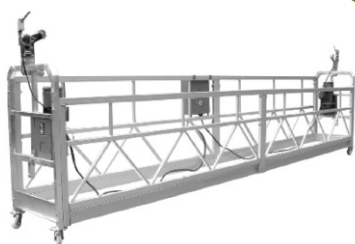
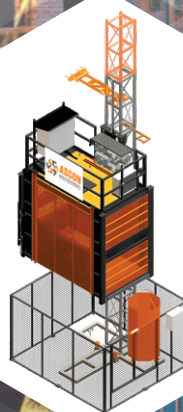
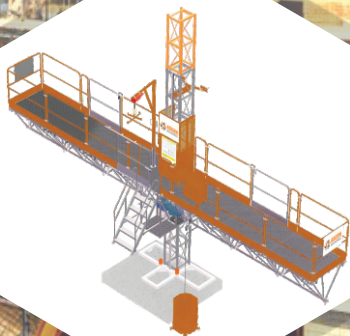




# ASCON

INFRA EQUIPMENTS







## *Welcome to Ascon Infra Equipments*

We are a leading engineering house specializing in the manufacture and supply of high-quality construction machineries and equipments. Our product range includes:

- Bar Cutting Machine
- Bar Bending Machine
- Suspended Rope Platform
- Passenger Material Hoist (Rack & Pinion Type)
- Multi Functional Material Hoist
- TMT Spiral Bending Machine
- TMT Ring Bending Machine

### **Trusted and Reliable Name in the Industry**

Located in Gujarat, India, we are a prominent supplier, manufacturer, and exporter of construction machineries and equipments.

Established in 2014, with a Pan-India Presence Since our inception, we have rapidly expanded our presence across India, with a strong focus on delivering high-quality products and exceptional customer service.

Our dedicated team of professionals works tirelessly in our design, quality control, and production departments to ensure that our products meet the highest standards of excellence.





**ASCON Dynamic Series** Cutting Machines are designed as per European safety standards.

This series is designed with the higher factor of safety to increase the life of machine up to 10 years.

In dynamic series cutting machines, main body and other parts are supplied with Powder Coated finish which increases the shell life and gives the protection against rust.

We use double stage of helical gearbox design, which helps in reducing speed and improving the life of blades vastly.

These machines are provided with wheels for the easy movement at site.

The gears and all moving parts are made with hardened and wear resistance steel.

Minimum vibration and less noise while cutting bars, because of Dynamically balanced flywheel, thereby ensuring the long life of moving parts.

In dynamic series cutting machines, all the four edges of cutting blades can be used.

Each part in this model of cutting machine is designed with the advanced software with a goal to make the machine rugged, stronger & maintenance free.

## BAR CUTTING MACHINE TECHNICAL SPECIFICATIONS

MODEL	Net Weight In Kg	Size In mm	Motor RPM	Motor RPM	Cutting Stroke Per Min	Dol Starter	Oil Capacity In Liters
ACM42	390	L-1070, W-560, H-865	Phase-3, 440V, 5/3.7	2880	90	Siemens	4.25
ACM52	550	L-1135, W-740, H-930	Phase-3, 440V, 5/3.7	2880	60	Siemens	4.75
ACM55	775	L-1225, W-770, H-1025	Phase-3, 440V, 7.5/5.5	2880	60	Siemens	6.75

**Please Note :** The Wheels are not supplied with\* Marked models.

# BAR BENDING MACHINE



**ASCON Dynamic Series** Bending Machines are designed as per European safety standards.

In dynamic series Bending machines, we use customized European planetary gear box, coupled with the motor, which eliminates the use of "V" belts to eliminate the breakdown.

We use advanced CNC Laser cutting, CNC turning and VMC for manufacturing parts, which are in-house Facility.

In dynamic series Bending machines, All the pins, bushes & rollers are electroplated for the protection against rust & better magnificent quality.

Dynamic series machines are supplied with the expensive synthetic oil for Italian gear box which eliminates the frequent change of oil and increases the life of the gear components.

The use of customized European planetary gear box gives the higher torque and increases the productivity.

We manufacture sheet metal body parts for these New evolution series machines on CNC punching and bending.

Dynamic series is specially designed with electrical braking circuit which safely stops the motor, and eliminates the need of Brake motor, thus, reducing the breakdown and maintenance of changing the brakeliners.

