	Int.	MVS0820X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0820X20S090	★	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	9	.354	8
					20	Int.	MVS0820X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0820X25S090	★	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	9	.354	8
					25	Int.	MVS0820X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0820X30S090	★	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	9	.354	8
					30	Int.	MVS0820X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0820X35S090	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	9	.354	8
					35	Int.	MVS0820X35S100	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0820X40S090	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	9	.354	8
					40	Int.	MVS0820X40S100	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8
8.300	.3268				2	Ext.	MVE0830X02S090	★	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	9	.354	2
					2	Ext.	MVE0830X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0830X02S090PL	★	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	9	.354	4
					2	Int.	MVS0830X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Ext.	MVE0830X03S090	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	9	.354	2
					3	Ext.	MVE0830X03S100	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	10	.394	2
					3	Int.	MVS0830X03S090	★	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	9	.354	6
					3	Int.	MVS0830X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0830X05S090	★	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	9	.354	6
					5	Int.	MVS0830X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0830X08S090	★	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	9	.354	6
					8	Int.	MVS0830X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0830X10S090	★	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	9	.354	8
					10	Int.	MVS0830X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0830X15S090	★	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	9	.354	8
					15	Int.	MVS0830X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0830X20S090	★	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	9	.354	8
					20	Int.	MVS0830X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0830X25S090	★	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	9	.354	8
					25	Int.	MVS0830X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0830X30S090	★	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	9	.354	8
					30	Int.	MVS0830X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0830X35S090	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	9	.354	8
					35	Int.	MVS0830X35S100	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0830X40S090	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	9	.354	8
					40	Int.	MVS0830X40S100	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8

Solid Carbide Drills

MVE/MVS

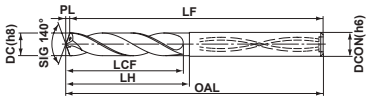
DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.334	.3281	21/64			2	Ext.	MVE0833X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0833X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Int.	MVS0833X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0833X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0833X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0833X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0833X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0833X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0833X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0833X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0833X35S100	●	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0833X40S100	●	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8
8.400	.3307				2	Ext.	MVE0840X02S090	★	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	9	.354	2
					2	Ext.	MVE0840X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0840X02S090PL	★	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	9	.354	4
					2	Int.	MVS0840X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Ext.	MVE0840X03S090	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	9	.354	2
					3	Ext.	MVE0840X03S100	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	10	.394	2
					3	Int.	MVS0840X03S090	★	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	9	.354	6
					3	Int.	MVS0840X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0840X05S090	★	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	9	.354	6
					5	Int.	MVS0840X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0840X08S090	★	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	9	.354	6
					8	Int.	MVS0840X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0840X10S090	★	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	9	.354	8
					10	Int.	MVS0840X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0840X15S090	★	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	9	.354	8
					15	Int.	MVS0840X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0840X20S090	★	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	9	.354	8
					20	Int.	MVS0840X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0840X25S090	★	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	9	.354	8
					25	Int.	MVS0840X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0840X30S090	★	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	9	.354	8
					30	Int.	MVS0840X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0840X35S090	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	9	.354	8
					35	Int.	MVS0840X35S100	□	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0840X40S090	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	9	.354	8
					40	Int.	MVS0840X40S100	□	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8
8.433	.3320		Q	3/8-24	2	Ext.	MVE0843X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0843X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Int.	MVS0843X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0843X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0843X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0843X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0843X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0843X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0843X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0843X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0843X35S100	●	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0843X40S100	●	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

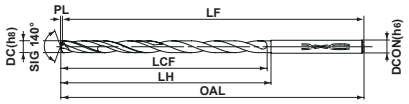
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.500	.3346			M10x1.5	2	Ext.	MVE0850X02S090	★	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	9	.354	2
					2	Ext.	MVE0850X02S100	●	38.5	1.516	41.5	1.634	85.5	3.366	84	3.307	1.5	.059	10	.394	2
					2	Int.	MVS0850X02S090PL	★	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	9	.354	4
					2	Int.	MVS0850X02S100PL	●	38.3	1.508	41.3	1.626	85.3	3.358	84	3.307	1.3	.051	10	.394	4
					3	Ext.	MVE0850X03S090	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	9	.354	2
					3	Ext.	MVE0850X03S100	★	54.5	2.146	57.5	2.264	99.5	3.917	98	3.858	1.5	.059	10	.394	2
					3	Int.	MVS0850X03S090	★	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	9	.354	6
					3	Int.	MVS0850X03S100	●	44.0	1.732	46.5	1.831	101.5	3.996	100	3.937	1.5	.059	10	.394	6
					5	Int.	MVS0850X05S090	★	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	9	.354	6
					5	Int.	MVS0850X05S100	●	69.5	2.736	73.5	2.894	128.5	5.059	127	5.000	1.5	.059	10	.394	6
					8	Int.	MVS0850X08S090	★	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	9	.354	6
					8	Int.	MVS0850X08S100	●	95.5	3.760	100.5	3.957	155.5	6.122	154	6.063	1.5	.059	10	.394	6
					10	Int.	MVS0850X10S090	★	112.5	4.429	115.5	4.551	170.5	6.713	169	6.654	1.5	.059	9	.354	8
					10	Int.	MVS0850X10S100	●	112.5	4.429	115.5	4.547	170.5	6.713	169	6.654	1.5	.059	10	.394	8
					15	Int.	MVS0850X15S090	★	154.5	6.083	157.5	6.205	212.5	8.366	211	8.307	1.5	.059	9	.354	8
					15	Int.	MVS0850X15S100	●	154.5	6.083	157.5	6.201	212.5	8.366	211	8.307	1.5	.059	10	.394	8
					20	Int.	MVS0850X20S090	★	197.5	7.776	200.5	7.898	255.5	10.059	254	10.000	1.5	.059	9	.354	8
					20	Int.	MVS0850X20S100	●	197.5	7.776	200.5	7.894	255.5	10.059	254	10.000	1.5	.059	10	.394	8
					25	Int.	MVS0850X25S090	★	239.5	9.429	242.5	9.551	297.5	11.713	296	11.654	1.5	.059	9	.354	8
					25	Int.	MVS0850X25S100	●	239.5	9.429	242.5	9.547	297.5	11.713	296	11.654	1.5	.059	10	.394	8
					30	Int.	MVS0850X30S090	★	282.5	11.122	285.5	11.244	340.5	13.406	339	13.346	1.5	.059	9	.354	8
					30	Int.	MVS0850X30S100	●	282.5	11.122	285.5	11.240	340.5	13.406	339	13.346	1.5	.059	10	.394	8
					35	Int.	MVS0850X35S090	★	324.5	12.776	327.5	12.898	382.5	15.059	381	15.000	1.5	.059	9	.354	8
					35	Int.	MVS0850X35S100	●	324.5	12.776	327.5	12.894	382.5	15.059	381	15.000	1.5	.059	10	.394	8
					40	Int.	MVS0850X40S090	★	366.5	14.429	369.5	14.551	424.5	16.713	423	16.654	1.5	.059	9	.354	8
					40	Int.	MVS0850X40S100	●	366.5	14.429	369.5	14.547	424.5	16.713	423	16.654	1.5	.059	10	.394	8
8.600	.3386		R		2	Ext.	MVE0860X02S090	★	41.6	1.638	41.6	1.638	85.6	3.370	84	3.307	1.6	.063	9	.354	2
					2	Ext.	MVE0860X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0860X02S090PL	★	41.4	1.630	41.4	1.630	85.4	3.362	84	3.307	1.4	.055	9	.354	4
					2	Int.	MVS0860X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Ext.	MVE0860X03S090	★	56.6	2.228	56.6	2.228	99.6	3.921	98	3.858	1.6	.063	9	.354	2
					3	Ext.	MVE0860X03S100	★	56.6	2.228	58.6	2.307	99.6	3.921	98	3.858	1.6	.063	10	.394	2
					3	Int.	MVS0860X03S090	★	46.6	1.835	46.6	1.835	101.6	4.000	100	3.937	1.6	.063	9	.354	6
					3	Int.	MVS0860X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0860X05S090	★	73.6	2.898	73.6	2.898	128.6	5.063	127	5.000	1.6	.063	9	.354	6
					5	Int.	MVS0860X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0860X08S090	★	100.6	3.961	100.6	3.961	155.6	6.126	154	6.063	1.6	.063	9	.354	6
					8	Int.	MVS0860X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0860X10S090	★	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	9	.354	8
					10	Int.	MVS0860X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0860X15S090	★	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	9	.354	8
					15	Int.	MVS0860X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0860X20S090	★	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	9	.354	8
					20	Int.	MVS0860X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0860X25S090	★	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	9	.354	8
					25	Int.	MVS0860X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0860X30S090	★	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	9	.354	8
					30	Int.	MVS0860X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0860X35S090	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	9	.354	8
					35	Int.	MVS0860X35S100	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0860X40S090	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	9	.354	8
					40	Int.	MVS0860X40S100	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8

Solid Carbide Drills

MVE/MVS

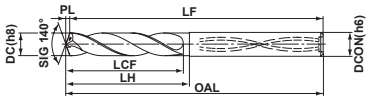
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.700	.3425			M10x1.25	2	Ext.	MVE0870X02S090	★	41.6	1.638	41.6	1.638	85.6	3.370	84	3.307	1.6	.063	9	.354	2
					2	Ext.	MVE0870X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0870X02S090PL	★	41.4	1.630	41.4	1.630	85.4	3.362	84	3.307	1.4	.055	9	.354	4
					2	Int.	MVS0870X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Ext.	MVE0870X03S090	★	56.6	2.228	56.6	2.228	99.6	3.921	98	3.858	1.6	.063	9	.354	2
					3	Ext.	MVE0870X03S100	★	56.6	2.228	58.6	2.307	99.6	3.921	98	3.858	1.6	.063	10	.394	2
					3	Int.	MVS0870X03S090	★	46.6	1.835	46.6	1.835	101.6	4.000	100	3.937	1.6	.063	9	.354	6
					3	Int.	MVS0870X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0870X05S090	★	73.6	2.898	73.6	2.898	128.6	5.063	127	5.000	1.6	.063	9	.354	6
					5	Int.	MVS0870X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0870X08S090	★	100.6	3.961	100.6	3.961	155.6	6.126	154	6.063	1.6	.063	9	.354	6
					8	Int.	MVS0870X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0870X10S090	★	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	9	.354	8
					10	Int.	MVS0870X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0870X15S090	★	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	9	.354	8
					15	Int.	MVS0870X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0870X20S090	★	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	9	.354	8
					20	Int.	MVS0870X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0870X25S090	★	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	9	.354	8
					25	Int.	MVS0870X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0870X30S090	★	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	9	.354	8
					30	Int.	MVS0870X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0870X35S090	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	9	.354	8
					35	Int.	MVS0870X35S100	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0870X40S090	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	9	.354	8
					40	Int.	MVS0870X40S100	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8
8.733	.3438	11/32			2	Ext.	MVE0873X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0873X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Int.	MVS0873X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0873X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0873X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0873X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0873X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0873X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0873X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0873X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0873X35S100	●	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0873X40S100	●	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

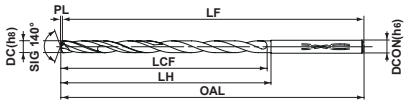
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
8.800	.3465				2	Ext.	MVE0880X02S090	★	41.6	1.638	41.6	1.638	85.6	3.370	84	3.307	1.6	.063	9	.354	2
					2	Ext.	MVE0880X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0880X02S090PL	★	41.4	1.630	41.4	1.630	85.4	3.362	84	3.307	1.4	.055	9	.354	4
					2	Int.	MVS0880X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Ext.	MVE0880X03S090	★	56.6	2.228	56.6	2.228	99.6	3.921	98	3.858	1.6	.063	9	.354	2
					3	Ext.	MVE0880X03S100	★	56.6	2.228	58.6	2.307	99.6	3.921	98	3.858	1.6	.063	10	.394	2
					3	Int.	MVS0880X03S090	★	46.6	1.835	46.6	1.835	101.6	4.000	100	3.937	1.6	.063	9	.354	6
					3	Int.	MVS0880X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0880X05S090	★	73.6	2.898	73.6	2.898	128.6	5.063	127	5.000	1.6	.063	9	.354	6
					5	Int.	MVS0880X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0880X08S090	★	100.6	3.961	100.6	3.961	155.6	6.126	154	6.063	1.6	.063	9	.354	6
					8	Int.	MVS0880X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0880X10S090	★	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	9	.354	8
					10	Int.	MVS0880X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0880X15S090	★	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	9	.354	8
					15	Int.	MVS0880X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0880X20S090	★	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	9	.354	8
					20	Int.	MVS0880X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0880X25S090	★	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	9	.354	8
					25	Int.	MVS0880X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0880X30S090	★	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	9	.354	8
					30	Int.	MVS0880X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0880X35S090	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	9	.354	8
					35	Int.	MVS0880X35S100	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0880X40S090	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	9	.354	8
					40	Int.	MVS0880X40S100	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8
8.900	.3504				2	Ext.	MVE0890X02S090	★	41.6	1.638	41.6	1.638	85.6	3.370	84	3.307	1.6	.063	9	.354	2
					2	Ext.	MVE0890X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0890X02S090PL	★	41.4	1.630	41.4	1.630	85.4	3.362	84	3.307	1.4	.055	9	.354	4
					2	Int.	MVS0890X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Ext.	MVE0890X03S090	★	56.6	2.228	56.6	2.228	99.6	3.921	98	3.858	1.6	.063	9	.354	2
					3	Ext.	MVE0890X03S100	★	56.6	2.228	58.6	2.307	99.6	3.921	98	3.858	1.6	.063	10	.394	2
					3	Int.	MVS0890X03S090	★	46.6	1.835	46.6	1.835	101.6	4.000	100	3.937	1.6	.063	9	.354	6
					3	Int.	MVS0890X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0890X05S090	★	73.6	2.898	73.6	2.898	128.6	5.063	127	5.000	1.6	.063	9	.354	6
					5	Int.	MVS0890X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0890X08S090	★	100.6	3.961	100.6	3.961	155.6	6.126	154	6.063	1.6	.063	9	.354	6
					8	Int.	MVS0890X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0890X10S090	★	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	9	.354	8
					10	Int.	MVS0890X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0890X15S090	★	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	9	.354	8
					15	Int.	MVS0890X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0890X20S090	★	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	9	.354	8
					20	Int.	MVS0890X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0890X25S090	★	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	9	.354	8
					25	Int.	MVS0890X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0890X30S090	★	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	9	.354	8
					30	Int.	MVS0890X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0890X35S090	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	9	.354	8
					35	Int.	MVS0890X35S100	□	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0890X40S090	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	9	.354	8
					40	Int.	MVS0890X40S100	□	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8

Solid Carbide Drills

MVE/MVS

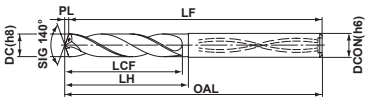
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	MVE0900X02S090	★	41.6	1.638	41.6	1.638	85.6	3.370	84	3.307	1.6	.063	9	.354	2
					2	Ext.	MVE0900X02S100	●	41.6	1.638	43.6	1.717	85.6	3.370	84	3.307	1.6	.063	10	.394	2
					2	Int.	MVS0900X02S090PL	★	41.4	1.630	41.4	1.630	85.4	3.362	84	3.307	1.4	.055	9	.354	4
					2	Int.	MVS0900X02S100PL	●	41.4	1.630	43.4	1.709	85.4	3.362	84	3.307	1.4	.055	10	.394	4
					3	Ext.	MVE0900X03S090	★	56.6	2.228	56.6	2.228	99.6	3.921	98	3.858	1.6	.063	9	.354	2
					3	Ext.	MVE0900X03S100	★	56.6	2.228	58.6	2.307	99.6	3.921	98	3.858	1.6	.063	10	.394	2
					3	Int.	MVS0900X03S090	★	46.6	1.835	46.6	1.835	101.6	4.000	100	3.937	1.6	.063	9	.354	6
					3	Int.	MVS0900X03S100	●	46.6	1.835	48.6	1.913	101.6	4.000	100	3.937	1.6	.063	10	.394	6
					5	Int.	MVS0900X05S090	★	73.6	2.898	73.6	2.898	128.6	5.063	127	5.000	1.6	.063	9	.354	6
					5	Int.	MVS0900X05S100	●	73.6	2.898	75.6	2.976	128.6	5.063	127	5.000	1.6	.063	10	.394	6
					8	Int.	MVS0900X08S090	★	100.6	3.961	100.6	3.961	155.6	6.126	154	6.063	1.6	.063	9	.354	6
					8	Int.	MVS0900X08S100	●	100.6	3.961	102.6	4.039	155.6	6.126	154	6.063	1.6	.063	10	.394	6
					10	Int.	MVS0900X10S090	★	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	9	.354	8
9.000	.3543				10	Int.	MVS0900X10S100	●	118.6	4.669	121.6	4.787	176.6	6.953	175	6.890	1.6	.063	10	.394	8
					15	Int.	MVS0900X15S090	★	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	9	.354	8
					15	Int.	MVS0900X15S100	●	163.6	6.441	166.6	6.559	221.6	8.724	220	8.661	1.6	.063	10	.394	8
					20	Int.	MVS0900X20S090	★	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	9	.354	8
					20	Int.	MVS0900X20S100	●	208.6	8.213	211.6	8.331	266.6	10.496	265	10.433	1.6	.063	10	.394	8
					25	Int.	MVS0900X25S090	★	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	9	.354	8
					25	Int.	MVS0900X25S100	●	253.6	9.984	256.6	10.102	311.6	12.268	310	12.205	1.6	.063	10	.394	8
					30	Int.	MVS0900X30S090	★	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	9	.354	8
					30	Int.	MVS0900X30S100	●	298.6	11.756	301.6	11.874	356.6	14.039	355	13.976	1.6	.063	10	.394	8
					35	Int.	MVS0900X35S090	★	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	9	.354	8
					35	Int.	MVS0900X35S100	●	343.6	13.528	346.6	13.646	401.6	15.811	400	15.748	1.6	.063	10	.394	8
					40	Int.	MVS0900X40S090	★	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	9	.354	8
					40	Int.	MVS0900X40S100	●	391.6	15.417	394.6	15.535	449.6	17.701	448	17.638	1.6	.063	10	.394	8
					2	Ext.	MVE0910X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0910X02S100PL	●	41.4	1.630	44.4	1.748	90.4	3.559	89	3.504	1.4	.055	10	.394	4
					3	Ext.	MVE0910X03S100	★	59.7	2.350	62.7	2.469	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0910X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0910X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0910X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
9.100	.3583		T		10	Int.	MVS0910X10S100	★	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0910X15S100	★	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0910X20S100	★	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0910X25S100	★	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0910X30S100	★	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0910X35S100	□	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8
					2	Ext.	MVE0913X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0913X02S100PL	●	41.4	1.630	44.4	1.748	90.4	3.559	89	3.504	1.4	.055	10	.394	4
					3	Int.	MVS0913X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0913X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0913X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
9.128	.3594	23/64			10	Int.	MVS0913X10S100	●	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0913X15S100	●	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0913X20S100	●	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0913X25S100	●	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0913X30S100	●	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0913X35S100	●	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

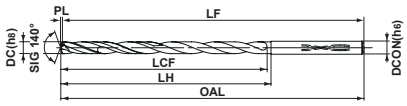
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
9.200	.3622				2	Ext.	MVE0920X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0920X02S100PL	●	41.5	1.634	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0920X03S100	★	59.7	2.350	62.7	2.469	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0920X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0920X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0920X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0920X10S100	★	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0920X15S100	★	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0920X20S100	★	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0920X25S100	★	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0920X30S100	★	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0920X35S100	□	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8
9.300	.3661				2	Ext.	MVE0930X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0930X02S100PL	●	41.5	1.634	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0930X03S100	★	59.7	2.350	62.7	2.469	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0930X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0930X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0930X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0930X10S100	★	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0930X15S100	★	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0930X20S100	★	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0930X25S100	★	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0930X30S100	★	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0930X35S100	□	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8
9.347	.3680		U	7/16-14	2	Ext.	MVE0935X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0935X02S100PL	●	41.5	1.634	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Int.	MVS0935X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0935X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0935X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0935X10S100	●	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0935X15S100	●	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0935X20S100	●	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0935X25S100	●	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0935X30S100	●	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0935X35S100	●	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8
9.400	.3701				2	Ext.	MVE0940X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0940X02S100PL	●	41.5	1.634	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0940X03S100	★	59.7	2.350	62.7	2.469	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0940X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0940X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0940X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0940X10S100	★	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0940X15S100	★	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0940X20S100	★	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0940X25S100	★	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0940X30S100	★	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0940X35S100	□	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8

