

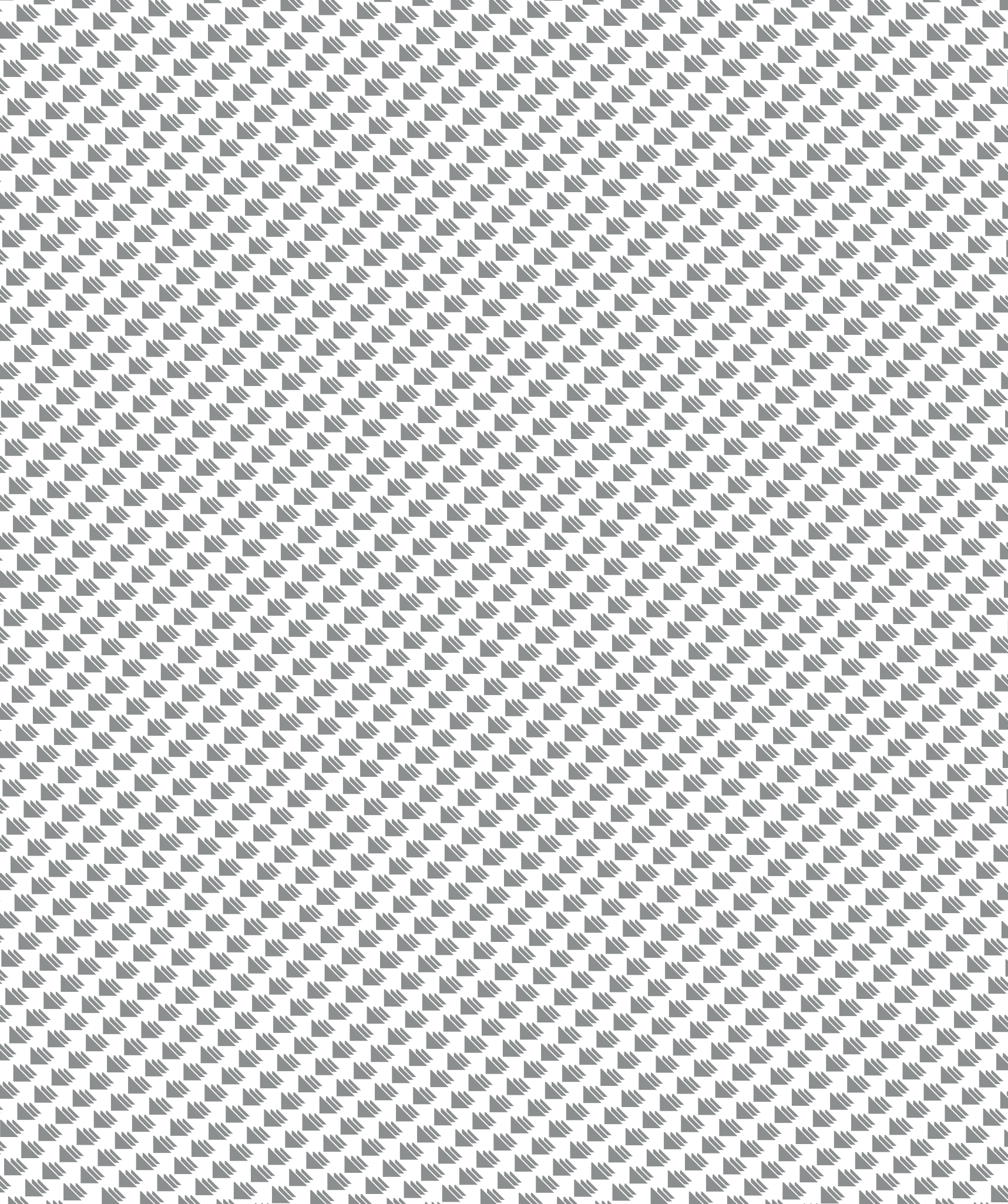


GROUND
SUPPORT
EQUIPMENT

tips®



Engineered for Sustainability. Built for Performance.



SMART ENGINEERING FOR HANDS ON PERFORMANCE

For nearly six decades, TIPS has been advancing ground support equipment through intelligent engineering and practical innovation. Our solutions are designed to improve handling efficiency, enhance safety, reduce environmental impact, and lower operating costs delivering measurable value where it matters most.

Designed for seamless operation and uncompromising reliability, our equipment provides safe, efficient, and consistent performance even in the most demanding environments.

Beyond delivery, we are a long-term partner, providing continuous support and service to ensure our products maintain their value, safety, reliability and performance throughout their entire lifecycle, while contributing to more sustainable airport operations.



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www.tips-gse.com



TIPS SOLUTIONS



Oil free



Maintenance free



Electro solution



Solar panels



Self sufficient



Li-ion battery



Power battery



Diesel drive



Electric drive



Range extender



ADPS (Aircraft damage prevention system)



Diagnostics



Camera



Possible implementation of rollertrack



Integrated PRM lifting system



Fix Boom



Telescopic Boom

SOLUTIONS BEYOND THE EQUIPMENT

Performance is not a one-time delivery, it must be sustained, supported and proven every single day.

Investing in ground support equipment is more than purchasing a product. It is choosing a solution that supports operations over time. At TIPS, reliability is not defined by equipment alone, but by the expertise and support behind it.

This integrated approach ensures that our equipment delivers consistent, dependable performance in real operational conditions, while evolving alongside changing requirements.

The result goes beyond reliability in the moment, it provides long-term efficiency, reduced operational risk and a lower **total cost of ownership**.

The Right Support, Exactly When You Need It.

From expert training and responsive spare parts logistics to fast, efficient on-site service, we keep your operations moving.



Advanced Training

► **Knowledge that
drives performance.**

Well-trained operators work more safely and efficiently. Our training programs reduce operating errors, prevent damage and extend equipment lifespan.



Spare Parts Logistics

► **The right part,
right on time.**

We ensure quick identification and delivery of the right components, minimising downtime and keeping operations running.



Service on Location

► **Support where it
matters the most.**

Our service teams respond quickly and resolve issues directly on site, maintaining performance where it counts.

SUSTAINABLE GROUND SUPPORT

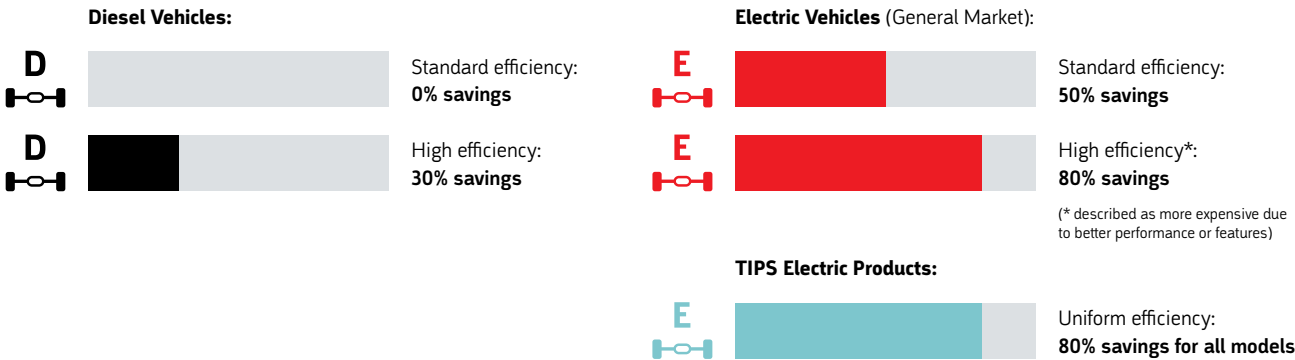
TIPS is driving the transition to more sustainable airport operations through intelligent electric ground support equipment. Our solutions combine high performance with lower environmental impact, helping airports and ground handlers operate more efficiently while reducing emissions and noise.

Engineered with advanced energy management, regenerative braking, and smart control systems, TIPS electric equipment delivers reliable performance, reduced energy consumption, and lower lifecycle costs.

Designed to meet the highest environmental standards, our solutions support safer, cleaner, and more sustainable ground operations.

By combining intelligent engineering with practical innovation, TIPS helps the aviation industry move confidently toward a zero-emission future.

Efficiency Diagram



Environmental Impact



REDUCED EMISSIONS

Electric GSE produce zero tailpipe emissions, reducing greenhouse gases and improving air quality while supporting environmental compliance.



NOISE REDUCTION

Near-silent operation lowers noise levels across aprons, hangars and gates, creating a quieter working environment and minimizing disturbance.



HEALTH AND SAFETY

Zero exhaust emissions create a cleaner, safer, and healthier workplace for ground crews while improving overall working conditions.