In dynamic series, standard Schneider make Electrical contactors and Finder (Italian) make timers are used, which reduce the Frequency of electrical breakdowns.

## BAR BENDING MACHINE TECHNICAL SPECIFICATIONS

MODEL	Net Weight In Kg	Size In mm	Motor RPM	Motor RPM	Bendwheel Output Rpm
ABM42	325	L-1000, W-715, H-1040	Phase-3, 415V, 5/3.7	1440	9
ABM52	390	L-1100, W-815, H-1070	Phase-3, 415V, 5/3.7	1440	9
ABM55	550	L-1210, W-925, H-1200	Phase-3, 415V, 7.5/5.5	1440	5

**Optional :** 8D of Ø42 (Ø320 Bush Size)



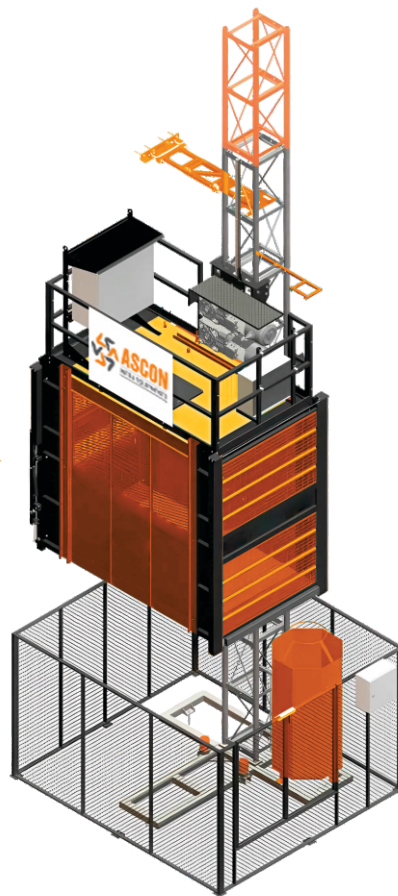
## STANDARD ELECTRICAL SAFETIES

Interlocking devices on cage doors, enclosure doors,
Top / Bottom limits
Over travel final limits for top / bottom ends
Erection platform interlocking device
Cable jamming protection device
Rebar unit position limit
Top, bottom and emergency stops
Rack searching device
Emergency stop (on car, control boxes, Base panels,etc.)
Power supply main switch
Safety device actuation detector

## STANDARD MECHANICAL SAFETIES

2 Motors 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 Lower floor.

**Dynamic**  
High-End Series



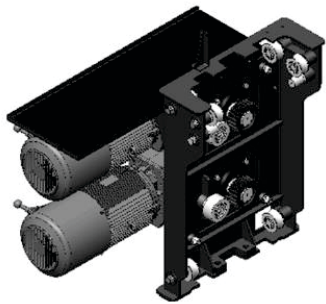
## GENERAL DATA

MODEL	APM100	APM150	APM200
Capacity	1000 KG	1500 KG	2000 KG
Speed	30 Mtr./Min.	30 Mtr./Min.	30 Mtr./Min.
Height	150Mtr	150 Mtr.	150 Mr.
Gear Rack Module	5	5	5
Safety Device	PSD 1000	PSD 3500	PSD 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	3 x 9.5 KW
VFD	15 KW	22 KW	30 KW
Power Supply	400V (±5%) 50 Hz	400V (±5%) 50 Hz	400V (±5%) 50 Hz

# PASSENGER & MATERIAL HOIST (Rack & Pinion)

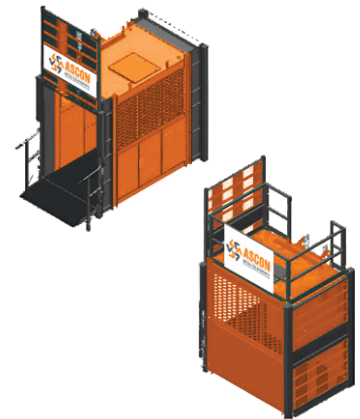


## DRIVE UNIT

The drive unit consists of Two Helical-bevel gearboxes with motors and It is located usually above the hoist cage. The drive unit pinions are engaged with the rack on the mast. The motors are equipped with electromagnetic disc brakes which can be equipped with VFD, that improves the ride quality and leveling precision because of smooth starts and stops. The Powder coated finish increases the shell life of structure and gives the high end protection against the rust.

