





In the race for more economic efficiency and productivity, TREPEL is the right partner for customers worldwide. Permanent and uncompromising developments of a customer-friendly and user-oriented concept are the foundations of our success.



Success on the ramp

Reliability, speed and teamwork are the ingredients for success on the ramp – "a contest against time". Innovative technology, certified quality and exceptional service are the foundation of this success.

TREPEL, one of the leading manufacturers in the growing GSE market, aims to provide units with maximum availability and efficiency and, at the same time, having low maintenance costs. This is "TREPEL's" philosophy.

Decades of experience, an abundance of knowledge and ideas are important elements of market leadership, but equally important is the constant intensive dialogue with our partners on the ramp. Worldwide operating sub-suppliers of components are a part of the on-time performance of TREPEL equipment.

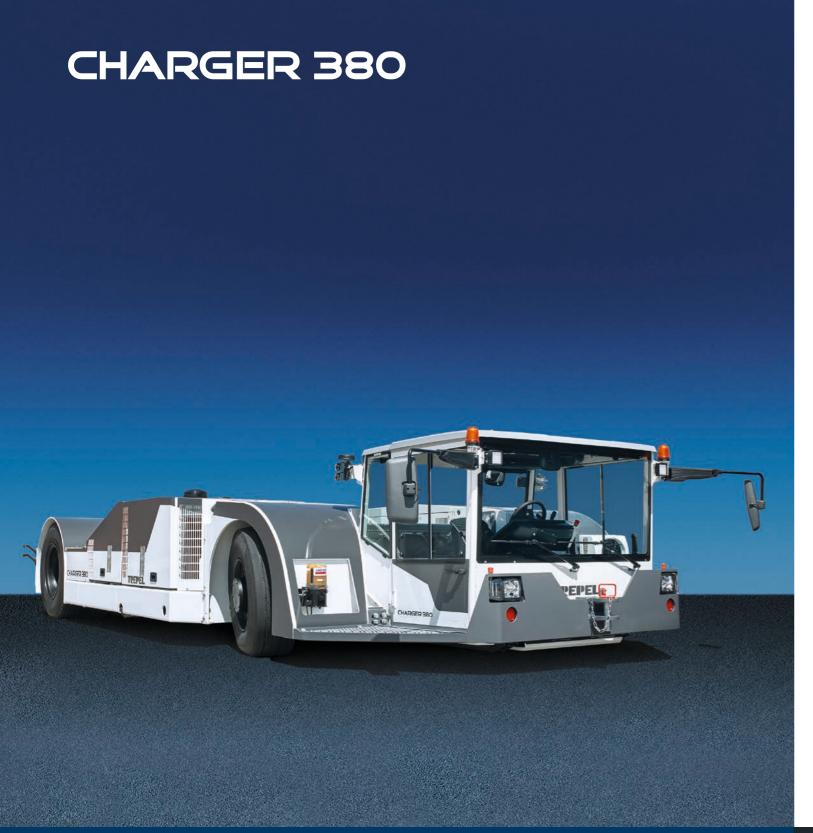












Performance

CHARGER 380

Capacity Towing / Pushing up to 380 tons

Lifting up to 41.2 tons

Dimensions (L x W x H) 7.985 x 4.075 x 1.800 mm (standard configuration)

Drawbar pull 130 kN (calculated theoretical value, dependent on

loaded weight and adhesion factor)

Driving speed 32 km/h (depends on aircraft weight)

Turning radius 9.700 mm

Design

Engine CUMMINS QSB6.7 diesel, COM IIIA / EPA – TIER 3

Other engines or emission classes on request

Transmission Hydrostatic transmission, hydraulic wheelmotors on rear wheels

Axle Front axle with hydro-pneumatic suspension, rear drive axle rigid

Tyres Front steering axle: 385/65 R22.5 Rear drive axle: 325/95 R24 twinwheels

Steering Hydraulic power steering with emergency steering pump

Steering axle equipped with angle sensor

Braking system Dual circuit hydraulic brake system, multi-disc brakes at rear,

drum brakes at front wheels, safety brake pressure accumulators for emergency braking in case of engine failure, parking brake on rear axle

Electric system 24V DC for vehicle electric system

Driver's cab Liftable, closed cabin with doors and 2 seats

Safety features Quick aircraft release, manual emergency operation of

each function of the pick-up device,

TAPS (Trepel Aircraft Protection System against oversteering)

Options

Air conditioning, auxiliary heating system, 90 kVA GPU, central greasing station, overtorque protection system, anti-collision and obstacle detection, Tire Pressure Monitoring System, 3rd seat, LED strobe lights

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Fast-moving power package

The CHARGER 380 towbarless tractor is the most powerful and capable in its class. Ideal to handle the B777 and A340 aircraft types, the CHARGER 380 is perfect for long distance towing as well as inter-gate servicing. This state-of-the-art tractor includes oversteer protection – with anti-collision and obstacle detection protection options – as well as superior comfort attributable to hydro-pneumatic suspension.









