

Otto 1000-18 m/min

CHAIN HOIST



GENERAL INFORMATION

The OTTO 1000-18 model is equipped as standard with an integrated safety catch in the gearbox and two silent theatre brakes, offering enhanced safety features. The hoist allows the highest available performance for scenic applications, operating at high speed with precise positioning.

The high-end version of the OTTO family showcases a high-performance synchronous servo motor, enabling smooth and quiet movement of loads over extended periods of time.

APPLICATIONS

Suited for a wide range of applications such as arenas, studios, theatres, operas, multipurpose venues and more.

REGULATIONS

- DGUV V17/18
- EN 17206
- SIL3 (if supplied with ASM control)

FEATURES

- Max travel: up to 80 m in single fall operation
- Double-reeved operation possible (see page 5)
- Load capacity: up to 1000 kg
- Speed: up to 18 m/min
- Equipped with one 3 kW motor
- Silent and smooth running
- Compact dimensions
- Optimal capacity to own weight ratio
- Equipped with two redundant encoders, with monitored loadcell for load measurement and with two independent theatre brakes
- The special X-drive chain wheel ensures smooth running, virtually eliminating the bounce associated with conventional square chain wheel
- Delivered with four easily accessible handles for simple mounting

- Supplied with an EN normed eyelet
- All ASM Otto hoists can easily be converted from lifting to self-climbing operation

Otto 1000-18 Model

The Otto 1000-18 model is part of a wider range of Otto chain hoists. As ASM engineered each hoist to their fullest capacity, each model has their specific composition which cannot be altered. Special models can be offered on request.

	Speed in m/min	Travel in m	ELL in kg
Otto 1000-18 Single fall operation	18	80	1000

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TECHNICAL DATA

MODEL	Otto 1000-18-GSG-SIL3 without Power Pack	Otto 1000-18-GSG-SIL3- with Power Pack	Otto 1000-18-SIL3-Servo without Power Pack	Otto 1000-18-GSG-SIL3- Servo with Power Pack
Type	SIL3	GSG-SIL3	SIL3-Servo	GSG-SIL3-Servo
Operating Mode	synchronous (ready)	synchronous	synchronous (ready)	synchronous
Regulation	DGUV V17 (before BGV C1), DIN EN 17206			
SIL Level	SIL 3 ready	SIL 3	SIL 3 ready	SIL3
Hoist Capacity on Chain	Up to 1000 kg in single fall operation Up to 2000 kg if double-reeved			
Max Travel	Up to 80 m in single fall operation Up to 40 m if double-reeved			
Max Speed	Up to 18 m/min in single fall operation Up to 9 m/min if double-reeved			
Variable Speed	Yes, depending on control	Yes	Yes, depending on control	Yes
Duty Cycle	Up to 65% / 50 Hz		Up to 90% / 50 Hz	
Noise Level	Approx. 55 dBA			
No. of Drops	1			
Acceleration	Depending on control	0,3 m/s ²	Depending on control	0,3 m/s ²
Load Bearing Line	Chain 10 x 28 mm (not included)			
Breaking Strength	126 kN			
Load Carrying Device	Standard supplied with eyelet (hook – on request)			
Type of Material - Chassis	Steel / Aluminum			
Chassis Colour	Black			
Type of Material - Cover	Rubber			
Cover Colour	Black			
Safety System	2 independent theatre brakes (Mayr)			
Installation Method	Hanging or self-climbing			
Gearbox Type	TS-10 i=41			
Gearbox Design	worm			
Gearbox Safety	2 x nominal torque/ 400 h lifetime and safety catch			
Motor Type	1 x noise reduced asynchronous. 2 pol		Servo (Hiperface, PMSM)	
Motor Performance	1 x 3 kW		1 x 3,8 kW	
Limit Switch	4 track (Stromag) DGUV V17 (2 x operational limits + 2 x absolute limits)			
Encoder System	2 x absolute encoders (SSI Interface) 1 x incremental encoders (TTL interface, 1 for closed loop)		2 x absolute encoders (SSI interface)	
Load Sensing (total load)	Load cell 4-20 mA SIL3			
Underload Detection	Yes, depending on control	Yes	Yes, depending on control	Yes
Type of Hoist Control	Not supplied	ASM GENESIS SIL 3	Not supplied	ASM GENESIS SIL3