The cage is welded of quality steel profile 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 can slide vertically and their closing is checked with electrical Safety Switch. There are also entry door electromechanical locks and can only be opened when the cage is at a ground. Guide rollers ensure the accurate motion of the cage along with the mast. The Powder coated finish increases the shell life of the structure and gives the high end protection against the rust.

## CAGE UNIT

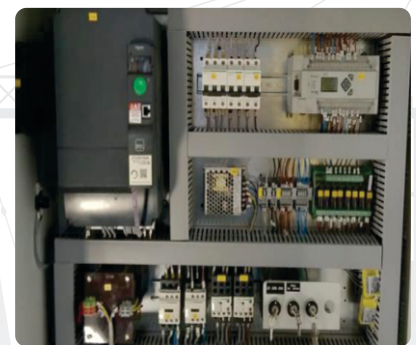


## SAFETY DEVICE

All **ASCON** rack & pinion hoists are supplied with European Design Safety Device compliances with the EN12159 and the 95/16/EC directives 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 is exceeded while coming down. The safety heart of this device is a centrifugal mechanism, Which is individually and accurately set for a particular machine model.

## CONTROL PANELS & LIMIT SWITCHES

The installed electrical components and limit switches ensure a safe and trouble-free operation. **ASCON** supplying Schneider, Finder and equivalent Premium and Reliable brand electrical contactors, relays, MCBs etc. to avoid damage of electrical motor. Thus reducing frequency of electrical breakdowns. The control panels are well arranged and all the components are made to comply with 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 can be operated by simple manual control.
- 2. Automatic:** The hoist can be controlled not only from the cage by the means of pushbuttons or a joystick, but also from the Colour HMI display. We supply Schneider / Mitsubishi make Premium brand VFD, which delivers trouble free performance. Colour HMI, which displays the real time status of machine and indicates the error messages with proper images. Encoder to be provided for accurate floor selection during auto mode, which also shows us the real time floor position of machine on HMI screen. It Provides 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 the requirement.





# PASSENGER & MATERIAL HOIST

(Rack & Pinion)

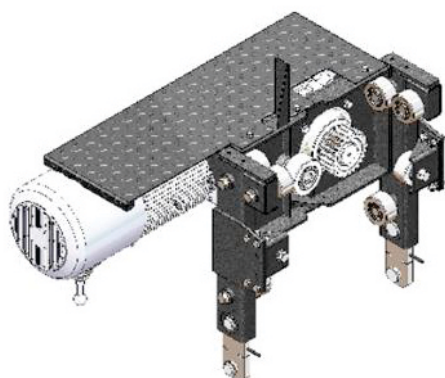
## STANDARD ELECTRICAL SAFETIES

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

## STANDARD MECHANICAL SAFETIES

2 Motors with gearbox and electromechanical brakes
Safety device
Bottom mechanical stops with buffers
Anti slippery floor
Motor protecting cover
Hand release break for Emergency reach to the Nearest Lower floor.

**Dynamic**  
High-End Series



## GENERAL DATA

MODEL	AMT80
Capacity	800 KG
Speed	30 Mtr./Min.
Height	120Mtr
Gear Rack Module	5
Safety Device	PSD 1000
Mast Section	Square 500 x 400mm x 1.5m Mtr Angle L 50x50x6 mm
Wall Tie Interval	3 Mtr.
Cable Guide Interval	6 Mtr.
Rect. Cage. (Inside)	1.8 (L) x 1.0 (W) x 2.0 (H) mtr.
Erection Crane	Yes, Manual
HMI Display	Yes (Colour)
Floor Selection	Yes (Optional)
Load Cell	Yes (Optional)