Performance

Capacity Aircraft weight up to 160 tons

Dimensions (L x W x H) 5.490 x 2.240 x 2.155 mm (standard configuration w/o couplings)

CHALLENGER 150

Drawbar pull 101 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed Max. 30 km/h (depends on ballasted weight)

Turning radius 4.700 mm

Weight 9 tons (without ballast) up to 15 tons (ballasted)

Design

Engine Deutz 4-cylinder diesel TD 2011 L04W (COM IIIA / EPA-TIER3)

Other engines or emission class on request

Transmission Power shift transmission, torque converter, 5 speed forward, 3 speed reverse

Axle Front axle with hydro pneumatic suspension, rear axle rigid

Tyres 275/70 R22.5

Steering Hydraulic powered steering, direct via Orbitrol

All wheel steering

Braking system Dual circuit hydraulic multiple wet disc brakes, spring loaded parking brake

Electric system 24V DC for vehicle electric system

Driver's cab Not liftable, cabin w/o doors with 2 seats

Options

Doors with sliding windows or open driver's cab, air conditioning, central greasing station, park heating system, front axle steering.

With STAGE-IIIB/TIER4i engines the drawbar pull (DBP), the engine power and the top speed may vary.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Cost optimized small tractor

The CHALLENGER 150 is the perfect solution for customers who need to handle in particular the B737 and A320 fleets. What's more is: The fully ballasted CHALLENGER 150 is also able to push out the B767-200/300 at Maximum Ramp Weight. The hydro-pneumatic front axle suspension provides best driving comfort for the operator.









Performance CHALLENGER 150e

Capacity Aircraft weight up to 160 tons

Dimensions (L x W x H) 5.510 x 2.270 x 2.153 mm (standard configuration w/o couplings)

Drawbar pull 101 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 20 km/h (depends on ballasted weight)

Turning radius 4.700 mm

Weight 11 tons (without ballast, with 3 traction batteries)

up to 16 tons (ballasted, with 3 traction batteries)

Design

Engine 3 electric motors

Motors for drive: 2 motors, each 31 kW Motor for steering and braking: 7 kW

Traction batteries: 3 lead acid batteries (each 80V 300 Ah)

Transmission DANA 2 speed forward and reverse transmission system

Axle Front axle with hydro-pneumatic suspension, rear axle rigid

Tyres 275/70 R22.5

Steering Hydraulic powered steering, direct via Orbitrol

All wheel steering

Braking system Dual circuit hydraulic brake, disc brakes on each wheel,

fail-safe emergency and parking brake at the rear axle

Electric system 24V DC, combination of common relays and PLC controllers.

Where possible, control logic functions processed by the PLC

Driver's cab Not liftable, cabin w/o doors with 2 seats

Options

Cabin with doors with sliding windows or open driver's cab, central lubrication system, air conditioning, front axle steering, solid rubber tires, 2 on-board battery chargers, driving speed 25km/h

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The new, narrow-body aircraft workmate

The Challenger 150e electric tractor is the ideal machine for towing / pushing narrow-body aircraft types like the B737 and A320. With simple to use controls and a clean, crisp dash panel layout the CHALLENGER 150e electric with hydro-pneumatic suspension, LED lighting, comfortable seating and heating / air conditioning options is as perfect to work with as with its Diesel brother.









Performance CHALLENGER 280

Capacity Aircraft weight up to 300 tons

Dimensions (L x W x H) 5.930 x 2.400 x 2.110 mm (standard configuration w/o couplings)

Drawbar pull 209 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 28 km/h (depends on ballasted weight)

Turning radius 5.600 mm

Weight 24 tons (without ballast) up to 28 tons (ballasted)

Design

Engine Deutz 4-cylinder diesel TCD 2012 L04 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission Power shift transmission, torque converter, 5 speed forward, 3 speed reverse

Axle Front axle with hydro pneumatic suspension, rear axle rigid

Tyres 300/80 R22.5 TL

Steering Hydraulic powered steering, direct via Orbitrol

All wheel steering

Braking system Dual circuit hydraulic multiple wet disc brakes, spring loaded parking brake

Electric system 24V DC for vehicle electric system

Driver's cab Not liftable, cabin w/o doors with 2 seats

Options

Doors with sliding windows or open driver's cab, air conditioning, central

greasing station, park heating system, front axle steering.