Solid Carbide Drills

MVE/MVS

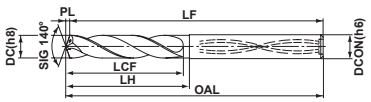
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
9.500	.3740				2	Ext.	MVE0950X02S100	●	41.7	1.642	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0950X02S100PL	●	41.5	1.634	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0950X03S100	★	59.7	2.350	62.7	2.469	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0950X03S100	●	49.2	1.937	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0950X05S100	●	77.7	3.059	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0950X08S100	●	106.7	4.201	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0950X10S100	★	125.7	4.949	128.7	5.067	183.7	7.232	182	7.165	1.7	.067	10	.394	8
					15	Int.	MVS0950X15S100	★	172.7	6.799	175.7	6.917	230.7	9.083	229	9.016	1.7	.067	10	.394	8
					20	Int.	MVS0950X20S100	●	220.7	8.689	223.7	8.807	278.7	10.972	277	10.906	1.7	.067	10	.394	8
					25	Int.	MVS0950X25S100	★	267.7	10.539	270.7	10.657	325.7	12.823	324	12.756	1.7	.067	10	.394	8
					30	Int.	MVS0950X30S100	★	315.7	12.429	318.7	12.547	373.7	14.713	372	14.646	1.7	.067	10	.394	8
					35	Int.	MVS0950X35S100	●	362.7	14.280	365.7	14.398	420.7	16.563	419	16.496	1.7	.067	10	.394	8
9.525	.3750	3/8			2	Ext.	MVE0953X02S100	●	44.7	1.760	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0953X02S100PL	●	44.5	1.752	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Int.	MVS0953X03S100	●	51.7	2.035	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0953X05S100	●	81.7	3.217	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0953X08S100	●	111.7	4.398	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0953X10S100	●	131.7	5.185	134.7	5.303	189.7	7.469	188	7.402	1.7	.067	10	.394	8
					15	Int.	MVS0953X15S100	●	181.7	7.154	184.7	7.272	239.7	9.437	238	9.370	1.7	.067	10	.394	8
					20	Int.	MVS0953X20S100	●	231.7	9.122	234.7	9.240	289.7	11.406	288	11.339	1.7	.067	10	.394	8
					25	Int.	MVS0953X25S100	●	281.7	11.091	284.7	11.209	339.7	13.374	338	13.307	1.7	.067	10	.394	8
					30	Int.	MVS0953X30S100	●	331.7	13.059	334.7	13.177	389.7	15.343	388	15.276	1.7	.067	10	.394	8
					35	Int.	MVS0953X35S100	●	381.7	15.028	384.7	15.146	439.7	17.311	438	17.244	1.7	.067	10	.394	8
9.600	.3780				2	Ext.	MVE0960X02S100	●	44.7	1.760	44.7	1.760	90.7	3.571	89	3.504	1.7	.067	10	.394	2
					2	Int.	MVS0960X02S100PL	●	44.5	1.752	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0960X03S100	★	61.7	2.429	61.7	2.429	106.7	4.201	105	4.134	1.7	.067	10	.394	2
					3	Int.	MVS0960X03S100	●	51.7	2.035	51.7	2.035	107.7	4.240	106	4.173	1.7	.067	10	.394	6
					5	Int.	MVS0960X05S100	●	81.7	3.217	81.7	3.217	137.7	5.421	136	5.354	1.7	.067	10	.394	6
					8	Int.	MVS0960X08S100	●	111.7	4.398	111.7	4.398	167.7	6.602	166	6.535	1.7	.067	10	.394	6
					10	Int.	MVS0960X10S100	●	131.7	5.185	134.7	5.307	189.7	7.469	188	7.402	1.7	.067	10	.394	8
					15	Int.	MVS0960X15S100	★	181.7	7.154	184.7	7.276	239.7	9.437	238	9.370	1.7	.067	10	.394	8
					20	Int.	MVS0960X20S100	★	231.7	9.122	234.7	9.244	289.7	11.406	288	11.339	1.7	.067	10	.394	8
					25	Int.	MVS0960X25S100	★	281.7	11.091	284.7	11.213	339.7	13.374	338	13.307	1.7	.067	10	.394	8
					30	Int.	MVS0960X30S100	★	331.7	13.059	334.7	13.181	389.7	15.343	388	15.276	1.7	.067	10	.394	8
					35	Int.	MVS0960X35S100	□	381.7	15.028	384.7	15.150	439.7	17.311	438	17.244	1.7	.067	10	.394	8
9.700	.3819		Tube Sheet		2	Ext.	MVE0970X02S100	●	44.8	1.764	44.8	1.764	90.8	3.575	89	3.504	1.8	.071	10	.394	2
					2	Int.	MVS0970X02S100PL	●	44.5	1.752	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	MVE0970X03S100	★	61.8	2.433	61.8	2.433	106.8	4.205	105	4.134	1.8	.071	10	.394	2
					3	Int.	MVS0970X03S100	●	51.8	2.039	51.8	2.039	107.8	4.244	106	4.173	1.8	.071	10	.394	6
					5	Int.	MVS0970X05S100	●	81.8	3.220	81.8	3.220	137.8	5.425	136	5.354	1.8	.071	10	.394	6
					8	Int.	MVS0970X08S100	●	111.8	4.402	111.8	4.402	167.8	6.606	166	6.535	1.8	.071	10	.394	6
					10	Int.	MVS0970X10S100	★	131.8	5.189	134.8	5.307	189.8	7.472	188	7.402	1.8	.071	10	.394	8
					15	Int.	MVS0970X15S100	●	181.8	7.157	184.8	7.276	239.8	9.441	238	9.370	1.8	.071	10	.394	8
					20	Int.	MVS0970X20S100	★	231.8	9.126	234.8	9.244	289.8	11.409	288	11.339	1.8	.071	10	.394	8
					25	Int.	MVS0970X25S100	★	281.8	11.094	284.8	11.213	339.8	13.378	338	13.307	1.8	.071	10	.394	8
					30	Int.	MVS0970X30S100	★	331.8	13.063	334.8	13.181	389.8	15.346	388	15.276	1.8	.071	10	.394	8
					35	Int.	MVS0970X35S100	□	381.8	15.031	384.8	15.150	439.8	17.315	438	17.244	1.8	.071	10	.394	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

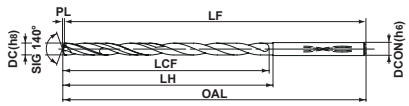
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
9.800	**.3858**		**W**		2	Ext.	**MVE0980X02S100**	●	44.8	1.764	44.8	1.764	90.8	3.575	89	3.504	1.8	.071	10	.394	2
					2	Int.	**MVS0980X02S100PL**	●	44.5	1.752	44.5	1.752	90.5	3.563	89	3.504	1.5	.059	10	.394	4
					3	Ext.	**MVE0980X03S100**	★	61.8	2.433	61.8	2.433	106.8	4.205	105	4.134	1.8	.071	10	.394	2
					3	Int.	**MVS0980X03S100**	●	51.8	2.039	51.8	2.039	107.8	4.244	106	4.173	1.8	.071	10	.394	6
					5	Int.	**MVS0980X05S100**	●	81.8	3.220	81.8	3.220	137.8	5.425	136	5.354	1.8	.071	10	.394	6
					8	Int.	**MVS0980X08S100**	●	111.8	4.402	111.8	4.402	167.8	6.606	166	6.535	1.8	.071	10	.394	6
					10	Int.	**MVS0980X10S100**	●	131.8	5.189	134.8	5.307	189.8	7.472	188	7.402	1.8	.071	10	.394	8
					15	Int.	**MVS0980X15S100**	★	181.8	7.157	184.8	7.276	239.8	9.441	238	9.370	1.8	.071	10	.394	8
					20	Int.	**MVS0980X20S100**	★	231.8	9.126	234.8	9.244	289.8	11.409	288	11.339	1.8	.071	10	.394	8
					25	Int.	**MVS0980X25S100**	★	281.8	11.094	284.8	11.213	339.8	13.378	338	13.307	1.8	.071	10	.394	8
					30	Int.	**MVS0980X30S100**	★	331.8	13.063	334.8	13.181	389.8	15.346	388	15.276	1.8	.071	10	.394	8
					35	Int.	**MVS0980X35S100**	□	381.8	15.031	384.8	15.150	439.8	17.315	438	17.244	1.8	.071	10	.394	8
9.900	**.3898**				2	Ext.	**MVE0990X02S100**	●	44.8	1.764	44.8	1.764	90.8	3.575	89	3.504	1.8	.071	10	.394	2
					2	Int.	**MVS0990X02S100PL**	●	44.6	1.756	44.6	1.756	90.6	3.567	89	3.504	1.6	.063	10	.394	4
					3	Ext.	**MVE0990X03S100**	★	61.8	2.433	61.8	2.433	106.8	4.205	105	4.134	1.8	.071	10	.394	2
					3	Int.	**MVS0990X03S100**	●	51.8	2.039	51.8	2.039	107.8	4.244	106	4.173	1.8	.071	10	.394	6
					5	Int.	**MVS0990X05S100**	●	81.8	3.220	81.8	3.220	137.8	5.425	136	5.354	1.8	.071	10	.394	6
					8	Int.	**MVS0990X08S100**	●	111.8	4.402	111.8	4.402	167.8	6.606	166	6.535	1.8	.071	10	.394	6
					10	Int.	**MVS0990X10S100**	★	131.8	5.189	134.8	5.307	189.8	7.472	188	7.402	1.8	.071	10	.394	8
					15	Int.	**MVS0990X15S100**	★	181.8	7.157	184.8	7.276	239.8	9.441	238	9.370	1.8	.071	10	.394	8
					20	Int.	**MVS0990X20S100**	★	231.8	9.126	234.8	9.244	289.8	11.409	288	11.339	1.8	.071	10	.394	8
					25	Int.	**MVS0990X25S100**	★	281.8	11.094	284.8	11.213	339.8	13.378	338	13.307	1.8	.071	10	.394	8
					30	Int.	**MVS0990X30S100**	★	331.8	13.063	334.8	13.181	389.8	15.346	388	15.276	1.8	.071	10	.394	8
					35	Int.	**MVS0990X35S100**	□	381.8	15.031	384.8	15.150	439.8	17.315	438	17.244	1.8	.071	10	.394	8
9.921	**.3906**	**25/64**		**7/16-20**	2	Ext.	**MVE0992X02S100**	●	44.8	1.764	44.9	1.768	90.8	3.575	89	3.504	1.8	.071	10	.394	2
					2	Int.	**MVS0992X02S100PL**	●	44.6	1.756	44.6	1.756	90.6	3.567	89	3.504	1.6	.063	10	.394	4
					3	Int.	**MVS0992X03S100**	●	51.8	2.039	51.9	2.043	107.8	4.244	106	4.173	1.8	.071	10	.394	6
					5	Int.	**MVS0992X05S100**	●	81.8	3.220	81.9	3.224	137.8	5.425	136	5.354	1.8	.071	10	.394	6
					8	Int.	**MVS0992X08S100**	●	111.8	4.402	111.9	4.406	167.8	6.606	166	6.535	1.8	.071	10	.394	6
					10	Int.	**MVS0992X10S100**	●	131.8	5.189	134.8	5.307	189.8	7.472	188	7.402	1.8	.071	10	.394	8
					15	Int.	**MVS0992X15S100**	●	181.8	7.157	184.8	7.276	239.8	9.441	238	9.370	1.8	.071	10	.394	8
					20	Int.	**MVS0992X20S100**	●	231.8	9.126	234.8	9.244	289.8	11.409	288	11.339	1.8	.071	10	.394	8
					25	Int.	**MVS0992X25S100**	●	281.8	11.094	284.8	11.213	339.8	13.378	338	13.307	1.8	.071	10	.394	8
					30	Int.	**MVS0992X30S100**	●	331.8	13.063	334.8	13.181	389.8	15.346	388	15.276	1.8	.071	10	.394	8
					35	Int.	**MVS0992X35S100**	●	381.8	15.031	384.8	15.150	439.8	17.315	438	17.244	1.8	.071	10	.394	8
10.000	**.3937**				2	Ext.	**MVE1000X02S100**	●	44.8	1.764	44.8	1.764	90.8	3.575	89	3.504	1.8	.071	10	.394	2
					2	Int.	**MVS1000X02S100PL**	●	44.6	1.756	44.6	1.756	90.6	3.567	89	3.504	1.6	.063	10	.394	4
					3	Ext.	**MVE1000X03S100**	★	61.8	2.433	61.8	2.433	106.8	4.205	105	4.134	1.8	.071	10	.394	2
					3	Int.	**MVS1000X03S100**	●	51.8	2.039	51.8	2.039	107.8	4.244	106	4.173	1.8	.071	10	.394	6
					5	Int.	**MVS1000X05S100**	●	81.8	3.220	81.8	3.220	137.8	5.425	136	5.354	1.8	.071	10	.394	6
					8	Int.	**MVS1000X08S100**	●	111.8	4.402	111.8	4.402	167.8	6.606	166	6.535	1.8	.071	10	.394	6
					10	Int.	**MVS1000X10S100**	●	131.8	5.189	134.8	5.307	189.8	7.472	188	7.402	1.8	.071	10	.394	8
					15	Int.	**MVS1000X15S100**	●	181.8	7.157	184.8	7.276	239.8	9.441	238	9.370	1.8	.071	10	.394	8
					20	Int.	**MVS1000X20S100**	★	231.8	9.126	234.8	9.244	289.8	11.409	288	11.339	1.8	.071	10	.394	8
					25	Int.	**MVS1000X25S100**	★	281.8	11.094	284.8	11.213	339.8	13.378	338	13.307	1.8	.071	10	.394	8
					30	Int.	**MVS1000X30S100**	★	331.8	13.063	334.8	13.181	389.8	15.346	388	15.276	1.8	.071	10	.394	8
					35	Int.	**MVS1000X35S100**	●	381.8	15.031	384.8	15.150	439.8	17.315	438	17.244	1.8	.071	10	.394	8

Solid Carbide Drills

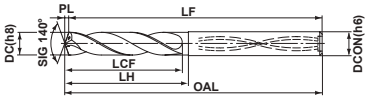
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
10.100	.3976				2	Ext.	MVE1010X02S110	★	44.8	1.764	47.8	1.882	96.8	3.811	95	3.740	1.8	.071	11	.433	2
					2	Ext.	MVE1010X02S120	●	44.8	1.764	47.8	1.882	96.8	3.811	95	3.740	1.8	.071	12	.472	2
					2	Int.	MVS1010X02S110PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	11	.433	4
					2	Int.	MVS1010X02S120PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	12	.472	4
					3	Ext.	MVE1010X03S110	★	67.8	2.669	70.8	2.787	115.8	4.559	114	4.488	1.8	.071	11	.433	2
					3	Ext.	MVE1010X03S120	★	67.8	2.669	70.8	2.787	115.8	4.559	114	4.488	1.8	.071	12	.472	2
					3	Int.	MVS1010X03S110	★	54.3	2.138	56.8	2.236	117.8	4.638	116	4.567	1.8	.071	11	.433	6
					3	Int.	MVS1010X03S120	●	54.3	2.138	56.8	2.236	117.8	4.638	116	4.567	1.8	.071	12	.472	6
					5	Int.	MVS1010X05S110	★	85.8	3.378	89.8	3.535	150.8	5.937	149	5.866	1.8	.071	11	.433	6
					5	Int.	MVS1010X05S120	●	85.8	3.378	89.8	3.535	150.8	5.937	149	5.866	1.8	.071	12	.472	6
					8	Int.	MVS1010X08S110	★	117.8	4.638	122.8	4.835	183.8	7.236	182	7.165	1.8	.071	11	.433	6
					8	Int.	MVS1010X08S120	●	117.8	4.638	122.8	4.835	183.8	7.236	182	7.165	1.8	.071	12	.472	6
					10	Int.	MVS1010X10S110	★	138.8	5.465	141.8	5.583	202.8	7.984	201	7.913	1.8	.071	11	.433	8
					10	Int.	MVS1010X10S120	●	138.8	5.465	141.8	5.583	202.8	7.984	201	7.913	1.8	.071	12	.472	8
					15	Int.	MVS1010X15S110	★	190.8	7.512	193.8	7.630	254.8	10.031	253	9.961	1.8	.071	11	.433	8
					15	Int.	MVS1010X15S120	●	190.8	7.512	193.8	7.630	254.8	10.031	253	9.961	1.8	.071	12	.472	8
					20	Int.	MVS1010X20S110	★	243.8	9.598	246.8	9.717	307.8	12.118	306	12.047	1.8	.071	11	.433	8
					20	Int.	MVS1010X20S120	●	243.8	9.598	246.8	9.717	307.8	12.118	306	12.047	1.8	.071	12	.472	8
					25	Int.	MVS1010X25S110	★	295.8	11.646	298.8	11.764	359.8	14.165	358	14.094	1.8	.071	11	.433	8
					25	Int.	MVS1010X25S120	●	295.8	11.646	298.8	11.764	359.8	14.165	358	14.094	1.8	.071	12	.472	8
10.200	.4016			M12x1.75	2	Ext.	MVE1020X02S110	★	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	MVE1020X02S120	●	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1020X02S110PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	11	.433	4
					2	Int.	MVS1020X02S120PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	12	.472	4
					3	Ext.	MVE1020X03S110	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	MVE1020X03S120	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	MVS1020X03S110	★	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	MVS1020X03S120	●	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1020X05S110	★	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	MVS1020X05S120	●	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1020X08S110	★	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	MVS1020X08S120	●	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1020X10S110	★	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	11	.433	8
					10	Int.	MVS1020X10S120	●	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	12	.472	8
					15	Int.	MVS1020X15S110	★	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	11	.433	8
					15	Int.	MVS1020X15S120	●	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	12	.472	8
					20	Int.	MVS1020X20S110	★	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	11	.433	8
					20	Int.	MVS1020X20S120	●	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	12	.472	8
					25	Int.	MVS1020X25S110	★	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	11	.433	8
					25	Int.	MVS1020X25S120	●	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	12	.472	8

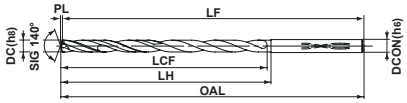
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
10.300	.4055				2	Ext.	MVE1030X02S110	★	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	MVE1030X02S120	●	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1030X02S110PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	11	.433	4
					2	Int.	MVS1030X02S120PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	12	.472	4
					3	Ext.	MVE1030X03S110	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	MVE1030X03S120	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	MVS1030X03S110	★	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	MVS1030X03S120	●	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1030X05S110	★	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	MVS1030X05S120	●	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1030X08S110	★	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	MVS1030X08S120	●	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1030X10S110	★	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	11	.433	8
					10	Int.	MVS1030X10S120	●	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	12	.472	8
					15	Int.	MVS1030X15S110	★	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	11	.433	8
					15	Int.	MVS1030X15S120	●	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	12	.472	8
					20	Int.	MVS1030X20S110	★	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	11	.433	8
					20	Int.	MVS1030X20S120	●	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	12	.472	8
					25	Int.	MVS1030X25S110	★	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	11	.433	8
					25	Int.	MVS1030X25S120	●	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	12	.472	8
10.317	.4062	13/32			2	Ext.	MVE1032X02S120	●	44.9	1.768	46.7	1.839	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1032X02S120PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	12	.472	4
					3	Int.	MVS1032X03S120	●	54.4	2.142	56.2	2.213	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1032X05S120	●	85.9	3.382	87.7	3.453	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1032X08S120	●	117.9	4.642	119.7	4.713	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1032X10S120	●	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	12	.472	8
					15	Int.	MVS1032X15S120	●	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	12	.472	8
					20	Int.	MVS1032X20S120	●	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	12	.472	8
					25	Int.	MVS1032X25S120	●	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	12	.472	8
10.400	.4094				2	Ext.	MVE1040X02S110	★	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	MVE1040X02S120	●	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1040X02S110PL	★	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	11	.433	4
					2	Int.	MVS1040X02S120PL	●	44.6	1.756	47.6	1.874	96.6	3.803	95	3.740	1.6	.063	12	.472	4
					3	Ext.	MVE1040X03S110	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	MVE1040X03S120	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	MVS1040X03S110	★	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	MVS1040X03S120	●	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1040X05S110	★	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	MVS1040X05S120	●	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1040X08S110	★	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	MVS1040X08S120	●	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1040X10S110	★	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	11	.433	8
					10	Int.	MVS1040X10S120	●	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	12	.472	8
					15	Int.	MVS1040X15S110	★	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	11	.433	8
					15	Int.	MVS1040X15S120	●	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	12	.472	8
					20	Int.	MVS1040X20S110	★	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	11	.433	8
					20	Int.	MVS1040X20S120	●	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	12	.472	8
					25	Int.	MVS1040X25S110	★	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	11	.433	8
					25	Int.	MVS1040X25S120	●	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	12	.472	8

Solid Carbide Drills

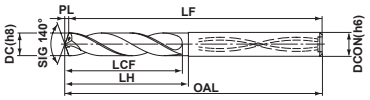
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
10.500	.4134		Z		2	Ext.	MVE1050X02S110	★	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	MVE1050X02S120	●	44.9	1.768	47.9	1.886	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1050X02S110PL	★	44.7	1.760	47.7	1.878	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	MVS1050X02S120PL	●	44.7	1.760	47.7	1.878	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	MVE1050X03S110	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	MVE1050X03S120	★	67.9	2.673	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	MVS1050X03S110	★	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	MVS1050X03S120	●	54.4	2.142	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1050X05S110	★	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	MVS1050X05S120	●	85.9	3.382	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1050X08S110	★	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	MVS1050X08S120	●	117.9	4.642	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1050X10S110	★	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	11	.433	8
					10	Int.	MVS1050X10S120	●	138.9	5.469	141.9	5.587	202.9	7.988	201	7.913	1.9	.075	12	.472	8
					15	Int.	MVS1050X15S110	★	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	11	.433	8
					15	Int.	MVS1050X15S120	●	190.9	7.516	193.9	7.634	254.9	10.035	253	9.961	1.9	.075	12	.472	8
					20	Int.	MVS1050X20S110	★	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	11	.433	8
					20	Int.	MVS1050X20S120	●	243.9	9.602	246.9	9.720	307.9	12.122	306	12.047	1.9	.075	12	.472	8
					25	Int.	MVS1050X25S110	★	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	11	.433	8
					25	Int.	MVS1050X25S120	●	295.9	11.650	298.9	11.768	359.9	14.169	358	14.094	1.9	.075	12	.472	8
10.600	.4173				2	Ext.	MVE1060X02S110	★	48.9	1.925	48.9	1.925	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	MVE1060X02S120	●	48.9	1.925	49.9	1.965	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	MVS1060X02S110PL	★	48.7	1.917	48.7	1.917	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	MVS1060X02S120PL	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	MVE1060X03S110	★	69.9	2.752	69.9	2.752	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	MVE1060X03S120	★	69.9	2.752	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	MVS1060X03S110	★	56.9	2.240	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	MVS1060X03S120	●	56.9	2.240	57.9	2.280	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	MVS1060X05S110	★	89.9	3.539	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	MVS1060X05S120	●	89.9	3.539	90.9	3.579	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	MVS1060X08S110	★	122.9	4.839	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	MVS1060X08S120	●	122.9	4.839	123.9	4.878	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	MVS1060X10S110	★	144.9	5.705	147.9	5.823	208.9	8.224	207	8.150	1.9	.075	11	.433	8
					10	Int.	MVS1060X10S120	●	144.9	5.705	147.9	5.823	208.9	8.224	207	8.150	1.9	.075	12	.472	8
					15	Int.	MVS1060X15S110	★	199.9	7.870	202.9	7.988	263.9	10.390	262	10.315	1.9	.075	11	.433	8
					15	Int.	MVS1060X15S120	●	199.9	7.870	202.9	7.988	263.9	10.390	262	10.315	1.9	.075	12	.472	8
					20	Int.	MVS1060X20S110	★	254.9	10.035	257.9	10.154	318.9	12.555	317	12.480	1.9	.075	11	.433	8
					20	Int.	MVS1060X20S120	●	254.9	10.035	257.9	10.154	318.9	12.555	317	12.480	1.9	.075	12	.472	8
					25	Int.	MVS1060X25S110	★	309.9	12.201	312.9	12.319	373.9	14.720	372	14.646	1.9	.075	11	.433	8
					25	Int.	MVS1060X25S120	●	309.9	12.201	312.9	12.319	373.9	14.720	372	14.646	1.9	.075	12	.472	8