Economic Benefits



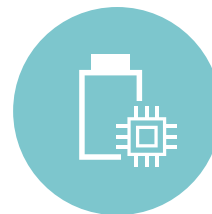
SELF-SUFFICIENCY AND LOWER MAINTENANCE

With up to 98% self-sufficiency, TIPS equipment minimizes maintenance requirements, reduces service costs, and maximizes operational availability.



LONG-TERM COST SAVINGS

Electric drivetrains reduce mechanical complexity, resulting in lower maintenance costs, higher reliability and greater operational efficiency.

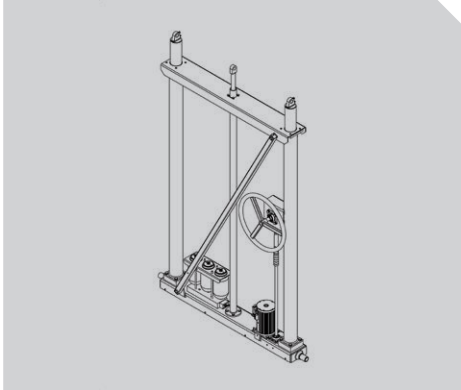


ADVANCED BATTERY SYSTEM

Custom battery systems and smart energy management deliver reliable power, extended operating time and consistent performance throughout demanding operations.

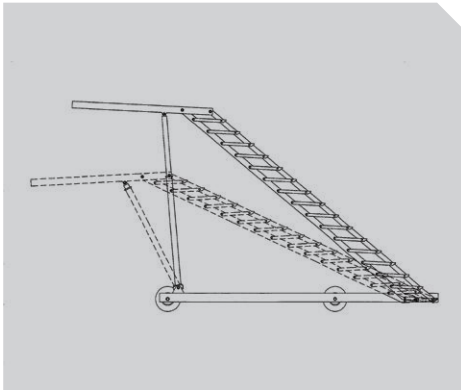
Patents

Patented solutions for safety, lower costs of use and maintenance, lower energy consumption. We believe that the best way to showcase the way we work and our commitment to your needs are the patents we've obtained.



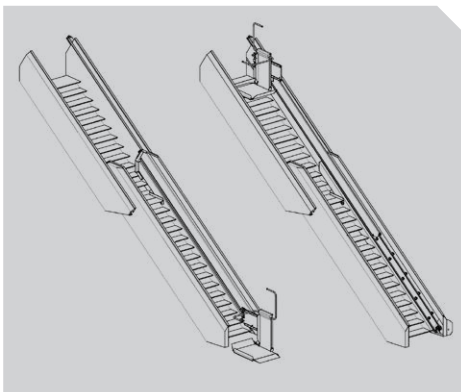
Platform height adjustment mechanism

This patented mechanism has several solutions for an absolutely parallel lifting of the platform – resulting in a weight distribution within foreseen limits that prevents bending or other construction damage that may lead to the stairs' inoperability. The removal of hydraulic components in the height change function guarantees the system's higher reliability. The hydraulics have been kept on the closed system for the counterbalance needed to reduce the forces for lifting and lowering the platform, which in return permits downsizing to a smaller electric motor and thus cuts energy consumption.



A parallelogram staircase with a walking surface inclination system for range increase

The standard EN 12312-1 allows for a $\pm 3^\circ$ step inclination from a horizontal level. Our patented solution led to a more than 30% range increase in a 16-stairs model: 2.2 - 3.6m instead of 2.4-3.5m. This increased range makes it possible to service all the variants of a Boeing 707, B727, B737 and all variants of an Airbus 318-319-320-321 with the same stairs.



Platform for transporting people with reduced mobility

The transporter for people with reduced mobility, mounted on telescopic passenger stairs, allows transfers from the airport platform to the aircraft (and back) for passengers on either their own wheelchairs or transporter's own seating facility. The platform lift follows the staircase through its entire length so that it stays all the time at the same distance from the walking path. When it reaches the platform's height, the wheelchair is simply pushed on / pulled off the transporter. It has a foldable base and security railing, which permits storage on the platform when the device is not in use. This position also enables unrestricted use of the stairs by other passengers. It is powered electrically and moves gently, ensuring that passengers feel secure and relaxed. Safety features are integrated.

MEETING THE STANDARDS

International standards set clear requirements for performance, durability and consistency, ensuring that equipment operates reliably and integrates seamlessly across global airport environments.

Built in accordance with these standards, our equipment delivers safe, dependable and consistent performance while fully meeting operational and regulatory requirements.

KEY STANDARDS AND REGULATIONS

ISO 9001

The globally recognised Quality Management System standard, ensuring continuous improvement, customer satisfaction, and consistent operational excellence.

EN 1915

General safety requirements for airport ground support equipment.

EN 12312 Series

Technical and safety standards for specific types of airport ground support equipment.

IATA AHM (Airport Handling Manual)

Industry guidelines for safe and standardised ground handling procedures.

EU Machinery Directive 2006/42/EC

European regulatory framework ensuring machinery safety and compliance within the EU.

DGUV Certification

Independent verification of operational safety and compliance with recognised safety requirements.



DESIGNED AROUND YOUR OPERATIONS

Every airport operation depends on equipment that delivers reliable performance, maximum safety, and operational efficiency.

At TIPS, every product is engineered to simplify ground handling, increase productivity, and perform consistently in the most demanding environments.

Key pillars behind every TIPS product:



PERFORMANCE & DURABILITY

Robust steel construction and components built for extended service life.

Corrosion-resistant protection for harsh operating environments reinforced chassis designs for long-term reliability.



EFFICIENCY & SUSTAINABILITY

Diesel and electric drive options for different operational needs.

Electric drive supporting low-emission and efficient operation. Travel speeds up to 25 km/h for efficient ramp movement. Reduced maintenance through simplified systems.



OPERATION & CONTROL

Ergonomic operator controls for intuitive handling.

Stable chassis design enabling precise and controlled operation.



SAFETY & DAMAGE PREVENTION

Aircraft Damage Prevention System (ADPS) for precise docking, enabling a non-touching policy and protection against damage.

Reduced operator intervention through automated safety functions.

Automatic lowering / emergency safety movement.



FLEXIBILITY & ADAPTABILITY

Modular design with multiple configuration options.

Adaptable to specific operational requirements.

THE FIRST STEP TO RELIABLE BOARDING

Passenger boarding stairs built around your operation, engineered for advanced performance, intuitive operation, low lifecycle costs and performance, no matter the weather.

KEY FEATURES:

- **Towable and self propelled configurations**
Suitable for aircraft from regional jets to narrow and wide body fleets.
- **Precise manoeuvring and docking systems**
Enabling accurate positioning at the aircraft door
- **Passenger focused design**
Including wide platforms, slip resistant stair surfaces and integrated lighting.
- **HIGHWAY series with integrated PRM lifting systems**
enabling safe and comfortable boarding for passengers with reduced mobility.

PRODUCT GROUP



PASSENGER STAIRS

PRODUCT NAME

HIGHWAY

RUNWAY

FREEWAY

WALKWAY

OPERATOR'S POST

PLATFORM

CABIN

PLATFORM

CABIN

PLATFORM

GROUND

DRIVE

DIESEL
DRIVE

ELECTRIC
DRIVE

DIESEL
DRIVE

ELECTRIC
DRIVE

DIESEL
DRIVE

ELECTRIC
DRIVE

DIESEL
DRIVE

ELECTRIC
DRIVE

DIESEL
DRIVE

ELECTRIC
DRIVE

TOW

HIGHWAY Series



Scan the QR code
to explore more
product details,
specifications and
available options.



HIGHWAY Series

HIGHWAY2236Pe



HIGHWAY2458Cd



RUNWAY Series



RUNWAY1842Pe



Li-ion



RUNWAY2236Pe





RUNWAY2458Cd



RUNWAY2458Pd



FREEWAY Series





FREEWAY1842Pe



FREEWAY2458Pd



WALKWAY Series

WALKWAY2236T

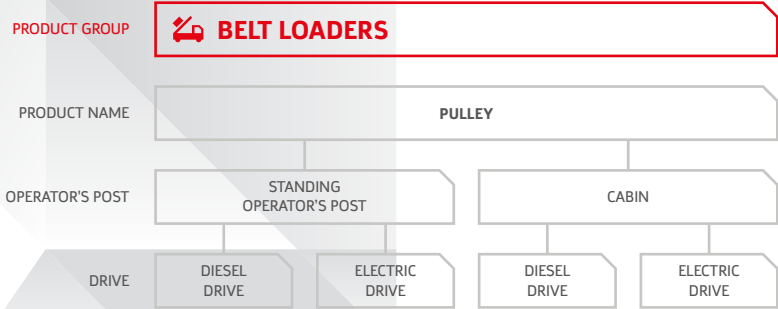


FLEXIBLE REACH MAXIMUM STABILITY

PULLEY series is engineered for safe, efficient, and reliable baggage handling. With outstanding stability and flexible boom configurations it maximizes productivity across wide range of aircraft and ramp operations.