With STAGE-IIIB/TIER4i or STAGE-IV/TIER-4F engines the drawbar pull (DBP),

the engine power and the top speed may vary.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The workhorse for B787 and A350

The CHALLENGER 280 is the perfect solution for mid-size pushback operations, also for the upcoming Airbus A350 and Boeing B787 aircraft. The versatile range of operational applications makes the CHALLENGER 280 the ideal workhorse. The durable quality components built in the drive train ensures low Total Cost of Ownership.





Performance CHALLENGER 280e

Capacity Aircraft weight up to 300 tons

Dimensions (L x W x H) 5.940 x 2.440 x 2.135 mm (standard configuration w/o couplings)

Drawbar pull 200 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 18 km/h (depends on ballasted weight)

Turning radius 5.600 mm

Weight 24 tons (without ballast, with 2 traction batteries)

up to 28 tons (ballasted, with 2 traction batteries)

Design

Engine 3 electric motors

Motors for drive: 2 motors, each 46 kW Motor for steering and braking: 11.5 kW

Tractions batteries: 2 lead acid batteries (each 96V 875 Ah)

Transmission DANA 2 speed forward and reverse transmission system

Axle Front axle with hydro-pneumatic suspension, rear axle rigid

Tyres 300/80 R22.5 TL

Steering Hydraulic powered steering, direct via Orbitrol

All wheel steering

Braking system Dual circuit hydraulic brake, disc brakes on each wheel,

fail-safe emergency and parking brake at the rear axle

Electric system 24V DC, combination of common relays and PLC controllers.

Where possible, control logic functions processed by the PLC

Driver's cab Not liftable, cabin w/o doors with 2 seats

Options

Cabin with doors with sliding windows or open driver's cabin, central lubrication system, air conditioning, front axle steering,

2 on-board battery chargers.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The workhorse for the majority of widebody aircrafts

The CHALLENGER 280e electric conventional tractor is designed to handle a wide range of aircraft types up to B787 and A350. Just like its Diesel brother the CHALLENGER 280e electric is equipped with hydro-pneumatic suspension, comfortable seating and heating / air conditioning options. World-class components ensure low maintenance costs and optimum life-time.









Performance CHALLENGER 430

Capacity Aircraft weight up to 380 tons

Dimensions (L x W x H) 6.910 x 2.700 x 2.060 mm (standard configuration w/o couplings)

Drawbar pull 304 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 30 km/h (depends on ballasted weight)

Turning radius 6.400 mm

Weight 27 tons (without ballast) up to 43 tons (ballasted)

Design

Engine Deutz 6-cylinder diesel TCD 2013 L6 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission ZF-power shift transmission, converter gear, 6 speed forward, 3 speed reverse

Axle Kessler front axle with hydro pneumatic suspension, Kessler rear axle rigid

Tyres 14.00-24 ContainerMaster28PR E4 TT

Steering Hydraulic powered steering, (operational) front axle steering via Orbitrol,

(operational) rear axle steered electronically, 4 steering modes:

Front axle steering, rear axle steering, diagonal steering, all wheel steering

Braking system Dual circuit hydraulic disc brakes, spring loaded parking brake

Electric system 24V DC for vehicle electric system

Driver's cab Standard cab, liftable, closed with 2 seats

Options

Integrated hydraulic jacks, open or closed rear driver's stand, air conditioning, park heating system, GPU 90 kVA, central greasing station,

PREMIUM cab.

With STAGE-IIIB/TIER4i or STAGE-IV/TIER-4F engines the drawbar pull (DBP),

the engine power and the top speed may vary.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Adaptable medium-size aircraft tractor

The CHALLENGER 430 is a conventional aircraft tractor that is capable to handle push-back, repositioning and maintenance towing of aircraft up to a fully loaded Boeing B777. The hydro-pneumatic front axle suspension provides best possible driving comfort for the operator. The crane-liftable power-pack compartment minimizes downtime of the tractor and reduces maintenance costs.







CHALLENGER 550

Performance CHALLENGER 550

Capacity Aircraft weight up to 450 tons

Dimensions (L x W x H) 7.760 x 3.000 x 2.060 mm (standard configuration w/o couplings)

Drawbar pull 369 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 30 km/h (depends on ballasted weight)

Turning radius 6.900 mm

Weight 50 tons (without ballast) up to 60 tons (ballasted)

Design

Engine Deutz 6-cylinder diesel TCD 2013 L6 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission ZF-power shift transmission, torque converter, 6 speed forward,

3 speed reverse

Axle Kessler front axle with hydro pneumatic suspension, Kessler rear axle rigid

Tyres 16.00 R25

Steering Hydraulic powered steering, (operational) front axle steering via Orbitrol,

(operational) rear axle steered electronically, 4 steering modes:

Front axle steering, rear axle steering, diagonal steering, all wheel steering

Braking system Dual circuit hydraulic disc brakes, spring loaded parking brake

Electric system 24V DC for vehicle electric system

Driver's cab Standard cab, liftable, closed with 2 seats

Options

Integrated hydraulic jacks, open or closed rear driver's stand, air conditioning, park heating system, GPU 90 kVA, central greasing station,

PREMIUM cab.

