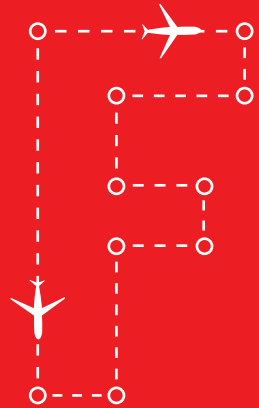
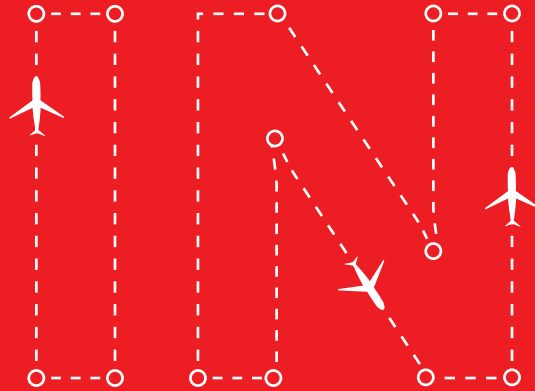




GROUND
SUPPORT
EQUIPMENT

tips®



2026

CARGO



TIPS Cargo Solutions – Designed for Efficiency. Optimised for All Your Needs.

In today's fast-moving world of logistics, every second counts. That's why we have completely reimagined our Cargo line – a streamlined, smart and versatile range built around three main types and four flexible units.

Fewer options, more possibilities.

Our optimised portfolio covers the majority of airport requirements, reduces complexity and delivers top-tier quality at a competitive price.

To complement our baggage trailers and cargo dollies, we proudly introduce the THRUSTER3025Ce – a compact electric tow tractor offering exceptional manoeuvrability and a towing capacity of up to 8,600 kg. With its modular design, low operating costs and adaptability, it is the ideal partner for moving baggage, trailers and airport equipment.

The growing demand for efficient, modular and electrified solutions positions TIPS perfectly to deliver modern, sustainable products that respond to market developments. Our vehicle and trailer design enables efficient operation with minimal staffing – in many cases even single-person operation – reducing labour costs and increasing operational flexibility.

With over 90% of sales now electric, up to 70% lower energy costs compared to diesel alternatives, and up to 50% lower maintenance costs, TIPS offers solutions that combine peak efficiency with sustainability.

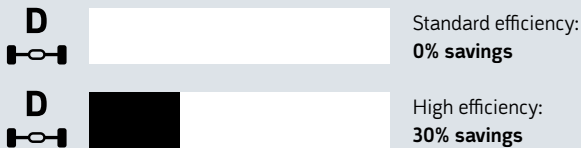
By pairing our revamped Cargo line with the THRUSTER3025Ce electric tow tractor, airports can achieve efficiency, lower costs and more environmentally friendly operations – without compromising reliability or performance.

TIPS'S ELECTRIC GSE INITIATIVE: LEADING THE WAY IN SUSTAINABLE GSE SOLUTIONS

TIPS is at the forefront of integrating electric ground support equipment (GSE), enhancing operational efficiency and sustainability. Our electric GSE reduces emissions and operational noise, and complies with strict environmental regulations, setting new standards in airport operations. Featuring advanced energy management and regenerative braking, TIPS's electric GSE is engineered for superior performance and reduced lifecycle costs, supporting the aviation industry's transition towards zero emissions.

EFFICIENCY DIAGRAM

Diesel Vehicles:



Electric Vehicles (General Market):



(* described as more expensive due to better performance or features)

TIPS Electric Products:



Environmental Impact



REDUCED EMISSIONS

Electric GSE emit zero tailpipe emissions, significantly cutting greenhouse gases and enhancing airport air quality—key for compliance with environmental regulations and sustainability targets.

Example: Adopting electric GSE at major airports could slash annual CO2 emissions by thousands of metric tons (European Alternative Fuels Observatory, International Air Transport Association).



NOISE REDUCTION

Traditional GSE significantly contributes to noise pollution with engine idling. In contrast, electric GSE operates at near-silent levels, drastically reducing noise at airfields, hangars and gates. This enhances safety and health for ground crews and minimises disruption for nearby communities.