KEY FEATURES:

- **Fixed and telescopic boom options**
Allowing adaptation to different aircraft heights and operational requirements.
- **Boom lengths from 4 to 9 metres**
With compact models offering telescopic reach up to 6 metres.
- **Exceptionally low centre of gravity**
Ensuring outstanding stability during loading and unloading operations.
- **Electric version with travel speeds up to 25 km/h**
Enabling efficient movement across the ramp.
- **Reinforced front axle with wider wheels**
Ensuring improved grip and reliable performance in all weather conditions.
- **Adjustable belt speed up to 0.8 m/s**
Operating angle up to 24° for efficient baggage handling.



PULLEY Series



BELT LOADERS



PULLEY90Se



PULLEY46Ce



PULLEY69Cd



PULLEY75Ce

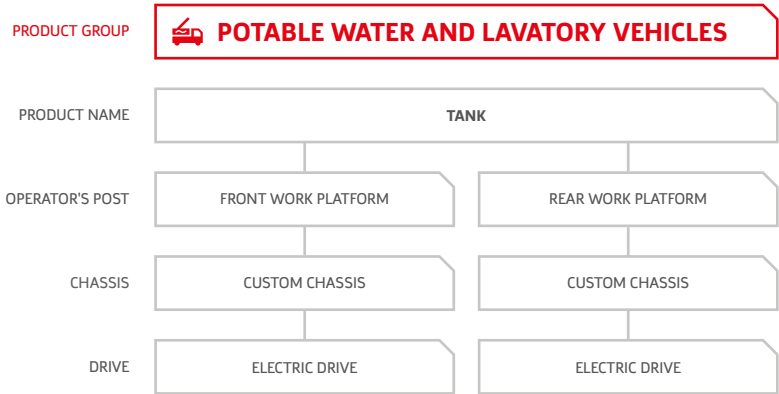


ENGINEERED FOR CLEAN OPERATIONS

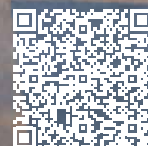
TANK series offers a comprehensive range of aircraft water and lavatory service vehicles designed for clean, controlled and easy servicing operations.

KEY FEATURES:

- **Waste tanks from 500 L up to 1,500 L**
Rinse water tanks from 200 L up to 700 L.
- **Service panel height range from 2.6 m to 4.7 m**
Enabling compatibility with a wide variety of aircraft types.
- **Stainless steel tanks**
Providing durability, hygiene and corrosion resistance.



TANK Series



POTABLE WATER VEHICLES



TANK1215Pf



Li-ion



TANK0707Pr



Li-ion





TANK1215Lf



Li-ion



TANK0505Lr



Li-ion



COMPACT SIZE GIANT PERFORMANCE

The THRUSTER is compact in size, yet built for agility and control, with excellent visibility for safe and precise operation.

KEY FEATURES:

- **Towing capacity of up to 8,600 kg**
Enabling efficient handling of demanding transport tasks.
- **Compact dimensions**
Ensuring excellent manoeuvrability in confined apron environments.
- **Automatic rear coupling system**
Allowing fast and easy hitching of dollies and trailers.
- **Optional front coupling**
Providing additional operational flexibility.
- **Inching function**
Enabling precise forward and reverse movement during manoeuvring.
- **Large glass surfaces**
Providing excellent all-round visibility for safe operation.

PRODUCT GROUP

 **TOW TRACTOR**

PRODUCT NAME

THRUSTER

OPERATOR'S POST

CABIN

DRIVE

ELECTRIC
DRIVE

THRUSTER



THRUSTER3025Ce



BUILT FOR THE LOAD READY FOR THE MOVE

The CARGO series combines dollies and cargo trailers built for durability, smooth handling and controlled cargo movement.

KEY FEATURES:

- **Portfolio includes container dollies, baggage trailers and freight trailers**
Enabling flexible use across different operational scenarios.
- **Optimised loading platforms**
Supporting smooth and efficient cargo handling.
- **Secure locking and guidance systems**
Ensuring safe transport of containers and baggage.
- **Stable chassis design and optimised dimensions**
Providing excellent manoeuvrability on busy aprons.

PRODUCT GROUP



CONTAINER DOLLIES, FREIGHT TRAILERS & BAGGAGE TRAILERS

PRODUCT NAME

CARGO

TYPE

CONTAINER

FREIGHT

BAGGAGE

CARGO Series





CARGO0125F**CARGO**2710B



CARGO1713B



CARGO2515B



CARGO1911V**CARGO2014V**

BUILT FOR ACCESS TO GET THE JOB DONE

The DOCK series supports routine servicing and technical maintenance with stable, safe and reliable access solutions. Designed for efficient positioning and secure use, it supports technicians in demanding operational environments.

PRODUCT GROUP



WORKING STAIRS

PRODUCT NAME

DOCK

TYPE

WORKING

STORAGE

KEY FEATURES:

- **Portfolio includes W series working stairs and S series storage stairs**
Providing solutions for different heights and operational requirements.
- **Towable design with integrated stabilisers**
Ensuring secure positioning and stability during operation.
- **Stable platforms and optimised working areas**
Supporting safe and efficient maintenance tasks.
- **Protective bumpers**
Preventing aircraft contact and improving operational safety.

DOCK Series



DOCK3250S



**DOCK3250W****DOCK3500M**



DOCK2250W



DOCK1750W



From Family Roots To Global Airports

Nearly six decades of engineering expertise
shaping reliable ground support equipment.



A family-driven company growing along side the global aviation industry.

TIPS was founded in 1969 by Stane Pustavrh as a specialised engineering workshop focused on the development and modification of special-purpose vehicles. Only a year later, the company began receiving its first requests for airport ground support equipment. Even those early units were built with such precision and durability that some remain in operation decades later.

At the heart of the company remains the commitment of the founding family. Today, the third generation of the Pustavrh family is actively involved in shaping the future of TIPS, bringing new ideas, innovation and a global perspective while preserving the craftsmanship, reliability and attention to detail that have defined the company from the very beginning.

For TIPS, success is not measured only by the number of machines delivered, but by the long-term relationships built with customers and partners around the world, generation after generation. We are committed to supporting our customers throughout the entire lifecycle of every machine with responsive service, technical expertise, and reliable spare parts support.



VISION

World Leader in Customer Satisfaction

TIPS wants to shape the future of ground support through intelligent engineering, sustainable solutions and performance our customers can rely on, throughout the whole lifecycle.

MISSION

Delivering customer value through innovation and reliability

To design and deliver smart, reliable GSE solutions that improve operational efficiency and create longterm value for our customers worldwide.