With STAGE-IIIB/TIER4i or STAGE-IV/TIER-4F engines the drawbar pull (DBP),

the engine power and the top speed may vary.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Ideal solution for the new Jumbo

The CHALLENGER 550 has a lot of technical features built in its big brother, the CHALLENGER 700. With its gross vehicle weight of up to 60 tons, the CHALLENGER 550 is designed in particular for push-back and maintenance towing of aircraft up to the size of a Boeing B747-8. A robust tow tractor at an economic price with low maintenance costs.









Performance CHALLENGER 700

Capacity Aircraft weight up to 600 tons

Dimensions (L x W x H) 7.760 x 3.000 x 2.060 mm (standard configuration w/o couplings)

Drawbar pull 498 kN (calculated theoretical value, dependent on

ballasted weight and adhesion factor)

Driving speed 30 km/h (depends on ballasted weight))

Turning radius 6.900 mm

Weight 40 tons (without ballast) up to 70 tons (ballasted)

Design

Engine Deutz 6-cylinder diesel TCD 2015 V6 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission ZF-power shift transmission, converter gear, 6 speed forward, 3 speed reverse

Axle Kessler front axle with hydro pneumatic suspension, Kessler rear axle rigidd

Tyres 480/95R25X-STRADDLE

Steering Hydraulic powered steering, (operational) front axle steering via Orbitrol,

(operational) rear axle steered electronically, 4 steering modes:

Front axle steering, rear axle steering, diagonal steering, all wheel steering

Braking system Dual circuit hydraulic disc brakes, spring loaded parking brake

Electric system 24V DC for vehicle electric system

Driver's cab Standard cab, liftable, closed with 2 seats

Options

Integrated hydraulic jacks, open or closed rear driver's stand, tyres 18.00xR25, air conditioning, park heating system, GPU 90 kVA,

central greasing station, PREMIUM cab.

With STAGE-IIIB/TIER4i or STAGE-IV/TIER-4F engines the drawbar pull (DBP),

the engine power and the top speed may vary.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Cost-efficient large aircraft tractor

The CHALLENGER 700 is a conventional aircraft tractor that is capable to handle push-back, repositioning and maintenance towing of all wide body aircraft including a fully loaded Airbus A380. The mechanical lock-up clutch of the new generation of power shift transmission reduces fuel consumption when moving at higher speed. The liftable power-pack compartment minimizes downtime of the tractor and reduces maintenance costs.





Performance CHAMP 35 (MY15)

Dimensions (L x W x H) 8.300 x 2.820 x 3.150 mm (standard configuration)

Capacity (both platforms lift and transfer) 3.500 kg

Lifting height front/main platform 1.900 to 3.500 mm / 485 to 3.500 mm

Loading width (between guide rails) 1.620 mm

Driving speed 15 km/h

Gradability 5 %

Turning radius 7.800 mm

Design

Engine Deutz 3-cylinder diesel D 2011 L03i (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission / axles Open circuit hydrostatic drive system on steering front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple wet disc brake, additional spring-loaded

emergency parking brake, dynamic brake system

Stabilisers 5 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, rotating system on rear of

main platform, hydraulically adjustable guide rails on front platform

Hydraulic system Central hydraulic valve block, valves fitted with control light,

70% of hydraulic lines rigid piping

Electric system 24V, relay controlled

Options Side loading of LD containers on rear of main platform...

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The compact solution for handling all 61" ULD containers

The most compact CHAMP 35 with an even more efficient power pack. The CHAMP 35 is especially designed for the handling of small containers like LD2 or LD3. Its extremely narrow transfer width makes it ideal to handle all 61"cargo doors at lower deck level, also capable to clear the front and rear doors of the A319. Extremely fast lifting, lowering and transporting speeds reflect this lower deck loader's high acceptance with turnaround times at an absolute minimum.





