

Ready to use steel  
yard and Rebar  
Processing  
Machines



# Vertical Logistics



Passenger and Material Hoists  
Inclined Ladder Hoists  
Tower Crane Hoists  
Rope Suspended Platforms  
Suspended Platforms and BMUs  
Debris Chutes

---



Rack & Pinion Hoists  
Mast Climbing Work Platforms  
Rope Suspended Platforms

---



Total Safety Solutions

# Rebar Processing Machines



Cutting & Bending Machines

---



Machine Model Line - Up

---



Automatic Machines for Processing Steel Rebars and Coils

---



One Stop Solution for Rebar Processing



## Twin Cabin Hoist

- Speeds up construction
- Capacity from 25 person / 2,000 kg to 30 persons / 3,200 kg
- Lifting Height: 400 m
- Speed: 0-90 m/min

## Single Cabin Hoist



## Material Hoist



## Hoists for Curved & Special Applications

Ideal for power stations

## Inclined Ladder Hoists



## Inclined Hoist for transporting material

Fast, safe and economical solution for moving building material up to 200 kg up or down on roofs and into buildings. Accessories available for wide range of applications

## Rope Hoists



Light weight swivel arm hoist for high-level transport on building structures up to 50 m. Can be attached to scaffolds, windows between floors, or on the roof.



## The economical alternative to scaffolding

Geda Rope Suspended Work Platforms are ideal for both, renovation and cleaning. Special roof mounted units provide safe and fast access to any facade of the building.



## Customised for special applications

Our design engineers, backed by several years of worldwide experience and competence, can tailor-make suspended work platforms to your specific requirements.

## Debris Chutes Building Maintenance Units

### Height and design no bar

Our Building Maintenance Units offer innovative solutions for access to any kind of facade, irrespective of building height and design for cleaning and maintenance.



### Dust-free disposal of debris

Debris chutes are used for channelising debris from various levels of the structure into collection bins on the ground. Special collars make the process dust-free



## Europa offers Rack & Pinion Hoists

Europa Hoists are available with Galvanized Mast Section 650x650 mm or 450x450 mm or Flat Mast with Single & Twin Cage, capacity ranging from 1000 kg – 3200 Kg as standard to reach height upto 450 meter. We can also offer customized solutions for temporary construction and permanent industrial application as per client's requirement.

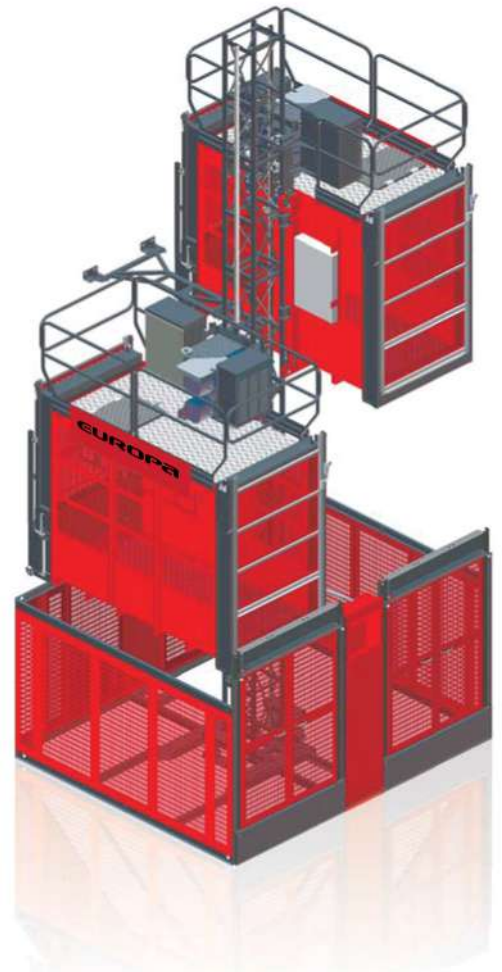
Standard cage dimension is 3 x 1.4 x 2.2 meter for 450 mast hoist and 3.2 x 1.5 x 2.2 meter for 650 mast hoist with speed varying from 40 meter / min – 120 meter / min.