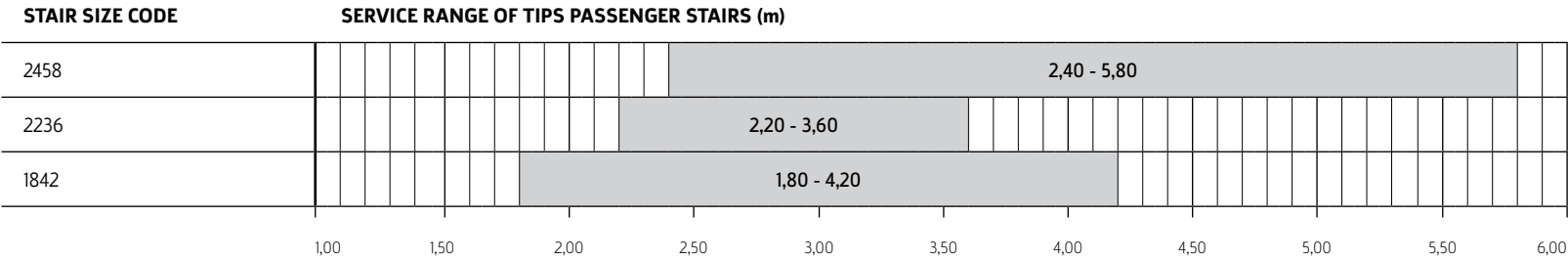
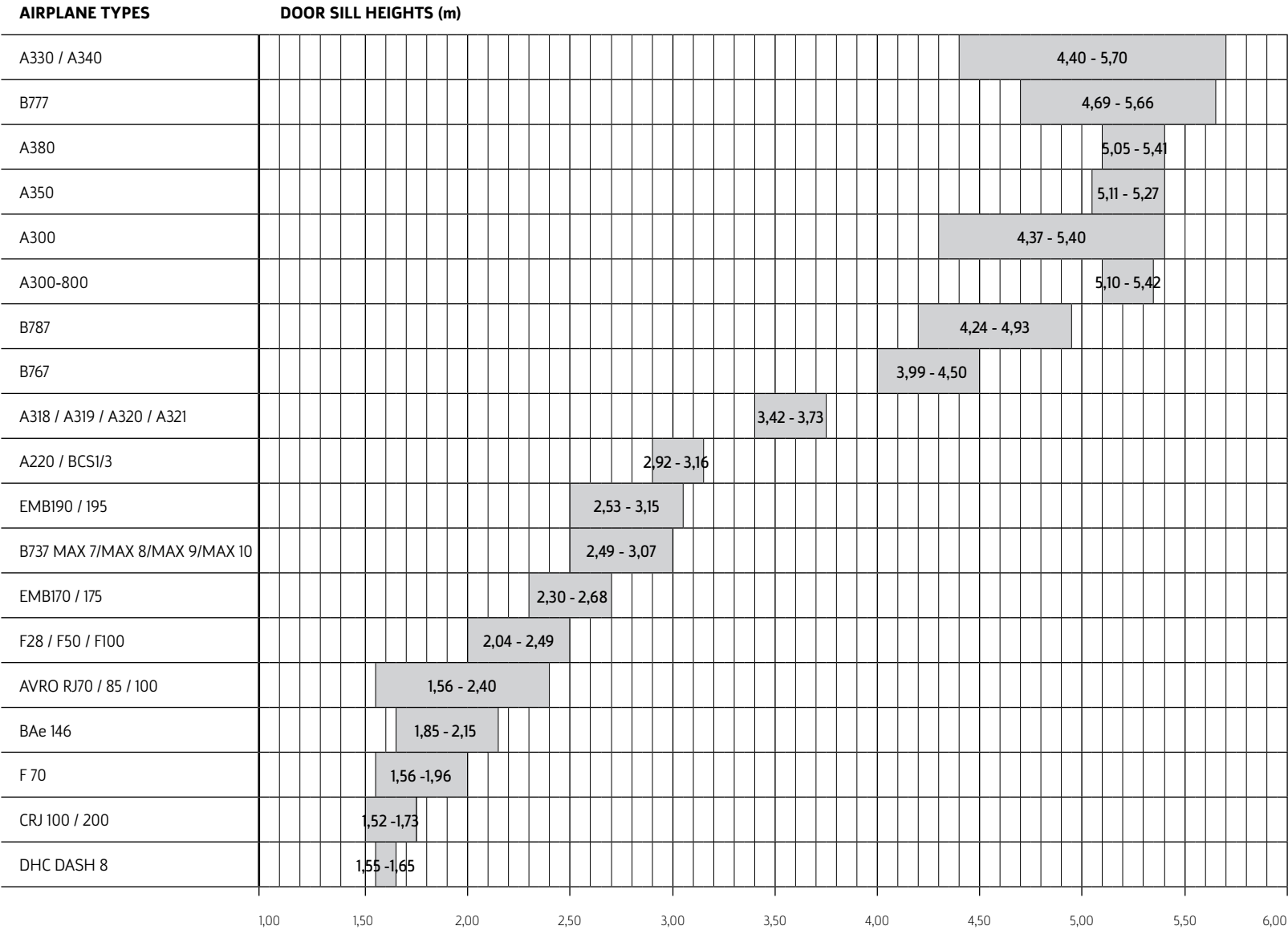
The Future is Autonomous

Be a part of what comes next.



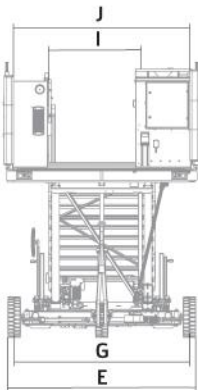
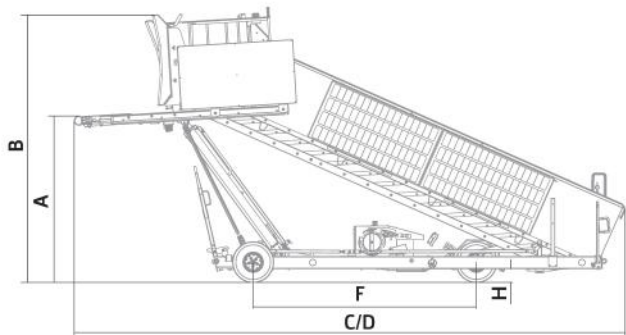
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TIPS PASSENGER STAIRS			Ranges		Operator's post			Energy source			Model
Tow unit	Low speed self propelled unit with boosted functions (Max 6 km/h)	Self propelled unit (Max 15 or 25 km/h)	Lowest point of the platform [dm - decimetre]	Highest point of the platform [dm - decimetre]	Tow bar: Operator's post beside the control bar (pedestrian) in front of the step Cabin: Operator's post in the cabin Platform: Standing operator's post on the platform			Tow tractor	Diesel: 9kW, 14 kW, 37 kW or 57 kW Electric: 24 V or 80 V, depends on the driving speed		All possible versions
WALKWAY			22	36	T			/			WALKWAY2236T
	FREEWAY		18	42			P		d	e	FREEWAY1842Pd / Pe
			22	36			P			e	FREEWAY2236Pe
			24	58			P		d	e	FREEWAY2458Pd / Pe
		RUNWAY	18	42			P		d	e	RUNWAY1842Pd / Pe
			18	42		C			d	e	RUNWAY1842Cd / Ce
			22	36			P			e	RUNWAY2236Pe
			24	58			P		d	e	RUNWAY2458Pd / Pe
			24	58		C			d	e	RUNWAY2458Cd / Ce
		HIGHWAY	22	36			P			e	HIGHWAY2236Pe
			24	58			P		d	e	HIGHWAY2458Pd / Pe
			24	58		C			d	e	HIGHWAY2458Cd / Ce

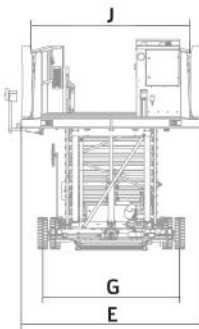
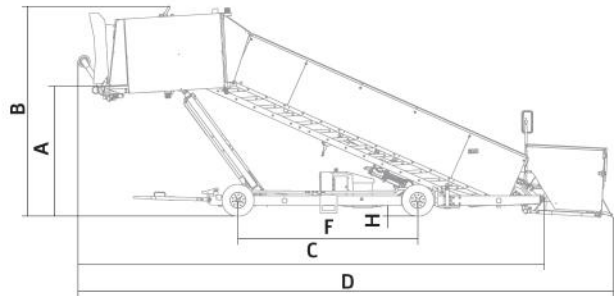


TIPS PASSENGER STAIRS	WALKWAY2236P	FREEWAY2236P	RUNWAY2236P	HIGHWAY2236P	FREEWAY1842 RUNWAY1842P	FREEWAY2458 RUNWAY2458P	RUNWAY1842C	RUNWAY2458C	HIGHWAY2458P	HIGHWAY2458C
Technical data	PARALELOGRAM				TELESCOPIC					
A min - Platform height (mm)	2.292	2.159	2.123	2.163	1.765	2.363	1.765	2.363	2.363	2.363
A max - Platform height (mm)	3.592	3.586	3.586	3.586	4.187	5.776	4.187	5.776	5.776	5.776
B - Towing height (mm)	3.453	3.500	3.470	3.470	3.410	3.788	3.210	3.800	3.788	3.800
C - Towing lenght (mm)	7.315	7.400	7.500	7.760	6.780	9.435	7.280	7.880	9.435	8.250
D - Parking lenght (mm)	7.315	7.400	7.500	8.900	6.780	8.401	7.280	7.880	9.500	9.500
E - Overall width (mm)	2.324	2.545	3.000	3.000	3.500	3.500	3.500	3.500	3.500	3.500
F - Wheelbase (mm)	2.821	2.900	3.000	3.000	3.200	3.200	3.200	3.200	3.200	3.200
G - Track (mm)	2.164	2.280	2.290	2.290	2.290	2.290	2.290	2.290	2.290	2.290
H - Ground clearance (mm)	150	150	150	150	150	150	150	150	150	150
I - Internal stairflight width (mm)	1.215	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200
J - Internal platform width (mm)	2.183	2.295	2.600	2.600	2.900	2.900	2.900	2.900	2.900	2.900
K - Minimal headroom with roof (mm)	/	/	5.060	5.060	4.350	5.350	4.350	5.350	5.350	5.350
Nr. of steps	16	16	16	16	19	27	19	27	27	27
Step height (mm)	152 - 200	152 - 200	152 - 200	152 - 200	189	189	189	189	189	189
Step depth (mm)	266 - 296	266 - 296	266 - 296	266 - 296	300	300	300	300	300	300
Turning circle (wall – wall) (m)	12	13,5	15	15	16					
Stairflight inclination	25°- 40°				32° - 38°		32° - 38°		32° - 38°	
Platform and step inclination	-3° / +3°				-3° / +3°		-3° / +3°		-3° / +3°	
Load capacity, weight										
Total number of persons	42	44	44	44	55	75	55	75	75	75
Stairs nett weight (ca.) (kg)	1.750	2.400	2.670	3.190	7.300	7.500	7.350	7.550	10.500	10.500
Wind stability										
Allowed wind speed in working stabilized position (kn)	45	50	50	45	50	50	50	50	45	45
Velocity										
Drive speed (km/h)	0 / 4	6	15	15	6 / 15	6 / 15	25	25	15	25