Performance CHAMP 35e

Dimensions (L x W x H) 8.300 x 2.820 x 3.150 mm (standard configuration)

Capacity (both platforms lift and transfer) 3.500 kg

Lifting height front/main platform 1.900 to 3.500 mm / 485 to 3.500 mm

Loading width (between guide rails) 1.620 mm

Driving speed 13 km/h

Gradability 5 %

Turning radius 7.800 mm

Design

Engine / Propulsion 80V AC, S2 5 min 20 kW, S2 60 min 17 kW

80V 550 A Inverter, 80V 375 Ah lead battery

Transmission / axles Open circuit hydrostatic drive system on front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple wet disc brake,

additional spring-loaded emergency parking brake

Stabilisers 5 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, rotating system on rear of

main platform, hydraulically adjustable guide rails on front platform

Hydraulic system Central hydraulic valve block, valves fitted with control light

Electric system 24V, relay controlled

Options Electrically powered hydraulic emergency system to lower platforms

and lift stabilisers, etc.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Green 3,5 ton loader

CHAMP 35e, the electric version of the most compact CHAMP 35, offers environmental friendly operation without affecting the performance. The extremely narrow design is ideal to handle all 61" cargo doors at lower deck level, also capable to clear the forward and rear doors of the A319. The CHAMP 35e can be fitted with a 375 Ah lead/acid battery.







Performance	CHAMP 70S	CHAMP 70W	CHAMP 70U
Dimensions (L x W x H)	9.20 x 3.60 x 3.10 m	9.20 x 4.30 x 3.10 m	9.20 x 4.30 x 3.20 m
Capacity (both platforms lift and transfer)	7.000 kg	7.000 kg	7.000 kg
Lifting height front platform	1.800 to 3.700 mm	1.800 to 3.700 mm	1.900 to 5.600 mm
Lifting height main platform	485 to 3.700 mm	485 to 3.700 mm	485 to 3.700 mm
Loading width (between guide rails)	2.520 mm	3.300 mm	3.300 mm
Driving speed	15 km/h	15 km/h	15 km/h
Gradability	5%	5%	5%
Turning radius	8.700 mm	8.700 mm	8.700 mm

Design

Engine Deutz 4-cylinder diesel TD 2011 L04 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission / axles Open circuit hydrostatic drive system on front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple disc brake, additional spring-loaded

emergency parking brake, dynamic brake system

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, transversal drive units on

front platform, hydraulically adjustable guide rails on front platform

Hydraulic system Central hydraulic valve block, valves fitted with control light

Electric system 24V, relay controlled

Options

Side loading and rotation on rear of main platform (standard on 70W and 70U), electrically powered hydraulic emergency system to lower platforms and lift stabilisers, etc.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Freight handling with outstanding reliability

The CHAMP 70, TREPEL's 7 ton cargo high loader range, combines highest availability with extremely low operation and maintenance costs, making this versatile Pallet and Container high loader a real CHAMP. Fast lifting speed as well as accurate freight transfer under all climatic conditions are true operational advantages. The design of the CHAMP 70 offers maximum safety for operating personnel, aircraft and loader. These performances bring freight handling to higher level.











 Performance
 CHAMP 70Se Neo
 CHAMP 70We Neo

 Dimensions (L x W x H)
 9.200 x 3.600 x 3.100 mm
 9.200 x 4.300 x 3.100 mm

Capacity (both platforms lift and transfer) 7.000 kg 7.000 kg

Lifting height front platform 1.800 to 3.700 mm 1.800 to 3.700 mm

Lifting height main platform 485 to 3.700 mm 485 to 3.700 mm

Loading width (between guide rails) 2.520 mm 3.270 mm

Driving speed 12 km/h 12 km/h

Gradability 6% 6%

Turning radius 9.200 mm 9.200 mm

Design

Engine / Propulsion 3 electric motors

Electric motor for drive 22 kW
Main platform lifting 32 kW
Operating hydraulic system 12 kW
Traction batteries: 3 different 80V lead batteries sizes available (625 Ah / 810 Ah / 1.125 Ah)

Transmission / axles Direct electric drive on front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic brake system, multiple wet disc brakes

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zink-plated steel rollers for longitudinal transfer, transversal drive units

on front platform, hydraulically adjustable guide rails on front platform,

side loading and ULD rotation on rear of main platform

Hydraulic system Priority valve for steering and brakes circuit, valves with control light

Electric system 24V DC, combination of common relays and PLC controllers.