HEALTH AND SAFETY

Carbon emissions and pollutants from traditional GSE pose serious health risks to ground crews exposed to carbon dioxide and nitrogen oxide. Switching to electric GSE, powered by lithium or lead-acid batteries, significantly improves workplace safety by reducing these risks.



SELF-SUFFICIENCY & MAINTENANCE SAVINGS

TIPS equipment is 98% self-sufficient, offering substantial maintenance savings. Electric GSE have fewer moving parts than diesel engines, resulting in less wear and tear and lower maintenance costs. According to the International Air Transport Association (IATA), maintenance costs for electric GSE can be up to 50% lower than for diesel-powered equipment.



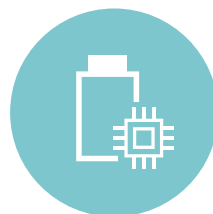
OPERATIONAL EFFICIENCY OF ELECTRIC GSE

Electric GSE reduces fuel costs by eliminating the need for diesel, leveraging the more stable and often cheaper electricity. Studies, including one by the Airport Cooperative Research Program (ACRP), indicate that electric GSE can lower energy costs by up to 70% compared to diesel counterparts. Furthermore, electric motors outperform internal combustion engines in efficiency, converting a higher proportion of energy into useful work and ensuring significant cost savings and reduced energy consumption over time. Notably, TIPS's total sales comprise 80% electric vehicles compared to just 20% diesel, highlighting the growing preference for more efficient and sustainable solutions in the industry.



ADAPTABILITY TO DIVERSE CLIMATES

TIPS electric GSE is uniquely adapted to perform efficiently in both extreme cold and hot climates, ensuring durability and safety through specialised designs that address the unique challenges of each environment. Currently, 76% of our equipment operates in cold climates, while 23% is used in warmer regions, demonstrating our extensive capability to meet diverse environmental demands.



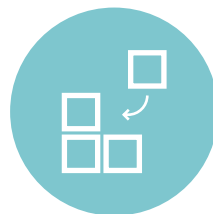
ADVANCED BATTERY SYSTEM FOR AIRPORT OPERATIONS

Our battery system is tailor-made to meet the operational demands of airports. It is rigorously tested and already operational at various airports throughout Southern and Central Europe, as well as Scandinavia. Designed for reliability and efficiency, it delivers optimal performance in challenging airport environments, offering a sustainable and robust energy solution that supports uninterrupted airport operations.



LONG-TERM COST SAVINGS

Electric GSE features fewer moving parts, resulting in enhancing durability and longevity during daily operations. While the initial investment may be higher, the extended lifespan and reduced maintenance requirements make electric GSE a cost-effective choice in the long run.



MODULAR AND ADAPTIVE DESIGN

TIPS Cargo units and THRUSTER tractors are designed for ultimate flexibility. Modular components and adjustable configurations ensure optimal compatibility with different airport layouts and aircraft types.

THRUSTER^{3025Ce}

ELECTRIC TOW TRACTOR

THE COMPACT GIANT OF PERFORMANCE

The **THRUSTER^{3025Ce}** is a next-generation electric tow tractor, engineered for maximum efficiency, low operating costs, and outstanding driver comfort.

SPECIFICATIONS:

Purpose:

for towing baggage, cargo trailers, and airport equipment

Dimensions (L x W x H):

min. 3.33 m x max. 1.30 m x max. 1.95 m

Towing capacity:

8,600 kg

Driving speed:

up to 30 km/h

KEY FEATURES:

- Compact Yet Powerful**
 Its compact design conceals exceptional capabilities. With a towing capacity of up to 8,600 kg it is the ideal solution for moving baggage, cargo trailers, and airport equipment. For precise manoeuvring during coupling, the tractor features an inching function, allowing controlled slow forward and backward movement.
- Operator Focused Design:**
 Designed for safe and efficient operation, the vehicle prioritises the operator's needs, ensuring minimal physical impact and reduced fatigue throughout the working day thanks to its unique design solution. Features include a panoramic cabin with large glass surfaces for excellent all-round visibility, sliding windows for natural ventilation, and optional heating for cold conditions. The suspended driver's seat further enhances comfort by absorbing vibrations, reducing strain, and improving ergonomics during long shifts.
- Productivity High Electric Drive**
 Sustainability has long been a priority and delivers significant benefits in daily operation. The electric drive ensures quiet performance, low maintenance costs and optimal energy efficiency. Fast and easy battery replacement minimises downtime and keeps productivity high.
- Making the Most of Every Inch**
 The vehicle is thoughtfully designed to ensure that every component serves a clear purpose and delivers maximum usability. At the rear, an automatic coupling system connects cargo dollies and trailers, with an optional front coupling available. A compact rear platform provides additional space for transporting tools or extra luggage, ensuring optimal use of every available inch.
- Modular Design – Optimised for Efficiency**
 Equipped with practical accessories that enhance operational speed and quality, such as front couplings and heating, the vehicle's modular design allows components to be easily added or adapted to suit specific operational needs.
- Every Fleet Deserves Its Own Colours**
 From bespoke RAL colours to branded logos, the vehicle can be tailored to reflect individual branding and specific operational requirements.
- Regulatory Compliance**
 The vehicle is CE certified and complies with all relevant EN standards and IATA recommendations, ensuring a high international level of safety for operators.



Electric
Tow
Tractor

CARGO0030C

CONTAINER DOLLY

CONTROLLED

AND CONFIDENT

OPERATION

When a simple yet reliable solution is needed for moving standard containers, the **CARGO0030C** is the first choice. Designed for LD-1, LD-2, LD-3, and LD-3/45 units, this model handles approximately 90% of all cargo operations at civil airports. Its compact design ensures easy manoeuvrability even in airports without specialised cargo infrastructure, while delivering high load capacity and long service life.

SPECIFICATIONS:

Purpose:

Transport of LD-1, LD-2, LD-3, LD-3/45 containers

Dimensions (L x W):

3,750 mm x 1,820 mm

Payload capacity:

1,600 kg

Unladen weight:

360 kg

KEY FEATURES:

- Compact Yet Robust**
 One of the smallest dollies in its class, designed for durability and built to withstand demanding operational conditions. Its weather-resistant, low-maintenance construction ensures long-lasting performance even in the most challenging environments. The rear semi-automatic Rockinger coupling enables efficient train formation, while optional four-wheel steering provides enhanced manoeuvrability in tight spaces.
- Smooth Handling, Every Way**
 Platform equipped with 16 rollers mounted on a large ball bearing, the platform allows effortless loading and unloading from any angle, reducing handling time and minimising operator effort.
- Secure, Stable, Reliable**
 Clawed stops system Keeps containers firmly in place, preventing movement during transport and ensuring maximum safety for operators and cargo alike.
- Controlled and Confident Operation**
 A hand brake on the first axle, activated via the raised tow bar, securely holds a fully loaded dolly on a 7% incline, ensuring safe operation at all times.
- Regulatory Compliance**
 The vehicle is CE certified and complies with all relevant EN standards and IATA recommendations, ensuring a high international level of safety for operators.



Container
Dolly

CARGO0125F

FREIGHT TRAILER

VERSATILE AND HIGH-PERFORMANCE

When performance and versatility matter most, the **CARGO0125F** Freight Trailer delivers. Designed for 125"×96", 125"×88", and 108"×88" pallets, as well as LD-7, LD-9, and LD-29 containers, it meets a wide range of cargo handling needs at freight airports.