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TECHNICAL DATA (CONTINUED)

MODEL	Otto 1000-18-GSG-SIL3 without Power Pack	Otto 1000-18-GSG-SIL3- with Power Pack	Otto 1000-18-SIL3-Servo without Power Pack	Otto 1000-18-GSG-SIL3- Servo with Power Pack
Type	SIL 3	GSG-SIL 3	Servo-SIL3	Servo-GSG-SIL3
Position of Hoist Control	Not supplied	External, ASM PowerPack	Not supplied	External ASM PowerPack
Control Equipment	None	GENESIS SIL3 power pack (16 kHz) with ASM TWINCORE SIL3 axis card, E-stop management and frequency inverter (7,5 kW), including 1,8 m multi-pin connection cable (Harting)	None	GENESIS SIL3 power pack (16 kHz) with ASM TWINCORE SIL3 axis card, E-stop management and frequency inverter (2,2 kW), including 1,8 m multi-pin connection cable (Harting)
Cable Interface	ASM standard connector interface (Harting) (cable outlet 0,75 m)	control connector XLR-RJ45 CEE 5 PIN-16 A (cable length 1,8 m)	ASM standard connector interface (Harting) (cable outlet 0,75 m)	control connector XLR-RJ45 CEE 5 PIN-16 A (cable length 1,8 m)
Main/Motor Supply	U1 / V1 / W1 / PE (400 V 50/60 Hz)	3 PH / N / PE (400 V 50/60 Hz) via external ASM power pack	U1 / V1 / W1 / PE (400 V 50/60 Hz)	3 PH / N / PE (400 V 50/60 Hz) via external ASM power pack
Power Cable	Not supplied	1,8 m CEE 5 PIN-16 A	Not supplied	1,8 m CEE 5 PIN-16 A
Dimension HxWxD	331 mm x 393 mm x 497 mm (without chain bag and external PowerPack)			
Weight Without external PowerPack, chain and chain equipment	68 kg		67 kg	
Including	Eyelet			
	Documentation			

OPTIONS

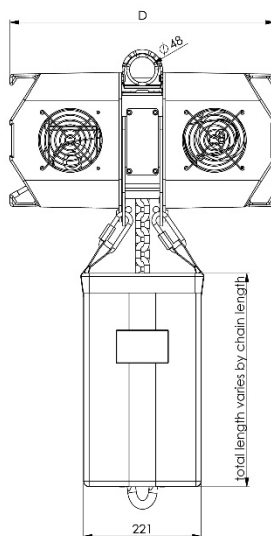
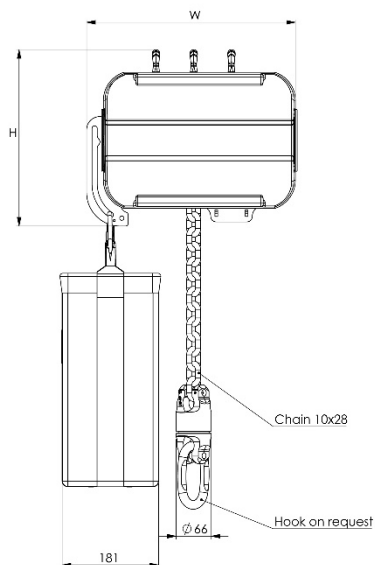
- Hook supplied on request
- PowerPack can be mounted directly on the hoist
- Longer travel possible
- Double-reeved operation possible (see page 5)

