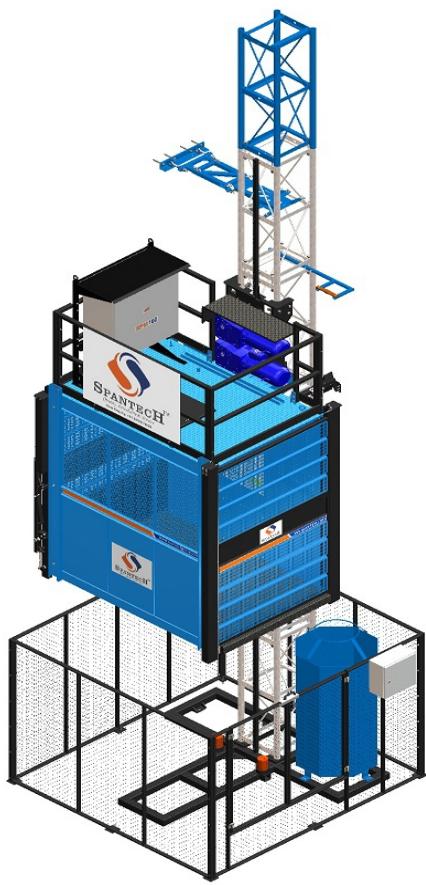




Passenger & Material Hoist

EN 12158-1:2001

- Machinery Directive
2006/42/CE
- Mast climbing working platforms
EN-14195:98
- Electromagnetic compatibility directive
89/336/EC
- Low voltage directive
73/23/EC
- Safety of machinery – electrical equipment of machines – part 1: General requirements
EN 60204-1



STANDARD ELECTRICAL SAFETIES

Interlocking devices on cage doors, enclosure doors,
Top / Bottom limits
Over travel final limits for top / bottom ends
Cable jamming protection device
Top, bottom and emergency stops
Rack searching device
Emergency stop (on car, control boxes...)
Power supply main switch
Safety device actuating detector

STANDARD MECHANICAL SAFETIES

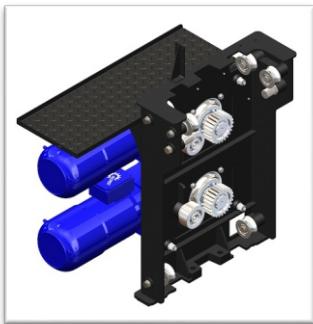
2 Motor with gearbox and electromechanical brakes
Safety device
Floating motor plate
Bottom mechanical stops with buffers
Anti slippery floor
Motor protecting cover
Hand release break for Emergency reach to nearest below floor.

GENERAL DATA

MODEL	SPM100	SPM150	SPM200
Capacity	1000 KG	1500 KG	2000 KG
Speed	30 Mtr./ Min.	30 Mtr./ Min.	30 Mtr./ Min.
Height	150Mtr.	150 Mtr.	150 Mtr.
Gear Rack Module	5	5	5
Safety Device	SSD 1000	SSD 1000	SSD 3500
Mast section	Square 450 x 450mm x 1.5m Round tube Ø60 x 4.5 Thk.	Square 450 x 450mm x 1.5m Round tube Ø60 x 4.5 Thk.	Square 450 x 450mm x 1.5m Round tube Ø60 x 4.5 Thk.
Wall tie interval	6 Mtr.	6 Mtr.	6 Mtr.
Cable Guide Interval	6 Mtr.	6 Mtr.	6 Mtr.
Rect. Cage. (Inside)	2.0 (L) x 1.4 (W) x 2.1 (H) mtr.	2.5 (L) x 1.4 (W) x 2.1(H) mtr.	3.0 (L) x 1.4 (W) x 2.1 (H) mtr.
Erection Crane	Yes, Electrical	Yes, Electrical	Yes, Electrical
HMI Display	Yes (Colour)	Yes (Colour)	Yes (Colour)
Floor Selection	Yes (Optional)	Yes (Optional)	Yes (Optional)
Load Cell	Yes (Optional)	Yes (Optional)	Yes (Optional)

ELECTRICAL DATA

Motor Power	2 x 6.9 KW	2 x 9.5 KW	2 x 13 KW
VFD	15 KW	22 KW	30 KW
Power Supply	400V (±5%) 50 Hz	400V (±5%) 50 Hz	400V (±5%) 50 Hz



• DRIVE UNIT

The drive unit consists of two helical-bevel gearboxes with motors and it is located usually above the hoist cage. The drive unit pinions engage with the rack on the mast. The motors are equipped with electromagnetic disc brakes which can be equipped with VFD, which improves the ride quality and levelling precision. Thanks to smooth starts and stops. **Powder coated** finish which increases shell life of structure and high end protection against rust.

• CAGE UNIT

The cage is welded of quality steel profiles which is made of Sheetmetal with the use of modern manufacturing technologies. Side walls are covered with CR sheeting with perforation. The entry and exit doors slide vertically and their closing is checked electronically. They are also entry door electromechanically lock and can only be opened when the cage is at a ground. Guide rollers ensure accurate motion of the cage along the mast. **Powder coated** finish which increases shell life of structure and high end protection against rust.



• SAFETY DEVICE

All SPANTECH rack & pinion hoist are supplied with **European design safety device** compliances with the **EN12159** and the **95/16/EC** directive of the **European Parliament and Council**. The safety device is an essential part of each rack & pinion hoist equipment, designed to safely stop the machine if the nominal speed in the down direction is exceeded. The safety heart of this device is a centrifugal mechanism. Which is individually and accurately set for a particular machine model.

• CONTROL PANELS AND LIMIT SWITCHES

The installed electrical components and limit switches ensure a safe and trouble-free operation. SPANTECH supplies Schneider, Finder or equivalent premium and reliable brand electrical contactors, relay, MCB etc. are used to avoid damage to the electrical motor. Thus reducing frequency of electrical breakdowns. The control panels are well arranged and all components are made to comply IP 54 protection.



• HOIST CONTROL

The hoist can be controlled in several ways to meet the requirements and practices of customers. The control systems are:

1. **Manual:** The most simple way. The hoist operates by simple manual control.
2. **Automatic:** The hoist can be controlled not only from the cage by means of pushbuttons or a joystick, but also from Colour HMI display.

We supply Schneider / Mitsubishi premium brand VFD, which delivers trouble free performance. Colour HMI which displays real time status of machine and indicates error messages with proper images. Encoder to be provided for accurate floor selection during auto mode, it also shows us real time floor position of machine on HMI screen. Provide all required safety elements. The car overload protection device prevents overload of cage beyond its rated load capacity. Encoder based floor selection system enabling cage to stop at any number of floors as per requirement.

Engineering

Next Generation Solutions



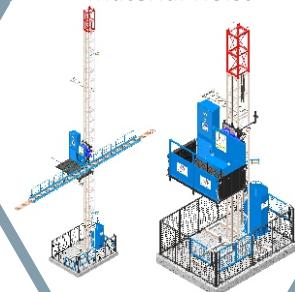
Bar Bending Machine



Passenger & Material Hoist
(Rack & Pinion)



Rack & Pinion Multi Functional Material Hoist



TMT Ring Bending Machine



Ring Bending Machine



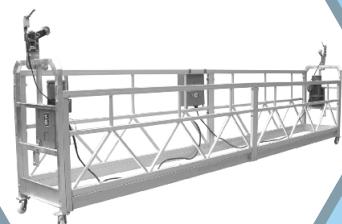
Multi-Functional Tower Hoist
(Rack & Pinion)



Bar Cutting Machine



Rope Suspended Platform



Multi-Functional Tower Hoist
(Wire Rope)



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