Where possible, control logic functions processed by the PLC

Options

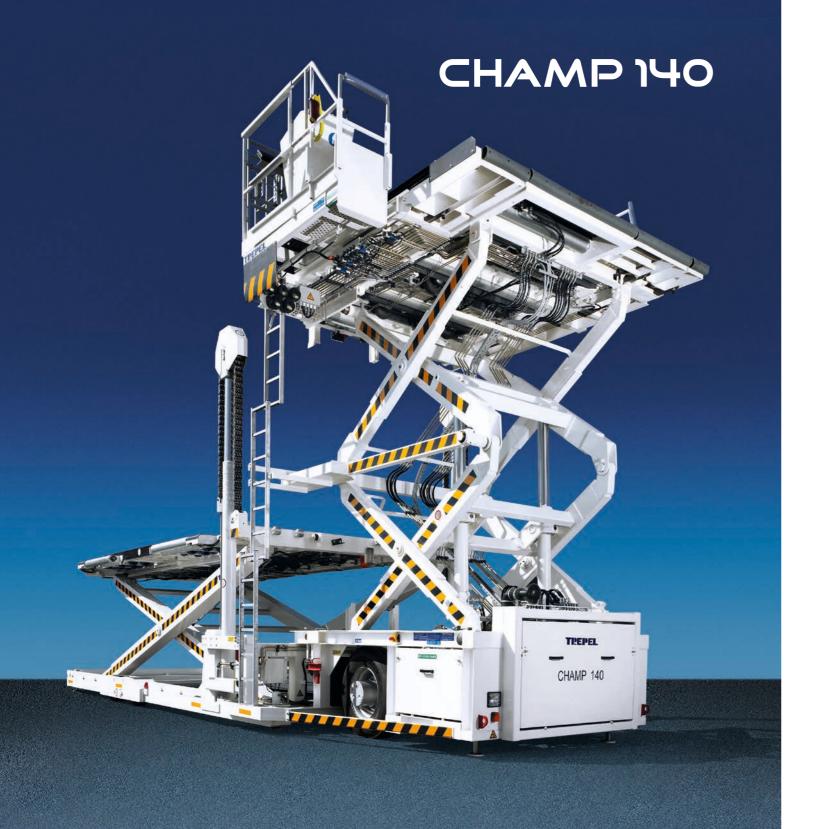
Solid tires, on-board charger, spring-driven cable reels, Li-ion battery

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The full-performance 7 ton loader

The CH70e Neo is based on a new concept of an electro-hydraulically operating power system. This power system is divided into 3 working and auxiliary functions. The split system allows to purposefully direct energy to the corresponding function, allowing longer use of battery power. Cutting-edge technology makes it possible to recuperate energy when lowering the main platform. The durable electric components of the powertrain ensure low maintenance cost.





Performance CHAMP 140

Dimensions (L x W x H) 11.400 x 4.400 x 3.900 mm (standard configuration)

Capacity 14.000 kg main platform lift and transfer

14.000 kg front platform transfer

Lifting height front / main platform 1.900 to 5.600 mm / 485 to 5.600 mm

Loading width (between guide rails) 3.250 mm

Driving speed 15 km/h

Gradability 5 %

Turning radius 13.000 mm

Design

Engine Deutz 4-cylinder diesel TCD 2012 L04 2V (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission / axles Open circuit hydrostatic drive system on steering front axle,

bogie wheel system on rear axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple disc brake, additional spring-loaded

emergency parking brake, dynamic brake system

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, side loading and rotating

on rear of main platform, side loading on front of main platform, hydraulically operated stops and guide rails on main platform

Hydraulic system Central hydraulic valve block, valves fitted with control light, electrically

powered hydraulic emergency system to lower platforms and lift stabilisers

Electric system 24V, relay controlled

Options Further options on request. Please consult the technical specification for

more information. We reserve the right of technical alterations.

Universal main deck loader

The CHAMP 140 combines the advantages of a lower and main deck loader with excellent reliability. Due to its bogie wheel system on its rear axle, the CHAMP 140 is easy and safe to manoeuvre. Additional features and options make sure the CHAMP 140 meets all customers' requirements. The CHAMP 140 handles all pallets and containers up to a weight of 14 tons and a length of 20 feet at lower and main deck level. With its high performance and availability the CHAMP 140 runs for top handling procedure. Freight handling with higher quality.









Performance CHAMP 140e

Dimensions (L x W x H) 11.400 x 4.400 x 3.900 mm (standard configuration)

Capacity 14.000 kg main platform lift and transfer

14.000 kg front platform transfer

Lifting height front/main platform 1.900 to 5.600 mm / 485 to 5.600 mm

Loading width (between guide rails) 3.272 mm (FPF) / 3.286 mm (MPF)

Driving speed 13 km/h

Gradability 7%

Turning radius 14.000 mm

* Effective power

Engine / Propulsion 3 electric motors

Drive 60 kW*
MPF lifting 60 kW*
FPF lifting and operating hydraulic system 36 kW*

Traction battery: 400 V liquid-cooled lithium-ion battery

Transmission / axles Direct electric drive on front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic brake system, multiple wet disc brakes

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zink-plated steel rollers for longitudinal transfer, transversal drive units

on front platform, hydraulically adjustable guide rails on front platform,

side loading and ULD rotation on rear of main platform

Hydraulic system Priority valve for steering and brakes circuit, valves with control light

Electric system 24V DC, combination of common relays and PLC controllers.