## ELECTRICAL DATA

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

# PASSENGER & MATERIAL HOIST (Rack & Pinion)

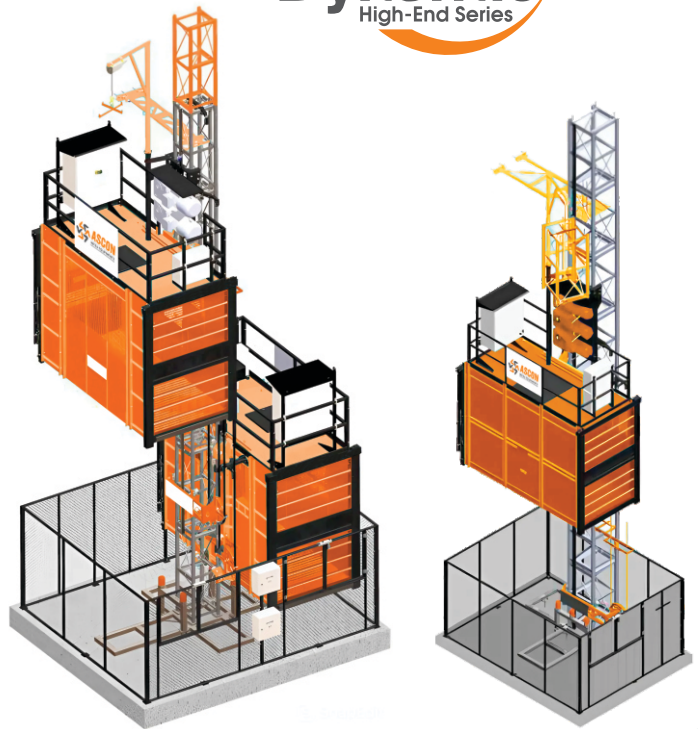
## STANDARD ELECTRICAL SAFETIES

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

## STANDARD MECHANICAL SAFETIES

2 or 3 Motors 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 Lower floor.

**Dynamic**  
High-End Series



## GENERAL DATA

MODEL	AM200HS	AM300HS	APM200
Capacity	2000 KG	3000 KG	3000 KG
Speed	54 Mtr./Min.	54 Mtr./Min.	54 Mtr./Min.
Height	300Mtr	300 Mtr.	300 Mtr.
Gear Rack Module	8	8	8
Safety Device	PSD 3500	PSD 3500	PSD 3500
Mast section	Square 650 x 650mm x 1.5m Round tube Ø76 x 4.5 Thk.	Square 650 x 650mm x 1.5m Round tube Ø76 x 4.5 Thk.	Square 650 x 650mm x 1.5m Round tube Ø76 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)	3.0 (L) x 1.4 (W) x 2.1 (H) mtr.	3.2 (L) x 1.4 (W) x 2.1 (H) mtr.	3.2 (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 19 KW	3 x 19 KW	3 x 19 KW (2 Set)
VFD	45 KW	75 KW	75 KW (2 Set)
Power Supply	400V (±5%) 50 Hz	400V (±5%) 50 Hz	400V (±5%) 50 Hz



## STANDARD MECHANICAL SAFETIES

Motor with gearbox and electromechanical brakes
Safety device
Bottom mechanical stops with buffers
Anti slippery floor
Hand release break for Emergency reach to the nearest lower floor.

## STANDARD ELECTRICAL SAFETIES

Interlocking devices on cage doors
Top / Bottom limits
Over travel final limits for top / bottom ends
Cable jamming protection device
Emergency stops
Rack searching device
Power supply main switch
Safety device actuation detector



**Dynamic**  
High-End Series

## GENERAL DATA

MODEL	AWP100	AWP150
Capacity	1500 KG	2200 KG
Platform Length	4.5 m-7.5 m	4.5 m-10.5 m
Platform Width	1.2 m	1.2 m
Overhang	3.0 m	4.5 m
Speed	7-10 Mtr./Min.	7-10 Mtr./Min.
Height	120 Mtr.	120 Mtr.
Gear Rack Module	5	5
Safety Device	Yes (European Design)	Yes (European Design)
Mast section	Square 500 mm x 400 mm x 1.5 Mtr. Angle L 50x50x6 mm Angle	Square 500 mm x 400 mm x 1.5 Mtr. Angle L 50x50x6 mm Angle
Wall Tie Interval	3 Mtr.	3 Mtr.
Cable Guide Interval	6 Mtr.	6 Mtr.

