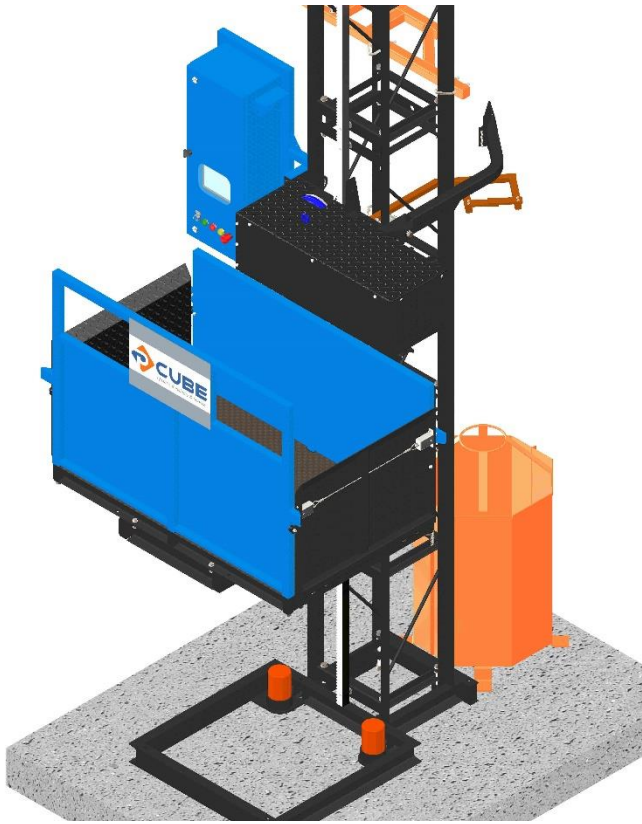


IS 12466:2012 - BUILDER'S HOIST — GENERAL REQUIREMENTS

This standard lays down requirements for capacity, construction, safety, performance and testing of single and double platform hoists with or without tilting bucket for use in high rise structures and buildings.





**STANDARD MATERIAL CAGE
(RECTANGLE)**

- **P CUBE Rack & pinion Tower Hoist** is designed to offer the most cost efficient vertical transport solution on site and is delivered 1000 KG & 1500 KG Gross capacity with three phase brake motor.
- **P CUBE Tower Hoist** unit has Multi-Functionality, and can be used for either to transport construction material, TMT bars, & concrete also.
- **It's robust and simple design makes it suitable for all vertical access, including direct to buildings for new construction or refurbishment work.**
- **Safety is paramount** in all **P CUBE** machines. The **P CUBE Tower Hoist** conform to the **latest safety standards IS 12466 : 2012** which not only ensure safety of the operation but also lays down requirements for capacity, construction, performance and testing of Hoist.
- **European Centrifugal Safety Device** shall be provided to cater high end safety against free fall of machine.

GENERAL DATA

MODEL	PRTH100	PRTH120
Gross Load	1250 kg.	1500 kg.
Net Load	1000 KG.	1200 KG.
Gear Rack Module	5	5
Speed	30 Mtr./ Min.	30 Mtr./ Min.
Height	120 Mtr.	120 Mtr.
Mast section	Square 500 mm x 400 mm x 1.5 Mtr. L 50x50x6 mm Angle	Square 500 mm x 400 mm x 1.5 Mtr. L 50x50x6 mm Angle
Wall tie interval	6 Mtr.	6 Mtr.
Cable Guide Interval	6 Mtr.	6 Mtr.
Rect. Cage. (Inside)	1.5 (L) x 0.8 (W) x 0.7 (H) mtr.	1.5 (L) x 0.8 (W) x 0.7 (H) mtr.

