



BOSUN CHAIR

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1.1 TECHNICAL DATA

Platform type	Bosun chair
Reference drawings	S001.61.00
Platform Material	fully welded steel
Selfweight	170kg.
Safe Working Load on platform	90kg. (1 person)
Nominal length	1285 mm
Total width	1132 mm
Total height	2461 mm
Hoisting height	40 mtrs.
Hoisting/lowering speed (powered)	8,5 mtrs/min
Emergency descent speed	9 mtrs/min.
Suspension wire ropes	one
Safety wire ropes	one
Wire rope specification	8mm (*)
Wire rope safety factor	10 : 1
Hoist unit	H400
Overspeed devices	SKY MAN® Safety Brake
Power supply	As required

1.2 ADDITIONAL SAFETY DEVICES

Upper travel limit normal
 Upper travel limit ultimate
 Electronic overload device
 * Anti-tension unit (electric cable)
 * Fire extinguishers
 * Mullion roller assemblies
 * Restraint lanyards
 Control buttons require continuous operation
 Emergency stop on control station
 Safety belt
 Twin wire winder assy
 24V control station

Items marked thus * are optional extras

1.3 BASE FRAME CONSTRUCTION

The Base frame is a fully welded steel frame that is shot blasted, metalised and baked powder coat finish. Soft rubber wall rollers together with underside caster wheel units also fitted as standard.

1.4 HOIST UNITS

The platform is raised and lowered under electrical power by means a traction hoist. The hoist utilised is a SKY MAN type H400E.

The hoist unit is up to the toughest jobs while meeting and exceeding the latest safety regulations worldwide. All hoists are fitted with fail-safe primary brake, which can be manually released by the platform personnel. This allows the bosun chair to descend to ground level under gravity at a controlled speed of approximately 9 mtrs/m. should failure of the roof electrical power supply even occur during cleaning operations.

1.5 WIRE ROPE REELERS

In order to eliminate wire rope hanging beneath the platform, power operated twin drum wire reeler assemblies are fitted at the back of the bosun chair. Each drum has a maximum capacity of 300 metres of 8mm dia wire rope and 200 metres of 9mm dia wire rope

1.6 UPPER TRAVEL LIMITS

At the upper limit of the bosun chair travel, a striker plate is fixed to each wire rope. Two limit switches are fitted above the stirrup.

When the bosun chair reaches the highest point, the limit switch touches the striker plate and is activated. Now UPWARD travelling is interrupted and only DOWNWARD travelling is possible until the switch is deactivated.

1.7 OVERLOAD ASSEMBLY

An overload/underload assembly is fitted on the stirrup unit and is connected directly to the hoist unit. This unit can be adjusted (by means of the disc springs) to suit the total load being suspended. When tension is removed from the primary wire rope, the unit operates a limit switch, which interrupts the power supply to the hoist, and therefore halts powered downward travel of the hoist.

The overload is preset so that should the bosun chair be overloaded (normally suspended load + 25%), the unit operates a limit switch, which automatically interrupts the electrical power supply to the hoist, and therefore halts upward travel whilst still allowing travel in the downward direction.