The wide range of Hoists from Europa can cater to any project cost effectively without compromising on safety aspects considering the latest technical features are at par with any International brand and are now increasingly used in India by leading companies for construction & restoration projects for high rise buildings, bridges, chimneys and so on. In addition to the General Building Hoists, Europa offers a range of specialized Hoists for Curves, Slopes, Wells, Tunnels, Lift Shaft, Large Tonnage, Small Size etc.

Europa Hoists are quality guarantee based on ISO 9001:2008 and is backed by prompt and efficient after sales service from Ispat Infrastructure India Limited to ensure smooth performance of the equipment, having more than 25 years of experience dealing in Rack & Pinion Hoist and Platforms having executed more than 2000 direct projects.

## Features

- Features Modular design, easy to make different combinations according to requirement.
- Adopting high quality steel for higher strength and lighter weight.
- Main components are hot dip galvanized to guarantee longer lifetime.
- With frequency control, starting and stopping is very smooth, low starting current, small wear.
- Using high efficiency helical gear box, lower power consumption and operation cost.
- With many different models of cage door available.
- The hoist are offered with various unique features like: Fault finder, digital load display, PLC floor selection system, all in one compact VFD, Helical drive unit, Emergency light, bus bar and etc. as standard package along with the hoist.

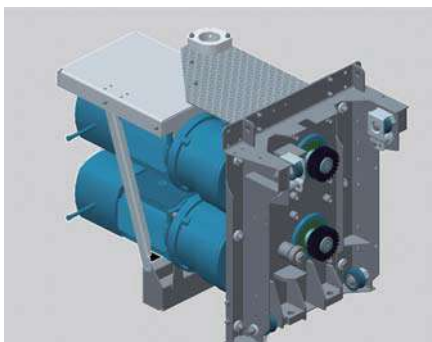


## Technical Data Sheet

Model	Payload kg	Speed m/min	Moter power kw	Inverter power kw
SC120 SC120 / 120	1200	0 - 40	2 x 9.5	22
		0 - 46	2 x 13	30
		0 - 60	2 x 16	37
SC140 SC140 / 140	1400	0 - 40	2 x 13	30
		0 - 46	2 x 16	37
		0 - 60	2 x 16	37
SC200 SC200 / 200	2000	0 - 40	2 x 13	30
		0 - 46	2 x 20	45
		0 - 60	2 x 20	45

### Remark:

Various options for cabin size, capacity, doors, speed, travel height, mast size, type (single/ twin), can be provided. Other than our standard models we can custom design the hoist specifically as per client's requirement.



**Drive Unit**



**Safety Device**

### Various Mast Section Options



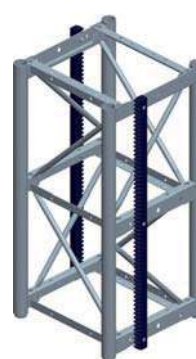
**450x450x1508**

**YSC450 mast section**  
Rack modulus m=5



**650x650x1508**

**YSC650A mast section**  
Rack modulus m=5



**650x650x1508**

**YSC650B mast section**  
Rack modulus m=8



**650x200x1508**

**YSC650A mast section**  
Rack modulus m=5



## Technical Data For Europa Mast Climbing Work Platforms (MCWP)

	Single MCWP	Twin MCWP
Mast Size	Square 450 X 450 mm	
Lifting Speed	7 mtr/min or more	
Max. Lifting Height	200mtr.	
Maximum Free Standing Height	10 Mtrs	
Distance between Anchors	6 Mtrs	
Platform Width	1.5 Mtrs (Extendable upto 900mm)	
Load Capacity	Upto 2300 Kgs	Upto 3500 Kgs
Platform Length	2.7-10.1 Mtrs	8.1-23.1 Mtrs
Lifting Motor Power	2 x 2.2 kW	4 x 2.2 kW
Power Consumption (S3)	2 x 2.9 kW	4 x 2.9 kW

Options in mast size, speed, capacity, travel height etc. can be provided as per client's requirement.