ELECTRICAL DATA

Motor Power	1 x 6.9 KW	1 x 9.5 KW
VFD	7.5 KW	11 KW
Power Supply	400V (±5%) 50 Hz	400V (±5%) 50 Hz

OPTIONAL FUTURE

Concrete Bucket (Tilting Type)	300 Litres / 0.3 Cubic Meter
Concrete Bucket (Tilting Type)	300 Litres / 0.3 Cubic Meter
Rebar carrier	7 Mtr Lg. (Horizontal)
Erection Crane	Manual Type
Floor Selection	Yes
Load Cell	Yes (Optional)

SAFETY FUTURE

Power fail safe brake motor
European design Safety Device
Cage doors limit switch
Top limit switch
Bottom limit switch
Over travel final limits for top / bottom ends
Rack searching limit
Emergency stop (on car control boxes & Remote pendant)
Power supply main switch
Safety device actuating detector
Full Covered Gear box & Motor.
Hand release break for Emergency reach to nearest below floor.

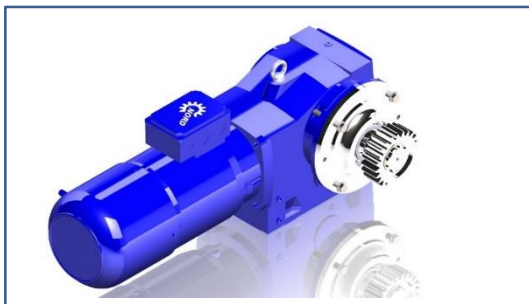


Electrical Control Panel

- Schneider, Finder etc primum and reliable make switch gears.
- L&T / Schneider / Mitsubishi make VFD.
- Colour HMI display for easy of operation and maintenance.
- HMI & push button based operation.
- Fully automatic & Manual mode of operation.
- Encoder based floor selection system.
- Optional Overload protection system.
- Provide all required safety elements.
- IP 55 degree of potation.
- Clean and easy panel wiring with proper markings on cables for batter traceability which reduce breakdown time.

Centrifugal Safety Device

- European design safety device is a mechanical unit used to protect against accidental free-fall.
- Automatic reset: The procedure to reset the brake consists only in raising the hoist a few centimetres. The brake returns to its operative without the need of any manipulation.



DRIVE UNIT

Type	Rack & Pinion
Gear Box	Nord Germany Design Heli Bevel Geared Motor with Electromagnetics brake with maximum power efficiency which reduce operating power of machine.
Location	Mount on Carriage unit



Concrete Bucket (Optional)

Type	Tilting type
Capacity	300 Ltr.
<ul style="list-style-type: none"> • Special design tilting type bucket to carry concrete. • Robust 2.5mm thk. MS sheet bucket design. • Self locking spring return locking arrangement. • Easy tilting operation. Powder coated surface finish . 	

Rebar Carrier (Optional)

Type	Horizontal
Capacity	500 Kg. 7 Mtr. Long
<ul style="list-style-type: none"> • Special design modular type tray design . • Robust MS tube structure covered with MS sheets for tray. • Swivel unit design with Anti friction bearing for effort less pulling of long bars. • Powder coated surface finish . 	

Engineering Next Generation Solutions

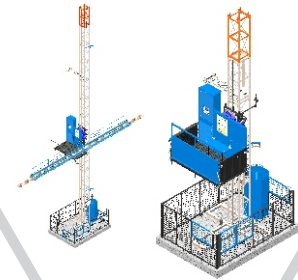
Bar Bending Machine



Passenger & Material Hoist (Rack & Pinion)



Rack & Pinion Multi Functional Material Hoist



TMT Ring Bending Machine



Ring Bending Machine



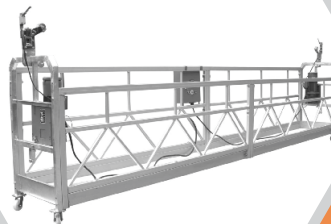
Multi-Functional Tower Hoist (Rack & Pinion)



Bar Cutting Machine



Rope Suspended Platform



Multi-Functional Tower Hoist (Wire Rope)



P CUBE EQUIPMENTS PVT. LTD.

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