## ELECTRICAL DATA

Motor Power	1 x 5.5 KW	2 x 4.0 KW
VFD	7.5 KW	11 KW
Power Supply	400V (±5%) 50 Hz	400V (±5%) 50 Hz

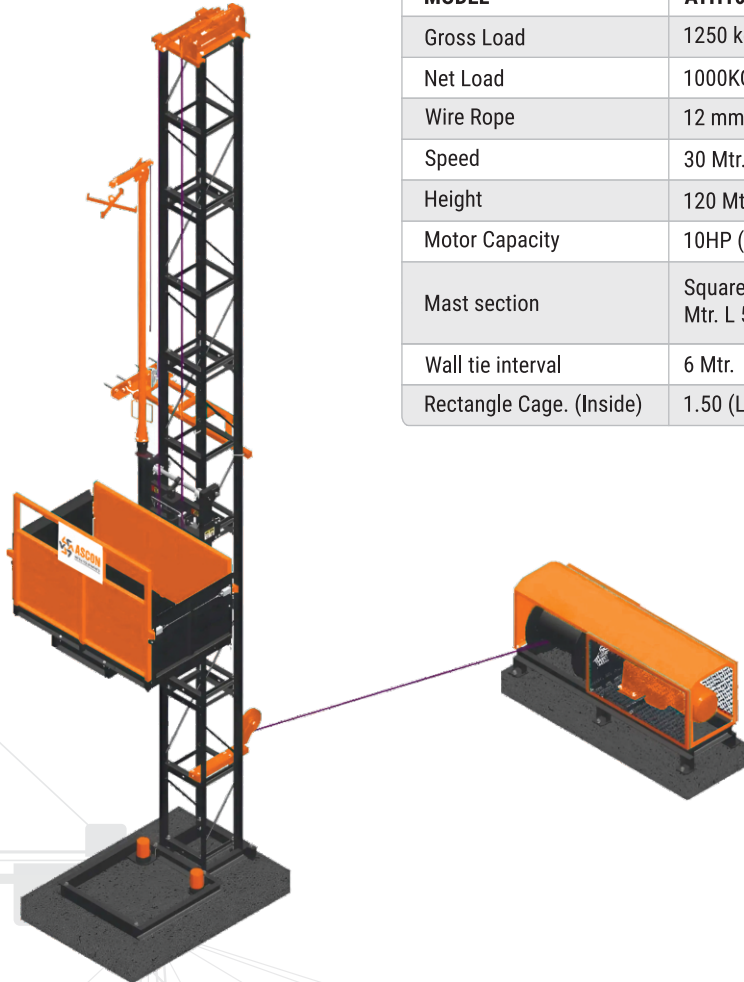
# MULTI-FUNCTIONAL MATERIAL HOIST

(Wire Rope)



## SPECIFICATIONS

MODEL	ATH100	ATH150
Gross Load	1250 kg.	1500 kg.
Net Load	1000KG.	1200KG.
Wire Rope	12 mm (6 X 36)	12 mm (6 X 36)
Speed	30 Mtr./Min.	30 Mtr./Min.
Height	120 Mtr.	120 Mtr.
Motor Capacity	10HP (7.5 KW) Brake Motor	12.5HP (9.3 KW) Brake Motor
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.
Rectangle Cage. (Inside)	1.50 (L) x 0.80 (W) x 0.7 (H) mtr.	1.50 (L) x 0.80 (W) x 0.7 (H) mtr.



## SAFETY FEATURES

Power fail safe brake motor
Top limit
Bottom limit
Safety Brake
Fully Covered Wire Rope Drum
Fully Covered Electrical motor and Gear box.

## OPTIONAL FEATURES

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

## STANDARD MATERIAL CAGE (RECTANGLE)

**ASCON Tower Hoist** is designed to offer the most cost efficient vertical transport solution on site and is delivered with 1000 KG & 1200 KG Net capacity with three phase brake motor.

**ASCON Tower Hoist** unit has MultiFunctionality, and can be used to transport either construction material or TMT bars.

**Its robust and simple design makes it suitable for all vertical access, including direct access to the buildings for the new construction or refurbishment work.**