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CHAIN HOIST

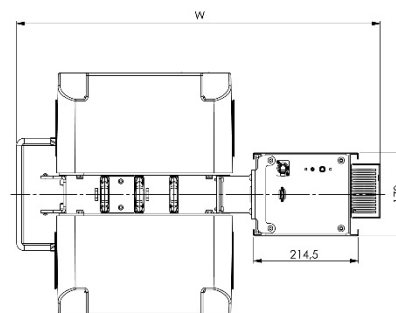
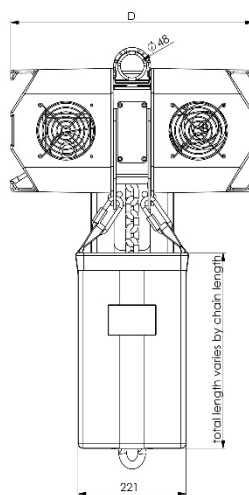
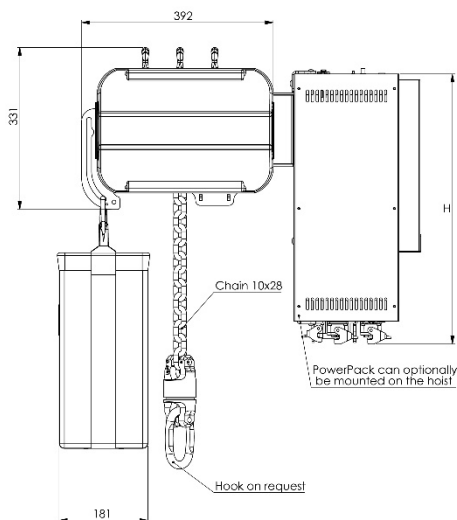


DIMENSIONS



without chain bag and Powerpack	Otto 1000-18 Single operation
Height	331 mm
Width	392 mm
Depth	497 mm
Weight	68 kg

DIMENSIONS WITH COMPATIBLE ASM GENESIS SIL3 POWERPACK



without chain bag	Otto 1000-18 With PowerPack
Height	552 mm
Width	774 mm
Depth	497 mm
Weight	85 kg

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CHAIN HOIST

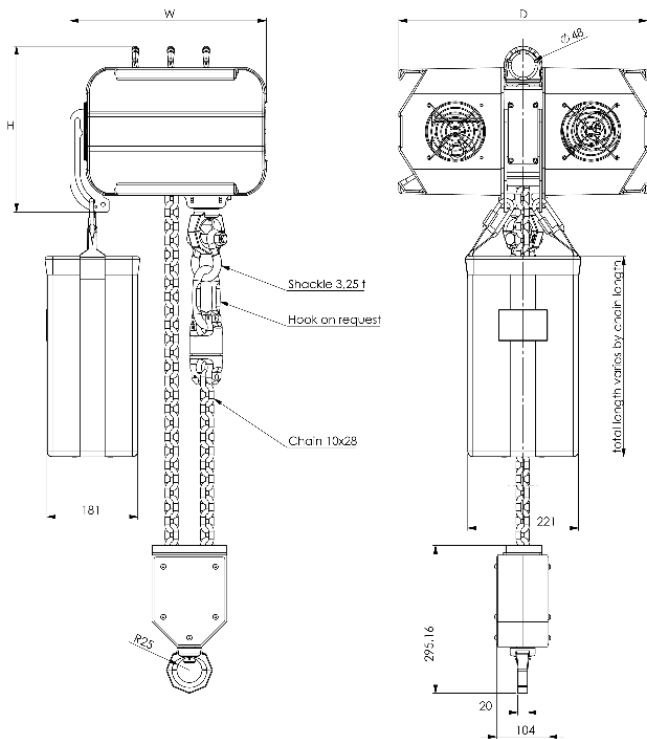


Otto 1000 DOUBLE-REEVED



	Speed in m/min	Travel in m	ELL in kg
Otto 1000-18 DOUBLE-REEVED	9	40	000

DIMENSIONS DOUBLE-REEVED



without chain bag and Powerpack	Otto 1000-18 Double reeved
Height	331 mm
Width	392 mm
Depth	497 mm
Weight	88 kg



