



SPARTAN'S MULTI-FUNCTIONAL HOIST (SMH 60V/ L)



Multi-functional Hoist with Material Cage
Carrying Capacity: 600 Kgs.



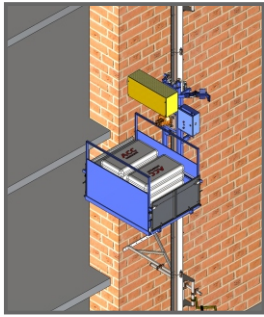
Multi-functional Hoist with
Passenger Cage



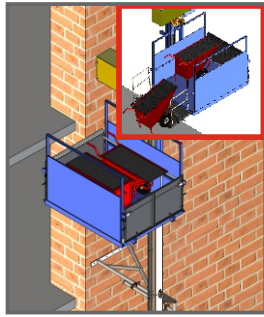
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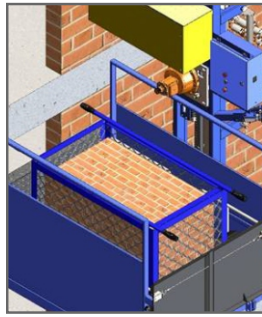
ATTACHMENTS FOR MULTI APPLICATION



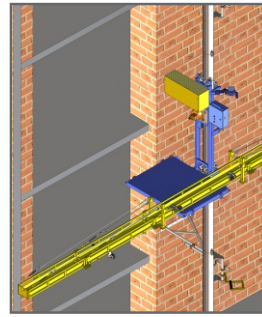
Cage for carrying Material



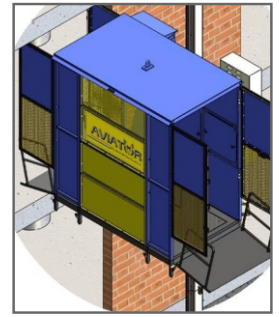
Cage with Wheel Barrow to carry Concrete



Cage with Carrier to carry Bricks

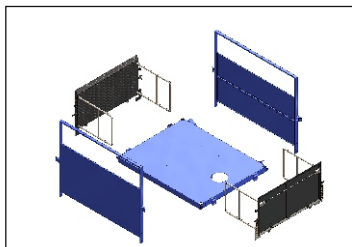


Cage with Rebar Carrying Attachment

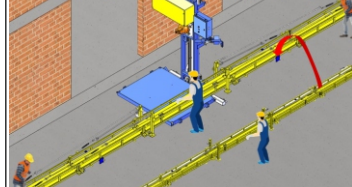


Full Cage to Carrying Passenger

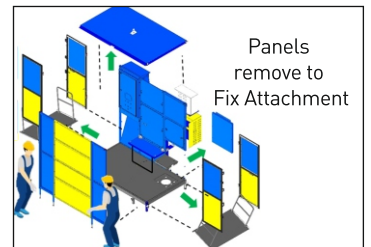
EASE IN ASSEMBLY & DISMANTLING



Rebar Attachment



- Cage constructed from high quality, standard tube, incorporated with GI sheet & Chequered sheets.
- Entry & Exit Landing doors are swing type easy for opening.
- Limit switches are provided at each landing door for proper closing of both the doors.
- Complete powder coated cage it gives superior finish and anti corrosion.
- Easy removable rebar carrying attachment
- Spartan provided easy removal Cage & it can be easily converted to Rebar mode.
- The Cage consist of Panels which are bolted together & can be easily removed.
- After removing the Panels Rebar can be attached at the cut out provided in the Cage Base Platform.
- The removal of Panels takes approximately 2hrs & the addition of Rebar takes approximately 2hrs. So it also helps in time consuming & Cost consuming.