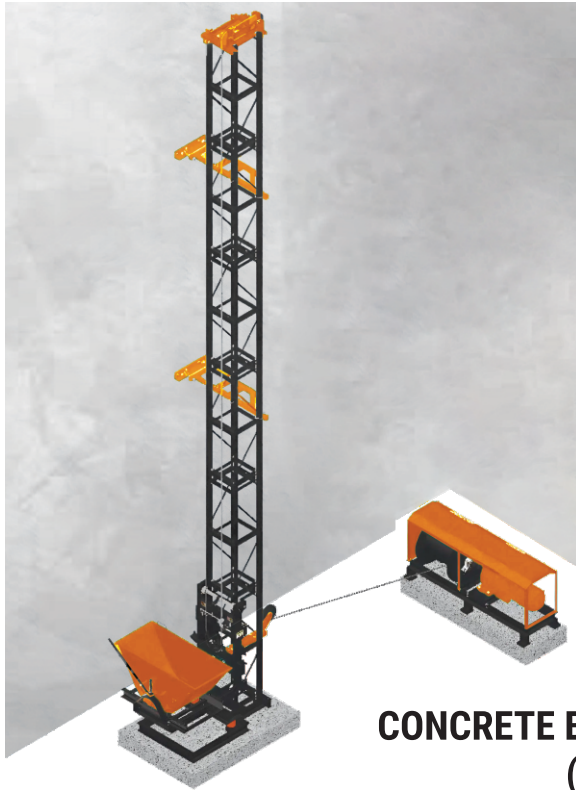
Safety is paramount in all **ASCON** machines. The **ASCON** Tower Hoist conform to the latest safety standards i.e. IS 12466 : 2012 which not only ensures safety of the operation but also lays down the requirements of capacity, construction, performance and testing of the Hoist.

Safety braking of carriage shall be provided to cater the wire rope failure.



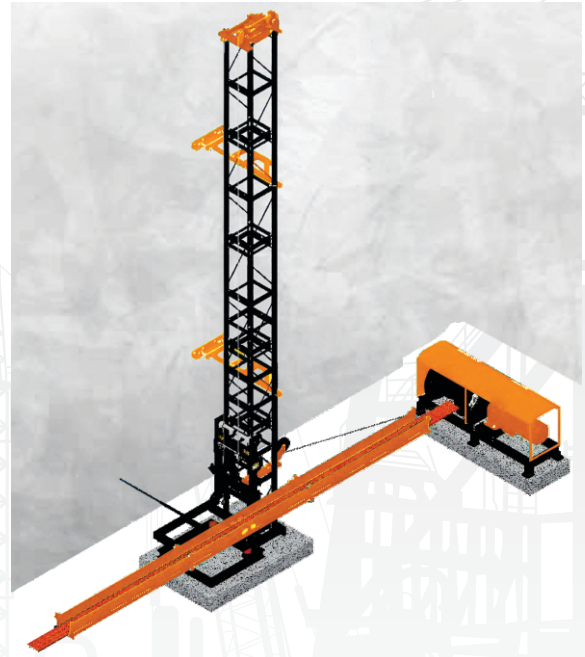
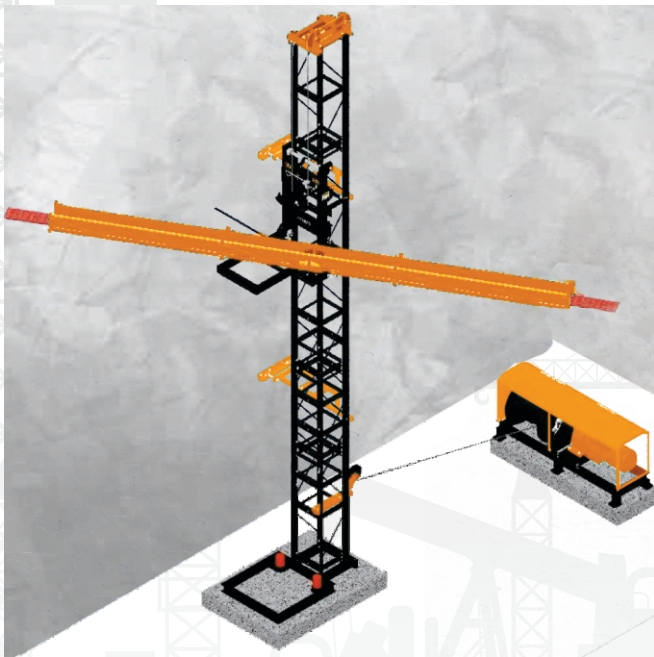
# MULTI-FUNCTIONAL MATERIAL HOIST

(Wire Rope)



**Dynamic**  
High-End Series

**CONCRETE BUCKET ( TILTING TYPE )  
( OPTIONAL )**



**HORIZONTAL REBAR CARRIER  
( OPTIONAL )**

# MULTI-FUNCTIONAL MATERIAL HOIST

(Rack & Pinion)

## GENERAL DATA

MODEL	ARTH100	ARTH150
Gross Load	1000 kg.	1250 kg.
Net Load	750 KG.	1000 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.