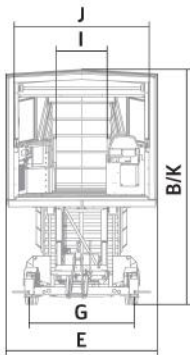
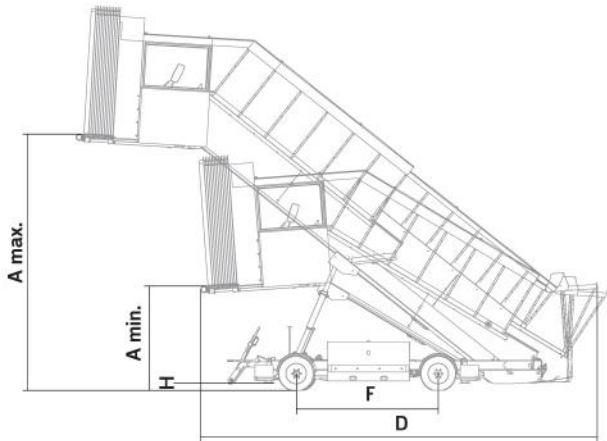
WALKWAY2236 & FREEWAY2236



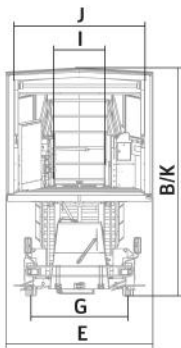
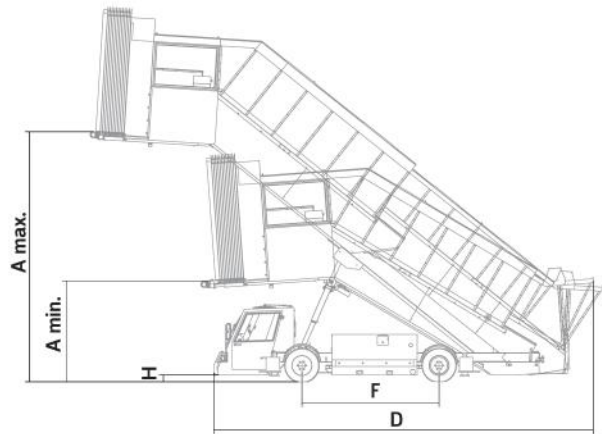
RUNWAY2236 & HIGHWAY2236



FREEWAYP & RUNWAYP & HIGHWAYP

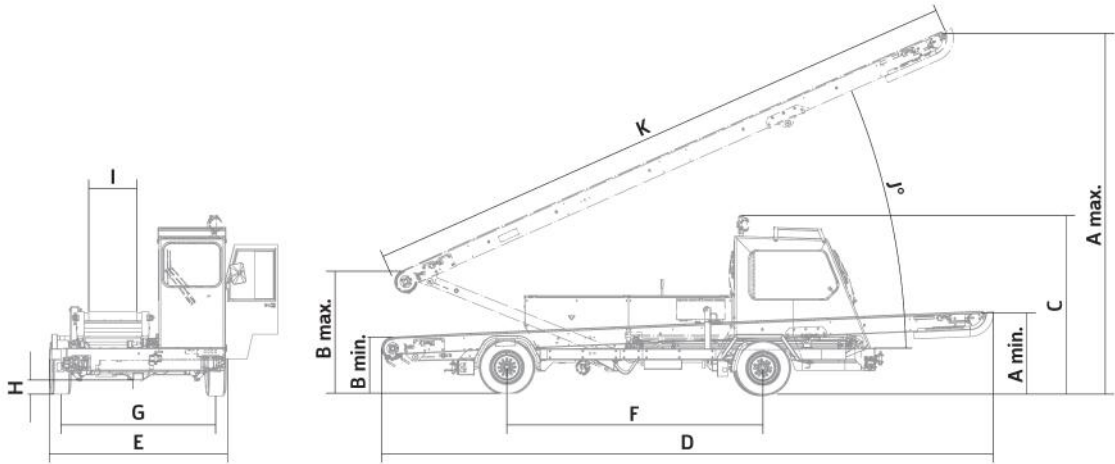


RUNWAYC & HIGHWAYC



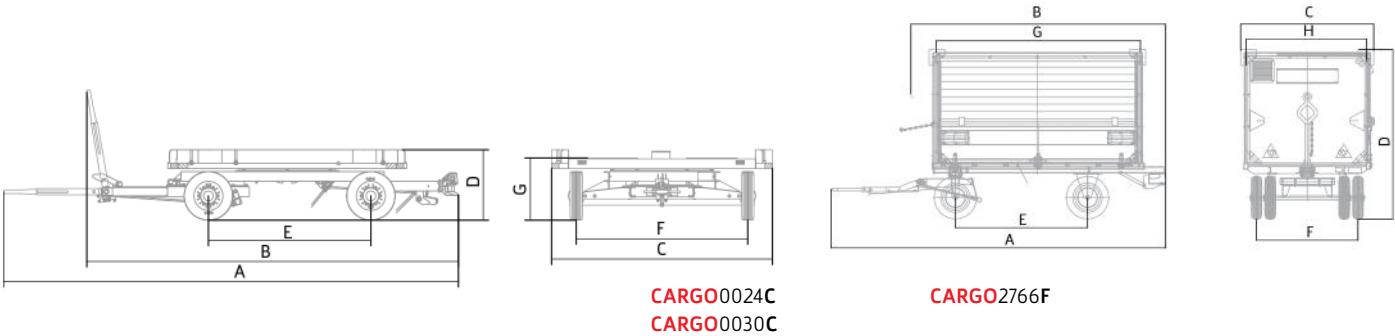
AIRPLANE TYPES	DOOR SILL HEIGHTS (m)																		
DHC DASH 8						0,85 - 1,15													
BAe 146						0,85 - 1,15													
CRJ 100 / 200							0,99 - 1,24												
AVRO RJ70 / 85 / 100						0,79 - 1,02													
F70								1,19 - 1,80											
F28 / F50 / F100								1,19 - 1,80											
EMB170 / 175									1,46 - 1,60										
B737								1,17 - 1,45											
MD-80									1,10 - 1,70										
EMB190 / 195										1,57 - 2,08									
A220 / BCS1/3											1,70 - 2,00								
A318 / A319 / A320 / A321												2,01 - 2,51							
B757													2,36 - 2,77						
B767														2,18 - 2,57					
B787															2,36 - 2,90				
A350																3,09 - 3,30			
A380																3,05 - 3,30			
B747																2,59 - 3,53			
B777																2,81 - 3,61			
A300																2,49 - 3,26			
A330 / A340																2,58 - 3,58			
	0,50					1,00				1,50					2,00	2,50	3,00	3,50	4,00
BELT LOADERS SIZE CODE	SERVICE RANGE OF TIPS BELT LOADERS (m)																		
46																			
75																			
69																			
90																			
	0,50					1,00				1,50					2,00	2,50	3,00	3,50	4,00