## Europa Rope Suspended Platforms (RSP) Highlights/Features

- **Customized Solution**

Europa RSP can be offered with customized solution as per project requirement or design as per the building profile.

- **Material Type**

Europa RSP are offered with

- Aluminum Alloy
- MS Steel Hot Dip Galvanized

- **Counter Weight Options**

Europa RSP are offered with following counter weight options:

- Concrete Counter Weight
- Inner Concrete Outer Steel Counter Weight
- Cast Iron Counter Weight

- **Roof Support Mechanism**

Europa RSP are offered with following counter weight options:

- Standard Roof Beam Assembly
- Davit Arm Support
- Parapet Clamp Support
- Customized Solution

- **Capacity**

Europa RSP can be offered in various capacity options from 200 Kgs to 1000 Kgs.

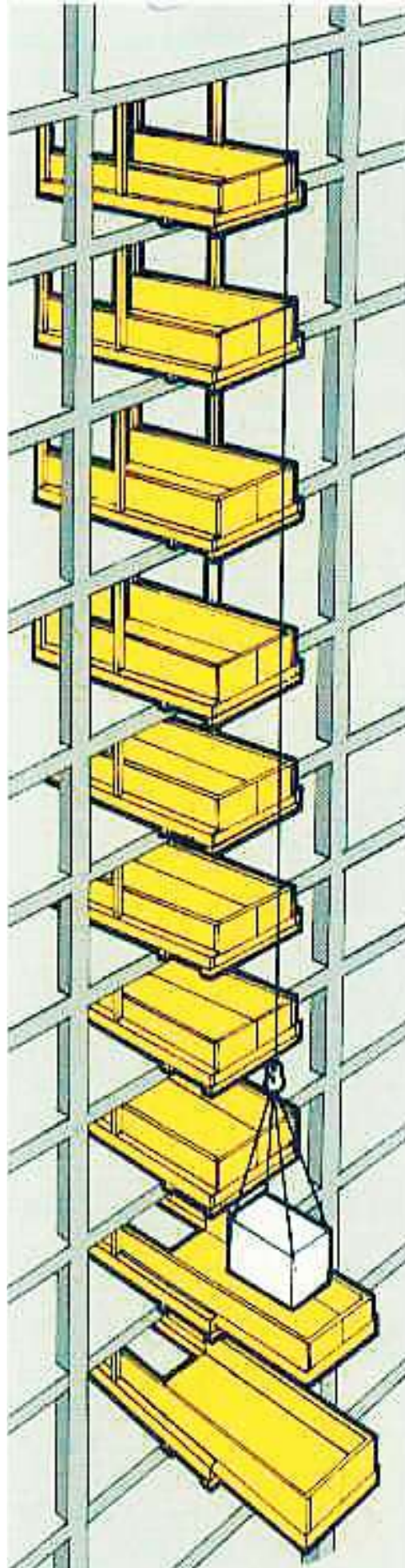
- **Additional Advantages**

Europa RSP are supplied with following features are standard supply:

- Roof beam assembly with wheels and jack for better mobility and easy reinstallation.
- Roof Beam assembly Front Overhang is up to 1.7m.

**Many more additional features can be provided based on client's requirement.**





## Flexideck Cantilever Loading Platform

Loading platforms are used in multi storey structures to lift with crane heavy building material or scaffolding material into the structure. They are steel structures with designated load capacities with quick and easy installation and relocation ability.