## GENERAL 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 FEATURES

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 FEATURES

- 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 actuation detector
- Fully Covered Gear box & Motor.
- Hand release break for Emergency reach to nearest lower floor.

**ASCON** 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

**ASCON** Tower Hoist unit has Multi-Functionality, and can be used to transport the construction material, TMT bars & concrete also.

**Its robust and simple design makes it suitable for all vertical access, including direct access to the buildings for the new construction or refurbishment work.**

Safety is paramount in all **ASCON** machines. The **ASCON** Tower Hoist conforms to the latest safety standards i.e. IS 12466 : 2012 which not only ensures the safety of the operation but also lays down the requirements of capacity, construction, performance and testing of Hoist.

European Centrifugal Safety Device shall be provided to cater the high end safety against the free fall of machine.





# ROPE-SUSPENDED PLATFORM (Rack & Pinion)

## ELECTRICAL CONTROL PANEL

- Schneider, Finder, etc premium and reliable brand switch gears.
- L&T / Schneider / Mitsubishi make VFD.
- Colour HMI display for ease 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 protection.
- Clean and easy panel wiring with proper markings on cables for better traceability to reduce breakdown time.



## CENTRIFUGAL SAFETY DEVICE

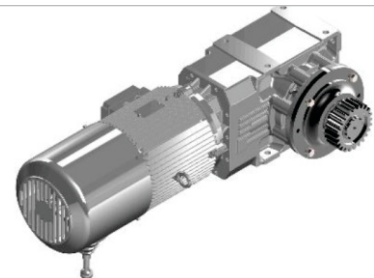
European design safety device is a mechanical unit which is used for the protection against accidental free-fall.

Automatic reset: The procedure to reset the brake consists only in raising the hoist a few centimetres. The brake returns to its operative position again, without any need of the manipulation.



## DRIVE UNIT

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



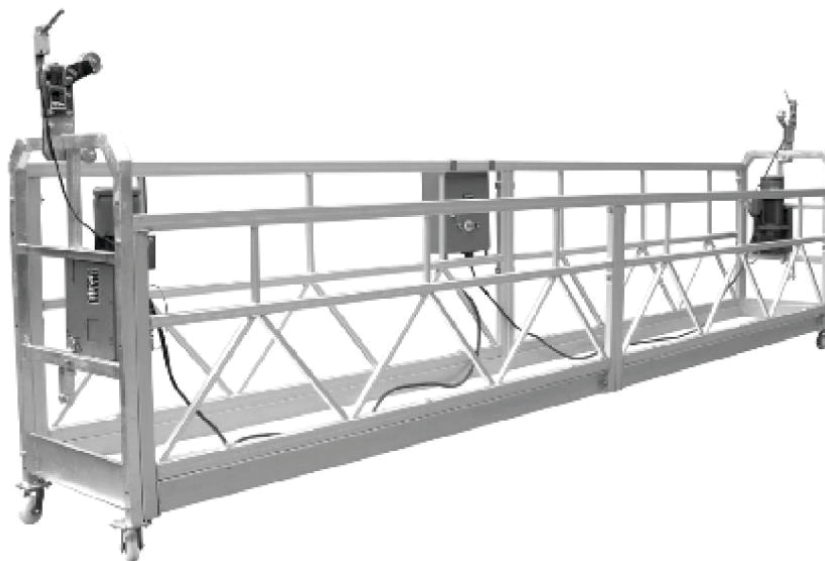
## CONCRETE BUCKET (OPTIONAL)