Panels remove to Fix Attachment

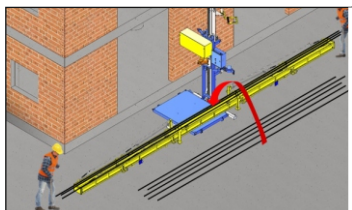


Rebar Attachment

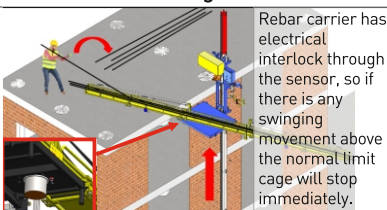
EASE IN ASSEMBLY, LOADING & UNLOADING WITH CAGE

REBAR ATTACHMENT

Loading Rebar



Unloading Rebar

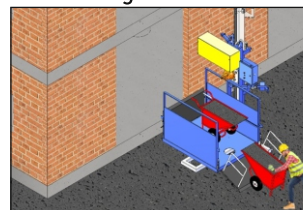


Rebar carrier has electrical interlock through the sensor, so if there is any swinging movement above the normal limit cage will stop immediately.

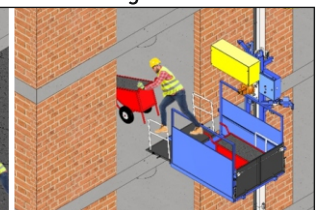
- The Rebar's manually put into the Rebar Carrier frame at the ground level.
- After placing the Rebar move the Cage in the upward direction by the Remote.
- Hoist will be install in location such a way that the rebar can be unloaded on the neighboring building also.
- After the Rebar Frame arrived at the certain floor, the Frame should swing manually towards the Building & manually unloading the Rebar.

SPARTAN MAKE WHEEL BARROW

Loading Wheel Barrow



Unloading Wheel Barrow



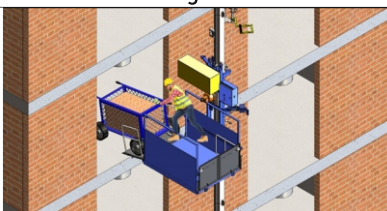
- Spartan make Wheel Barrow's carrying capacity 0.18 cubic mtr.
- Wheel Barrow size: 1.2 L x 0.4 W x 0.7 H (mtr)
- The Concrete carrying Wheel Barrow manually put into the Cage at the ground level.
- After placing the Wheel Barrow move the Cage in the upward direction by the Remote upto the Landing floor.
- After the Cage arrived at the certain floor, the Wheel Barrow drive manually on the floor & manually unload the Concrete, sand etc.

CAGE WITH BRICKS CARRIER

Loading Bricks Carrier



Unloading Bricks Carrier



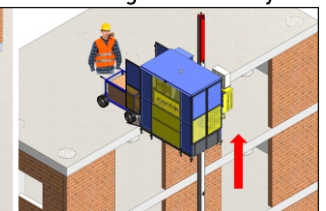
- The Bricks carrying Trolley manually put into the Cage at the ground level.
- After placing the Trolley move the Cage in the upward direction by the Remote upto the Landing floor.
- After the Cage arrived at the certain floor, the Trolley drive manually on the floor & manually unload the Bricks.

PASSENGER CAGE WITH BRICKS CARRIER

Loading Bricks Carrier



Unloading Bricks Carrier



- The Bricks carrying Trolley manually put into the Cage at the ground level.
- After placing the Trolley move the Cage in the upward direction by the Remote upto the Landing floor.
- After the Cage arrived at the certain floor, the Trolley drive manually on the floor & manually unload the Bricks.

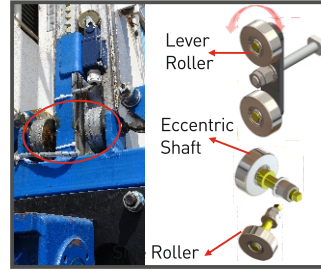
SALIENT FEATURES



Geared Motor: European make inline helical bevel geared type high efficiency geared motor is provided.

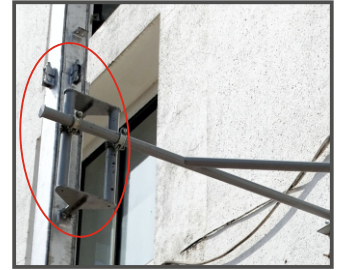


Centrifugal Brake: The safety device is fitted on a separate plate in the carriage. The safety device is actuated by a centrifugal force and stops the platform in case the speed 0.4 mtr/sec times exceed than normal traveling speed.