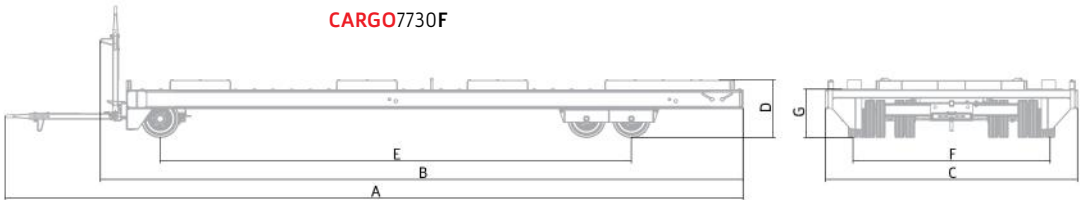
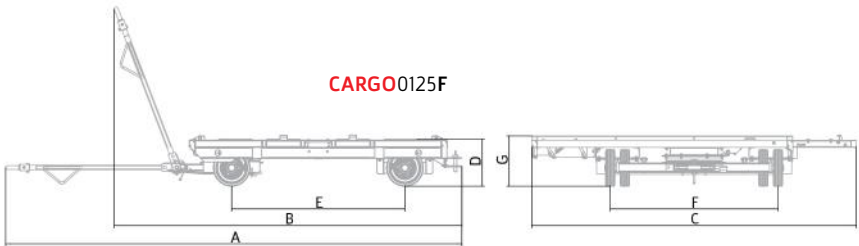
TIPS BELT LOADER	PULLEY46C	PULLEY75C/S	PULLEY69C/S	PULLEY90C/S
Technical data				
A max - Maximal reaching height of conveyor, front (mm)	3.000	4.509	5.178	5.211
A min - Minimal reaching height of conveyor, front (mm)	1.000	1.070	1.050	1.070
B max - Maximal reaching height of conveyor, rear (mm)	1.400	1.516	1.500	1.516
B min - Minimal reaching height of conveyor, rear (mm)	700	712	675	712
C - Minimal vehicle height (mm)	1.200	1.955	1.987	1.987
D - Minimal vehicle lenght (mm)	4.100	7.604	6.703	9.122
E - Owerall width (mm)	1.750	2.150	2.155	2.155
F - Wheelbase (mm)	2.000	3.170	3.170	3.170
G - Wheel track (mm)	1.290	1.930	1.930	1.930
H - Clearance (mm)	150	170	170	170
I - Belt width (mm)	600	600/800	600	600/800
J - Boom inclination	0 - 24°	0 - 24°	0 - 24°	0 - 24°
K - Boom lenght (m)	4 - 6	7,5	6 - 9	9
Belt speed (m/s)	0.2 - 0.8	0.1 - 0.6	0.1 - 0.6	0.1 - 0.6
Turning circle (wall-wall) (mm)	8.050	11.000	11.000	11.000
Capacity, weight				
Max load on belt (kg/m)	50	135	135	135
Nett weight (ca.) (kg)	2.500	4.000	4.270	4.200
Wind stability				
Allowed wind speed	45			
Velocity				
Maximal Tow speed	25	25	25	25
Maximal driving speed (km/h)	25	30	30	30



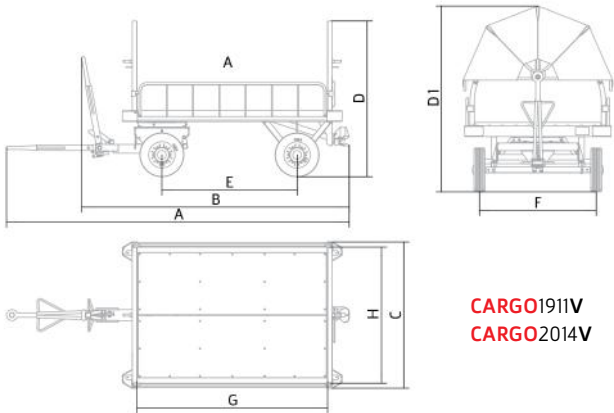
TIPS CONTAINER DOLLIES AND FREIGHT TRAILERS	CARGO0024C	CARGO0030C	CARGO0125F	CARGO7730F	CARGO2766F
Technical data					
A - Length (mm)	3.754	3.765	4.800	3.743	7.902
B - Length (raised towbar) (mm)	3.065	3.045	3.329	3.012	7.219
C - Width (mm)	1.820	1.820	3.560	3.400	2.700
D - Height (mm)	576	565	565	600	615
E - Wheelbase (mm)	1.340	1.500	1.900	1.656	4.400
F - Wheel track (mm)	1.415	1.630	1.841	2.185	2.100
G - Roller height	508	508	508	508	508
Cargo capacity (kg)	1.600	1.800	7.000	6.800	15.000
Weight (kg)	500	700	1.070	1.230	3.000
Turning circle (wall-wall) (mm)	8.300	8.400	11.000	10.500	13.100
Overrun brake			o		
Internal code	KD-2.4	CD-30	FT-125	FT-7730	FT-2766
Range of use					
LD-1	s	s	o		
LD-2	o	o	o		
LD-3	s	s	o		
LD-4			o	o	
LD-5			o		
LD-6			o		
LD-7			s		
LD-8			o		
LD-9			s		
LD-10			o		
LD-11			o		
LD-26					
LD-29			s		
61,5"x60"4					
96"x 60,4"					o
108"x 88"			s	s	
125"x60,4"			o		
125"x 88"			s	s	o
125"x 96"			s	s	o
20ft					s

s - standard, o - option

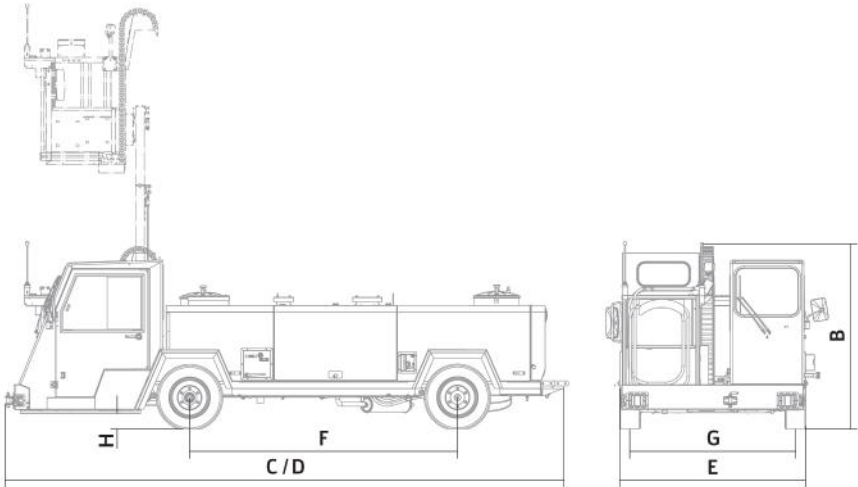




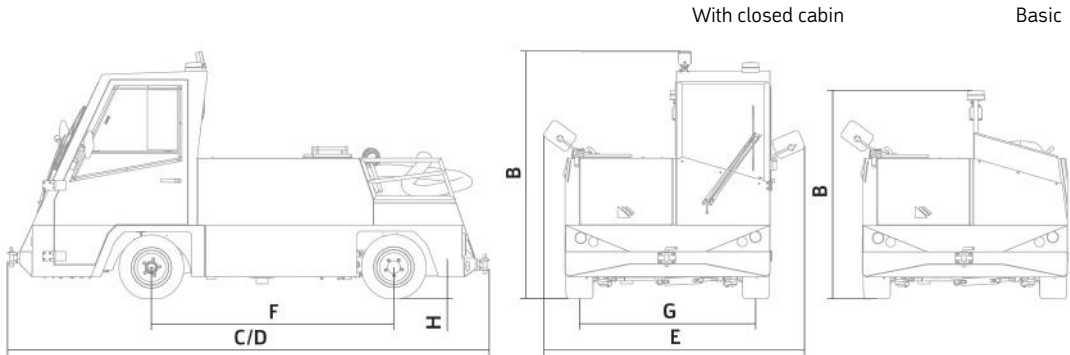
TIPS BAGGAGE TRAILERS	CARGO713B	CARGO1810B	CARGO2515B	CARGO2710B	CARGO3013B	CARGO1911V	CARGO2014V
Technical data							
A - Length (mm)	2.840	2.784	4.071	3.685	4.265	3.166	3.600
B - Length (raised towbar) (mm)	2.168	2.113	3.460	3.013	3.580	2.410	2.844
C - Width (mm)	1.350	1.006	1.592	1.006	1.592	1.259	1.550
D1 - Height overall (mm)	1.365	1.430	1.340	1.430	1.688	/	/
D - Height (without cover) (mm)	1.355	1.420	1.350	1.420	1.424	1.599	2.320
E - Wheelbase (mm)	1.201	1.190	1.650	2.090	1.950	1.250	2.008
F - Wheel track (mm)	880	870/590	1.314	870/590	1.317	965	1.218
G - Loading area lenght (mm)	1.700	1.800	2.500	2.700	3.000	1.932	2.000
H - Loading area width (mm)	1.250	1.000	1.500	1.000	1.350	1.115	1.400
Loading surface (m²)	2	2	4	3	4	2	2,8
Cargo capacity (kg)	900	1.000	1.600	1.500	2.000	1.000	2.000
Weight nett (kg)	220	160	420	185	408	360	512
Turning circle (mm)	6.000	6.000	6.000	6.400	6.400	6.200	6.200
Technical code	PV-1.7	GPW1800	PV-2.5	GPW2700	PV-3.0	/	FT2000
Tow speed (km/h)	25	25	25	25	25	25	25