SPECIFICATIONS:

Purpose:

Transport of LD-7, LD-9, LD-29 containers and standard pallets (125"×96", 125"×88", 108"×88")

Dimensions (L × W):

5.005 mm x 3.570 mm

Loading platform:

Adapted for larger pallets and containers

Payload capacity:

6,800 kg

Unladen weight:

1.070 kg

KEY FEATURES:

- **Smooth and Efficient Loading**
Robust platform equipped with 56 rollers for smooth side loading, it minimises operator effort, speeds up cargo handling, and reduces the risk of damage to containers.
- **Built to Last**
The hot-dip galvanised steel frame ensures long service life and resistance to corrosion and harsh weather, reducing maintenance needs and keeping the trailer reliable in all operating conditions.
- **Secure Every Load**
Clawed Stops System Keeps loads firmly in place during transport, preventing shifting or tipping, enhancing operator safety, and protecting cargo from damage.
- **Regulatory Compliance**
The vehicle is CE certified and complies with all relevant EN standards and IATA recommendations, ensuring a high international level of safety for operators.



Freight
Trailer

CARGO2515B

HEAVY BAGGAGE TRAILER CARGO SECURITY AND FLEXIBILITY

When baggage needs to be transported safely and reliably across the airport, the **CARGO2515B Heavy Baggage Trailer** is indispensable. Built for durability and designed to withstand harsh weather conditions, it also offers the option of full cargo protection with a complete canopy, ensuring baggage remains secure in all operational environments.

SPECIFICATIONS:

Purpose:

Transport of baggage and parcels

Dimensions (L × W):

2,500 mm × 1,500 mm

Payload capacity:

1.600 kg

Unladen weight:

420 kg

KEY FEATURES:

- Handle More in Less Time**
 With a 2,500 × 1,500 mm platform and a payload capacity of 1,600 kg, it solves the challenge of transporting large volumes of baggage efficiently, reducing the number of trips and saving valuable operational time.
- For Cargo Security and Flexibility**
 Folding Side Panels and optional foldable or roll-up tarpaulin helps prevent baggage loss during transport, ensuring safe and reliable handling in all conditions.
- Quick Drainage, Protected Loads**
 The V-shaped platform prevents water accumulation, ensuring baggage and cargo stay dry and protected, even in wet conditions, while reducing corrosion and maintenance needs.
- Safe on Every Slope**
 The hand brake on the first axle, activated by the raised tow bar, prevents the trailer from rolling on inclines, ensuring operator safety and secure handling even on a 7% slope.
- Quick and Flexible Formation**
 The rear manual coupling, with an optional semi-automatic Rockinger system, enables fast and secure connection of trailers, simplifying train formation and improving operational efficiency.
- Regulatory Compliance**
 The vehicle is CE certified and complies with all relevant EN standards and IATA recommendations, ensuring a high international level of safety for operators.



Baggage
Trailer

CARGO2712B

LIGHT BAGGAGE TRAILER

SMALL BUT MIGHTY AT EVERY SPEED

For quick, easy and efficient baggage transport, the **CARGO2712B Light Baggage Trailer** is the perfect choice. Its compact design ensures agility even in narrow transit areas, without compromising payload capacity or durability.

KEY FEATURES:

- Small but Mighty Platform**
 With a 2,700 × 1,200 mm platform and 1,500 kg payload capacity, it solves the challenge of quickly transporting frequent, light-to-medium baggage loads, ensuring smooth, efficient operations in busy airport environments.
- Quick Drainage, Protected Loads**
 The V-shaped platform prevents water accumulation, ensuring baggage and cargo stay dry and protected, even in wet conditions, while reducing corrosion and maintenance needs.
- Stability at Every Speed**
 Five-axle steering solves the challenge of maintaining control and stability, allowing the vehicle to manoeuvre safely at low speeds in tight areas while remaining stable at higher speeds on open surfaces.
- Safe on Every Slope**
 The hand brake on the first axle, activated by the raised tow bar, prevents the trailer from rolling on inclines, ensuring operator safety and secure handling even on a 7% slope.
- Regulatory Compliance**
 The vehicle is CE certified and complies with all relevant EN standards and IATA recommendations, ensuring a high international level of safety for operators.

SPECIFICATIONS:

Dimensions (L × W):
2,700 mm × 1,200 mm

Payload capacity:
1,500 kg

Unladen weight
225 kg



Baggage
Trailer



DESIGNED FOR EFFICIENCY.
BUILT FOR
EVERYDAY AIRPORT
OPERATIONS.



