

H500D

POWER FLYING HOISTS



DESCRIPTION

The Jands H500D series is a range of economical motorised grooved drum hoists for power flying systems in theatres and halls.

A range of lifting capacities, speeds and wire rope configurations are available, up to a speed of 1.2m/sec, a lifting capacity of 600kg, and a (6mm) wire rope capacity of 120m (6 x 20m, 4 x 30m etc).

All H500D hoists feature a redundant dual disc braking system complying with German safety regulation BGV-C1.

A rotary limit switch is directly coupled to the gearbox output shaft, providing end-of-travel limits, and over-travel limits connected to an integral Category 3 (SIL 2) Emergency Stop circuit.

An incremental position encoder within the rotary limit assembly provides both a tachometer signal to the on-board safety circuits and a position counter signal to an (optional) external control system.

The on board electronic inverter drive provides controlled acceleration and deceleration of the hoist, the ability to set the "default" speed of the hoist and the option of connecting an external speed control.

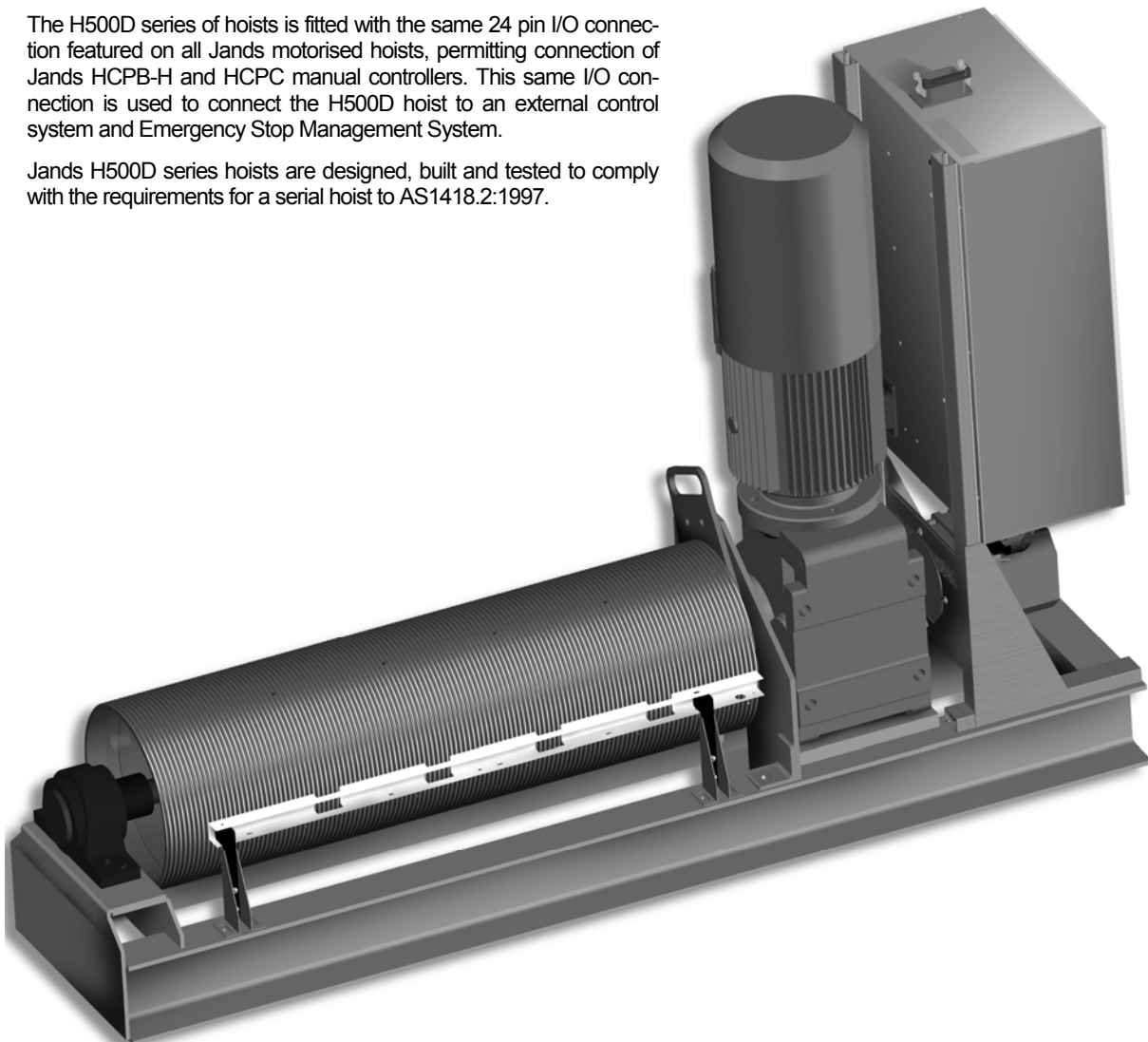
A Jands proprietary control module monitors the on-board rope-crossed-groove detector, external slack wire detector and limit switches, and performs brake tests and limit switch coupling checks.

The H500D series of hoists is fitted with the same 24 pin I/O connection featured on all Jands motorised hoists, permitting connection of Jands HCPB-H and HCPC manual controllers. This same I/O connection is used to connect the H500D hoist to an external control system and Emergency Stop Management System.

Jands H500D series hoists are designed, built and tested to comply with the requirements for a serial hoist to AS1418.2:1997.

OVERALL SPECIFICATIONS

Number of ropes	:	Up to 6
Rope capacity	:	Up to 120m
SWR type	:	6mm 6x19 fibre core
Lift capacity/speed	:	
2.2kW motor	:	400/200kg @ 0.4/0.8m/s
3kW motor	:	500/300kg @ 0.4/0.8m/s
4kW motor	:	500/300kg @ 0.7/1.2m/s
5.5kw motor	:	600/350kg @ 0.7/1.2m/s
Encoder increment	:	0.2mm
Positional accuracy	:	+/- 2mm
Motor type	:	4 Pole AC Asynchronous
Controller type	:	Open loop quadrature
Duty Cycle	:	S3 (50%)
Braking system	:	
- Holding	:	Dual motor disc brake to BGV-C1
- Dynamic	:	Inverter DC regenerative
Limit Switch	:	4 Pole Rotary
Encoder	:	24V 500ppr quadrature
Power Supply	:	230/400V 50Hz
I/O Connector	:	ILME CDDF24



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