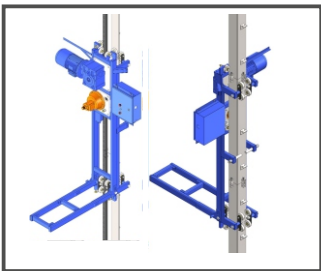
Guide Rollers:

- All Guide rollers are anti corrosion & Hard chrome plated.
- Eccentricity limit marking on eccentric shaft make easy roller adjustment.
- Self align lever roller at top and bottom of carriage.



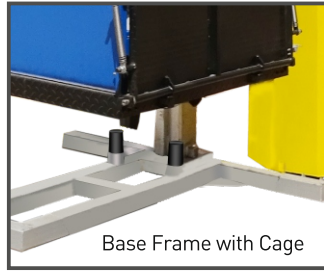
Wall Tie:

- Flexible hinge type wall tie, which is adjustable within specific limits.
- Robust wall tie design gives stability to mast.
- Tie interval 6mtr.
- Epoxy painted surface keep wall tie corrosion free.



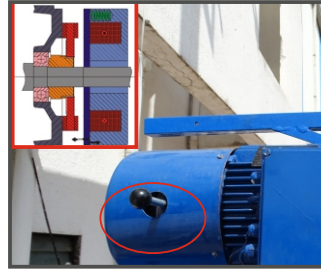
Carriage:

- Carriage constructed from high quality, standard tube.
- Carriage incorporated with drive unit.



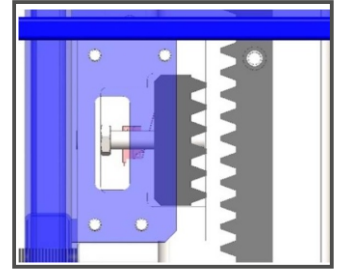
Locate Base Frame:

- Locate the Base Frame at the Ground location with cage.



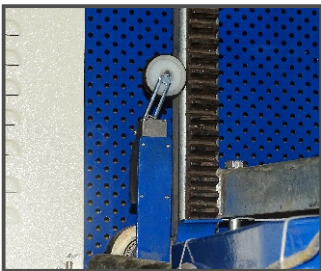
Electromagnetic brake system:

In case of power failure hoist can be lower down manually by releasing the hand lever brake.

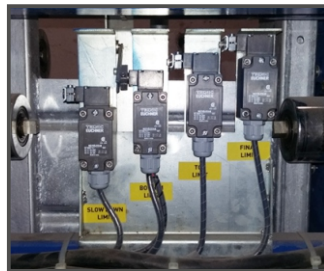


Mechanical Lock :

Mechanical lock is provided for extra safety during maintenance and installation.



Rack searching limit switch: It is provided as an additional safety feature.



Slow down, Top, Bottom & Final Limit Switches: It is provided to prevent over travel of machine and for safe operation.



Entry / Exit Door Limit Switches: These are electric interlock switches, which stop the cage to move up or down until the door is closed.



Fault Message Indicating Display: These display indicates, if there is any switch fault in Control Panel.



Top brand VFD, MCB & Conductor: Delivers breakdown free top performance that exceeds expectations.



Proximity Sensor for Floor Selection: Floor selector is provided with sensor IP65 protection.



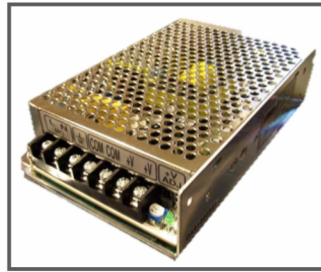
Wireless Remote: It is provided for easy Hoist operation.



Cable Protection Device: It is attached to the cable arm to prevent cable damage.



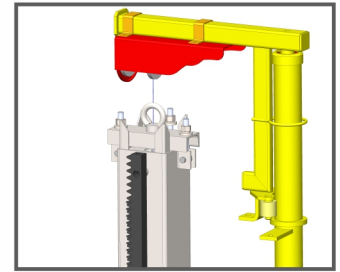
Top Brand Limit Switches:
Teknic euchner, Telemecanique make reliable limit switches are provided along with IP67 protection.