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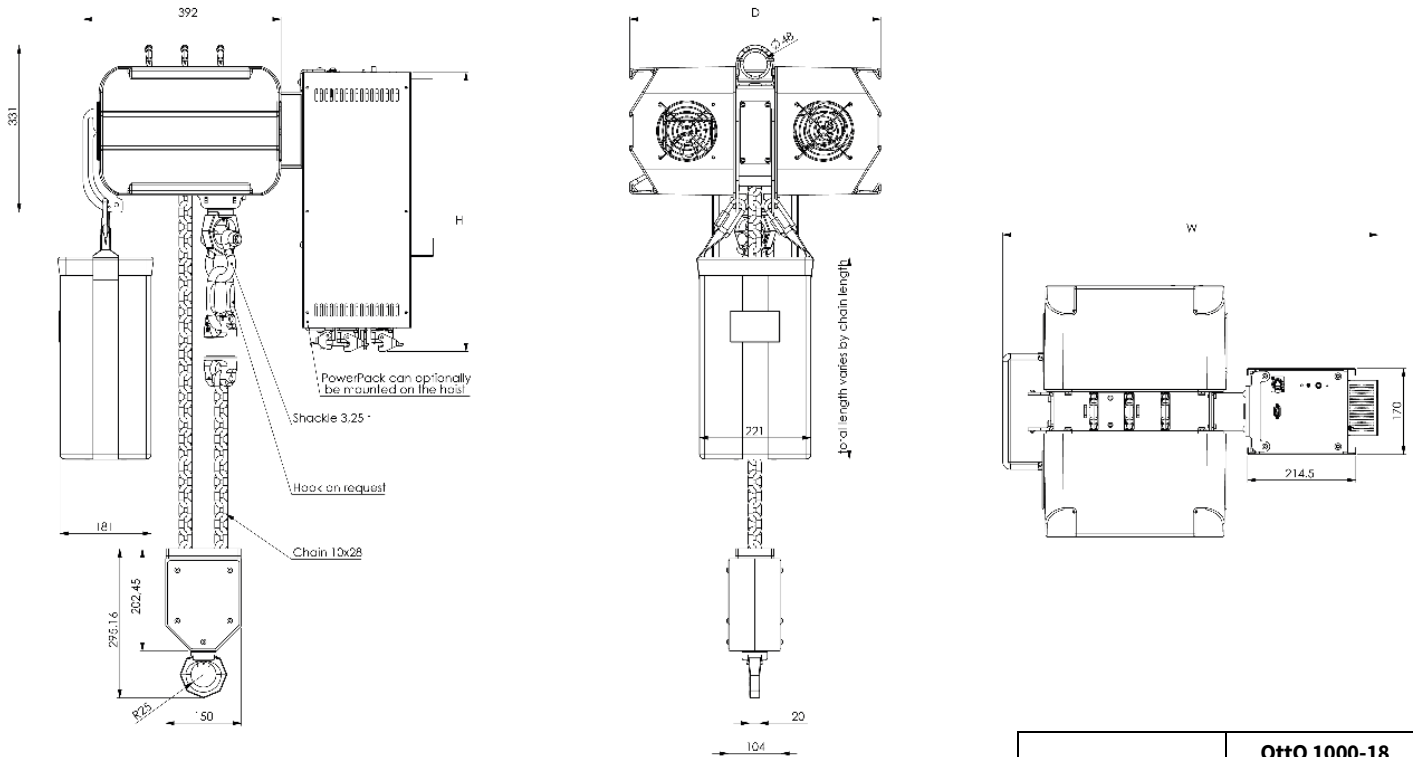
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Otto 1000-18 m/min

CHAIN HOIST



DIMENSIONS WITH COMPATIBLE ASM GENESIS SIL3 POWERPACK



	Otto 1000-18 Double-reeved With PowerPack
without chain bag	
Height	552 mm
Width	774 mm
Depth	497 mm
Weight	108 kg



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