OPTIMISE YOUR **TIPS** GSE PERFORMANCE



MAINTENANCE AND TECHNICAL SUPPORT

TIPS provides comprehensive maintenance and support for ground support equipment (GSE), ensuring optimal operational efficiency throughout its lifecycle. Our services extend beyond the warranty period, encompassing preventive technical inspections designed to tailor maintenance activities based on the actual condition of the equipment rather than fixed intervals. This approach minimises downtime and extends the service life of your GSE.



ADVANCED TRAINING PROGRAMMES

Our dynamic training programmes are developed to keep pace with technological advancements and changing industry standards. We equip your technical staff with the skills necessary to operate GSE with maximum efficiency and safety. Our training reduces the risk of operational errors and accidents, thereby lowering potential liability and enhancing workplace safety.



SPARE PARTS LOGISTICS

With our sophisticated part tracking system, TIPS ensures that you can quickly and accurately identify and order the necessary spare parts for your GSE. Whether through a basic description or a photograph, our system streamlines the procurement process, complemented by expert advice from our technicians to assist with your selections.



ON-SITE SERVICE CAPABILITIES

TIPS's field service teams are equipped to perform a range of on-site services from routine maintenance to urgent repairs, ensuring that your GSE maintains peak performance levels. Our strategy focuses on proactive maintenance to prevent small issues from becoming costly problems.



CUSTOM UPGRADES AND MODIFICATIONS

Our engineering team specialises in the design and implementation of modifications and upgrades for aging or obsolete GSE, enhancing its functionality and compliance with current safety and environmental standards. Before you consider replacing old GSE, consult with our experts who can provide tailored solutions that meet specific operational needs, including compliance with IATA security requirements and emissions reductions.

CONCLUSION

With the **TIPS Cargo line** and the **THRUSTER3025Ce electric tow tractor**, we offer more than just equipment – we deliver a complete, integrated solution for modern airport operations. Our philosophy is simple: efficiency, reliability, and sustainability – without compromise.

Industry trends confirm the need for innovation:

Air freight in Europe grew by +0.4% in H1, remaining 8.7% above 2019 levels (ACI Europe).

Global outlook predicts up to +6% growth in air freight, with belly cargo still accounting for over half of all volumes (IATA).

Growth in the cargo dolly market is driven by:

Upgrades and expansions in airport infrastructure

Increasing international trade and flight frequency

Technological innovations such as telematics and RFID tracking

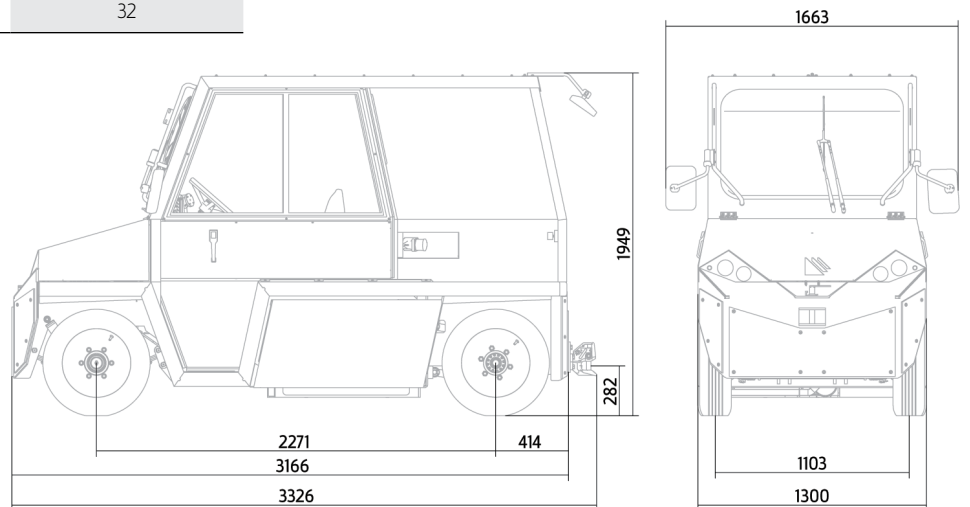
Sustainability requirements and green operations

TIPS transforms these trends into practical solutions. With modular, electrified, and highly efficient products, you'll be ready to meet today's challenges and perfectly positioned for future growth.