TIPS POTABLE WATER VEHICLE	TANK1215Pf	TANK0707Pr
Technical data		
Chassis		
C/D - Length (mm)	6.150	3.860
E - Width (mm)	2.492	1.755
B - Height (mm)	1.345	1.230
F - Wheelbase (mm)	3.001	2.025
G - Track (mm)	1.858	1.560
Body height, max. (mm)	2.040	1930, cabin
Weight / Permissible total weight (kg)	4.210	3,300
Turning circle (wall-wall) (mm)	12.000	8.050
Hydraulic oil tank (l)	70	17
Driving speed (km/h)	25	25
Platform, Stairs		
Platform load capacity (kg)	120	Not available
A -Platform lift height (m)	3	Not available
Nr. of steps	Not available	2-3
Tank, Pumps		
Potable water tank (l)	1.200-1.500	700
Waste water tank (l)	500, option	/
Water pump pressure (bar)	2-4, switchable	2-4, switchable
Water pump flow rate (l/min)	80	80
Waste tank drainage	2", ball valve, manually operated	1,5", ball valve, manually operated
Other		
Electric system (V/Ah)	76V/280Ah	76V/280Ah

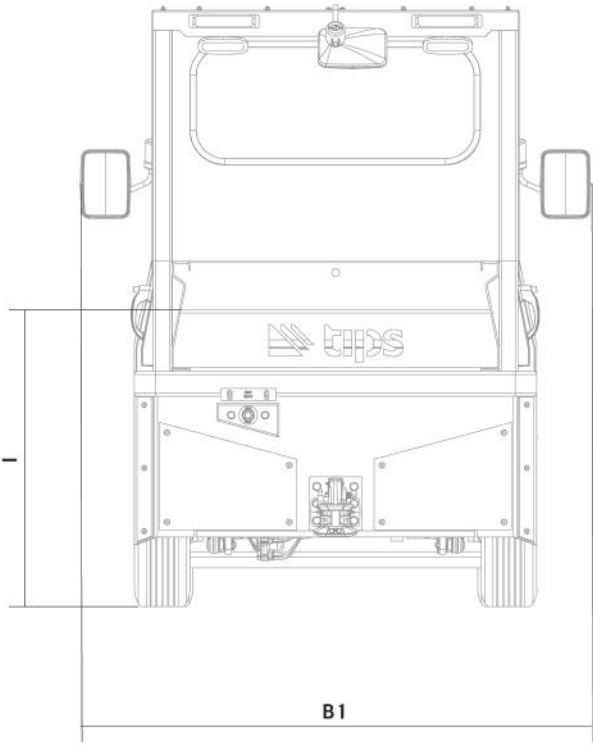
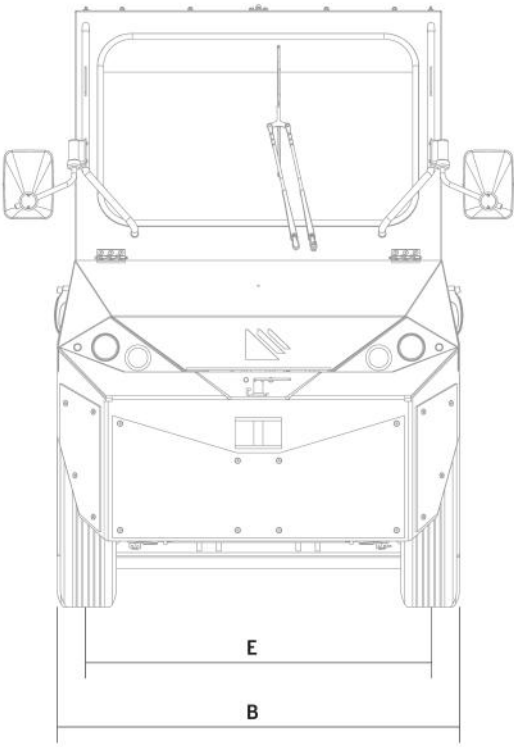
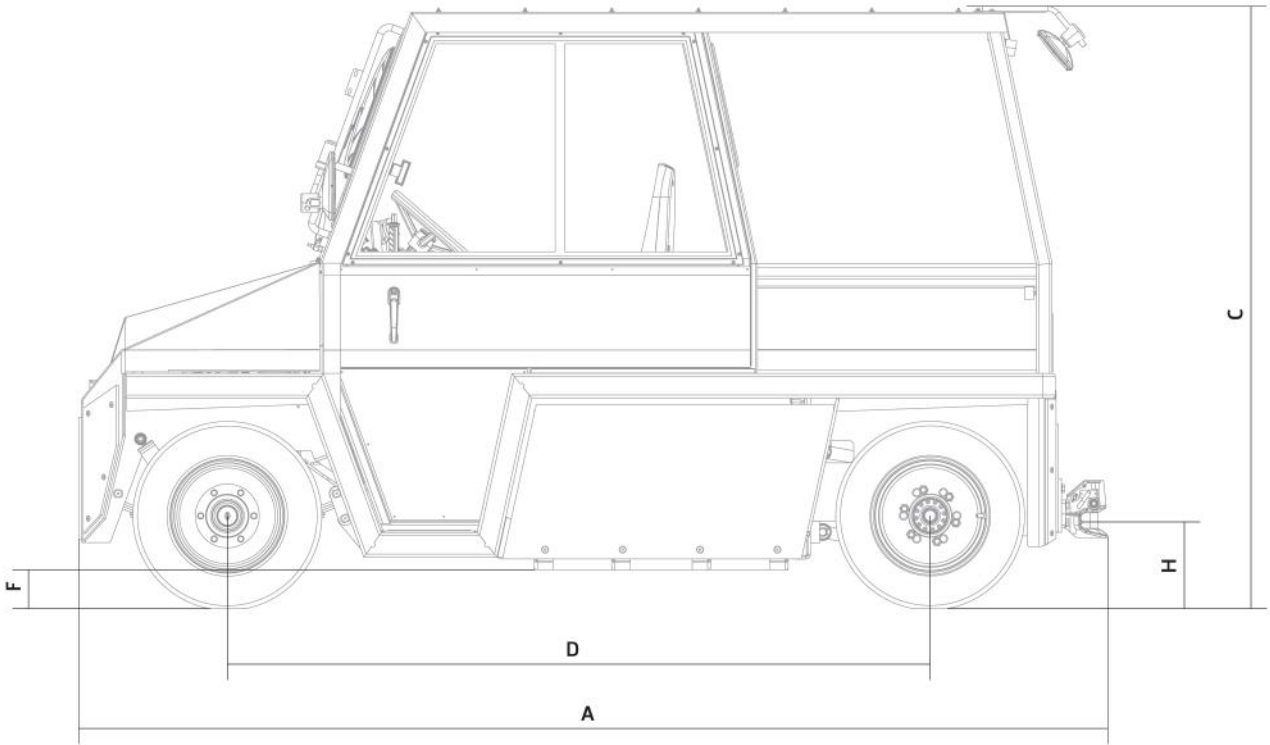


TIPS LAVATORY VEHICLE	TANK1215Lf	TANK0505Lr
Technical data		
Chassis		
C/D - Length (mm)	6.150	4.130
E - Width (mm)	2.492	2.050
B - Height (mm)	1.345	2.150
F - Wheelbase (mm)	3.001	2.080
G - Track (mm)	1.858	1.500
Body height, max. (mm)	2.040	1.650
Weight /Permissible total weight (kg)	4.210	3.500
Turning circle (wall-wall) (mm)	12.000	8.050
Hydraulic oil tank (l)	70	17
Driving speed (km/h)	25	25
Platform, Stairs		
Platform load capacity (kg)	120	Not available
A -Platform lift height (m)	3	Not available
Nr. of steps	Not available	2 or 3
Tank, pumps		
Wastewater tank (l)	1200-1500	500
Rinse tank (l)	700	200
Disinfectant tank (l)	100	Not available
Disinfectant mixture (%)	0-10, adjustable, option	0-10, adjustable, option
Water pump pressure (bar)	up to 4	up to 4
Water pump flow rate (l/min)	80	80
Vacuum pump flow rate (m^3/h)	200	130
Waste tank drainage	NW 100, manually operated	NW 100, manually operated
Other		
Electric system (V/Ah)	76V/280Ah	76V/280Ah