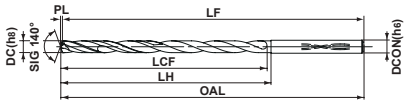
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
10.700	**.4213**				2	Ext.	**MVE1070X02S110**	★	48.9	1.925	48.9	1.925	96.9	3.815	95	3.740	1.9	.075	11	.433	2
					2	Ext.	**MVE1070X02S120**	●	48.9	1.925	49.9	1.965	96.9	3.815	95	3.740	1.9	.075	12	.472	2
					2	Int.	**MVS1070X02S110PL**	★	48.7	1.917	48.7	1.917	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	**MVS1070X02S120PL**	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	**MVE1070X03S110**	★	69.9	2.752	69.9	2.752	115.9	4.563	114	4.488	1.9	.075	11	.433	2
					3	Ext.	**MVE1070X03S120**	★	69.9	2.752	70.9	2.791	115.9	4.563	114	4.488	1.9	.075	12	.472	2
					3	Int.	**MVS1070X03S110**	★	56.9	2.240	56.9	2.240	117.9	4.642	116	4.567	1.9	.075	11	.433	6
					3	Int.	**MVS1070X03S120**	●	56.9	2.240	57.9	2.280	117.9	4.642	116	4.567	1.9	.075	12	.472	6
					5	Int.	**MVS1070X05S110**	★	89.9	3.539	89.9	3.539	150.9	5.941	149	5.866	1.9	.075	11	.433	6
					5	Int.	**MVS1070X05S120**	●	89.9	3.539	90.9	3.579	150.9	5.941	149	5.866	1.9	.075	12	.472	6
					8	Int.	**MVS1070X08S110**	★	122.9	4.839	122.9	4.839	183.9	7.240	182	7.165	1.9	.075	11	.433	6
					8	Int.	**MVS1070X08S120**	●	122.9	4.839	123.9	4.878	183.9	7.240	182	7.165	1.9	.075	12	.472	6
					10	Int.	**MVS1070X10S110**	★	144.9	5.705	147.9	5.827	208.9	8.224	207	8.150	1.9	.075	11	.433	8
					10	Int.	**MVS1070X10S120**	●	144.9	5.705	147.9	5.823	208.9	8.224	207	8.150	1.9	.075	12	.472	8
					15	Int.	**MVS1070X15S110**	★	199.9	7.870	202.9	7.992	263.9	10.390	262	10.315	1.9	.075	11	.433	8
					15	Int.	**MVS1070X15S120**	●	199.9	7.870	202.9	7.988	263.9	10.390	262	10.315	1.9	.075	12	.472	8
					20	Int.	**MVS1070X20S110**	★	254.9	10.035	257.9	10.157	318.9	12.555	317	12.480	1.9	.075	11	.433	8
					20	Int.	**MVS1070X20S120**	●	254.9	10.035	257.9	10.154	318.9	12.555	317	12.480	1.9	.075	12	.472	8
					25	Int.	**MVS1070X25S110**	★	309.9	12.201	312.9	12.323	373.9	14.720	372	14.646	1.9	.075	11	.433	8
					25	Int.	**MVS1070X25S120**	●	309.9	12.201	312.9	12.319	373.9	14.720	372	14.646	1.9	.075	12	.472	8
10.716	**.4219**	**27/64**		**1/2-13**	2	Ext.	**MVE1072X02S120**	●	49.0	1.929	50.4	1.984	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	**MVS1072X02S120PL**	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Int.	**MVS1072X03S120**	●	57.0	2.244	58.4	2.299	118.0	4.646	116	4.567	2.0	.079	12	.472	6
					5	Int.	**MVS1072X05S120**	●	90.0	3.543	91.4	3.598	151.0	5.945	149	5.866	2.0	.079	12	.472	6
					8	Int.	**MVS1072X08S120**	●	123.0	4.843	124.4	4.898	184.0	7.244	182	7.165	2.0	.079	12	.472	6
					10	Int.	**MVS1072X10S120**	●	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	12	.472	8
					15	Int.	**MVS1072X15S120**	●	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	12	.472	8
					20	Int.	**MVS1072X20S120**	●	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	12	.472	8
					25	Int.	**MVS1072X25S120**	●	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	12	.472	8
10.800	**.4252**			**M12x1.25**	2	Ext.	**MVE1080X02S110**	★	49.0	1.929	49.0	1.929	97.0	3.819	95	3.740	2.0	.079	11	.433	2
					2	Ext.	**MVE1080X02S120**	●	49.0	1.929	50.0	1.969	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	**MVS1080X02S110PL**	★	48.7	1.917	48.7	1.917	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	**MVS1080X02S120PL**	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	**MVE1080X03S110**	★	70.0	2.756	70.0	2.756	116.0	4.567	114	4.488	2.0	.079	11	.433	2
					3	Ext.	**MVE1080X03S120**	★	70.0	2.756	71.0	2.795	116.0	4.567	114	4.488	2.0	.079	12	.472	2
					3	Int.	**MVS1080X03S110**	★	57.0	2.244	57.0	2.244	118.0	4.646	116	4.567	2.0	.079	11	.433	6
					3	Int.	**MVS1080X03S120**	●	57.0	2.244	58.0	2.283	118.0	4.646	116	4.567	2.0	.079	12	.472	6
					5	Int.	**MVS1080X05S110**	★	90.0	3.543	90.0	3.543	151.0	5.945	149	5.866	2.0	.079	11	.433	6
					5	Int.	**MVS1080X05S120**	●	90.0	3.543	91.0	3.583	151.0	5.945	149	5.866	2.0	.079	12	.472	6
					8	Int.	**MVS1080X08S110**	★	123.0	4.843	123.0	4.843	184.0	7.244	182	7.165	2.0	.079	11	.433	6
					8	Int.	**MVS1080X08S120**	●	123.0	4.843	124.0	4.882	184.0	7.244	182	7.165	2.0	.079	12	.472	6
					10	Int.	**MVS1080X10S110**	★	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	11	.433	8
					10	Int.	**MVS1080X10S120**	●	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	12	.472	8
					15	Int.	**MVS1080X15S110**	★	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	11	.433	8
					15	Int.	**MVS1080X15S120**	●	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	12	.472	8
					20	Int.	**MVS1080X20S110**	★	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	11	.433	8
					20	Int.	**MVS1080X20S120**	●	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	12	.472	8
					25	Int.	**MVS1080X25S110**	★	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	11	.433	8
					25	Int.	**MVS1080X25S120**	●	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	12	.472	8

Solid Carbide Drills

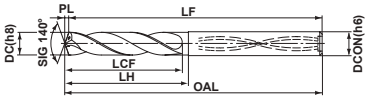
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
					2	Ext.	MVE1090X02S110	★	49.0	1.929	49.0	1.929	97.0	3.819	95	3.740	2.0	.079	11	.433	2
					2	Ext.	MVE1090X02S120	●	49.0	1.929	50.0	1.969	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	MVS1090X02S110PL	★	48.7	1.917	48.7	1.917	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	MVS1090X02S120PL	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	MVE1090X03S110	★	70.0	2.756	70.0	2.756	116.0	4.567	114	4.488	2.0	.079	11	.433	2
					3	Ext.	MVE1090X03S120	★	70.0	2.756	71.0	2.795	116.0	4.567	114	4.488	2.0	.079	12	.472	2
					3	Int.	MVS1090X03S110	★	57.0	2.244	57.0	2.244	118.0	4.646	116	4.567	2.0	.079	11	.433	6
					3	Int.	MVS1090X03S120	●	57.0	2.244	58.0	2.283	118.0	4.646	116	4.567	2.0	.079	12	.472	6
					5	Int.	MVS1090X05S110	★	90.0	3.543	90.0	3.543	151.0	5.945	149	5.866	2.0	.079	11	.433	6
10.900	.4291				5	Int.	MVS1090X05S120	●	90.0	3.543	91.0	3.583	151.0	5.945	149	5.866	2.0	.079	12	.472	6
					8	Int.	MVS1090X08S110	★	123.0	4.843	123.0	4.843	184.0	7.244	182	7.165	2.0	.079	11	.433	6
					8	Int.	MVS1090X08S120	●	123.0	4.843	124.0	4.882	184.0	7.244	182	7.165	2.0	.079	12	.472	6
					10	Int.	MVS1090X10S110	★	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	11	.433	8
					10	Int.	MVS1090X10S120	●	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	12	.472	8
					15	Int.	MVS1090X15S110	★	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	11	.433	8
					15	Int.	MVS1090X15S120	●	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	12	.472	8
					20	Int.	MVS1090X20S110	★	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	11	.433	8
					20	Int.	MVS1090X20S120	●	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	12	.472	8
					25	Int.	MVS1090X25S110	★	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	11	.433	8
					25	Int.	MVS1090X25S120	●	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	11	.433	8
					2	Ext.	MVE1100X02S110	★	49.0	1.929	49.0	1.929	97.0	3.819	95	3.740	2.0	.079	11	.433	2
					2	Ext.	MVE1100X02S120	●	49.0	1.929	50.0	1.969	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	MVS1100X02S110PL	★	48.7	1.917	48.7	1.917	96.7	3.807	95	3.740	1.7	.067	11	.433	4
					2	Int.	MVS1100X02S120PL	●	48.7	1.917	49.7	1.957	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	MVE1100X03S110	★	70.0	2.756	70.0	2.756	116.0	4.567	114	4.488	2.0	.079	11	.433	2
					3	Ext.	MVE1100X03S120	★	70.0	2.756	71.0	2.795	116.0	4.567	114	4.488	2.0	.079	12	.472	2
					3	Int.	MVS1100X03S110	★	57.0	2.244	57.0	2.244	118.0	4.646	116	4.567	2.0	.079	11	.433	6
					3	Int.	MVS1100X03S120	●	57.0	2.244	58.0	2.283	118.0	4.646	116	4.567	2.0	.079	12	.472	6
					5	Int.	MVS1100X05S110	★	90.0	3.543	90.0	3.543	151.0	5.945	149	5.866	2.0	.079	11	.433	6
11.000	.4331				5	Int.	MVS1100X05S120	●	90.0	3.543	91.0	3.583	151.0	5.945	149	5.866	2.0	.079	12	.472	6
					8	Int.	MVS1100X08S110	★	123.0	4.843	123.0	4.843	184.0	7.244	182	7.165	2.0	.079	11	.433	6
					8	Int.	MVS1100X08S120	●	123.0	4.843	124.0	4.882	184.0	7.244	182	7.165	2.0	.079	12	.472	6
					10	Int.	MVS1100X10S110	★	145.0	5.709	147.0	5.827	209.0	8.228	207	8.150	2.0	.079	11	.433	8
					10	Int.	MVS1100X10S120	●	145.0	5.709	148.0	5.827	209.0	8.228	207	8.150	2.0	.079	12	.472	8
					15	Int.	MVS1100X15S110	★	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	11	.433	8
					15	Int.	MVS1100X15S120	●	200.0	7.874	203.0	7.992	264.0	10.394	262	10.315	2.0	.079	12	.472	8
					20	Int.	MVS1100X20S110	★	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	11	.433	8
					20	Int.	MVS1100X20S120	●	255.0	10.039	258.0	10.157	319.0	12.559	317	12.480	2.0	.079	12	.472	8
					25	Int.	MVS1100X25S110	★	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	11	.433	8
					25	Int.	MVS1100X25S120	●	310.0	12.205	313.0	12.323	374.0	14.724	372	14.646	2.0	.079	12	.472	8
					2	Ext.	MVE1110X02S120	●	49.0	1.929	52.0	2.047	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	MVS1110X02S120PL	●	48.7	1.917	51.7	2.035	96.7	3.807	95	3.740	1.7	.067	12	.472	4
					3	Ext.	MVE1110X03S120	★	73.0	2.874	76.0	2.992	123.0	4.843	121	4.764	2.0	.079	12	.472	2
					3	Int.	MVS1110X03S120	●	59.5	2.343	62.0	2.441	124.0	4.882	122	4.803	2.0	.079	12	.472	6
					5	Int.	MVS1110X05S120	●	94.0	3.701	98.0	3.858	160.0	6.299	158	6.220	2.0	.079	12	.472	6
11.100	.4370				8	Int.	MVS1110X08S120	●	129.0	5.079	134.0	5.276	196.0	7.717	194	7.638	2.0	.079	12	.472	6
					10	Int.	MVS1110X10S120	★	152.0	5.984	155.0	6.102	217.0	8.543	215	8.465	2.0	.079	12	.472	8
					15	Int.	MVS1110X15S120	★	209.0	8.228	212.0	8.346	274.0	10.787	272	10.709	2.0	.079	12	.472	8
					20	Int.	MVS1110X20S120	★	267.0	10.512	270.0	10.630	332.0	13.071	330	12.992	2.0	.079	12	.472	8
					25	Int.	MVS1110X25S120	★	324.0	12.756	327.0	12.874	389.0	15.315	387	15.236	2.0	.079	12	.472	8

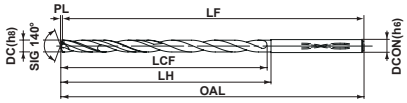
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
11.113	**.4375**	**7/16**			2	Ext.	**MVE1111X02S120**	●	49.0	1.929	52.0	2.047	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	**MVS1111X02S120PL**	●	48.8	1.921	51.8	2.039	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Int.	**MVS1111X03S120**	●	59.5	2.343	62.0	2.441	124.0	4.882	122	4.803	2.0	.079	12	.472	6
					5	Int.	**MVS1111X05S120**	●	94.0	3.701	98.0	3.858	160.0	6.299	158	6.220	2.0	.079	12	.472	6
					8	Int.	**MVS1111X08S120**	●	129.0	5.079	134.0	5.276	196.0	7.717	194	7.638	2.0	.079	12	.472	6
					10	Int.	**MVS1111X10S120**	●	152.0	5.984	155.0	6.102	217.0	8.543	215	8.465	2.0	.079	12	.472	8
					15	Int.	**MVS1111X15S120**	●	209.0	8.228	212.0	8.346	274.0	10.787	272	10.709	2.0	.079	12	.472	8
					20	Int.	**MVS1111X20S120**	●	267.0	10.512	270.0	10.630	332.0	13.071	330	12.992	2.0	.079	12	.472	8
					25	Int.	**MVS1111X25S120**	●	324.0	12.756	327.0	12.874	389.0	15.315	387	15.236	2.0	.079	12	.472	8
11.200	**.4409**				2	Ext.	**MVE1120X02S120**	●	49.0	1.929	52.0	2.047	97.0	3.819	95	3.740	2.0	.079	12	.472	2
					2	Int.	**MVS1120X02S120PL**	●	48.8	1.921	51.8	2.039	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	**MVE1120X03S120**	★	73.0	2.874	76.0	2.992	123.0	4.843	121	4.764	2.0	.079	12	.472	2
					3	Int.	**MVS1120X03S120**	●	59.5	2.343	62.0	2.441	124.0	4.882	122	4.803	2.0	.079	12	.472	6
					5	Int.	**MVS1120X05S120**	●	94.0	3.701	98.0	3.858	160.0	6.299	158	6.220	2.0	.079	12	.472	6
					8	Int.	**MVS1120X08S120**	●	129.0	5.079	134.0	5.276	196.0	7.717	194	7.638	2.0	.079	12	.472	6
					10	Int.	**MVS1120X10S120**	★	152.0	5.984	155.0	6.102	217.0	8.543	215	8.465	2.0	.079	12	.472	8
					15	Int.	**MVS1120X15S120**	★	209.0	8.228	212.0	8.346	274.0	10.787	272	10.709	2.0	.079	12	.472	8
					20	Int.	**MVS1120X20S120**	★	267.0	10.512	270.0	10.630	332.0	13.071	330	12.992	2.0	.079	12	.472	8
					25	Int.	**MVS1120X25S120**	★	324.0	12.756	327.0	12.874	389.0	15.315	387	15.236	2.0	.079	12	.472	8
11.300	**.4449**				2	Ext.	**MVE1130X02S120**	●	49.1	1.933	52.1	2.051	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	**MVS1130X02S120PL**	●	48.8	1.921	51.8	2.039	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	**MVE1130X03S120**	★	73.1	2.878	76.1	2.996	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	**MVS1130X03S120**	●	59.6	2.346	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	**MVS1130X05S120**	●	94.1	3.705	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	**MVS1130X08S120**	●	129.1	5.083	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	**MVS1130X10S120**	★	152.1	5.988	155.1	6.106	217.1	8.547	215	8.465	2.1	.083	12	.472	8
					15	Int.	**MVS1130X15S120**	★	209.1	8.232	212.1	8.350	274.1	10.791	272	10.709	2.1	.083	12	.472	8
					20	Int.	**MVS1130X20S120**	★	267.1	10.516	270.1	10.634	332.1	13.075	330	12.992	2.1	.083	12	.472	8
					25	Int.	**MVS1130X25S120**	★	324.1	12.760	327.1	12.878	389.1	15.319	387	15.236	2.1	.083	12	.472	8
11.400	**.4488**				2	Ext.	**MVE1140X02S120**	●	49.1	1.933	52.1	2.051	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	**MVS1140X02S120PL**	●	48.8	1.921	51.8	2.039	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	**MVE1140X03S120**	★	73.1	2.878	76.1	2.996	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	**MVS1140X03S120**	●	59.6	2.346	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	**MVS1140X05S120**	●	94.1	3.705	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	**MVS1140X08S120**	●	129.1	5.083	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	**MVS1140X10S120**	★	152.1	5.988	155.1	6.106	217.1	8.547	215	8.465	2.1	.083	12	.472	8
					15	Int.	**MVS1140X15S120**	★	209.1	8.232	212.1	8.350	274.1	10.791	272	10.709	2.1	.083	12	.472	8
					20	Int.	**MVS1140X20S120**	★	267.1	10.516	270.1	10.634	332.1	13.075	330	12.992	2.1	.083	12	.472	8
					25	Int.	**MVS1140X25S120**	★	324.1	12.760	327.1	12.878	389.1	15.319	387	15.236	2.1	.083	12	.472	8
11.500	**.4528**				2	Ext.	**MVE1150X02S120**	●	49.1	1.933	52.1	2.051	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	**MVS1150X02S120PL**	●	48.8	1.921	51.8	2.039	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	**MVE1150X03S120**	★	73.1	2.878	76.1	2.996	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	**MVS1150X03S120**	●	59.6	2.346	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	**MVS1150X05S120**	●	94.1	3.705	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	**MVS1150X08S120**	●	129.1	5.083	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	**MVS1150X10S120**	★	152.1	5.988	155.1	6.106	217.1	8.547	215	8.465	2.1	.083	12	.472	8
					15	Int.	**MVS1150X15S120**	★	209.1	8.232	212.1	8.350	274.1	10.791	272	10.709	2.1	.083	12	.472	8
					20	Int.	**MVS1150X20S120**	★	267.1	10.516	270.1	10.634	332.1	13.075	330	12.992	2.1	.083	12	.472	8
					25	Int.	**MVS1150X25S120**	★	324.1	12.760	327.1	12.878	389.1	15.319	387	15.236	2.1	.083	12	.472	8

Solid Carbide Drills

MVE/MVS

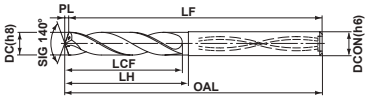
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
11.509	.4531	29/64		1/2-20	2	Ext.	MVE1151X02S120	●	49.1	1.933	49.1	1.933	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	MVS1151X02S120PL	●	48.8	1.921	48.8	1.921	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Int.	MVS1151X03S120	●	62.1	2.445	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	MVS1151X05S120	●	98.1	3.862	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	MVS1151X08S120	●	134.1	5.280	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	MVS1151X10S120	●	158.1	6.224	161.1	6.343	223.1	8.783	221	8.701	2.1	.083	12	.472	8
					15	Int.	MVS1151X15S120	●	218.1	8.587	221.1	8.705	283.1	11.146	281	11.063	2.1	.083	12	.472	8
					20	Int.	MVS1151X20S120	●	278.1	10.949	281.1	11.067	343.1	13.508	341	13.425	2.1	.083	12	.472	8
					25	Int.	MVS1151X25S120	●	338.1	13.311	341.1	13.429	403.1	15.870	401	15.787	2.1	.083	12	.472	8
11.600	.4567				2	Ext.	MVE1160X02S120	●	49.1	1.933	49.1	1.933	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	MVS1160X02S120PL	●	48.8	1.921	48.8	1.921	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	MVE1160X03S120	★	75.1	2.957	75.1	2.957	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	MVS1160X03S120	●	62.1	2.445	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	MVS1160X05S120	●	98.1	3.862	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	MVS1160X08S120	●	134.1	5.280	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	MVS1160X10S120	★	158.1	6.224	161.1	6.343	223.1	8.783	221	8.701	2.1	.083	12	.472	8
					15	Int.	MVS1160X15S120	★	218.1	8.587	221.1	8.705	283.1	11.146	281	11.063	2.1	.083	12	.472	8
					20	Int.	MVS1160X20S120	★	278.1	10.949	281.1	11.067	343.1	13.508	341	13.425	2.1	.083	12	.472	8
					25	Int.	MVS1160X25S120	★	338.1	13.311	341.1	13.429	403.1	15.870	401	15.787	2.1	.083	12	.472	8
11.700	.4606				2	Ext.	MVE1170X02S120	●	49.1	1.933	49.1	1.933	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	MVS1170X02S120PL	●	48.8	1.921	48.8	1.921	96.8	3.811	95	3.740	1.8	.071	12	.472	4
					3	Ext.	MVE1170X03S120	★	75.1	2.957	75.1	2.957	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	MVS1170X03S120	●	62.1	2.445	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	MVS1170X05S120	●	98.1	3.862	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	MVS1170X08S120	●	134.1	5.280	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	MVS1170X10S120	★	158.1	6.224	161.1	6.343	223.1	8.783	221	8.701	2.1	.083	12	.472	8
					15	Int.	MVS1170X15S120	★	218.1	8.587	221.1	8.705	283.1	11.146	281	11.063	2.1	.083	12	.472	8
					20	Int.	MVS1170X20S120	★	278.1	10.949	281.1	11.067	343.1	13.508	341	13.425	2.1	.083	12	.472	8
					25	Int.	MVS1170X25S120	★	338.1	13.311	341.1	13.429	403.1	15.870	401	15.787	2.1	.083	12	.472	8
11.800	.4646				2	Ext.	MVE1180X02S120	●	49.1	1.933	49.1	1.933	97.1	3.823	95	3.740	2.1	.083	12	.472	2
					2	Int.	MVS1180X02S120PL	●	48.9	1.925	48.9	1.925	96.9	3.815	95	3.740	1.9	.075	12	.472	4
					3	Ext.	MVE1180X03S120	★	75.1	2.957	75.1	2.957	123.1	4.846	121	4.764	2.1	.083	12	.472	2
					3	Int.	MVS1180X03S120	●	62.1	2.445	62.1	2.445	124.1	4.886	122	4.803	2.1	.083	12	.472	6
					5	Int.	MVS1180X05S120	●	98.1	3.862	98.1	3.862	160.1	6.303	158	6.220	2.1	.083	12	.472	6
					8	Int.	MVS1180X08S120	●	134.1	5.280	134.1	5.280	196.1	7.720	194	7.638	2.1	.083	12	.472	6
					10	Int.	MVS1180X10S120	★	158.1	6.224	161.1	6.346	223.1	8.783	221	8.701	2.1	.083	12	.472	8
					15	Int.	MVS1180X15S120	★	218.1	8.587	221.1	8.709	283.1	11.146	281	11.063	2.1	.083	12	.472	8
					20	Int.	MVS1180X20S120	★	278.1	10.949	281.1	11.071	343.1	13.508	341	13.425	2.1	.083	12	.472	8
					25	Int.	MVS1180X25S120	★	338.1	13.311	341.1	13.433	403.1	15.870	401	15.787	2.1	.083	12	.472	8
11.900	.4685	15/32			2	Ext.	MVE1190X02S120	●	49.2	1.937	49.2	1.937	97.2	3.827	95	3.740	2.2	.087	12	.472	2
					2	Int.	MVS1190X02S120PL	●	48.9	1.925	48.9	1.925	96.9	3.815	95	3.740	1.9	.075	12	.472	4
					3	Ext.	MVE1190X03S120	★	75.2	2.961	75.2	2.961	123.2	4.850	121	4.764	2.2	.087	12	.472	2
					3	Int.	MVS1190X03S120	●	62.2	2.449	62.2	2.449	124.2	4.890	122	4.803	2.2	.087	12	.472	6
					5	Int.	MVS1190X05S120	●	98.2	3.866	98.2	3.866	160.2	6.307	158	6.220	2.2	.087	12	.472	6
					8	Int.	MVS1190X08S120	●	134.2	5.283	134.2	5.283	196.2	7.724	194	7.638	2.2	.087	12	.472	6
					10	Int.	MVS1190X10S120	★	158.2	6.228	161.2	6.346	223.2	8.787	221	8.701	2.2	.087	12	.472	8
					15	Int.	MVS1190X15S120	★	218.2	8.591	221.2	8.709	283.2	11.150	281	11.063	2.2	.087	12	.472	8
					20	Int.	MVS1190X20S120	★	278.2	10.953	281.2	11.071	343.2	13.512	341	13.425	2.2	.087	12	.472	8
					25	Int.	MVS1190X25S120	★	338.2	13.315	341.2	13.433	403.2	15.874	401	15.787	2.2	.087	12	.472	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

