

CHAMP 35



Performance

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

CHAMP 35 (MY15)

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.



CHAMP 35 **e**



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

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

CHAMP 35e

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.



CHAMP 70



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 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

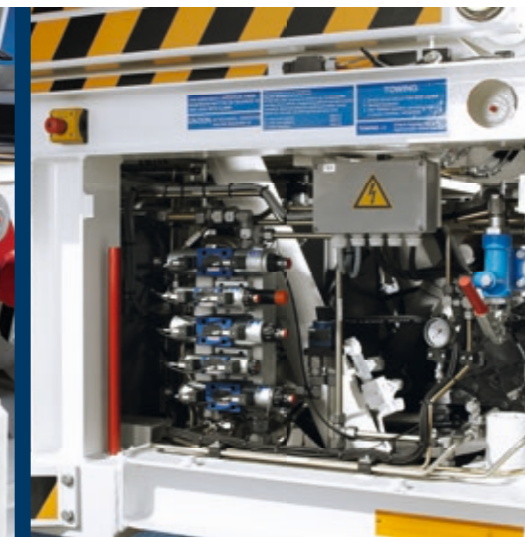
Design

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.



CHAMP 70 **e** NEO



CHAMP 70S **e** NEO



CHAMP 70W **e** NEO



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 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.



CHAMP 140



Performance

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 LO4 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.



CHAMP 140 **e**



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

Design

		* 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.



CHAMP 200



Performance

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

CHAMP 200

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.



CHAMP 350



Performance

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

CHAMP 350

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

Options

Further 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.