Where possible, control logic functions processed by the PLC

Options

On-board charger, wallbox charging station, lithium iron-phosphate (LFP) battery

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The electric-powered all-rounder

With a total propulsion of around 150 kW distributed over 3 asynchronous electric motors dedicated and dimensioned for specific tasks such as driving or lifting, the CHAMP 140e is one of the most effective and versatile electric-powered main deck loaders on the market. Equivalent to its Diesel brother regarding handling and operating, the CHAMP 140e is the perfect emission-free complement for your GSE fleet.









Performance CHAMP 200

Dimensions (L x W x H) 12.635 x 4.500 x 3.150 mm (standard configuration)

Capacity (both platforms lift and transfer) 20.000 kg

Lifting height front / main platform 2.050 to 5.600 mm / 508 to 5.600 mm

Loading width (between guide rails) 3.230 mm

Driving speed 15 km/h

Gradability 5 %

Turning radius 13.400 mm

Design

Engine Deutz 4-cylinder diesel TCD 2012 L04 2V (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission / axles Open circuit hydrostatic drive system on steering front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic drum brake,

additional spring-loaded emergency parking brake

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, side loading and rotating

on rear of main platform, side loading on front of main platform,

hydraulically operated stops at rear end of main platform

Hydraulic system Central hydraulic valve block, valves fitted with control light, electrically

powered hydraulic emergency system to lower platforms and lift stabilisers

Electric system 24 V, relay controlled

Options

Dynamic brake system.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

ATTENTION: Modification to CHAMP 200XT with a front platform extension on the left hand side increase the maximum available pass-through-width up to 145" for loading/unloading high-diameter-turbofan transported on shipping-fixture (not IL-76 compatible).

Loading of heavy duty cargo freight for IL-76 and commercial freighters

The 20 ton cargo high loader CHAMP 200 can handle all conventional freighters including the IL-76 safe and fast. It is positioned lengthways to the rear cargo door with the front platform directly docked on the door sill. The CHAMP 200's scissor integrated cylinders (the only one without vertical cylinders for lifting/lowering rear platform) and the low front platform height makes the handling of this aircraft easy. During its long career at airports all over the world, the CHAMP 200 has gained the reputation of the unfailing main deck loader. Freight handling with higher reliability.









Performance CHAMP 350

Dimensions (L x W x H) 13.100 x 4.500 x 3.870 mm (standard configuration)

Capacity (both platforms lift and transfer) 35.000 kg

Lifting height front / main platform 2.100 to 5.600 mm / 490 to 5.600 mm

Loading width (between guide rails) 3.310 mm

Driving speed 10-13 km/h

Gradability 5 %

Turning radius 16.000 mm

Design

Engine Deutz 4-cylinder diesel TCD 2012 L04 2V (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission / axles Open circuit hydrostatic drive system on steering front axle,

bogie wheel system on rear axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple wet disc brake, additional spring-loaded

emergency parking brake, dynamic brake system

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, side loading and rotating

on rear of main platform, side loading on front of main platform, hydraulically operated stops and guide rails on main platform

Hydraulic system Central hydraulic valve block, valves fitted with control light, electrically

powered hydraulic emergency system to lower platforms and lift stabilisers

Electric system 24V, relay controlled

OptionsFurther options on request. Please consult the technical specification for

more information. We reserve the right of technical alterations.

The one and only real 35 ton loader in the world

The unique load capacity of 35 tons on the main and front platform makes the CHAMP350 the most capable high loader in the world. Its diversity and adaptability to specific market requirements, available tailor-made ex factory, make this model an absolute champion in air cargo operations.