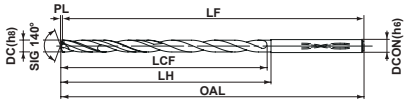
● : **USA Stock** ★ : **Stocked in Japan**

□ : **Non stock, produced to order only.**

Type6



Type8



DC					l/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
12.000	.4724			M14x2.0	2	Ext.	MVE1200X02S120	●	49.2	1.937	49.2	1.937	97.2	3.827	95	3.740	2.2	.087	12	.472	2
					2	Int.	MVS1200X02S120PL	●	48.9	1.925	48.9	1.925	96.9	3.815	95	3.740	1.9	.075	12	.472	4
					3	Ext.	MVE1200X03S120	★	75.2	2.961	75.2	2.961	123.2	4.850	121	4.764	2.2	.087	12	.472	2
					3	Int.	MVS1200X03S120	●	62.2	2.449	62.2	2.449	124.2	4.890	122	4.803	2.2	.087	12	.472	6
					5	Int.	MVS1200X05S120	●	98.2	3.866	98.2	3.866	160.2	6.307	158	6.220	2.2	.087	12	.472	6
					8	Int.	MVS1200X08S120	●	134.2	5.283	134.2	5.283	196.2	7.724	194	7.638	2.2	.087	12	.472	6
					10	Int.	MVS1200X10S120	●	158.2	6.228	161.2	6.346	223.2	8.787	221	8.701	2.2	.087	12	.472	8
					15	Int.	MVS1200X15S120	★	218.2	8.591	221.2	8.709	283.2	11.150	281	11.063	2.2	.087	12	.472	8
					20	Int.	MVS1200X20S120	★	278.2	10.953	281.2	11.071	343.2	13.512	341	13.425	2.2	.087	12	.472	8
					25	Int.	MVS1200X25S120	★	338.2	13.315	341.2	13.433	403.2	15.874	401	15.787	2.2	.087	12	.472	8
12.100	.4764				2	Ext.	MVE1210X02S130	★	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	13	.512	2
					2	Ext.	MVE1210X02S140	●	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	14	.551	2
					2	Int.	MVS1210X02S130PL	★	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	13	.512	4
					2	Int.	MVS1210X02S140PL	●	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	14	.551	4
					3	Ext.	MVE1210X03S130	★	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	13	.512	2
					3	Ext.	MVE1210X03S140	□	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	14	.551	2
					3	Int.	MVS1210X03S130	★	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	13	.512	6
					3	Int.	MVS1210X03S140	●	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	14	.551	6
					5	Int.	MVS1210X05S130	★	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	13	.512	6
					5	Int.	MVS1210X05S140	●	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	14	.551	6
					8	Int.	MVS1210X08S130	□	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	13	.512	6
					8	Int.	MVS1210X08S140	●	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	14	.551	6
					10	Int.	MVS1210X10S130	□	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	13	.512	8
					10	Int.	MVS1210X10S140	●	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	14	.551	8
					15	Int.	MVS1210X15S130	□	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	13	.512	8
					15	Int.	MVS1210X15S140	●	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	14	.551	8
					20	Int.	MVS1210X20S130	□	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	13	.512	8
					20	Int.	MVS1210X20S140	★	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	14	.551	8
12.200	.4803				2	Ext.	MVE1220X02S130	★	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	13	.512	2
					2	Ext.	MVE1220X02S140	●	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	14	.551	2
					2	Int.	MVS1220X02S130PL	★	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	13	.512	4
					2	Int.	MVS1220X02S140PL	●	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	14	.551	4
					3	Ext.	MVE1220X03S130	★	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	13	.512	2
					3	Ext.	MVE1220X03S140	□	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	14	.551	2
					3	Int.	MVS1220X03S130	★	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	13	.512	6
					3	Int.	MVS1220X03S140	●	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	14	.551	6
					5	Int.	MVS1220X05S130	★	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	13	.512	6
					5	Int.	MVS1220X05S140	●	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	14	.551	6
					8	Int.	MVS1220X08S130	□	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	13	.512	6
					8	Int.	MVS1220X08S140	●	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	14	.551	6
					10	Int.	MVS1220X10S130	□	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	13	.512	8
					10	Int.	MVS1220X10S140	●	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	14	.551	8
					15	Int.	MVS1220X15S130	□	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	13	.512	8
					15	Int.	MVS1220X15S140	●	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	14	.551	8
					20	Int.	MVS1220X20S130	□	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	13	.512	8
					20	Int.	MVS1220X20S140	★	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	14	.551	8

Solid Carbide Drills

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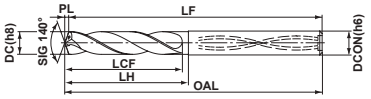
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
12.300	.4843	31/64		9/16-12	2	Ext.	**MVE1230X02S130**	★	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	13	.512	2
					2	Ext.	**MVE1230X02S140**	●	53.2	2.094	56.2	2.213	104.2	4.102	102	4.016	2.2	.087	14	.551	2
					2	Int.	**MVS1230X02S130PL**	★	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	13	.512	4
					2	Int.	**MVS1230X02S140PL**	●	52.9	2.083	55.9	2.201	103.9	4.091	102	4.016	1.9	.075	14	.551	4
					3	Ext.	**MVE1230X03S130**	★	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	13	.512	2
					3	Ext.	**MVE1230X03S140**	□	78.2	3.079	81.2	3.197	139.2	5.480	137	5.394	2.2	.087	14	.551	2
					3	Int.	**MVS1230X03S130**	★	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	13	.512	6
					3	Int.	**MVS1230X03S140**	●	64.7	2.547	67.2	2.646	130.2	5.126	128	5.039	2.2	.087	14	.551	6
					5	Int.	**MVS1230X05S130**	★	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	13	.512	6
					5	Int.	**MVS1230X05S140**	●	102.2	4.024	106.2	4.181	169.2	6.661	167	6.575	2.2	.087	14	.551	6
					8	Int.	**MVS1230X08S130**	□	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	13	.512	6
					8	Int.	**MVS1230X08S140**	●	140.2	5.520	145.2	5.717	208.2	8.197	206	8.110	2.2	.087	14	.551	6
					10	Int.	**MVS1230X10S130**	□	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	13	.512	8
					10	Int.	**MVS1230X10S140**	●	165.2	6.504	168.2	6.622	231.2	9.102	229	9.016	2.2	.087	14	.551	8
					15	Int.	**MVS1230X15S130**	□	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	13	.512	8
					15	Int.	**MVS1230X15S140**	●	227.2	8.945	230.2	9.063	293.2	11.543	291	11.457	2.2	.087	14	.551	8
					20	Int.	**MVS1230X20S130**	□	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	13	.512	8
					20	Int.	**MVS1230X20S140**	★	290.2	11.425	293.2	11.543	356.2	14.024	354	13.937	2.2	.087	14	.551	8
12.400	.4882				2	Ext.	**MVE1240X02S130**	★	53.3	2.098	56.3	2.217	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	**MVE1240X02S140**	●	53.3	2.098	56.3	2.217	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	**MVS1240X02S130PL**	★	53.0	2.087	56.0	2.205	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	**MVS1240X02S140PL**	●	53.0	2.087	56.0	2.205	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	**MVE1240X03S130**	★	78.3	3.083	81.3	3.201	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	**MVE1240X03S140**	□	78.3	3.083	81.3	3.201	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	**MVS1240X03S130**	★	64.8	2.551	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	**MVS1240X03S140**	●	64.8	2.551	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	**MVS1240X05S130**	★	102.3	4.028	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	**MVS1240X05S140**	●	102.3	4.028	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	**MVS1240X08S130**	□	140.3	5.524	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	**MVS1240X08S140**	●	140.3	5.524	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	**MVS1240X10S130**	□	165.3	6.508	168.3	6.626	231.3	9.106	229	9.016	2.3	.091	13	.512	8
					10	Int.	**MVS1240X10S140**	●	165.3	6.508	168.3	6.626	231.3	9.106	229	9.016	2.3	.091	14	.551	8
					15	Int.	**MVS1240X15S130**	□	227.3	8.949	230.3	9.067	293.3	11.547	291	11.457	2.3	.091	13	.512	8
					15	Int.	**MVS1240X15S140**	●	227.3	8.949	230.3	9.067	293.3	11.547	291	11.457	2.3	.091	14	.551	8
					20	Int.	**MVS1240X20S130**	□	290.3	11.429	293.3	11.547	356.3	14.028	354	13.937	2.3	.091	13	.512	8
					20	Int.	**MVS1240X20S140**	★	290.3	11.429	293.3	11.547	356.3	14.028	354	13.937	2.3	.091	14	.551	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

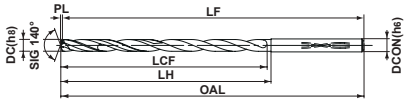
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
12.500	.4921			M14x4.5	2	Ext.	MVE1250X02S130	★	53.3	2.098	56.3	2.217	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	MVE1250X02S140	●	53.3	2.098	56.3	2.217	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	MVS1250X02S130PL	★	53.0	2.087	56.0	2.205	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	MVS1250X02S140PL	●	53.0	2.087	56.0	2.205	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	MVE1250X03S130	★	78.3	3.083	81.3	3.201	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	MVE1250X03S140	□	78.3	3.083	81.3	3.201	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	MVS1250X03S130	★	64.8	2.551	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	MVS1250X03S140	●	64.8	2.551	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	MVS1250X05S130	★	102.3	4.028	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	MVS1250X05S140	●	102.3	4.028	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	MVS1250X08S130	★	140.3	5.524	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	MVS1250X08S140	●	140.3	5.524	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	MVS1250X10S130	★	165.3	6.508	168.3	6.626	231.3	9.106	229	9.016	2.3	.091	13	.512	8
					10	Int.	MVS1250X10S140	●	165.3	6.508	168.3	6.626	231.3	9.106	229	9.016	2.3	.091	14	.551	8
					15	Int.	MVS1250X15S130	★	227.3	8.949	230.3	9.067	293.3	11.547	291	11.457	2.3	.091	13	.512	8
					15	Int.	MVS1250X15S140	●	227.3	8.949	230.3	9.067	293.3	11.547	291	11.457	2.3	.091	14	.551	8
					20	Int.	MVS1250X20S130	★	290.3	11.429	293.3	11.547	356.3	14.028	354	13.937	2.3	.091	13	.512	8
					20	Int.	MVS1250X20S140	●	290.3	11.429	293.3	11.547	356.3	14.028	354	13.937	2.3	.091	14	.551	8
12.600	.4961				2	Ext.	MVE1260X02S130	★	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	MVE1260X02S140	●	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	MVS1260X02S130PL	★	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	MVS1260X02S140PL	●	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	MVE1260X03S130	★	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	MVE1260X03S140	□	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	MVS1260X03S130	★	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	MVS1260X03S140	●	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	MVS1260X05S130	★	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	MVS1260X05S140	●	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	MVS1260X08S130	□	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	MVS1260X08S140	●	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	MVS1260X10S130	□	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	13	.512	8
					10	Int.	MVS1260X10S140	●	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	14	.551	8
					15	Int.	MVS1260X15S130	□	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	13	.512	8
					15	Int.	MVS1260X15S140	●	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	14	.551	8
					20	Int.	MVS1260X20S130	□	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	13	.512	8
					20	Int.	MVS1260X20S140	★	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	14	.551	8
12.700	.5000	1/2			2	Ext.	MVE1270X02S130	★	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	MVE1270X02S140	●	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	MVS1270X02S130PL	★	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	MVS1270X02S140PL	●	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	MVE1270X03S130	★	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	MVE1270X03S140	□	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	MVS1270X03S130	★	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	MVS1270X03S140	●	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	MVS1270X05S130	★	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	MVS1270X05S140	●	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	MVS1270X08S130	□	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	MVS1270X08S140	●	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	MVS1270X10S130	□	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	13	.512	8
					10	Int.	MVS1270X10S140	●	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	14	.551	8
					15	Int.	MVS1270X15S130	□	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	13	.512	8
					15	Int.	MVS1270X15S140	●	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	14	.551	8
					20	Int.	MVS1270X20S130	□	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	13	.512	8
					20	Int.	MVS1270X20S140	★	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	14	.551	8

Solid Carbide Drills

MVE/MVS

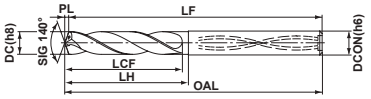
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
12.800	.5039				2	Ext.	MVE1280X02S130	★	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	MVE1280X02S140	●	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	MVS1280X02S130PL	★	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	MVS1280X02S140PL	●	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	MVE1280X03S130	★	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	MVE1280X03S140	□	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	MVS1280X03S130	★	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	MVS1280X03S140	●	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	MVS1280X05S130	★	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	MVS1280X05S140	●	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	MVS1280X08S130	□	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	MVS1280X08S140	●	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	MVS1280X10S130	□	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	13	.512	8
					10	Int.	MVS1280X10S140	●	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	14	.551	8
					15	Int.	MVS1280X15S130	□	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	13	.512	8
					15	Int.	MVS1280X15S140	●	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	14	.551	8
					20	Int.	MVS1280X20S130	□	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	13	.512	8
					20	Int.	MVS1280X20S140	★	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	14	.551	8
12.900	.5079				2	Ext.	MVE1290X02S130	★	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	13	.512	2
					2	Ext.	MVE1290X02S140	●	53.3	2.098	53.3	2.098	104.3	4.106	102	4.016	2.3	.091	14	.551	2
					2	Int.	MVS1290X02S130PL	★	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	MVS1290X02S140PL	●	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	MVE1290X03S130	★	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	13	.512	2
					3	Ext.	MVE1290X03S140	□	80.3	3.161	80.3	3.161	139.3	5.484	137	5.394	2.3	.091	14	.551	2
					3	Int.	MVS1290X03S130	★	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	13	.512	6
					3	Int.	MVS1290X03S140	●	67.3	2.650	67.3	2.650	130.3	5.130	128	5.039	2.3	.091	14	.551	6
					5	Int.	MVS1290X05S130	★	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	13	.512	6
					5	Int.	MVS1290X05S140	●	106.3	4.185	106.3	4.185	169.3	6.665	167	6.575	2.3	.091	14	.551	6
					8	Int.	MVS1290X08S130	□	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	13	.512	6
					8	Int.	MVS1290X08S140	●	145.3	5.720	145.3	5.720	208.3	8.201	206	8.110	2.3	.091	14	.551	6
					10	Int.	MVS1290X10S130	□	171.3	6.744	174.3	6.866	237.3	9.343	235	9.252	2.3	.091	13	.512	8
					10	Int.	MVS1290X10S140	●	171.3	6.744	174.3	6.862	237.3	9.343	235	9.252	2.3	.091	14	.551	8
					15	Int.	MVS1290X15S130	□	236.3	9.303	239.3	9.425	302.3	11.902	300	11.811	2.3	.091	13	.512	8
					15	Int.	MVS1290X15S140	●	236.3	9.303	239.3	9.421	302.3	11.902	300	11.811	2.3	.091	14	.551	8
					20	Int.	MVS1290X20S130	□	301.3	11.862	304.3	11.984	367.3	14.461	365	14.370	2.3	.091	13	.512	8
					20	Int.	MVS1290X20S140	★	301.3	11.862	304.3	11.980	367.3	14.461	365	14.370	2.3	.091	14	.551	8

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

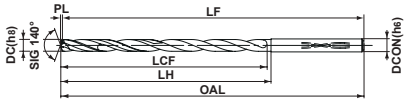
● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
13.000	**.5118**				2	Ext.	**MVE1300X02S130**	★	53.4	2.102	53.4	2.102	104.4	4.110	102	4.016	2.4	.094	13	.512	2
					2	Ext.	**MVE1300X02S140**	●	53.4	2.102	53.4	2.102	104.4	4.110	102	4.016	2.4	.094	14	.551	2
					2	Int.	**MVS1300X02S130PL**	★	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	13	.512	4
					2	Int.	**MVS1300X02S140PL**	●	53.0	2.087	53.0	2.087	104.0	4.094	102	4.016	2.0	.079	14	.551	4
					3	Ext.	**MVE1300X03S130**	★	80.4	3.165	80.4	3.165	139.4	5.488	137	5.394	2.4	.094	13	.512	2
					3	Ext.	**MVE1300X03S140**	□	80.4	3.165	80.4	3.165	139.4	5.488	137	5.394	2.4	.094	14	.551	2
					3	Int.	**MVS1300X03S130**	★	67.4	2.654	67.4	2.654	130.4	5.134	128	5.039	2.4	.094	13	.512	6
					3	Int.	**MVS1300X03S140**	●	67.4	2.654	67.4	2.654	130.4	5.134	128	5.039	2.4	.094	14	.551	6
					5	Int.	**MVS1300X05S130**	★	106.4	4.189	106.4	4.189	169.4	6.669	167	6.575	2.4	.094	13	.512	6
					5	Int.	**MVS1300X05S140**	●	106.4	4.189	106.4	4.189	169.4	6.669	167	6.575	2.4	.094	14	.551	6
					8	Int.	**MVS1300X08S130**	★	145.4	5.724	145.4	5.724	208.4	8.205	206	8.110	2.4	.094	13	.512	6
					8	Int.	**MVS1300X08S140**	●	145.4	5.724	145.4	5.724	208.4	8.205	206	8.110	2.4	.094	14	.551	6
					10	Int.	**MVS1300X10S130**	□	171.4	6.748	174.4	6.866	237.4	9.346	235	9.252	2.4	.094	13	.512	8
					10	Int.	**MVS1300X10S140**	●	171.4	6.748	174.4	6.866	237.4	9.346	235	9.252	2.4	.094	14	.551	8
					15	Int.	**MVS1300X15S130**	□	236.4	9.307	239.4	9.425	302.4	11.906	300	11.811	2.4	.094	13	.512	8
					15	Int.	**MVS1300X15S140**	●	236.4	9.307	239.4	9.425	302.4	11.906	300	11.811	2.4	.094	14	.551	8
					20	Int.	**MVS1300X20S130**	□	301.4	11.866	304.4	11.984	367.4	14.465	365	14.370	2.4	.094	13	.512	8
					20	Int.	**MVS1300X20S140**	●	301.4	11.866	304.4	11.984	367.4	14.465	365	14.370	2.4	.094	14	.551	8
13.100	**.5157**	**33/64**		**9/16-18**	2	Ext.	**MVE1310X02S140**	●	56.4	2.220	59.4	2.339	109.4	4.307	107	4.213	2.4	.094	14	.551	2
					2	Int.	**MVS1310X02S140PL**	●	56.1	2.209	59.1	2.327	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	**MVE1310X03S140**	★	86.4	3.402	89.4	3.520	149.4	5.882	147	5.787	2.4	.094	14	.551	2
					3	Int.	**MVS1310X03S140**	●	69.9	2.752	72.4	2.850	136.4	5.370	134	5.276	2.4	.094	14	.551	6
					5	Int.	**MVS1310X05S140**	●	110.4	4.346	114.4	4.504	178.4	7.024	176	6.929	2.4	.094	14	.551	6
					8	Int.	**MVS1310X08S140**	●	151.4	5.961	156.4	6.157	220.4	8.677	218	8.583	2.4	.094	14	.551	6
					10	Int.	**MVS1310X10S140**	□	178.4	7.024	181.4	7.142	245.4	9.661	243	9.567	2.4	.094	14	.551	8
					15	Int.	**MVS1310X15S140**	□	245.4	9.661	248.4	9.780	312.4	12.299	310	12.205	2.4	.094	14	.551	8
					20	Int.	**MVS1310X20S140**	□	313.4	12.339	316.4	12.457	380.4	14.976	378	14.882	2.4	.094	14	.551	8
13.200	**.5197**				2	Ext.	**MVE1320X02S140**	●	56.4	2.220	59.4	2.339	109.4	4.307	107	4.213	2.4	.094	14	.551	2
					2	Int.	**MVS1320X02S140PL**	●	56.1	2.209	59.1	2.327	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	**MVE1320X03S140**	★	86.4	3.402	89.4	3.520	149.4	5.882	147	5.787	2.4	.094	14	.551	2
					3	Int.	**MVS1320X03S140**	●	69.9	2.752	72.4	2.850	136.4	5.370	134	5.276	2.4	.094	14	.551	6
					5	Int.	**MVS1320X05S140**	●	110.4	4.346	114.4	4.504	178.4	7.024	176	6.929	2.4	.094	14	.551	6
					8	Int.	**MVS1320X08S140**	●	151.4	5.961	156.4	6.157	220.4	8.677	218	8.583	2.4	.094	14	.551	6
					10	Int.	**MVS1320X10S140**	□	178.4	7.024	181.4	7.142	245.4	9.661	243	9.567	2.4	.094	14	.551	8
					15	Int.	**MVS1320X15S140**	□	245.4	9.661	248.4	9.780	312.4	12.299	310	12.205	2.4	.094	14	.551	8
					20	Int.	**MVS1320X20S140**	□	313.4	12.339	316.4	12.457	380.4	14.976	378	14.882	2.4	.094	14	.551	8
13.300	**.5236**				2	Ext.	**MVE1330X02S140**	●	56.4	2.220	59.4	2.339	109.4	4.307	107	4.213	2.4	.094	14	.551	2
					2	Int.	**MVS1330X02S140PL**	●	56.1	2.209	59.1	2.327	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	**MVE1330X03S140**	★	86.4	3.402	89.4	3.520	149.4	5.882	147	5.787	2.4	.094	14	.551	2
					3	Int.	**MVS1330X03S140**	●	69.9	2.752	72.4	2.850	136.4	5.370	134	5.276	2.4	.094	14	.551	6
					5	Int.	**MVS1330X05S140**	●	110.4	4.346	114.4	4.504	178.4	7.024	176	6.929	2.4	.094	14	.551	6
					8	Int.	**MVS1330X08S140**	●	151.4	5.961	156.4	6.157	220.4	8.677	218	8.583	2.4	.094	14	.551	6
					10	Int.	**MVS1330X10S140**	□	178.4	7.024	181.4	7.142	245.4	9.661	243	9.567	2.4	.094	14	.551	8
					15	Int.	**MVS1330X15S140**	□	245.4	9.661	248.4	9.780	312.4	12.299	310	12.205	2.4	.094	14	.551	8
					20	Int.	**MVS1330X20S140**	□	313.4	12.339	316.4	12.457	380.4	14.976	378	14.882	2.4	.094	14	.551	8
13.400	**.5276**				2	Ext.	**MVE1340X02S140**	●	56.4	2.220	59.4	2.339	109.4	4.307	107	4.213	2.4	.094	14	.551	2
					2	Int.	**MVS1340X02S140PL**	●	56.1	2.209	59.1	2.327	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	**MVE1340X03S140**	★	86.4	3.402	89.4	3.520	149.4	5.882	147	5.787	2.4	.094	14	.551	2
					3	Int.	**MVS1340X03S140**	●	69.9	2.752	72.4	2.850	136.4	5.370	134	5.276	2.4	.094	14	.551	6
					5	Int.	**MVS1340X05S140**	●	110.4	4.346	114.4	4.504	178.4	7.024	176	6.929	2.4	.094	14	.551	6
					8	Int.	**MVS1340X08S140**	●	151.4	5.961	156.4	6.157	220.4	8.677	218	8.583	2.4	.094	14	.551	6
					10	Int.	**MVS1340X10S140**	□	178.4	7.024	181.4	7.142	245.4	9.661	243	9.567	2.4	.094	14	.551	8
					15	Int.	**MVS1340X15S140**	□	245.4	9.661	248.4	9.780	312.4	12.299	310	12.205	2.4	.094	14	.551	8
					20	Int.	**MVS1340X20S140**	□	313.4	12.339	316.4	12.457	380.4	14.976	378	14.882	2.4	.094	14	.551	8