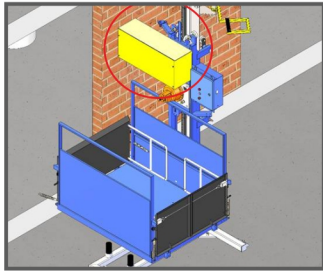
SMPS: It convert from AC to 24 volt DC electric power efficiently. Hence it is safe and increases life of electrical parts in control panel.



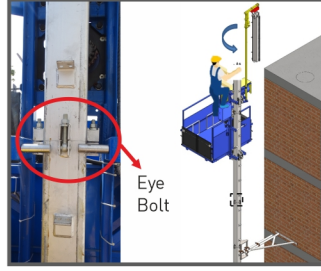
Decent Wire Connections: All wiring connection are well tied through Cable ties and glands.



Electrically operated Mast Erection Jib: Electrically operated mast erection jib makes erection easy and effortless.

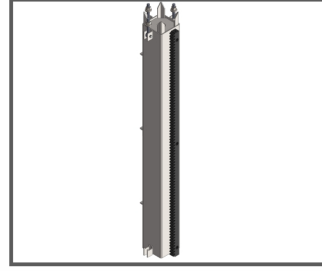


Motor Cover:
Motor cover to prevent motor and safety device from cement, water and other dirt at site.



Quick Mast Installation:

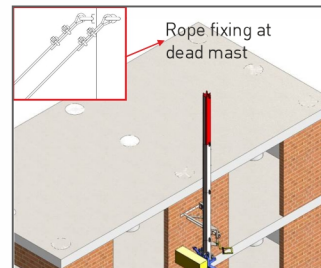
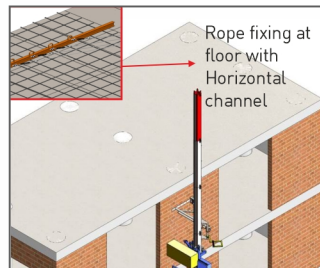
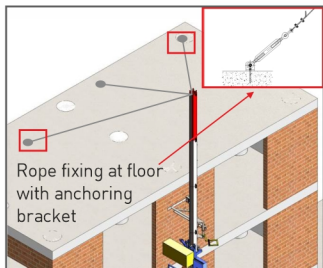
- Simple & quick Mast installation process is done with Electrical motorized winch operated by Remote Control.
- The Mast will be rest on other mast & fitted with the help of Eye bolt.



Mast:

- Mast constructed from high quality, standard tube, incorporated with sheet metal bend angle.
- Mast Fabricated through fixture, hence Uniform mast quality and dimension.
- High-strength sheet metal construction.

- Quick assembly and dismantling through eye bolt joining technology.
- Epoxy Painted mast corrosion free.



Rope Guying arrangement:

- Simple arrangement will be provided for mast erection above the Building Height where the Wall tie arrangement is not possible.
- The Dead Mast is supported with the help of Rope Guying for the Free standing height above the Building Height.

TECHNICAL SPECIFICATIONS

FEATURES	MULTI-FUNCTIONAL HOIST (SMH 60V / 60L)
Description	Spartan Multi-functional Hoist
Drive Mechanism	Rack and Pinion
Capacity	0.6 Ton
Cage Size (L x W x H)	SMH 60V- 1.5 x 1.2 x 1.2 mtr / SMH 60L- 1.5 x 1.2 x 2.2 mtr.
Max Height	80 mtr.
Speed	20 mtr./min.
Motor Power	7.5 kW (50Hz) x 1 No.
Safety Device	SAJ 20-0.73
Wall Tie Interval	6 mtrs.
Mast (mm)	Square tube 150 x 150 x 1508
Foundation Size (L x W x T) (m)	2.0 x 2.0 x 0.2 Thickness



SPARTAN ENGINEERING INDUSTRIES PVT. LTD.

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