Performance CHAMP 350e

Dimensions (L x W x H) 13.100 x 4.500 x 3.870 mm (standard configuration)

Capacity (both platforms lift and transfer) 35.000 kg

Lifting height front/main platform 2.100 to 5.600 mm / 490 to 5.600 mm

Loading width (between guide rails) 3.310 mm

Driving speed 10-12 km/h

Gradability 6 %

Turning radius 16.000 mm

Design * Nominal power

Power System/ Propulsion 3 electric motors

Driving motor 94.4 kW*
MPF lifting 108 kW*
FPF lifting and operating hydraulic system 65.9 kW*

Traction battery: 400 V liquid-cooled lithium-ion battery Inverter liquid cooled, 1 inverter per electric motor On-board battery charger liquid cooled, 22 kW

Transmission / axles Direct electric drive on front axle

Steering Hydraulic power steering

Braking system Dual circuit hydraulic multiple wet disc brake,

additional spring-loaded emergency parking brake

Stabilisers 6 hydraulically operated stabilisers

Conveying system Zinc-plated steel rollers for longitudinal transfer, rotating system on rear

of main platform, hydraulically adjustable guide rails on front platform

Hydraulic system Priority valve for steering and brakes circuit, valves with control light

Electric system 24V DC, combination of common relays and PLC controllers.

Where possible, control logic functions processed by the PLC

Options

On-board charger, wallbox charging station, lithium iron-phosphate (LFP) battery

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

The electric-powered all-rounder

With a total propulsion of around 270 kW distributed over 3 synchronous liquid cooled electric motors dedicated and dimensioned for specific tasks such as driving or lifting, the CHAMP 350e is one of the most powerful and versatile electric-powered main deck loaders on the market. Equivalent to its Diesel brother regarding handling and operating, the CHAMP 350e is the perfect emission-free complement for your GSE fleet.







Performance CCL 35 S

Dimensions (L x W x H) 6.520 x 2.900 x 1.600 mm (standard configuration)

Capacity 3.500 kg

Lifting height platform 485 to 3.500 mm

Loading width (between guide rails) 1.620 mm

Driving speed 15 km/h

Gradability 5 %

Turning radius 8.500 mm

Design

Engine Deutz 4-cylinder diesel D 2011 L04 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission Closed circuit hydrostatic drive system on rear wheel hub motors

Steering Hydraulic power steering

Braking system Dual circuit hydraulic operated drum brakes on rear wheels,

additional spring-loaded multiple disk emergency parking brake

Platform system Single platform with tilting system

Conveying system Zinc-plated steel rollers for longitudinal transfer, side shift system on

front of platform, hydraulically adjustable guide rails

Hydraulic system Central hydraulic valve block, valves fitted with control light

Electric system 24 V, relay controlled

Options Dolly finger system on rear end, differential lock, etc.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

An adaptive vehicle as transporter and loader for containers

The CCL 35 S combines two vehicles in one – cargo high loader and transporter. Developed in the nineties for handling the A320 family, the CCL 35 S today is able to handle freight on all lower decks of commercial aircraft. The dolly train with containers can be parked anywhere around the aircraft allowing the CCL 35 S to act as a junction to transfer containers between the dollies and the aircraft. This is a user-friendly and manoeuvrable loader-transporter allowing quick and economical freight loading and unloading. With several options available, the CCL 35 S is one of the most popular pieces of equipment on the apron today. Freight service on a faster level.









Performance TRANS 70

Dimensions (L x W x H) 5.560 x 3.890 x 1.500 mm (standard configuration)

Capacity 7.000 kg

Loading height front / rear 450 to 690 mm / 450 to 540 mm

Loading width (between guide rails) 2.500 mm

Loading length (between stops) 3.285 mm

Ground clearance (driving position) 150 mm

Driving speed 32 km/h

Gradability 8 %

Turning radius 6.700 mm

Design

Engine Deutz 4-cylinder diesel TD 2011 L04 (COM IIIA / EPA-TIER3)

Other engines or emission class on request.

Transmission On the rear wheels, closed circuit hydrostatic drive system

with automotive actuation

Steering Hydraulic power steering

Braking system Hydrostatic, dual circuit hydraulically powered disc brake,

additional spring-loaded emergency parking brake

Hydraulic system Central hydraulic valve block, valves fitted with control light

Electric system 24V, relay controlled

Options

Driver stand on left or right hand side, dolly finger configuration on front and/or rear end, side shifting of LD containers, solid tyres, three sides

closed canopied driver's cabin, etc.

Further options on request. Please consult the technical specification for more information. We reserve the right of technical alterations.

Fast, efficient and adaptive

The TRANS 70 is a most versatile Container and Pallet Transporter. The modern concept of the TRANS 70 is designed to encounter all operational modes with the best performance. A dolly finger system can be added to adapt the TRANS 70 to your existing fleet of dollies. The small turning radius allows perfect manoeuvrability on the congested airport apron. The large wheels allow a comfortable drive on all kinds of road surfaces at a high driving speed. The TRANS 70 is designed in a modular way that allows every customer to configure it according to their specific requirements. For example, the driving station can be fitted on either side of the vehicle.







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