Solid Carbide Drills

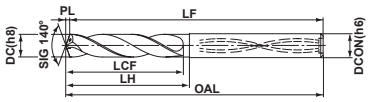
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
13.500	.5315			5/8-11	2	Ext.	MVE1350X02S140	●	56.5	2.224	59.5	2.343	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1350X02S140PL	●	56.1	2.209	59.1	2.327	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	MVE1350X03S140	★	86.5	3.406	89.5	3.524	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	MVS1350X03S140	●	70.0	2.756	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1350X05S140	●	110.5	4.350	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1350X08S140	●	151.5	5.965	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1350X10S140	●	178.5	7.028	181.5	7.146	245.5	9.665	243	9.567	2.5	.098	14	.551	8
					15	Int.	MVS1350X15S140	★	245.5	9.665	248.5	9.783	312.5	12.303	310	12.205	2.5	.098	14	.551	8
					20	Int.	MVS1350X20S140	★	313.5	12.343	316.5	12.461	380.5	14.980	378	14.882	2.5	.098	14	.551	8
13.600	.5354				2	Ext.	MVE1360X02S140	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1360X02S140PL	●	56.1	2.209	56.1	2.209	109.1	4.295	107	4.213	2.1	.083	14	.551	4
					3	Ext.	MVE1360X03S140	★	88.5	3.484	88.5	3.484	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	MVS1360X03S140	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1360X05S140	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1360X08S140	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1360X10S140	□	184.5	7.264	187.5	7.382	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	MVS1360X15S140	□	254.5	10.020	257.5	10.138	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	MVS1360X20S140	□	324.5	12.776	327.5	12.894	391.5	15.413	389	15.315	2.5	.098	14	.551	8
13.700	.5394				2	Ext.	MVE1370X02S140	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1370X02S140PL	●	56.2	2.213	56.2	2.213	109.2	4.299	107	4.213	2.2	.087	14	.551	4
					3	Ext.	MVE1370X03S140	★	88.5	3.484	88.5	3.484	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	MVS1370X03S140	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1370X05S140	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1370X08S140	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1370X10S140	□	184.5	7.264	187.5	7.382	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	MVS1370X15S140	□	254.5	10.020	257.5	10.138	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	MVS1370X20S140	□	324.5	12.776	327.5	12.894	391.5	15.413	389	15.315	2.5	.098	14	.551	8
13.800	.5433				2	Ext.	MVE1380X02S140	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1380X02S140PL	●	56.2	2.213	56.2	2.213	109.2	4.299	107	4.213	2.2	.087	14	.551	4
					3	Ext.	MVE1380X03S140	★	88.5	3.484	88.5	3.484	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	MVS1380X03S140	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1380X05S140	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1380X08S140	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1380X10S140	□	184.5	7.264	187.5	7.382	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	MVS1380X15S140	□	254.5	10.020	257.5	10.138	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	MVS1380X20S140	□	324.5	12.776	327.5	12.894	391.5	15.413	389	15.315	2.5	.098	14	.551	8
13.891	.5469	35/64			2	Ext.	MVE1389X02S140	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1389X02S140PL	●	56.2	2.213	56.2	2.213	109.2	4.299	107	4.213	2.2	.087	14	.551	4
					3	Int.	MVS1389X03S140	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1389X05S140	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1389X08S140	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1389X10S140	●	184.5	7.264	187.5	7.382	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	MVS1389X15S140	●	254.5	10.020	257.5	10.138	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	MVS1389X20S140	●	324.5	12.776	327.5	12.894	391.5	15.413	389	15.315	2.5	.098	14	.551	8
13.900	.5472				2	Ext.	MVE1390X02S140	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	MVS1390X02S140PL	●	56.2	2.213	56.2	2.213	109.2	4.299	107	4.213	2.2	.087	14	.551	4
					3	Ext.	MVE1390X03S140	★	88.5	3.484	88.5	3.484	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	MVS1390X03S140	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	MVS1390X05S140	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	MVS1390X08S140	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	MVS1390X10S140	□	184.5	7.264	187.5	7.382	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	MVS1390X15S140	□	254.5	10.020	257.5	10.138	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	MVS1390X20S140	□	324.5	12.776	327.5	12.894	391.5	15.413	389	15.315	2.5	.098	14	.551	8

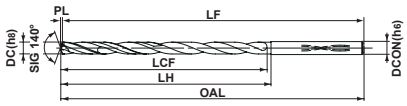
(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : **Inventory maintained.** ★ : **Inventory maintained in Japan.** □ : **Non stock, produced to order only.**

Type6



Type8



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
14.000	**.5512**			**M16x2.0**	2	Ext.	**MVE1400X02S140**	●	56.5	2.224	56.5	2.224	109.5	4.311	107	4.213	2.5	.098	14	.551	2
					2	Int.	**MVS1400X02S140PL**	●	56.2	2.213	56.2	2.213	109.2	4.299	107	4.213	2.2	.087	14	.551	4
					3	Ext.	**MVE1400X03S140**	★	88.5	3.484	88.5	3.484	149.5	5.886	147	5.787	2.5	.098	14	.551	2
					3	Int.	**MVS1400X03S140**	●	72.5	2.854	72.5	2.854	136.5	5.374	134	5.276	2.5	.098	14	.551	6
					5	Int.	**MVS1400X05S140**	●	114.5	4.508	114.5	4.508	178.5	7.028	176	6.929	2.5	.098	14	.551	6
					8	Int.	**MVS1400X08S140**	●	156.5	6.161	156.5	6.161	220.5	8.681	218	8.583	2.5	.098	14	.551	6
					10	Int.	**MVS1400X10S140**	★	184.5	7.264	187.5	7.386	251.5	9.902	249	9.803	2.5	.098	14	.551	8
					15	Int.	**MVS1400X15S140**	●	254.5	10.020	257.5	10.142	321.5	12.657	319	12.559	2.5	.098	14	.551	8
					20	Int.	**MVS1400X20S140**	★	324.5	12.776	327.5	12.898	391.5	15.413	389	15.315	2.5	.098	14	.551	8
14.100	**.5551**				2	Ext.	**MVE1410X02S150**	★	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	15	.591	2
					2	Ext.	**MVE1410X02S160**	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Ext.	**MVE1410X03S150**	★	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	15	.591	2
					3	Ext.	**MVE1410X03S160**	□	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	16	.630	2
					3	Int.	**MVS1410X03S150**	★	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	15	.591	6
					3	Int.	**MVS1410X03S160**	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	**MVS1410X05S150**	★	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	15	.591	6
					5	Int.	**MVS1410X05S160**	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	**MVS1410X08S150**	□	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	15	.591	6
					8	Int.	**MVS1410X08S160**	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6
14.200	**.5591**				2	Ext.	**MVE1420X02S150**	★	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	15	.591	2
					2	Ext.	**MVE1420X02S160**	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Ext.	**MVE1420X03S150**	★	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	15	.591	2
					3	Ext.	**MVE1420X03S160**	□	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	16	.630	2
					3	Int.	**MVS1420X03S150**	★	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	15	.591	6
					3	Int.	**MVS1420X03S160**	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	**MVS1420X05S150**	★	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	15	.591	6
					5	Int.	**MVS1420X05S160**	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	**MVS1420X08S150**	★	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	15	.591	6
					8	Int.	**MVS1420X08S160**	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6
14.288	**.5625**	**9/16**			2	Ext.	**MVE1429X02S160**	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Int.	**MVS1429X03S160**	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	**MVS1429X05S160**	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	**MVS1429X08S160**	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6
14.300	**.5630**				2	Ext.	**MVE1430X02S150**	★	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	15	.591	2
					2	Ext.	**MVE1430X02S160**	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Ext.	**MVE1430X03S150**	★	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	15	.591	2
					3	Ext.	**MVE1430X03S160**	□	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	16	.630	2
					3	Int.	**MVS1430X03S150**	★	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	15	.591	6
					3	Int.	**MVS1430X03S160**	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	**MVS1430X05S150**	★	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	15	.591	6
					5	Int.	**MVS1430X05S160**	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	**MVS1430X08S150**	□	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	15	.591	6
					8	Int.	**MVS1430X08S160**	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6
14.400	**.5669**				2	Ext.	**MVE1440X02S150**	★	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	15	.591	2
					2	Ext.	**MVE1440X02S160**	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Ext.	**MVE1440X03S150**	★	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	15	.591	2
					3	Ext.	**MVE1440X03S160**	□	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	16	.630	2
					3	Int.	**MVS1440X03S150**	★	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	15	.591	6
					3	Int.	**MVS1440X03S160**	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	**MVS1440X05S150**	★	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	15	.591	6
					5	Int.	**MVS1440X05S160**	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	**MVS1440X08S150**	□	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	15	.591	6
					8	Int.	**MVS1440X08S160**	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6

Solid Carbide Drills

MVE/MVS

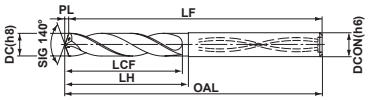
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
14.500	.5709			M16x1.5	2	Ext.	MVE1450X02S150	★	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	15	.591	2
					2	Ext.	MVE1450X02S160	●	58.6	2.307	61.6	2.425	113.6	4.472	111	4.370	2.6	.102	16	.630	2
					3	Ext.	MVE1450X03S150	★	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	15	.591	2
					3	Ext.	MVE1450X03S160	□	91.6	3.606	94.6	3.724	155.6	6.126	153	6.024	2.6	.102	16	.630	2
					3	Int.	MVS1450X03S150	★	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	15	.591	6
					3	Int.	MVS1450X03S160	●	75.1	2.957	77.6	3.055	142.6	5.614	140	5.512	2.6	.102	16	.630	6
					5	Int.	MVS1450X05S150	★	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	15	.591	6
					5	Int.	MVS1450X05S160	●	118.6	4.669	122.6	4.827	187.6	7.386	185	7.283	2.6	.102	16	.630	6
					8	Int.	MVS1450X08S150	★	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	15	.591	6
					8	Int.	MVS1450X08S160	●	162.6	6.402	167.6	6.598	227.6	8.961	225	8.858	2.6	.102	16	.630	6
14.600	.5748				2	Ext.	MVE1460X02S150	★	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	15	.591	2
					2	Ext.	MVE1460X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Ext.	MVE1460X03S150	★	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	15	.591	2
					3	Ext.	MVE1460X03S160	□	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	16	.630	2
					3	Int.	MVS1460X03S150	★	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	15	.591	6
					3	Int.	MVS1460X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1460X05S150	★	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	15	.591	6
					5	Int.	MVS1460X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1460X08S150	□	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	15	.591	6
					8	Int.	MVS1460X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6
14.684	.5781	37/64		5/8-18	2	Ext.	MVE1468X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Int.	MVS1468X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1468X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1468X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6
14.700	.5787				2	Ext.	MVE1470X02S150	★	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	15	.591	2
					2	Ext.	MVE1470X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Ext.	MVE1470X03S150	★	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	15	.591	2
					3	Ext.	MVE1470X03S160	□	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	16	.630	2
					3	Int.	MVS1470X03S150	★	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	15	.591	6
					3	Int.	MVS1470X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1470X05S150	★	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	15	.591	6
					5	Int.	MVS1470X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1470X08S150	□	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	15	.591	6
					8	Int.	MVS1470X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6
14.800	.5827				2	Ext.	MVE1480X02S150	★	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	15	.591	2
					2	Ext.	MVE1480X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Ext.	MVE1480X03S150	★	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	15	.591	2
					3	Ext.	MVE1480X03S160	□	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	16	.630	2
					3	Int.	MVS1480X03S150	★	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	15	.591	6
					3	Int.	MVS1480X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1480X05S150	★	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	15	.591	6
					5	Int.	MVS1480X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1480X08S150	□	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	15	.591	6
					8	Int.	MVS1480X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
14.900	.5866				2	Ext.	MVE1490X02S150	★	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	15	.591	2
					2	Ext.	MVE1490X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Ext.	MVE1490X03S150	★	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	15	.591	2
					3	Ext.	MVE1490X03S160	□	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	16	.630	2
					3	Int.	MVS1490X03S150	★	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	15	.591	6
					3	Int.	MVS1490X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1490X05S150	★	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	15	.591	6
					5	Int.	MVS1490X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1490X08S150	□	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	15	.591	6
					8	Int.	MVS1490X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6
15.000	.5906				2	Ext.	MVE1500X02S150	★	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	15	.591	2
					2	Ext.	MVE1500X02S160	●	58.7	2.311	58.7	2.311	113.7	4.476	111	4.370	2.7	.106	16	.630	2
					3	Ext.	MVE1500X03S150	★	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	15	.591	2
					3	Ext.	MVE1500X03S160	□	93.7	3.689	93.7	3.689	155.7	6.130	153	6.024	2.7	.106	16	.630	2
					3	Int.	MVS1500X03S150	★	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	15	.591	6
					3	Int.	MVS1500X03S160	●	77.7	3.059	77.7	3.059	142.7	5.618	140	5.512	2.7	.106	16	.630	6
					5	Int.	MVS1500X05S150	★	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	15	.591	6
					5	Int.	MVS1500X05S160	●	122.7	4.831	122.7	4.831	187.7	7.390	185	7.283	2.7	.106	16	.630	6
					8	Int.	MVS1500X08S150	★	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	15	.591	6
					8	Int.	MVS1500X08S160	●	167.7	6.602	167.7	6.602	227.7	8.965	225	8.858	2.7	.106	16	.630	6
15.080	.5937	19/32			2	Ext.	MVE1508X02S160	●	60.7	2.390	63.7	2.508	117.7	4.634	115	4.528	2.7	.106	16	.630	2
					3	Int.	MVS1508X03S160	●	80.2	3.157	82.7	3.256	147.7	5.815	145	5.709	2.7	.106	16	.630	6
					5	Int.	MVS1508X05S160	●	126.7	4.988	130.7	5.146	195.7	7.705	193	7.598	2.7	.106	16	.630	6
					8	Int.	MVS1508X08S160	●	173.7	6.839	183.7	7.232	243.7	9.594	241	9.488	2.7	.106	16	.630	6
15.100	.5945				2	Ext.	MVE1510X02S160	●	60.7	2.390	63.7	2.508	117.7	4.634	115	4.528	2.7	.106	16	.630	2
					3	Ext.	MVE1510X03S160	★	96.7	3.807	99.7	3.925	162.7	6.406	160	6.299	2.7	.106	16	.630	2
					3	Int.	MVS1510X03S160	●	80.2	3.157	82.7	3.256	147.7	5.815	145	5.709	2.7	.106	16	.630	6
					5	Int.	MVS1510X05S160	●	126.7	4.988	130.7	5.146	195.7	7.705	193	7.598	2.7	.106	16	.630	6
					8	Int.	MVS1510X08S160	●	173.7	6.839	183.7	7.232	243.7	9.594	241	9.488	2.7	.106	16	.630	6
15.200	.5984				2	Ext.	MVE1520X02S160	●	60.8	2.394	63.8	2.512	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Ext.	MVE1520X03S160	★	96.8	3.811	99.8	3.929	162.8	6.409	160	6.299	2.8	.110	16	.630	2
					3	Int.	MVS1520X03S160	●	80.3	3.161	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1520X05S160	●	126.8	4.992	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1520X08S160	●	173.8	6.843	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6
15.300	.6024				2	Ext.	MVE1530X02S160	●	60.8	2.394	63.8	2.512	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Ext.	MVE1530X03S160	★	96.8	3.811	99.8	3.929	162.8	6.409	160	6.299	2.8	.110	16	.630	2
					3	Int.	MVS1530X03S160	●	80.3	3.161	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1530X05S160	●	126.8	4.992	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1530X08S160	●	173.8	6.843	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6
15.400	.6063				2	Ext.	MVE1540X02S160	●	60.8	2.394	63.8	2.512	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Ext.	MVE1540X03S160	★	96.8	3.811	99.8	3.929	162.8	6.409	160	6.299	2.8	.110	16	.630	2
					3	Int.	MVS1540X03S160	●	80.3	3.161	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1540X05S160	●	126.8	4.992	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1540X08S160	●	173.8	6.843	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6
15.478	.6094	39/64			2	Ext.	MVE1548X02S160	●	60.8	2.394	63.8	2.512	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Int.	MVS1548X03S160	●	80.3	3.161	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1548X05S160	●	126.8	4.992	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1548X08S160	●	173.8	6.843	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6
15.500	.6102			M18x2.5	2	Ext.	MVE1550X02S160	●	60.8	2.394	63.8	2.512	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Ext.	MVE1550X03S160	★	96.8	3.811	99.8	3.929	162.8	6.409	160	6.299	2.8	.110	16	.630	2
					3	Int.	MVS1550X03S160	●	80.3	3.161	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1550X05S160	●	126.8	4.992	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1550X08S160	●	173.8	6.843	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6

