

CYBERHOIST CH1000

High lifting power, intelligent variable speed chain hoist

1000 kg (1 ton) maximum load

0-10 m/min (0.54 ft/sec) variable speed

OVERVIEW

The CyberHoist 1000 intelligent chain hoist is one of three different hoists for use with an InMotion3D system or RC1 handheld controller.

Designed to be operated motor-up or motor-down (for use with or without a mothergrid), it provides a maximum travel speed of 10 m/min (0.54 ft/sec) and a maximum load capacity of 1000Kg (2024 lbs). It is designed to be controlled by the dedicated InMotion 3D object oriented software or an RC1 handheld controller, and operated in conjunction with XLNT DataMotion™ data distribution and PowerMotion™ power distribution systems.

POWER AND INTELLIGENCE

The two principle components within the CyberHoist 1000 are a powerful and precise, digitally-controlled closed loop flux vector drive and a sophisticated processor module. It delivers full torque at all speeds from 0 to 10 metres per minute (0.54 ft/sec, in 0.1 mm (0.004"/sec) speed steps, with positioning accurate to 0.1 mm (0.004"). The combination of absolute and incremental encoders means the motor constantly senses its exact position without requiring pre-calibration. Zero speed is obtained without the use of brakes, the Vector Drive control keeping the motor's axis in place. When pre-programmed off-line, it can quickly be levelled with the software presets at each venue: for example, on a tour.

SOPHISTICATION AND SAFETY

This method makes it simple for a programmer to create very complex moves with multi-hoist systems, the only programming requirement being to instruct the software where to move a complete object to, what Height, Roll and Pitch to apply, and the time to reach that desired position. The software controls individual motor movements and ensures that the load on each motor remains within safe limits at all speeds and positions. Safety is further enhanced by a double DC brake and the optional digital loadcell, which is viewable on the status screen.

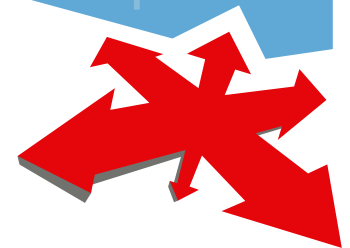
Also in the hardware specification are forced ventilation, modular construction, constant temperature control and a safety coefficient up to 10, complying with the DIN 56925 international standard for dynamic overhead use.



CYBERHOIST CH1000 KEY FEATURES

- High load capacity and fully variable speed
- Ultra quiet operation: 57db(A) at 1 metre
- Microprocessor controlled hoist movements
- Digitally controlled flux-vector drive
- Absolute encoder for positioning and speed feedback
- Optional Digital Loadcell, viewable on the status screen
- Forced ventilation

TECHNICAL DATA



CYBERHOIST
with **INMOTION3D**

CYBERHOIST CH1000

High lifting power, intelligent variable speed chain hoist

1000 kg (1 ton) maximum load

0-10 m/min (0.54 ft/sec) variable speed

SAFETY FEATURES

- Double DC brake system
- Mechanical over-travel limits (up and down)
- Dynamic overload device and calculated slack chain protection
- Autonomous hard wired emergency circuit CE security level 4 (incorporated in power distribution set)
- Constant temperature control
- Status feedback via Ethernet of temperature, current position, motor status, fan speed, grouping, brakes etc.
- Safety coefficient up to 10 – complies with applicable international standards for safe mobile operations above public (DIN 56925)

InMotion3D software and the CyberHoist intelligent motor system from XLNT Advanced Technologies make motion control a truly creative process. Tiny or huge loads can be moved with millimetre perfection, from imperceptibly slow to breath-takingly fast speeds. And fast 3D object oriented programming means you can be flying in minutes.

SPECIFICATIONS

Subject	EU	US
Maximum load	500 kg	1012 lbs
Speed range	MIN: 0 mm/min True Zero Speed, brakes not engaged MAX: 10 metres/min	MIN: 0"/min True Zero Speed, brakes not engaged MAX: 0.54 ft/sec
Speed increments	Speed variable in steps of 0.1 mm/sec 25 bit resolution	Speed variable in steps of 0.004"/sec, 25 bit resolution
Positional accuracy	0.1 mm	0.004"
Chain length	Maximum length 80 mtrs Standard length 22 mtrs	Maximum length 262.4 ft Standard length 72 ft
Operating voltage	400V	208V
Nominal motor current	3A	9A
Power supply	3-phase + earth 230/400V 50-60Hz	3-phase + earth 230/400V 50-60Hz
Mains connector	Han™ 10	
Controls	Ethernet	
Data connector	Neutrik EtherCon™	
Encoder type	2048 incremental. 25 bit absolute positioning encoder	
Encoder connection	Integrated in hoist	
Load cell	Optional digital load cell integrated in hoist	
Emergency stop	Via dedicated PSU system hardware and software based	
Limit switches	Dual mechanical safety limits for emergency; multiple software limits	
Brakes	2 mechanical brakes for emergency use. Braking during operation is done through flux drive	
Max sound level (at full speed)	57 dB(A) at 1 metre	57 dB(A) at 3.28 ft
Enclosure	Roadproof metal epoxy coated housing	
Weight (including 22 m chain)	92 kg (202.8 lbs)	
Dimensions (Excluding hook and chain bucket)	[HxWxD] 170 x 630 x 310 mm	[HxWxD] 6.7" x 24.9" x 12.2"
Classification	BGV-C1, DIN 56925	
Product Code	CH 1000 / SM10.1008ml-F	

XLNT Advanced Technologies

Utrecht, the Netherlands

Tel +31 (0)30 247 9999

Fax +31 (0)30 247 9998

Email info@xlnt-at.com

www.xlnt-at.com