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

## REBAR CARRIER (OPTIONAL)

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

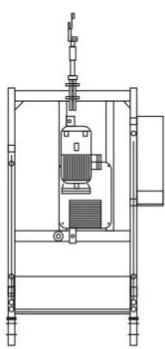
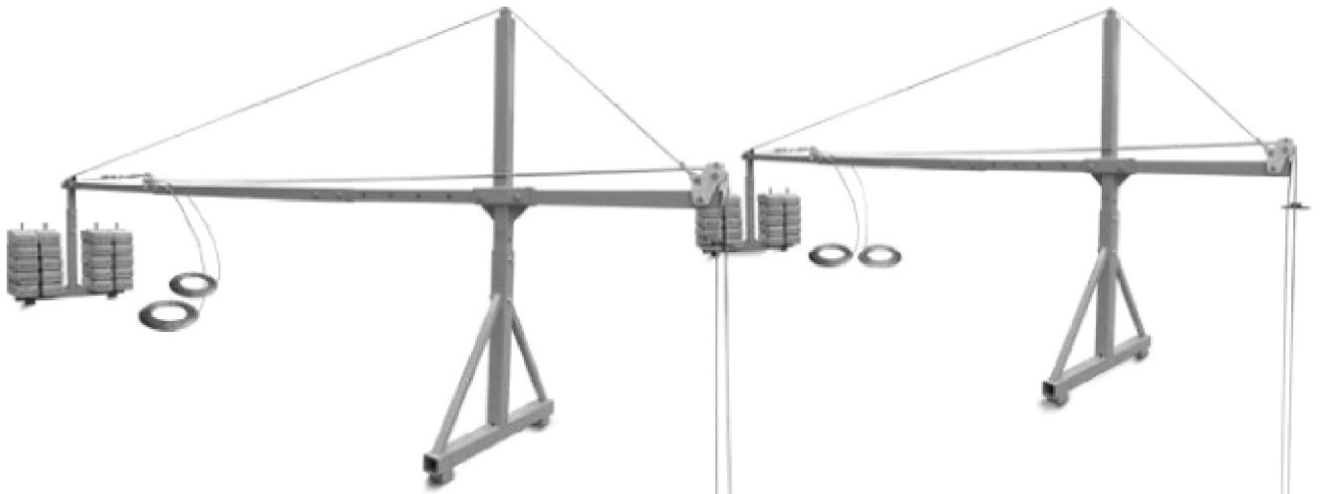
# ROPE-SUSPENDED PLATFORM



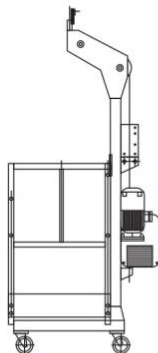
## MAIN TECHNICAL PARAMETERS

Item			MODEL AND PARAMETERS	
			SRP 800	SRP 1000
Rated load			800Kg.	1000Kg.
Ascend speed			9~11 m/min	9~11 m/min
Suspended Platform size (LxW)			(2.5m x 2+1.5+1) x 0.69	(2.5m x 2+1.5+1) x 0.69
Wire Rope			4 x 31SW + FC-9.1	4 x 31SW + FC-10.2
Hoist	Hoist model		LTD80	LTD100
	Rated lifting force		8kN	10kN
	Electric Motor	Type	YEJ2-90L-4D	YEJ2-90L-4D
		Power	1.8Kw	2.0Kw
		Voltage	AC415V	
		Braking Torque	15.2N*m	
Safety lock type			Tilt-proof safety lock	
Suspension mechanism	Height adjustment		1.15m 1.75m	
	Front beam extent		1.1m~1.7m (should reduce the load on the suspended platform when extent is 1.5m or more	
Machine Weight	Suspended platform (including hoist, safety lock, electric control box.)		545 Kg.	610 Kg.
	Suspension mechanism		2 x 170 Kg.	
	Balance weight		1000 Kg.	1200 Kg.
	Whole machine weight (no-including wire rope)		1885 Kg.	2150 Kg.

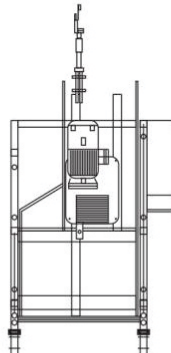




End stirrup



L stirrup



Frame stirrup



## SRP TEMPORARILY SUSPENDED PLATFORM

It takes men and materials up to the ideal working height to get the job done (Painting, welding, chimneys maintenance, bridge construction etc.) correctly and efficiently done.

- ✓ Time saving and cost saving alternative to tubular scaffolding
- ✓ Unlimited working height
- ✓ Quick and easy to assemble and install
- ✓ Light weight and easy to transport

### It Consists of:

- ✓ Steel platform
- ✓ Motorized traction hoists and controls
- ✓ Steel wire ropes attached to a roof suspension system



**Factory : Plot No. F-21, Kamla Amrut Industrial Park, Ta: Savli, At: Alindra,  
Vadodara-391775, Gujarat, India.**

**Call: Spares & Service - +91 9173068522 | New Enquiry - +91 9998015689**

**Email: [info@asconinfra.in](mailto:info@asconinfra.in) | [sales@asconinfra.in](mailto:sales@asconinfra.in)**

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