Solid Carbide Drills

MVE/MVS

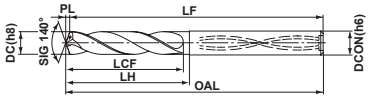
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
15.600	.6142				2	Ext.	MVE1560X02S160	●	60.8	2.394	60.8	2.394	117.8	4.638	115	4.528	2.8	.110	16	.630	2
					3	Ext.	MVE1560X03S160	★	98.8	3.890	98.8	3.890	162.8	6.409	160	6.299	2.8	.110	16	.630	2
					3	Int.	MVS1560X03S160	●	82.8	3.260	82.8	3.260	147.8	5.819	145	5.709	2.8	.110	16	.630	6
					5	Int.	MVS1560X05S160	●	130.8	5.150	130.8	5.150	195.8	7.709	193	7.598	2.8	.110	16	.630	6
					8	Int.	MVS1560X08S160	●	178.8	7.039	183.8	7.236	243.8	9.598	241	9.488	2.8	.110	16	.630	6
15.700	.6181				2	Ext.	MVE1570X02S160	●	60.9	2.398	60.9	2.398	117.9	4.642	115	4.528	2.9	.114	16	.630	2
					3	Ext.	MVE1570X03S160	★	98.9	3.894	98.9	3.894	162.9	6.413	160	6.299	2.9	.114	16	.630	2
					3	Int.	MVS1570X03S160	●	82.9	3.264	82.9	3.264	147.9	5.823	145	5.709	2.9	.114	16	.630	6
					5	Int.	MVS1570X05S160	●	130.9	5.154	130.9	5.154	195.9	7.713	193	7.598	2.9	.114	16	.630	6
					8	Int.	MVS1570X08S160	●	178.9	7.043	183.9	7.240	243.9	9.602	241	9.488	2.9	.114	16	.630	6
15.800	.6220				2	Ext.	MVE1580X02S160	●	60.9	2.398	60.9	2.398	117.9	4.642	115	4.528	2.9	.114	16	.630	2
					3	Ext.	MVE1580X03S160	★	98.9	3.894	98.9	3.894	162.9	6.413	160	6.299	2.9	.114	16	.630	2
					3	Int.	MVS1580X03S160	●	82.9	3.264	82.9	3.264	147.9	5.823	145	5.709	2.9	.114	16	.630	6
					5	Int.	MVS1580X05S160	●	130.9	5.154	130.9	5.154	195.9	7.713	193	7.598	2.9	.114	16	.630	6
					8	Int.	MVS1580X08S160	●	178.9	7.043	183.9	7.240	243.9	9.602	241	9.488	2.9	.114	16	.630	6
15.875	.6250	5/8			2	Ext.	MVE1588X02S160	●	60.9	2.398	60.9	2.398	117.9	4.642	115	4.528	2.9	.114	16	.630	2
					3	Int.	MVS1588X03S160	●	82.9	3.264	82.9	3.264	147.9	5.823	145	5.709	2.9	.114	16	.630	6
					5	Int.	MVS1588X05S160	●	130.9	5.154	130.9	5.154	195.9	7.713	193	7.598	2.9	.114	16	.630	6
					8	Int.	MVS1588X08S160	●	178.9	7.043	183.9	7.240	243.9	9.602	241	9.488	2.9	.114	16	.630	6
15.900	.6260				2	Ext.	MVE1590X02S160	●	60.9	2.398	60.9	2.398	117.9	4.642	115	4.528	2.9	.114	16	.630	2
					3	Ext.	MVE1590X03S160	★	98.9	3.894	98.9	3.894	162.9	6.413	160	6.299	2.9	.114	16	.630	2
					3	Int.	MVS1590X03S160	●	82.9	3.264	82.9	3.264	147.9	5.823	145	5.709	2.9	.114	16	.630	6
					5	Int.	MVS1590X05S160	●	130.9	5.154	130.9	5.154	195.9	7.713	193	7.598	2.9	.114	16	.630	6
					8	Int.	MVS1590X08S160	●	178.9	7.043	183.9	7.240	243.9	9.602	241	9.488	2.9	.114	16	.630	6
16.000	.6299				2	Ext.	MVE1600X02S160	●	60.9	2.398	60.9	2.398	117.9	4.642	115	4.528	2.9	.114	16	.630	2
					3	Ext.	MVE1600X03S160	★	98.9	3.894	98.9	3.894	162.9	6.413	160	6.299	2.9	.114	16	.630	2
					3	Int.	MVS1600X03S160	●	82.9	3.264	82.9	3.264	147.9	5.823	145	5.709	2.9	.114	16	.630	6
					5	Int.	MVS1600X05S160	●	130.9	5.154	130.9	5.154	195.9	7.713	193	7.598	2.9	.114	16	.630	6
					8	Int.	MVS1600X08S160	●	178.9	7.043	183.9	7.240	243.9	9.602	241	9.488	2.9	.114	16	.630	6
16.100	.6339				2	Ext.	MVE1610X02S170	□	62.9	2.476	62.9	2.476	121.9	4.799	119	4.685	2.9	.114	17	.669	2
					2	Ext.	MVE1610X02S180	□	62.9	2.476	62.9	2.476	121.9	4.799	119	4.685	2.9	.114	18	.709	2
					3	Ext.	MVE1610X03S170	□	104.9	4.130	104.9	4.130	169.9	6.689	167	6.575	2.9	.114	17	.669	2
					3	Ext.	MVE1610X03S180	□	104.9	4.130	104.9	4.130	169.9	6.689	167	6.575	2.9	.114	18	.709	2
					3	Int.	MVS1610X03S170	□	85.4	3.362	87.9	3.461	152.9	6.020	150	5.906	2.9	.114	17	.669	6
					3	Int.	MVS1610X03S180	□	85.4	3.362	87.9	3.461	152.9	6.020	150	5.906	2.9	.114	18	.709	6
					5	Int.	MVS1610X05S170	□	134.9	5.311	138.9	5.469	203.9	8.028	201	7.913	2.9	.114	17	.669	6
					5	Int.	MVS1610X05S180	□	134.9	5.311	138.9	5.469	203.9	8.028	201	7.913	2.9	.114	18	.709	6
16.200	.6378				2	Ext.	MVE1620X02S170	★	62.9	2.476	62.9	2.476	121.9	4.799	119	4.685	2.9	.114	17	.669	2
					2	Ext.	MVE1620X02S180	□	62.9	2.476	62.9	2.476	121.9	4.799	119	4.685	2.9	.114	18	.709	2
					3	Ext.	MVE1620X03S170	□	104.9	4.130	104.9	4.130	169.9	6.689	167	6.575	2.9	.114	17	.669	2
					3	Ext.	MVE1620X03S180	□	104.9	4.130	104.9	4.130	169.9	6.689	167	6.575	2.9	.114	18	.709	2
					3	Int.	MVS1620X03S170	□	85.4	3.362	87.9	3.461	152.9	6.020	150	5.906	2.9	.114	17	.669	6
					3	Int.	MVS1620X03S180	□	85.4	3.362	87.9	3.461	152.9	6.020	150	5.906	2.9	.114	18	.709	6
					5	Int.	MVS1620X05S170	□	134.9	5.311	138.9	5.469	203.9	8.028	201	7.913	2.9	.114	17	.669	6
					5	Int.	MVS1620X05S180	□	134.9	5.311	138.9	5.469	203.9	8.028	201	7.913	2.9	.114	18	.709	6
16.271	.6406	41/64			2	Ext.	MVE1627X02S180	●	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Int.	MVS1627X03S180	●	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1627X05S180	●	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
16.300	.6417				2	Ext.	MVE1630X02S170	★	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	17	.669	2
					2	Ext.	MVE1630X02S180	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Ext.	MVE1630X03S170	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	17	.669	2
					3	Ext.	MVE1630X03S180	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	18	.709	2
					3	Int.	MVS1630X03S170	□	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	17	.669	6
					3	Int.	MVS1630X03S180	□	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1630X05S170	□	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	17	.669	6
					5	Int.	MVS1630X05S180	□	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.400	.6457				2	Ext.	MVE1640X02S170	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	17	.669	2
					2	Ext.	MVE1640X02S180	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Ext.	MVE1640X03S170	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	17	.669	2
					3	Ext.	MVE1640X03S180	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	18	.709	2
					3	Int.	MVS1640X03S170	□	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	17	.669	6
					3	Int.	MVS1640X03S180	□	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1640X05S170	□	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	17	.669	6
					5	Int.	MVS1640X05S180	□	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.500	.6496			M18x1.5	2	Ext.	MVE1650X02S170	★	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	17	.669	2
					2	Ext.	MVE1650X02S180	●	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Ext.	MVE1650X03S170	★	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	17	.669	2
					3	Ext.	MVE1650X03S180	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	18	.709	2
					3	Int.	MVS1650X03S170	★	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	17	.669	6
					3	Int.	MVS1650X03S180	●	85.5	3.366	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1650X05S170	★	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	17	.669	6
					5	Int.	MVS1650X05S180	●	135.0	5.315	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.600	.6535				2	Ext.	MVE1660X02S170	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	17	.669	2
					2	Ext.	MVE1660X02S180	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Ext.	MVE1660X03S170	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	17	.669	2
					3	Ext.	MVE1660X03S180	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	18	.709	2
					3	Int.	MVS1660X03S170	□	88.0	3.465	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	17	.669	6
					3	Int.	MVS1660X03S180	□	88.0	3.465	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1660X05S170	□	139.0	5.472	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	17	.669	6
					5	Int.	MVS1660X05S180	□	139.0	5.472	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.670	.6563	21/32		3/4-10	2	Ext.	MVE1667X02S180	●	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Int.	MVS1667X03S180	●	88.0	3.465	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1667X05S180	●	139.0	5.472	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.700	.6575				2	Ext.	MVE1670X02S170	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	17	.669	2
					2	Ext.	MVE1670X02S180	□	63.0	2.480	63.0	2.480	122.0	4.803	119	4.685	3.0	.118	18	.709	2
					3	Ext.	MVE1670X03S170	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	17	.669	2
					3	Ext.	MVE1670X03S180	□	105.0	4.134	105.0	4.134	170.0	6.693	167	6.575	3.0	.118	18	.709	2
					3	Int.	MVS1670X03S170	□	88.0	3.465	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	17	.669	6
					3	Int.	MVS1670X03S180	□	88.0	3.465	88.0	3.465	153.0	6.024	150	5.906	3.0	.118	18	.709	6
					5	Int.	MVS1670X05S170	□	139.0	5.472	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	17	.669	6
					5	Int.	MVS1670X05S180	□	139.0	5.472	139.0	5.472	204.0	8.031	201	7.913	3.0	.118	18	.709	6
16.800	.6614				2	Ext.	MVE1680X02S170	□	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	17	.669	2
					2	Ext.	MVE1680X02S180	□	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	18	.709	2
					3	Ext.	MVE1680X03S170	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	17	.669	2
					3	Ext.	MVE1680X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1680X03S170	□	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	17	.669	6
					3	Int.	MVS1680X03S180	□	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	18	.709	6
					5	Int.	MVS1680X05S170	□	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	17	.669	6
					5	Int.	MVS1680X05S180	□	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	18	.709	6

Solid Carbide Drills

MVE/MVS

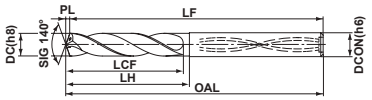
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
16.900	.6654				2	Ext.	MVE1690X02S170	□	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	17	.669	2
					2	Ext.	MVE1690X02S180	□	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	18	.709	2
					3	Ext.	MVE1690X03S170	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	17	.669	2
					3	Ext.	MVE1690X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1690X03S170	□	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	17	.669	6
					3	Int.	MVS1690X03S180	□	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	18	.709	6
					5	Int.	MVS1690X05S170	□	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	17	.669	6
					5	Int.	MVS1690X05S180	□	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	18	.709	6
17.000	.6693		Tube Sheet		2	Ext.	MVE1700X02S170	★	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	17	.669	2
					2	Ext.	MVE1700X02S180	●	63.1	2.484	63.1	2.484	122.1	4.807	119	4.685	3.1	.122	18	.709	2
					3	Ext.	MVE1700X03S170	★	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	17	.669	2
					3	Ext.	MVE1700X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1700X03S170	★	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	17	.669	6
					3	Int.	MVS1700X03S180	●	88.1	3.469	88.1	3.469	153.1	6.028	150	5.906	3.1	.122	18	.709	6
					5	Int.	MVS1700X05S170	★	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	17	.669	6
					5	Int.	MVS1700X05S180	●	139.1	5.476	139.1	5.476	204.1	8.035	201	7.913	3.1	.122	18	.709	6
17.064	.6718	43/64			2	Ext.	MVE1707X02S180	●	65.1	2.563	65.1	2.563	126.1	4.965	123	4.843	3.1	.122	18	.709	2
					3	Int.	MVS1707X03S180	●	90.6	3.567	93.1	3.665	158.1	6.224	155	6.102	3.1	.122	18	.709	6
					5	Int.	MVS1707X05S180	●	143.1	5.634	147.1	5.791	212.1	8.350	209	8.228	3.1	.122	18	.709	6
17.100	.6732				2	Ext.	MVE1710X02S180	□	65.1	2.563	65.1	2.563	126.1	4.965	123	4.843	3.1	.122	18	.709	2
					3	Ext.	MVE1710X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1710X03S180	□	90.6	3.567	93.1	3.665	158.1	6.224	155	6.102	3.1	.122	18	.709	6
					5	Int.	MVS1710X05S180	□	143.1	5.634	147.1	5.791	212.1	8.350	209	8.228	3.1	.122	18	.709	6
17.200	.6772				2	Ext.	MVE1720X02S180	□	65.1	2.563	65.1	2.563	126.1	4.965	123	4.843	3.1	.122	18	.709	2
					3	Ext.	MVE1720X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1720X03S180	□	90.6	3.567	93.1	3.665	158.1	6.224	155	6.102	3.1	.122	18	.709	6
					5	Int.	MVS1720X05S180	□	143.1	5.634	147.1	5.791	212.1	8.350	209	8.228	3.1	.122	18	.709	6
17.300	.6811				2	Ext.	MVE1730X02S180	□	65.1	2.563	65.1	2.563	126.1	4.965	123	4.843	3.1	.122	18	.709	2
					3	Ext.	MVE1730X03S180	□	105.1	4.138	105.1	4.138	170.1	6.697	167	6.575	3.1	.122	18	.709	2
					3	Int.	MVS1730X03S180	□	90.6	3.567	93.1	3.665	158.1	6.224	155	6.102	3.1	.122	18	.709	6
					5	Int.	MVS1730X05S180	□	143.1	5.634	147.1	5.791	212.1	8.350	209	8.228	3.1	.122	18	.709	6
17.400	.6850				2	Ext.	MVE1740X02S180	□	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Ext.	MVE1740X03S180	□	105.2	4.142	105.2	4.142	170.2	6.701	167	6.575	3.2	.126	18	.709	2
					3	Int.	MVS1740X03S180	□	90.7	3.571	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	MVS1740X05S180	□	143.2	5.638	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6
17.463	.6875	11/16		3/4-16	2	Ext.	MVE1746X02S180	●	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Int.	MVS1746X03S180	●	90.7	3.571	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	MVS1746X05S180	●	143.2	5.638	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6
17.500	.6890			M20x2.5	2	Ext.	MVE1750X02S180	●	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Ext.	MVE1750X03S180	★	105.2	4.142	105.2	4.142	170.2	6.701	167	6.575	3.2	.126	18	.709	2
					3	Int.	MVS1750X03S180	●	90.7	3.571	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	MVS1750X05S180	●	143.2	5.638	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6
17.600	.6929				2	Ext.	MVE1760X02S180	□	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Ext.	MVE1760X03S180	□	105.2	4.142	105.2	4.142	170.2	6.701	167	6.575	3.2	.126	18	.709	2
					3	Int.	MVS1760X03S180	□	93.2	3.669	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	MVS1760X05S180	□	147.2	5.795	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6
17.700	.6969				2	Ext.	MVE1770X02S180	□	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Ext.	MVE1770X03S180	□	105.2	4.142	105.2	4.142	170.2	6.701	167	6.575	3.2	.126	18	.709	2
					3	Int.	MVS1770X03S180	□	93.2	3.669	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	MVS1770X05S180	□	147.2	5.795	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan

□ : Non stock, produced to order only.

Type6



DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
17.800	**.7008**				2	Ext.	**MVE1780X02S180**	★	65.2	2.567	65.2	2.567	126.2	4.969	123	4.843	3.2	.126	18	.709	2
					3	Ext.	**MVE1780X03S180**	□	105.2	4.142	105.2	4.142	170.2	6.701	167	6.575	3.2	.126	18	.709	2
					3	Int.	**MVS1780X03S180**	□	93.2	3.669	93.2	3.669	158.2	6.228	155	6.102	3.2	.126	18	.709	6
					5	Int.	**MVS1780X05S180**	□	147.2	5.795	147.2	5.795	212.2	8.354	209	8.228	3.2	.126	18	.709	6
17.859	**.7031**	**45/64**			2	Ext.	**MVE1786X02S180**	●	65.3	2.571	65.3	2.571	126.3	4.972	123	4.843	3.3	.130	18	.709	2
					3	Int.	**MVS1786X03S180**	●	93.3	3.673	93.3	3.673	158.3	6.232	155	6.102	3.3	.130	18	.709	6
					5	Int.	**MVS1786X05S180**	●	147.3	5.799	147.3	5.799	212.3	8.358	209	8.228	3.3	.130	18	.709	6
17.900	**.7047**				2	Ext.	**MVE1790X02S180**	□	65.3	2.571	65.3	2.571	126.3	4.972	123	4.843	3.3	.130	18	.709	2
					3	Ext.	**MVE1790X03S180**	□	105.3	4.146	105.3	4.146	170.3	6.705	167	6.575	3.3	.130	18	.709	2
					3	Int.	**MVS1790X03S180**	□	93.3	3.673	93.3	3.673	158.3	6.232	155	6.102	3.3	.130	18	.709	6
					5	Int.	**MVS1790X05S180**	□	147.3	5.799	147.3	5.799	212.3	8.358	209	8.228	3.3	.130	18	.709	6
18.000	**.7087**				2	Ext.	**MVE1800X02S180**	●	65.3	2.571	65.3	2.571	126.3	4.972	123	4.843	3.3	.130	18	.709	2
					3	Ext.	**MVE1800X03S180**	★	105.3	4.146	105.3	4.146	170.3	6.705	167	6.575	3.3	.130	18	.709	2
					3	Int.	**MVS1800X03S180**	●	93.3	3.673	93.3	3.673	158.3	6.232	155	6.102	3.3	.130	18	.709	6
					5	Int.	**MVS1800X05S180**	●	147.3	5.799	147.3	5.799	212.3	8.358	209	8.228	3.3	.130	18	.709	6
18.100	**.7126**				2	Ext.	**MVE1810X02S190**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	19	.748	2
					2	Ext.	**MVE1810X02S200**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	20	.787	2
					3	Ext.	**MVE1810X03S190**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	19	.748	2
					3	Ext.	**MVE1810X03S200**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	20	.787	2
					3	Int.	**MVS1810X03S190**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	19	.748	6
					3	Int.	**MVS1810X03S200**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	20	.787	6
					5	Int.	**MVS1810X05S190**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	19	.748	6
					5	Int.	**MVS1810X05S200**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	20	.787	6
18.200	**.7165**				2	Ext.	**MVE1820X02S190**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	19	.748	2
					2	Ext.	**MVE1820X02S200**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	20	.787	2
					3	Ext.	**MVE1820X03S190**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	19	.748	2
					3	Ext.	**MVE1820X03S200**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	20	.787	2
					3	Int.	**MVS1820X03S190**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	19	.748	6
					3	Int.	**MVS1820X03S200**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	20	.787	6
					5	Int.	**MVS1820X05S190**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	19	.748	6
					5	Int.	**MVS1820X05S200**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	20	.787	6
18.258	**.7188**	**23/32**			2	Ext.	**MVE1826X02S200**	●	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	20	.787	2
					3	Int.	**MVS1826X03S200**	●	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	20	.787	6
					5	Int.	**MVS1826X05S200**	●	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	20	.787	6
18.300	**.7205**				2	Ext.	**MVE1830X02S190**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	19	.748	2
					2	Ext.	**MVE1830X02S200**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	20	.787	2
					3	Ext.	**MVE1830X03S190**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	19	.748	2
					3	Ext.	**MVE1830X03S200**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	20	.787	2
					3	Int.	**MVS1830X03S190**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	19	.748	6
					3	Int.	**MVS1830X03S200**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	20	.787	6
					5	Int.	**MVS1830X05S190**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	19	.748	6
					5	Int.	**MVS1830X05S200**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	20	.787	6
18.400	**.7244**				2	Ext.	**MVE1840X02S190**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	19	.748	2
					2	Ext.	**MVE1840X02S200**	□	67.3	2.650	67.3	2.650	130.3	5.130	127	5.000	3.3	.130	20	.787	2
					3	Ext.	**MVE1840X03S190**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	19	.748	2
					3	Ext.	**MVE1840X03S200**	□	117.3	4.618	117.3	4.618	182.3	7.177	179	7.047	3.3	.130	20	.787	2
					3	Int.	**MVS1840X03S190**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	19	.748	6
					3	Int.	**MVS1840X03S200**	□	95.8	3.772	98.3	3.870	163.3	6.429	160	6.299	3.3	.130	20	.787	6
					5	Int.	**MVS1840X05S190**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	19	.748	6
					5	Int.	**MVS1840X05S200**	□	151.3	5.957	155.3	6.114	220.3	8.673	217	8.543	3.3	.130	20	.787	6

Solid Carbide Drills

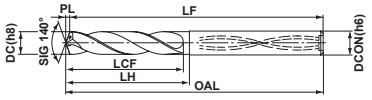
MVE/MVS

DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
18.500	.7283			M20x1.5	2	Ext.	MVE1850X02S190	★	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	19	.748	2
					2	Ext.	MVE1850X02S200	●	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Ext.	MVE1850X03S190	★	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	19	.748	2
					3	Ext.	MVE1850X03S200	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	20	.787	2
					3	Int.	MVS1850X03S190	★	95.9	3.776	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	19	.748	6
					3	Int.	MVS1850X03S200	●	95.9	3.776	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1850X05S190	★	151.4	5.961	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	19	.748	6
					5	Int.	MVS1850X05S200	●	151.4	5.961	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
18.600	.7323				2	Ext.	MVE1860X02S190	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	19	.748	2
					2	Ext.	MVE1860X02S200	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Ext.	MVE1860X03S190	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	19	.748	2
					3	Ext.	MVE1860X03S200	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	20	.787	2
					3	Int.	MVS1860X03S190	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	19	.748	6
					3	Int.	MVS1860X03S200	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1860X05S190	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	19	.748	6
					5	Int.	MVS1860X05S200	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
18.654	.7344	47/64			2	Ext.	MVE1865X02S200	●	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Int.	MVS1865X03S200	●	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1865X05S200	●	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
18.700	.7362				2	Ext.	MVE1870X02S190	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	19	.748	2
					2	Ext.	MVE1870X02S200	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Ext.	MVE1870X03S190	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	19	.748	2
					3	Ext.	MVE1870X03S200	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	20	.787	2
					3	Int.	MVS1870X03S190	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	19	.748	6
					3	Int.	MVS1870X03S200	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1870X05S190	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	19	.748	6
					5	Int.	MVS1870X05S200	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
18.800	.7402				2	Ext.	MVE1880X02S190	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	19	.748	2
					2	Ext.	MVE1880X02S200	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Ext.	MVE1880X03S190	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	19	.748	2
					3	Ext.	MVE1880X03S200	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	20	.787	2
					3	Int.	MVS1880X03S190	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	19	.748	6
					3	Int.	MVS1880X03S200	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1880X05S190	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	19	.748	6
					5	Int.	MVS1880X05S200	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
18.900	.7441				2	Ext.	MVE1890X02S190	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	19	.748	2
					2	Ext.	MVE1890X02S200	□	67.4	2.654	67.4	2.654	130.4	5.134	127	5.000	3.4	.134	20	.787	2
					3	Ext.	MVE1890X03S190	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	19	.748	2
					3	Ext.	MVE1890X03S200	□	117.4	4.622	117.4	4.622	182.4	7.181	179	7.047	3.4	.134	20	.787	2
					3	Int.	MVS1890X03S190	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	19	.748	6
					3	Int.	MVS1890X03S200	□	98.4	3.874	98.4	3.874	163.4	6.433	160	6.299	3.4	.134	20	.787	6
					5	Int.	MVS1890X05S190	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	19	.748	6
					5	Int.	MVS1890X05S200	□	155.4	6.118	155.4	6.118	220.4	8.677	217	8.543	3.4	.134	20	.787	6
19.000	.7480				2	Ext.	MVE1900X02S190	★	67.5	2.657	67.5	2.657	130.5	5.138	127	5.000	3.5	.138	19	.748	2
					2	Ext.	MVE1900X02S200	●	67.5	2.657	67.5	2.657	130.5	5.138	127	5.000	3.5	.138	20	.787	2
					3	Ext.	MVE1900X03S190	★	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	19	.748	2
					3	Ext.	MVE1900X03S200	□	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1900X03S190	★	98.5	3.878	98.5	3.878	163.5	6.437	160	6.299	3.5	.138	19	.748	6
					3	Int.	MVS1900X03S200	●	98.5	3.878	98.5	3.878	163.5	6.437	160	6.299	3.5	.138	20	.787	6
					5	Int.	MVS1900X05S190	★	155.5	6.122	155.5	6.122	220.5	8.681	217	8.543	3.5	.138	19	.748	6
					5	Int.	MVS1900X05S200	●	155.5	6.122	155.5	6.122	220.5	8.681	217	8.543	3.5	.138	20	.787	6

(Note) Please contact Mitsubishi Materials for any geometry that is not in the catalog (e.g. different dia. and length).