TIPS – Driving Efficiency. Shaping the Future.

TECHNICAL DATA

TIPS TRACTOR	THRUSTER3025Ce
Technical data	
Length (mm)	3.326
Width (mm)	1.300
Height (mm)	2.000
Wheelbase (mm)	2.250
Track (mm)	1.103
Ground clearance (mm)	130
Turning circle (wall-wall) (mm)	8.500
Coupling height (mm)	280
Loading area (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 application) (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

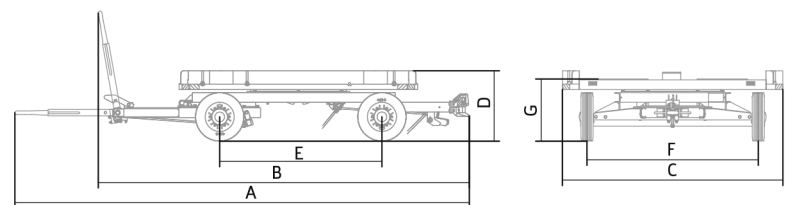
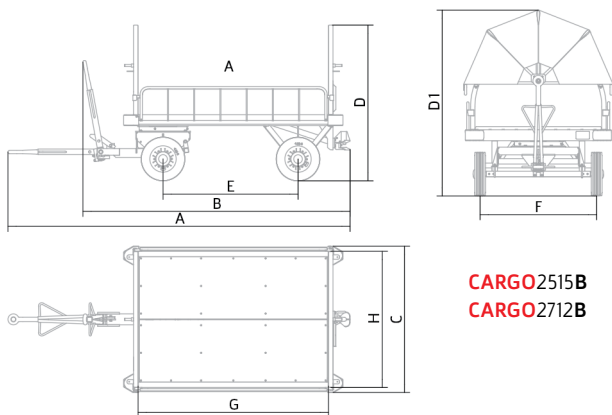


THRUSTER3025Ce

TIPS BAGGAGE TRAILERS	CARGO 2515B	CARGO 2712B
	Technical data	
A - Length (mm)	4.083	3.760
B - Length (raised towbar) (mm)	3.511	3.210
C - Width (mm)	1.594	1.206
D1 - Height overall (mm)	1.832	1.430
D - Height (without cover) (mm)	1.350	1.420
E - Wheelbase (mm)	1.654	2.090
F - Wheel track (mm)	1.249	1070/590
G - Loading area length (mm)	2.500	2.700
H - Loading area width (mm)	1.500	1.200
Loading surface (m ²)	4	3
Cargo capacity (kg)	1.600	1.500
Weight nett (kg)	420	225
Turning circle (mm)	6.000	6.400
Tow speed (km/h)	25	25

TIPS CONTAINER DOLLIES AND FREIGHT TRAILERS	CARGO 0030C	CARGO 0125F
	Technical data	
A - Length (mm)	3.765	4.800
B - Length (raised towbar) (mm)	3.045	3.329
C - Width (mm)	1.820	3.560
D - Height (mm)	565	565
E - Wheelbase (mm)	1.500	1.900
F - Wheel track (mm)	1.630	1.841
G - Roller height	508	508
Cargo capacity (kg)	1.800	7.000
Weight (kg)	700	1.070
Turning circle (wall-wall) (mm)	8.400	11.000
Overrun brake		o
Range of use		
LD-1	s	o
LD-2	o	o
LD-3	s	o
LD-4		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"		
108"x 88"		s
125"x60,4"		o
125"x 88"		s
125"x 96"		s
20ft		

s - standard, o - option



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Ready to Transform Your Airport Operations?

Experience the future of ground support with TIPS electric GSE. Contact us today for a demo or more information and see how our solutions can enhance your operational efficiency and sustainability.



GROUND
SUPPORT
EQUIPMENT



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