TECHNICAL DATA

TIPS TRACTOR		THRUSTER3025Ce
Technical data		
A - Length (mm)		3.326
B - Width (mm)		1.300
C - Height (mm)		2.000
D - Wheelbase (mm)		2.250
E - Track (mm)		1.103
F - Ground clearance (mm)		130
G - Turning circle (wall-wall) (mm)		8.500
H - Coupling height (mm)		280
Loading are (mm)		900 x 900
Weight (kg)		1.750
Battery weight (kg)		1.300
Electric system (V/Ah)		80/450
Rated drawbar pull (N)		8.000
Max. drawbar pull (N)		17.000
Towing capacity (industrial aplication) (kg)		20.000
Towing capacity (airports) (kg)		8.600
Max. travel speed (with 20.000kg) (km/h)		10
Max. travel speed (with 8600kg) (km/h)		15
Max. travel speed (without load) (km/h)		25
Gradeability (with 20.000kg) (%)		4
Gradeability (with 8.600kg) (%)		9
Gradeability (without load) (%)		32

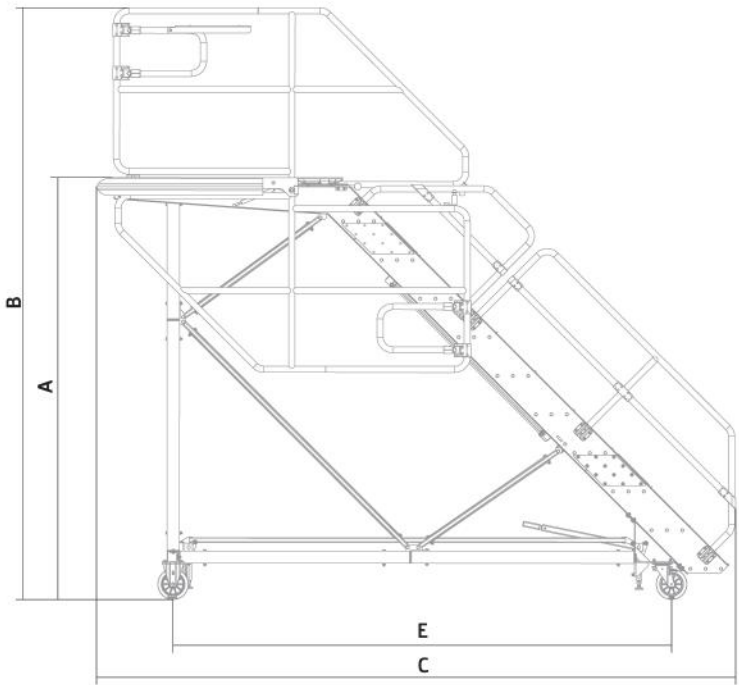
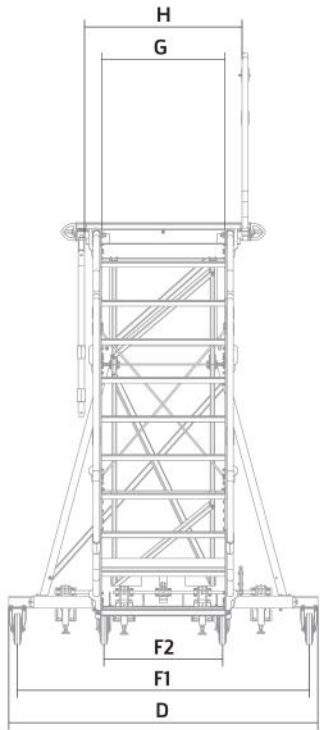


TECHNICAL DATA

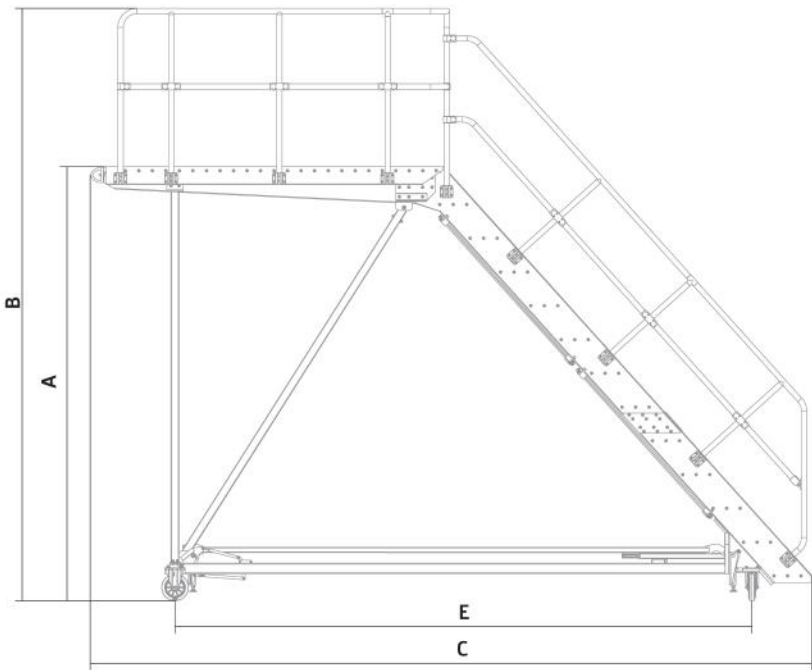
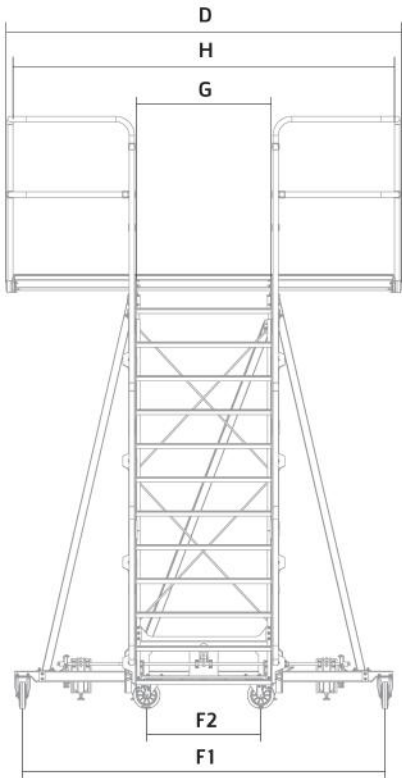
TIPS WORKING STAIRS	Platform height	Platform size (Width x lenght)		Operation		All possible version
		Working stairs: 1000 x 1200 mm	Storage stairs: 2800 x 2500 mm	Manual	Tow bar	
DOCK	1250	W		/	t	DOCK1250W / Wt
	1750	W		/	t	DOCK1750W / Wt
	2250	W		/	t	DOCK2250W / Wt
	2750	W	S	/	t	DOCK2750W / Wt / S / St
	3250	W	S	/	t	DOCK3250W / Wt / S / St
	3500	W	S	/	t	DOCK3500W / Wt / S / St

TIPS WORKING STAIRS	DOCK1250W	DOCK1750W	DOCK2250W	DOCK2750W	DOCK3250W	DOCK3500W	DOCK2750S	DOCK3250S	DOCK3500S
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Technical data									
A - Platform height (mm)	1.232	1.731	2.230	2.730	3.229	3.478	2.718	3.218	3.468
B - Overall height (mm)	2.283	2.782	3.282	3.841	4.280	4.529	3.888	4.388	4.638
C - Overall length (mm)	2.340	2.839	3.338	3.838	4.337	4.586	4.895	5.345	5.570
D - Overall width (mm)	1.372			2.000			2.950		
E - Wheelbase (mm)	1.729	2.228	2.727	3.226	3.726	3.975	3.825	4.275	4.500
F1 - Track front (mm)	1.088			1.888			2.685		
F2 - Track rear (mm)	768						845		
G - Internal stairflight width (mm)	800						1.000		
H - Internal platform width (mm)	1.070						2.800		
Possible platform lengths (mm)	1200	1200, 1500, 2100					2500		
Nr. of steps	5	7	9	11	13	14	11	13	14
Step height (mm)	250						250		
Step depth (mm)	250						225		
Stairflight inclination	45°						48°		
Load capacity, weight									
Load capacity (kg)	300						600		
Stairs nett weight (ca.) (kg)	304	353	398	523	576	601	607	660	685
Velocity									
Max. towing speed speed (km/h)	15	15	15	15	15	15	15	15	15



WORKING STAIRS



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