● : USA Stock ★ : Stocked in Japan □ : Non stock, produced to order only.

Type6



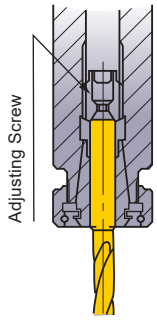
DC					I/d	Coolant (Int./Ext.)	Order Number	Stock	LCF		LH		OAL		LF		PL		DCON		Type
Metric (mm)	Decimal (inch)	Fraction (inch)	Wire / Letter	Thread Size				DP1020	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
19.050	.7500	3/4			2	Ext.	MVE1905X02S200	●	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Int.	MVS1905X03S200	●	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1905X05S200	●	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.100	.7520				2	Ext.	MVE1910X02S200	□	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Ext.	MVE1910X03S200	□	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1910X03S200	□	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1910X05S200	□	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.200	.7559				2	Ext.	MVE1920X02S200	□	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Ext.	MVE1920X03S200	□	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1920X03S200	□	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1920X05S200	□	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.253	.7580		Tube Sheet		2	Ext.	MVE1925X02S200	●	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Int.	MVS1925X03S200	●	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1925X05S200	●	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.300	.7598				2	Ext.	MVE1930X02S200	□	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Ext.	MVE1930X03S200	□	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1930X03S200	□	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1930X05S200	□	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.400	.7638				2	Ext.	MVE1940X02S200	□	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Ext.	MVE1940X03S200	□	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1940X03S200	□	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1940X05S200	□	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.446	.7656	49/64		7/8-9	2	Ext.	MVE1945X02S200	●	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Int.	MVS1945X03S200	●	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1945X05S200	●	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.500	.7677			M22x2.5	2	Ext.	MVE1950X02S200	●	69.5	2.736	69.5	2.736	134.5	5.295	131	5.157	3.5	.138	20	.787	2
					3	Ext.	MVE1950X03S200	★	117.5	4.626	117.5	4.626	182.5	7.185	179	7.047	3.5	.138	20	.787	2
					3	Int.	MVS1950X03S200	●	101.0	3.976	103.5	4.075	168.5	6.634	165	6.496	3.5	.138	20	.787	6
					5	Int.	MVS1950X05S200	●	159.5	6.280	163.5	6.437	228.5	8.996	225	8.858	3.5	.138	20	.787	6
19.600	.7717				2	Ext.	MVE1960X02S200	□	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Ext.	MVE1960X03S200	□	117.6	4.630	117.6	4.630	182.6	7.189	179	7.047	3.6	.142	20	.787	2
					3	Int.	MVS1960X03S200	□	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS1960X05S200	□	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6
19.700	.7756				2	Ext.	MVE1970X02S200	□	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Ext.	MVE1970X03S200	□	117.6	4.630	117.6	4.630	182.6	7.189	179	7.047	3.6	.142	20	.787	2
					3	Int.	MVS1970X03S200	□	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS1970X05S200	□	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6
19.800	.7795				2	Ext.	MVE1980X02S200	□	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Ext.	MVE1980X03S200	□	117.6	4.630	117.6	4.630	182.6	7.189	179	7.047	3.6	.142	20	.787	2
					3	Int.	MVS1980X03S200	□	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS1980X05S200	□	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6
19.842	.7812	25/32			2	Ext.	MVE1984X02S200	●	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Int.	MVS1984X03S200	●	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS1984X05S200	●	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6
19.900	.7835				2	Ext.	MVE1990X02S200	□	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Ext.	MVE1990X03S200	□	117.6	4.630	117.6	4.630	182.6	7.189	179	7.047	3.6	.142	20	.787	2
					3	Int.	MVS1990X03S200	□	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS1990X05S200	□	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6
20.000	.7874				2	Ext.	MVE2000X02S200	●	69.6	2.740	69.6	2.740	134.6	5.299	131	5.157	3.6	.142	20	.787	2
					3	Ext.	MVE2000X03S200	★	117.6	4.630	117.6	4.630	182.6	7.189	179	7.047	3.6	.142	20	.787	2
					3	Int.	MVS2000X03S200	●	103.6	4.079	103.6	4.079	168.6	6.638	165	6.496	3.6	.142	20	.787	6
					5	Int.	MVS2000X05S200	●	163.6	6.441	163.6	6.441	228.6	9.000	225	8.858	3.6	.142	20	.787	6

Solid Carbide Drills

MVE/MVS

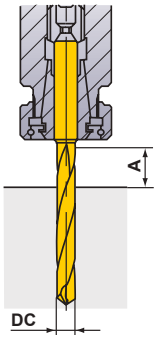
■ Operational Guidance

Drill Holding



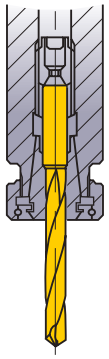
Thrust bearing type collet chuck holds the drill securely.

Drill Length



A > DC x 1.5(DC×over .079" for DC<.118")

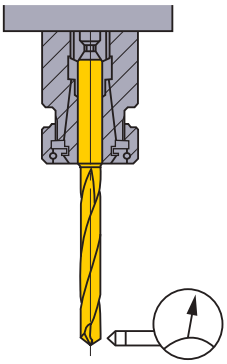
Drill Installation



NG

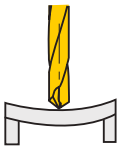
Do not clamp on the flutes.

Installation Tolerance



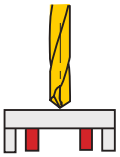
Run-out ≤ .0012 inch

Thin Workpiece



If Bending Occurs

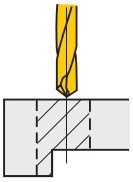
NG



Support the Workpiece

Good

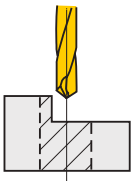
Interrupted Cutting



One Process

Good

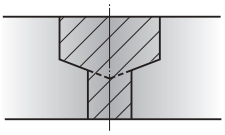
①Lower the feed when drilling the interrupted part.



Requires Prior Machining

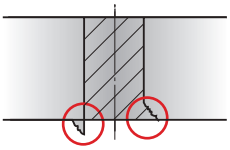
①Spot face with an end mill prior to drilling.

Stepped Holes



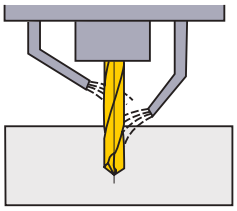
①Divide the two processes.
②Drill the larger hole first.
*A tool for machining both chamfer and spot face can be produced to order.

Burring and Workpiece Chipping



①Lower the feed rate by 50% at the end of through cutting.
②Add a 45°chamfer.
③Change the point angle.

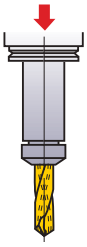
Coolant Method (**MVE**)



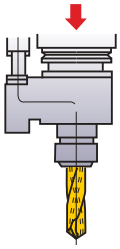
Two coolant positions, at the end and at the center are ideal.

Through Coolant Type (**MVS**)

Spindles Through Coolant Type



Revolving Coolant Machine Type



Less than ø.118 inch : 225PSI-1000PSI
More than ø.118 inch : 75PSI-1000PSI
More than 450PSI is recommended.

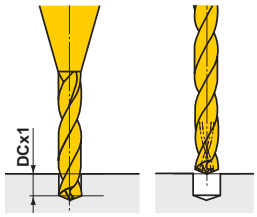
Coolant Handling

<MVS Type>

①Small chip particles can jam in the oil hole of small diameter drills. Always use a fine mesh filter as a preventative measure.

②Dirt and dust particles adhere to the oil in old coolant and prevent an efficient flow. Regular coolant exchange is recommended.

Drill Installation



①Drill a prepared hole about DCx1 using the shortest flute length of MVS. (DC=drill diameter)
②Use the prepared hole as a guide when using a drill with an oil hole. Depending on the cutting conditions, peck feed is recommended.

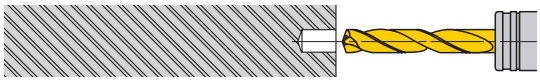
■ Notes on Use (For DC<.118")

Please use a fine mesh filter (5 microns or less) for coolant to prevent chips from jamming in the coolant hole.
For deep drilling with the long type drill, machining a pilot hole is recommended.
(Otherwise, centrifugal forces may cause drill breakage.)

■ Operational Guidance for the MVS of Long Type Drill (L/D≥10)

Flat Face Drilling ●Drilling a blind hole

1. Drilling a Pilot Hole



①Use a drill with the same or larger point angle than the long type. Use the shortest flute possible.
②Ensure a high precision hole is drilled for the guide.
③Drill depth : Approx DCx1.
(Adjust the pilot hole depth according to the length of the long type drill.)

2. Initial Cutting with the Long Type Drill



①Penetrate the guide hole at low revolution.
(Revolution 500-1000 min^{-1}, feed rate .008—.012 IPR)
②Stop the long type drill .020—.039 inch short of the guide hole bottom.

3. Drill the Deep Hole



①Start cutting at the recommended speed and feed with a non-peck (continuous feed) cycle.

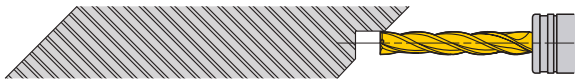
4. Drill Retraction



①After drilling, lower the cutting revolution about .020—.039 inch short of the hole end. (Revolution 500-1000 min^{-1})
②Retract the drill to the pilot hole depth starting point at a feed rate of 120 IPM.
③Finally, clear the hole at a cutting speed of 65—100 SFM and feed rate of .008—.012 IPR.

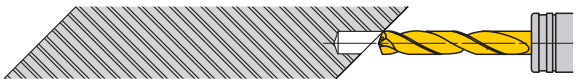
Interrupted Drilling ●Drilling and breaking through on irregular faces or angles

1. Spot Facing



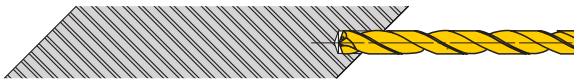
①Machine a flat on the irregular face by using an end mill or slot drill capable of spot facing. Make the spot face diameter the same size as the required deep hole diameter.

2. Drilling a Pilot Hole



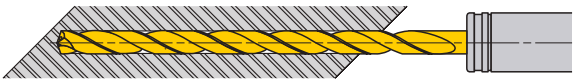
①Use a drill with the same or larger point angle than the long type. Use the shortest flute possible.
②Ensure a high precision hole is drilled for the guide.
③Drill depth : Approx DCx1.
(Adjust the pilot hole depth according to the length of the long type drill.)

3. Initial Cutting with the Long Type Drill



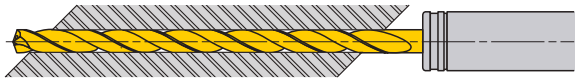
①Penetrate the guide hole at a low revolution.
(Revolution 500-1000 min^{-1}, feed rate .008—.012 IPR)
②Stop the long type drill .020—.039 inch short of the guide hole bottom.

4. Drill the Deep Hole



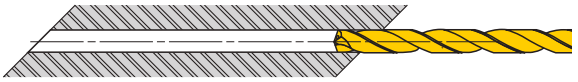
①Start cutting at the recommended speed and feed with a non-peck (continuous feed) cycle.
②Feed as usual until breaking through.

5. Breaking Through



①When breaking through, the cutting edge can be damaged.
②Recommend about half rate of the usual feed rate after breaking through.

6. Drill Retraction



①Finally clear the hole at a revolution speed 500-1000 min^{-1} and feed rate of .008—.012 IPR.
②Retract the drill to the pilot hole depth starting point at a feed rate of 120 IPM.

Recommended Cutting Conditions

■ MVE

(inch)

Work Material	Mild Steel (≤180HB) AISI 1010 etc.		Carbon Steel, Alloy Steel (180—280HB) AISI 1045, 4140 etc.	
DC	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)
inch / mm				
.1260 3.2	215 (165—245)	.0039 (.0024—.0051)	195 (150—230)	.0039 (.0024—.0051)
.1575 4.0	230 (180—260)	.0047 (.0031—.0063)	215 (165—245)	.0047 (.0031—.0063)
.1969 5.0	230 (180—260)	.0059 (.0039—.0079)	215 (165—245)	.0059 (.0039—.0079)
.2480 6.3	265 (195—295)	.0079 (.0051—.0102)	245 (195—280)	.0079 (.0051—.0102)
.3150 8.0	280 (215—330)	.0091 (.0071—.0110)	265 (195—295)	.0091 (.0071—.0110)
.3937 10.0	295 (230—345)	.0106 (.0087—.0126)	280 (215—330)	.0106 (.0087—.0126)
.4724 12.0	310 (245—360)	.0122 (.0110—.0134)	295 (230—345)	.0122 (.0110—.0134)
.6299 16.0	330 (260—375)	.0130 (.0110—.0150)	295 (230—345)	.0130 (.0110—.0150)
.7874 20.0	330 (260—375)	.0118 (.0118—.0157)	295 (230—345)	.0118 (.0118—.0157)

Work Material	Carbon Steel, Alloy Steel (280—350HB) AISI 4340 etc.		Austenitic Stainless Steel (≤200HB) AISI 304, 316 etc.	
DC	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)
inch / mm				
.1260 3.2	180 (130—215)	.0035 (.0024—.0047)	65 (50—80)	.0028 (.0020—.0031)
.1575 4.0	195 (150—230)	.0043 (.0028—.0055)	65 (50—80)	.0031 (.0024—.0039)
.1969 5.0	195 (150—230)	.0055 (.0035—.0071)	65 (50—80)	.0039 (.0028—.0051)
.2480 6.3	230 (180—260)	.0071 (.0043—.0094)	80 (65—100)	.0051 (.0035—.0067)
.3150 8.0	245 (195—280)	.0083 (.0063—.0098)	80 (65—100)	.0055 (.0039—.0071)
.3937 10.0	265 (195—295)	.0091 (.0075—.0106)	80 (65—100)	.0063 (.0047—.0075)
.4724 12.0	280 (215—330)	.0102 (.0091—.0114)	80 (65—100)	.0071 (.0059—.0079)
.6299 16.0	280 (215—330)	.0114 (.0094—.0130)	80 (65—100)	.0075 (.0059—.0091)
.7874 20.0	280 (215—330)	.0118 (.0102—.0134)	80 (65—100)	.0079 (.0059—.0094)

Work Material	Gray Cast Iron (≤350MPa) AISI No.45B etc.		Ductile Cast Iron (≤450MPa) AISI 60-40-18 etc.	
DC	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)
inch / mm				
.1260 3.2	230 (180—260)	.0039 (.0024—.0051)	215 (165—245)	.0039 (.0024—.0051)
.1575 4.0	230 (180—260)	.0047 (.0031—.0063)	215 (165—245)	.0047 (.0031—.0063)
.1969 5.0	230 (180—260)	.0059 (.0039—.0079)	215 (165—245)	.0059 (.0039—.0079)
.2480 6.3	245 (195—280)	.0079 (.0051—.0102)	230 (180—260)	.0079 (.0051—.0102)
.3150 8.0	245 (195—280)	.0098 (.0071—.0122)	230 (180—260)	.0091 (.0071—.0110)
.3937 10.0	245 (195—280)	.0114 (.0087—.0138)	230 (180—260)	.0106 (.0087—.0126)
.4724 12.0	265 (195—295)	.0130 (.0110—.0146)	245 (195—280)	.0122 (.0110—.0134)
.6299 16.0	265 (195—295)	.0138 (.0110—.0165)	245 (195—280)	.0130 (.0110—.0150)
.7874 20.0	280 (215—330)	.0146 (.0118—.0173)	265 (195—295)	.0138 (.0118—.0157)

(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

(inch)

Work Material		Aluminum Alloy (Si<5%) ASTM A6061, 7075 etc.		Heat Resistant Alloy Inconel718 etc.	
DC		**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)	**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)
inch	mm				
.1260	**3.2**	265 (195—295)	.0039 (.0024—.0051)	65 (50—80)	.0028 (.0020—.0035)
.1575	**4.0**	265 (195—295)	.0047 (.0031—.0063)	65 (50—80)	.0035 (.0024—.0043)
.1969	**5.0**	265 (195—295)	.0059 (.0039—.0079)	65 (50—80)	.0043 (.0031—.0055)
.2480	**6.3**	295 (230—360)	.0079 (.0051—.0102)	80 (65—100)	.0055 (.0035—.0075)
.3150	**8.0**	295 (230—360)	.0091 (.0071—.0110)	80 (65—100)	.0055 (.0043—.0067)
.3937	**10.0**	295 (230—360)	.0106 (.0087—.0126)	80 (65—100)	.0063 (.0047—.0075)
.4724	**12.0**	330 (260—395)	.0122 (.0110—.0134)	80 (65—100)	.0063 (.0051—.0071)
.6299	**16.0**	330 (260—395)	.0130 (.0110—.0150)	80 (65—100)	.0071 (.0055—.0083)
.7874	**20.0**	360 (280—425)	.0138 (.0118—.0157)	100 (65—115)	.0075 (.0059—.0087)

Work Material		Hardened Steel (40—55HRC) AISI H13, L6 etc.	
DC		**vc** (Min.—Max.) (SFM)	**fr** (Min.—Max.) (IPR)
inch	mm		
.1260	**3.2**	65 (50—80)	.0028 (.0020—.0035)
.1575	**4.0**	65 (50—80)	.0035 (.0024—.0043)
.1969	**5.0**	65 (50—80)	.0043 (.0031—.0055)
.2480	**6.3**	80 (65—100)	.0055 (.0035—.0075)
.3150	**8.0**	80 (65—100)	.0055 (.0043—.0067)
.3937	**10.0**	80 (65—100)	.0063 (.0047—.0075)
.4724	**12.0**	80 (65—100)	.0063 (.0051—.0071)
.6299	**16.0**	80 (65—100)	.0071 (.0055—.0083)
.7874	**20.0**	100 (65—115)	.0075 (.0059—.0087)

(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

Solid Carbide Drills

MVE/MVS

Recommended Cutting Conditions

■ MVS

(inch)

Work Material			Mild Steel (≤180HB) AISI 1010 etc.		Carbon Steel, Alloy Steel (180—280HB) AISI 1045, 4140 etc.	
DC		L/D	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)
inch	mm					
.0394	1.0	2,7DC	165 (130—195)	.0016 (.0008—.0020)	165 (130—195)	.0016 (.0008—.0020)
		≥12DC	165 (130—195)	.0008 (.0004—.0012)	130 (100—150)	.0008 (.0004—.0012)
.0591	1.5	2,7DC	165 (130—195)	.0020 (.0012—.0031)	165 (130—195)	.0020 (.0012—.0031)
		≥12DC	165 (130—195)	.0020 (.0008—.0031)	130 (100—150)	.0020 (.0012—.0031)
.0787	2.0	2,7DC	165 (130—195)	.0028 (.0016—.0039)	165 (130—195)	.0028 (.0016—.0039)
		≥12DC	165 (130—195)	.0028 (.0016—.0039)	165 (130—195)	.0028 (.0016—.0039)
.0984	2.5	2,7DC	195 (150—230)	.0035 (.0020—.0051)	195 (150—230)	.0035 (.0020—.0051)
		≥12DC	195 (150—230)	.0035 (.0024—.0051)	165 (130—195)	.0031 (.0020—.0051)
.1260	3.2	2DC	295 (130—360)	.0067 (.0039—.0094)	295 (165—330)	.0067 (.0039—.0094)
		3,5,8DC	295 (230—345)	.0039 (.0024—.0051)	265 (195—295)	.0039 (.0024—.0051)
		10,15,20,25,30DC	295 (130—360)	.0067 (.0039—.0094)	295 (165—330)	.0067 (.0039—.0094)
		35,40DC	245 (130—310)	.0055 (.0031—.0075)	245 (130—280)	.0055 (.0031—.0075)
.1575	4.0	2DC	330 (165—395)	.0079 (.0047—.0118)	295 (165—330)	.0079 (.0047—.0118)
		3,5,8DC	330 (260—375)	.0047 (.0031—.0063)	295 (230—345)	.0047 (.0031—.0063)
		10,15,20,25,30DC	295 (130—360)	.0079 (.0047—.0118)	295 (165—330)	.0079 (.0047—.0118)
		35,40DC	245 (130—310)	.0063 (.0039—.0094)	245 (130—280)	.0063 (.0039—.0094)
.1969	5.0	2DC	330 (165—395)	.0098 (.0059—.0138)	295 (165—330)	.0098 (.0059—.0138)
		3,5,8DC	330 (260—375)	.0059 (.0039—.0079)	295 (230—345)	.0059 (.0039—.0079)
		10,15,20,25,30DC	295 (130—360)	.0098 (.0059—.0138)	295 (165—330)	.0098 (.0059—.0138)
		35,40DC	245 (130—310)	.0079 (.0047—.0110)	245 (130—280)	.0079 (.0047—.0110)
.2480	6.3	2DC	360 (195—425)	.0106 (.0067—.0146)	330 (195—360)	.0106 (.0067—.0146)
		3,5,8DC	360 (280—410)	.0079 (.0051—.0102)	330 (260—375)	.0079 (.0051—.0102)
		10,15,20,25,30DC	360 (195—425)	.0106 (.0067—.0146)	330 (195—360)	.0106 (.0067—.0146)
		35,40DC	295 (130—360)	.0087 (.0055—.0118)	260 (130—295)	.0087 (.0055—.0118)
.3150	8.0	2DC	395 (230—460)	.0118 (.0079—.0157)	360 (230—395)	.0118 (.0079—.0157)
		3,5,8DC	395 (310—445)	.0091 (.0071—.0110)	360 (280—410)	.0091 (.0071—.0110)
		10,15,20,25,30DC	360 (195—425)	.0118 (.0079—.0157)	330 (195—360)	.0118 (.0079—.0157)
		35,40DC	295 (130—360)	.0094 (.0063—.0126)	260 (130—295)	.0094 (.0063—.0126)
.3937	1.0	2DC	425 (260—490)	.0126 (.0087—.0165)	395 (260—425)	.0126 (.0087—.0165)
		3,5,8DC	425 (330—490)	.0106 (.0087—.0126)	395 (310—445)	.0106 (.0087—.0126)
		10,15,20,25,30DC	360 (195—425)	.0126 (.0087—.0165)	330 (195—360)	.0126 (.0087—.0165)
		35,40DC	295 (130—360)	.0102 (.0071—.0134)	260 (130—295)	.0102 (.0071—.0134)
.4724	12.0	2DC	460 (295—525)	.0134 (.0094—.0173)	425 (295—460)	.0134 (.0094—.0173)
		3,5,8DC	460 (360—525)	.0118 (.0102—.0134)	425 (330—490)	.0118 (.0102—.0134)
		10,15,20,25,30DC	425 (260—490)	.0134 (.0094—.0173)	395 (260—425)	.0134 (.0094—.0173)
		35,40DC	345 (180—410)	.0106 (.0075—.0138)	310 (180—345)	.0106 (.0075—.0138)
.6299	16.0	2DC	525 (360—590)	.0142 (.0102—.0181)	460 (330—490)	.0142 (.0102—.0181)
		3,5,8DC	525 (410—590)	.0130 (.0106—.0150)	460 (360—525)	.0130 (.0106—.0150)
		10,15,20,25,30DC	425 (260—490)	.0142 (.0102—.0181)	395 (260—425)	.0142 (.0102—.0181)
		35,40DC	345 (180—410)	.0114 (.0083—.0146)	310 (180—345)	.0114 (.0083—.0146)
.7874	2.0	3,5,8DC	525 (410—590)	.0138 (.0118—.0157)	460 (360—525)	.0138 (.0118—.0157)

(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

(inch)

Work Material			Carbon Steel, Alloy Steel (280—350HB) AISI 4340 etc.		Austenitic Stainless Steel (≤200HB) AISI 304, 316 etc.	
DC		L/D	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)
inch	mm					
.0394	1.0	2,7DC	130 (100—150)	.0016 (.0008—.0020)	100 (65—115)	.0012 (.0008—.0020)
		≥12DC	100 (65—115)	.0008 (.0004—.0012)	100 (65—115)	.0008 (.0004—.0012)
.0591	1.5	2,7DC	130 (100—150)	.0020 (.0012—.0031)	100 (65—115)	.0020 (.0012—.0028)
		≥12DC	100 (65—115)	.0020 (.0008—.0031)	100 (65—115)	.0020 (.0008—.0031)
.0787	2.0	2,7DC	130 (100—150)	.0028 (.0016—.0039)	100 (65—115)	.0024 (.0016—.0031)
		≥12DC	165 (130—195)	.0028 (.0016—.0039)	100 (65—115)	.0028 (.0016—.0039)
.0984	2.5	2,7DC	165 (130—195)	.0035 (.0020—.0051)	130 (100—150)	.0031 (.0020—.0039)
		≥12DC	165 (130—195)	.0031 (.0020—.0051)	100 (65—115)	.0031 (.0020—.0047)
.1260	3.2	2DC	295 (165—330)	.0059 (.0035—.0087)	130 (65—195)	.0028 (.0020—.0035)
		3,5,8DC	230 (180—260)	.0039 (.0024—.0051)	130 (100—150)	.0031 (.0024—.0039)
		10,15,20,25,30DC	260 (130—295)	.0059 (.0035—.0087)	130 (65—195)	.0028 (.0020—.0035)
		35,40DC	210 (130—245)	.0059 (.0028—.0071)	100 (65—165)	.0024 (.0016—.0028)
.1575	4.0	2DC	295 (165—330)	.0071 (.0043—.0106)	130 (65—195)	.0031 (.0024—.0039)
		3,5,8DC	265 (195—295)	.0043 (.0028—.0055)	130 (100—150)	.0035 (.0024—.0043)
		10,15,20,25,30DC	260 (130—295)	.0071 (.0043—.0106)	130 (65—195)	.0031 (.0024—.0039)
		35,40DC	210 (130—245)	.0071 (.0035—.0087)	100 (65—165)	.0024 (.0020—.0031)
.1969	5.0	2DC	295 (165—330)	.0087 (.0055—.0126)	130 (65—195)	.0039 (.0028—.0047)
		3,5,8DC	265 (195—295)	.0055 (.0035—.0071)	130 (100—150)	.0043 (.0031—.0055)
		10,15,20,25,30DC	260 (130—295)	.0087 (.0055—.0126)	130 (65—195)	.0039 (.0028—.0047)
		35,40DC	210 (130—245)	.0087 (.0043—.0102)	100 (65—165)	.0031 (.0024—.0039)
.2480	6.3	2DC	330 (195—360)	.0094 (.0059—.0130)	165 (100—230)	.0047 (.0031—.0063)
		3,5,8DC	295 (230—345)	.0071 (.0043—.0094)	165 (130—195)	.0055 (.0035—.0071)
		10,15,20,25,30DC	295 (165—330)	.0094 (.0059—.0130)	165 (100—230)	.0047 (.0031—.0063)
		35,40DC	245 (130—280)	.0094 (.0047—.0102)	130 (65—195)	.0039 (.0024—.0051)
.3150	8.0	2DC	330 (230—360)	.0106 (.0071—.0142)	165 (65—195)	.0055 (.0039—.0067)
		3,5,8DC	330 (260—375)	.0083 (.0063—.0098)	165 (130—195)	.0059 (.0039—.0075)
		10,15,20,25,30DC	295 (195—330)	.0106 (.0071—.0142)	165 (65—195)	.0055 (.0039—.0067)
		35,40DC	245 (150—280)	.0106 (.0055—.0114)	130 (65—165)	.0043 (.0031—.0055)
.3937	10.0	2DC	330 (195—395)	.0114 (.0079—.0150)	165 (65—195)	.0059 (.0047—.0071)
		3,5,8DC	360 (280—410)	.0091 (.0075—.0106)	165 (130—195)	.0063 (.0047—.0079)
		10,15,20,25,30DC	295 (195—360)	.0114 (.0079—.0150)	165 (65—195)	.0059 (.0047—.0071)
		35,40DC	245 (150—310)	.0114 (.0063—.0118)	130 (65—165)	.0047 (.0039—.0055)
.4724	12.0	2DC	395 (295—460)	.0118 (.0087—.0157)	195 (65—230)	.0067 (.0055—.0075)
		3,5,8DC	395 (310—445)	.0102 (.0087—.0114)	195 (150—230)	.0071 (.0059—.0083)
		10,15,20,25,30DC	330 (195—395)	.0118 (.0087—.0157)	195 (65—230)	.0067 (.0055—.0075)
		35,40DC	260 (130—330)	.0118 (.0071—.0126)	165 (65—195)	.0055 (.0043—.0059)
.6299	16.0	2DC	395 (260—460)	.0126 (.0091—.0161)	195 (65—230)	.0067 (.0055—.0075)
		3,5,8DC	425 (330—490)	.0110 (.0091—.0130)	195 (150—230)	.0075 (.0055—.0094)
		10,15,20,25,30DC	330 (195—395)	.0126 (.0091—.0161)	195 (65—230)	.0067 (.0055—.0075)
		35,40DC	260 (130—330)	.0126 (.0071—.0130)	165 (65—195)	.0055 (.0043—.0059)
.7874	20.0	3,5,8DC	425 (330—490)	.0118 (.0102—.0134)	195 (150—230)	.0083 (.0059—.0102)

(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

Recommended Cutting Conditions

MVS

(inch)

Work Material			Gray Cast Iron (≤350MPa) No45B etc.		Ductile Cast Iron (≤450MPa) 60-60-8 etc.	
DC		L/D	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)
inch	mm					
.0394	1.0	2,7DC	165 (130—195)	.0016 (.0008—.0020)	130 (100—150)	.0016 (.0008—.0020)
		≥12DC	130 (100—150)	.0008 (.0004—.0012)	100 (65—115)	.0008 (.0004—.0012)
.0591	1.5	2,7DC	165 (130—195)	.0020 (.0012—.0031)	130 (100—150)	.0020 (.0012—.0031)
		≥12DC	130 (100—150)	.0020 (.0008—.0031)	100 (65—115)	.0020 (.0008—.0031)
.0787	2.0	2,7DC	165 (130—195)	.0028 (.0016—.0039)	130 (100—150)	.0028 (.0016—.0039)
		≥12DC	165 (130—195)	.0028 (.0016—.0039)	165 (130—195)	.0028 (.0016—.0039)
.0984	2.5	2,7DC	195 (150—230)	.0035 (.0020—.0051)	165 (130—195)	.0035 (.0020—.0051)
		≥12DC	165 (130—195)	.0035 (.0024—.0051)	165 (130—195)	.0031 (.0020—.0047)
.1260	3.2	2DC	295 (195—360)	.0075 (.0043—.0102)	295 (195—360)	.0067 (.0039—.0094)
		3,5,8DC	295 (230—345)	.0039 (.0024—.0051)	215 (165—245)	.0039 (.0024—.0051)
		10,15,20,25,30DC	295 (195—360)	.0075 (.0043—.0102)	295 (195—360)	.0067 (.0039—.0094)
		35,40DC	245 (150—310)	.0059 (.0035—.0083)	100 (65—165)	.0055 (.0031—.0075)
.1575	4.0	2DC	330 (230—395)	.0087 (.0051—.0130)	295 (195—360)	.0079 (.0047—.0118)
		3,5,8DC	330 (260—375)	.0047 (.0031—.0063)	215 (165—245)	.0047 (.0031—.0063)
		10,15,20,25,30DC	295 (195—360)	.0087 (.0051—.0130)	295 (195—360)	.0079 (.0047—.0118)
		35,40DC	245 (150—310)	.0071 (.0039—.0102)	100 (65—165)	.0063 (.0039—.0094)
.1969	5.0	2DC	330 (230—395)	.0110 (.0028—.0154)	295 (195—360)	.0098 (.0059—.0138)
		3,5,8DC	330 (260—375)	.0059 (.0039—.0079)	215 (165—245)	.0059 (.0039—.0079)
		10,15,20,25,30DC	295 (195—360)	.0110 (.0028—.0154)	295 (195—360)	.0098 (.0059—.0138)
		35,40DC	245 (150—310)	.0087 (.0024—.0122)	100 (65—165)	.0079 (.0047—.0110)
.2480	6.3	2DC	360 (260—425)	.0118 (.0075—.0161)	330 (230—395)	.0106 (.0067—.0146)
		3,5,8DC	360 (280—410)	.0079 (.0051—.0102)	230 (180—260)	.0079 (.0051—.0102)
		10,15,20,25,30DC	360 (260—425)	.0118 (.0075—.0161)	330 (230—395)	.0106 (.0067—.0146)
		35,40DC	295 (195—360)	.0094 (.0059—.0130)	130 (100—195)	.0087 (.0055—.0118)
.3150	8.0	2DC	395 (295—460)	.0130 (.0087—.0173)	330 (230—395)	.0118 (.0079—.0157)
		3,5,8DC	395 (310—445)	.0098 (.0071—.0122)	230 (180—260)	.0091 (.0071—.0110)
		10,15,20,25,30DC	360 (260—395)	.0130 (.0087—.0173)	330 (230—395)	.0118 (.0079—.0157)
		35,40DC	295 (195—330)	.0102 (.0071—.0138)	130 (100—195)	.0094 (.0063—.0126)
.3937	10.0	2DC	425 (330—460)	.0138 (.0094—.0181)	330 (230—395)	.0126 (.0087—.0165)
		3,5,8DC	425 (330—490)	.0114 (.0087—.0138)	230 (180—260)	.0106 (.0087—.0126)
		10,15,20,25,30DC	360 (260—395)	.0138 (.0094—.0181)	330 (230—395)	.0126 (.0087—.0165)
		35,40DC	295 (195—330)	.0110 (.0075—.0146)	130 (100—195)	.0102 (.0071—.0134)
.4724	12.0	2DC	460 (330—490)	.0146 (.0102—.0189)	395 (295—460)	.0134 (.0094—.0173)
		3,5,8DC	460 (360—525)	.0126 (.0102—.0146)	295 (230—345)	.0118 (.0102—.0134)
		10,15,20,25,30DC	425 (295—460)	.0146 (.0102—.0189)	395 (295—460)	.0134 (.0094—.0173)
		35,40DC	345 (210—375)	.0118 (.0083—.0150)	165 (130—230)	.0106 (.0075—.0138)
.6299	16.0	2DC	525 (395—560)	.0157 (.0114—.0189)	395 (295—460)	.0142 (.0102—.0181)
		3,5,8DC	525 (410—590)	.0138 (.0110—.0165)	295 (230—345)	.0130 (.0110—.0150)
		10,15,20,25,30DC	425 (295—460)	.0157 (.0114—.0189)	395 (295—460)	.0142 (.0102—.0181)
		35,40DC	345 (210—375)	.0126 (.0091—.0150)	165 (130—230)	.0114 (.0083—.0146)
.7874	20.0	3,5,8DC	525 (410—590)	.0146 (.0118—.0173)	330 (260—375)	.0138 (.0118—.0157)

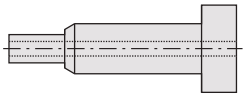
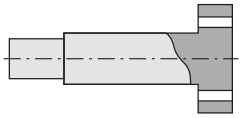
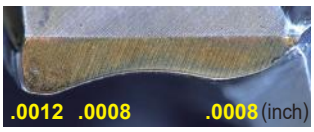
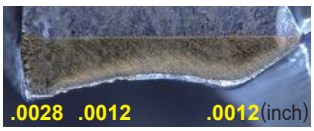
(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

(inch)

Work Material			Aluminum Alloy (Si<5%) ASTM 6061, 7075 etc.		Heat Resistant Alloy Inconel718 etc.	
DC		L/D	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)	vc (Min.—Max.) (SFM)	fr (Min.—Max.) (IPR)
inch	mm					
.0394	1.0	2,7DC	195 (150—230)	.0020 (.0012—.0031)	35 (15—50)	.0008 (.0004—.0012)
		≥12DC	165 (130—195)	.0020 (.0012—.0031)	35 (15—50)	.0008 (.0004—.0012)
.0591	1.5	2,7DC	260 (195—295)	.0028 (.0020—.0047)	35 (15—50)	.0012 (.0008—.0016)
		≥12DC	230 (180—260)	.0031 (.0020—.0047)	35 (15—50)	.0012 (.0008—.0016)
.0787	2.0	2,7DC	295 (230—345)	.0039 (.0024—.0059)	50 (35—65)	.0016 (.0012—.0020)
		≥12DC	260 (195—295)	.0043 (.0024—.0059)	50 (35—65)	.0016 (.0012—.0020)
.0984	2.5	2,7DC	330 (260—375)	.0051 (.0031—.0079)	50 (35—65)	.0020 (.0016—.0024)
		≥12DC	295 (230—345)	.0055 (.0031—.0079)	50 (35—65)	.0020 (.0016—.0024)
.1260	3.2	2DC	395 (260—490)	.0091 (.0039—.0138)	65 (30—80)	.0028 (.0020—.0035)
		3,5,8DC	395 (310—460)	.0091 (.0039—.0138)	65 (50—80)	.0028 (.0020—.0035)
		10,15,20,25,30DC	330 (195—425)	.0091 (.0039—.0138)	65 (30—80)	.0028 (.0020—.0035)
		35,40DC	260 (130—360)	.0071 (.0031—.0110)	50 (30—65)	.0024 (.0016—.0028)
.1575	4.0	2DC	395 (260—490)	.0094 (.0047—.0138)	65 (30—80)	.0035 (.0024—.0043)
		3,5,8DC	395 (310—460)	.0094 (.0047—.0138)	65 (50—80)	.0035 (.0024—.0043)
		10,15,20,25,30DC	330 (195—425)	.0094 (.0047—.0138)	65 (30—80)	.0035 (.0024—.0043)
		35,40DC	260 (130—360)	.0075 (.0039—.0110)	50 (30—65)	.0028 (.0020—.0035)
.1969	5.0	2DC	395 (260—490)	.0098 (.0059—.0138)	65 (30—80)	.0043 (.0031—.0055)
		3,5,8DC	395 (310—460)	.0098 (.0059—.0138)	65 (50—80)	.0043 (.0031—.0055)
		10,15,20,25,30DC	330 (195—425)	.0098 (.0059—.0138)	65 (30—80)	.0043 (.0031—.0055)
		35,40DC	260 (130—360)	.0079 (.0047—.0110)	50 (30—65)	.0035 (.0024—.0043)
.2480	6.3	2DC	490 (360—590)	.0138 (.0079—.0197)	80 (50—100)	.0051 (.0035—.0063)
		3,5,8DC	490 (395—560)	.0138 (.0079—.0197)	80 (65—100)	.0051 (.0035—.0063)
		10,15,20,25,30DC	425 (295—525)	.0138 (.0079—.0197)	65 (30—80)	.0051 (.0035—.0063)
		35,40DC	345 (210—440)	.0110 (.0063—.0157)	50 (30—65)	.0039 (.0028—.0051)
.3150	8.0	2DC	490 (330—560)	.0138 (.0079—.0197)	80 (50—100)	.0055 (.0043—.0063)
		3,5,8DC	490 (395—560)	.0138 (.0079—.0197)	80 (65—100)	.0055 (.0043—.0067)
		10,15,20,25,30DC	425 (260—490)	.0138 (.0079—.0197)	65 (30—80)	.0055 (.0043—.0063)
		35,40DC	345 (180—410)	.0110 (.0063—.0157)	50 (30—65)	.0043 (.0035—.0051)
.3937	10.0	2DC	490 (330—560)	.0197 (.0079—.0315)	80 (50—100)	.0059 (.0047—.0067)
		3,5,8DC	490 (395—560)	.0197 (.0079—.0315)	80 (65—100)	.0059 (.0047—.0067)
		10,15,20,25,30DC	425 (260—490)	.0197 (.0079—.0315)	65 (30—80)	.0059 (.0047—.0067)
		35,40DC	345 (180—410)	.0157 (.0063—.0252)	50 (30—65)	.0047 (.0039—.0055)
.4724	12.0	2DC	525 (330—560)	.0197 (.0079—.0315)	80 (50—100)	.0063 (.0051—.0071)
		3,5,8DC	525 (410—590)	.0197 (.0079—.0315)	80 (65—100)	.0063 (.0051—.0071)
		10,15,20,25,30DC	460 (260—490)	.0197 (.0079—.0315)	65 (30—80)	.0063 (.0051—.0071)
		35,40DC	375 (180—410)	.0157 (.0063—.0252)	50 (30—65)	.0051 (.0039—.0055)
.6299	16.0	2DC	525 (330—560)	.0197 (.0079—.0315)	80 (50—100)	.0067 (.0055—.0075)
		3,5,8DC	525 (410—590)	.0236 (.0079—.0394)	80 (65—100)	.0071 (.0055—.0083)
		10,15,20,25,30DC	460 (260—490)	.0197 (.0079—.0315)	65 (30—80)	.0067 (.0055—.0075)
		35,40DC	375 (180—410)	.0157 (.0063—.0252)	50 (30—65)	.0055 (.0043—.0059)
.7874	20.0	3,5,8DC	560 (445—655)	.0236 (.0079—.0394)	100 (65—115)	.0075 (.0059—.0087)

(Note) For the spindle revolution of diameters not shown in the table, please adjust to the conditions of larger and closest diameter, or calculate from the cutting speed of the closest diameter. For the feed rate per revolution, please set up within the recommended feed rate of the closest diameter appropriately.

Application Example

Drill		MVS0300X03S030	MVS0620X03S070	MVE0370X02S040
Workpiece		AISI 1010 (Automobile Parts) 	AISI 1045 (Machinery Parts) 	AISI 304 (Ink-jet Head) 
Cutting Conditions	Cutting Speed (SFM)	185	141	75
	Feed Rate (IPR)	.003	.004	.004
	Hole Depth (Inch)	.295	.346	.197
Cutting Mode		Water-insoluble	Water-insoluble	Water-insoluble
Result		Cutting Length 197 feet **MVS**  Conventional  MVS exhibits slight wear and can continue machining further.	Cutting Length 231 feet **MVS**  Conventional  MVS exhibits slight wear and can continue machining further.	Number of Holes 800 holes Cutting Length 131 feet **MVE**  Conventional  MVE shows a small amount of wear and a 20% rise of the number of machining.

Memo

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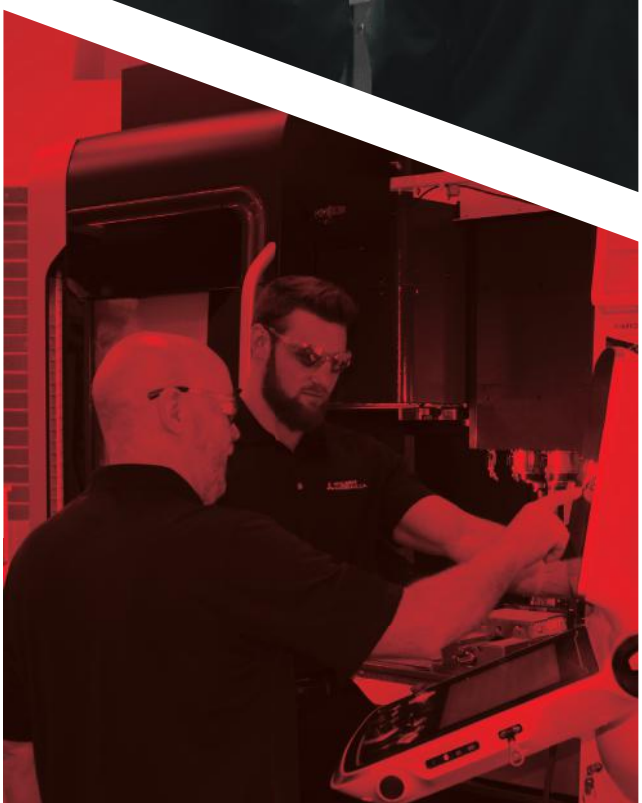
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FOR YOUR SAFETY

- Don't handle inserts and chips without gloves.
- Please machine within the recommended application range and exchange expired tools with new ones in advance of breakage.
- Please use safety covers and wear safety glasses.
- When using compounded cutting oils, please take fire precautions.
- When attaching inserts or spare parts, please use only the correct wrench or driver.
- When using rotating tools, please make a trial run to check run-out, vibration and abnormal sounds etc.

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Tools specifications subject to change without notice.

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