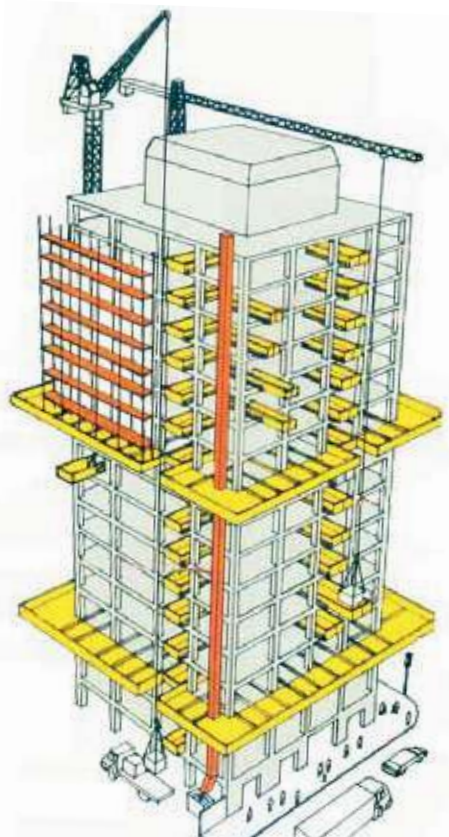
### TSS Loading Platform Features

- Tested independently to 2 x SWL
- Safe and easy installation with pre-designated lifting lugs tested to 2.5 x SW with Telescopic Props tested to 4 x SWL and hinged end panel doors
- 6mm chequered plate with pedal hinge operated ramp
- One person can retract or extend the platform
- Stackable units for multiple unit transportation and storage



### Benefits

- Safe and efficient loading and off-loading of material on site reducing crane time
- Installed vertically inline to increase safety and productivity
- No obstruction to crane rope and load external PM HOIST is free for faster movement for men and material





Assembly, Training & Maintenance Service



Material loading



Independently tested to twice the Safe Working Load



## Semi Automatic Shear Bench

- SCMB 52 is used to shear rebar from 8mm to 40mm diameter.
- Switching between different diameters. of rebar is fast and easy due to use of motorized transmission.
- Workmen effort to extract bars from storage is reduced by 90%.
- Foot overboard with side railings provide added safety to the operator
- Productivity is high ease in handling rebar.



**SCMB 52**



### Characteristics:

Length: About 12 m (2 pieces)  
 Width: About 1 m (2 pieces)  
 Height roller level: 0.85 m  
 Total weight: 1,600 kg

Total weight with shears C55: 2,300 kg  
 Translation speed: 1.2 m  
 Drawing speed: 1.4 m  
 Power consumed by shear: 5 KW

STALLION electric shears are designed to rapidly cut round bars. The internal mechanical parts are designed for durability, and are made of heat treated, high quality steel. Internal lubrication is in continuous oil bath. The machine frame is made of modern design, and specialized gear reduction produces maximum cutting power.

Each equipment comes with high quality safety devices and electrical components.



**Manual bench for cutter, bender and stirrup**



**Extra accessory oil pump**



**Main cutter switch**

MODEL	R.P.M.	MOTOR KW-HP	65 kg/mm <sup>2</sup>			85 kg/mm <sup>2</sup>			DIMENSION cm	WEIGHT kg	OIL kg
			1Ø	2Ø	3Ø	1Ø	2Ø	3Ø			
SC36	90	2,2 - 3	30	20	16	26	18	14	105 x 61 H82	352	8
SC42	90	3 - 4	34	26	20	30	20	16	95 x 75 H102	545	12
SC52	40	4 - 5,5	44	30	24	36	26	22	95 x 75 H102	674	14
SC55	40	5,5 - 7,5	46	32	26	40	30	22	95 x 75 H106	792	14
SC70	35	9,2 - 12,5	62	44	34	50	38	28	160 X 115 H90	1200	25



STALLION benders are designed for high productivity and long life. It is equipped with planetary gearbox coupled directly with motor decreases the maintenance, wear & tear and increase the life of the gearbox. This gearbox provide the best possible accuracy in its class, to make machine very portable, lightweight and with highest torque with maintenance free electrical Breaking system.

The machine comes with a full range of pins and bushes with optional electrical panel programmable for carrying out five bends simultaneously to ensure safety and speed.

### Standard equipment and accessories



MODEL	R.P.M.	MOTOR KW-HP	65 kg/mm <sup>2</sup>			85 kg/mm <sup>2</sup>			DIMENSION cm	WEIGHT kg	OIL kg
			1Ø	2Ø	3Ø	1Ø	2Ø	3Ø			
SB36	12	2,3 - 3	32	24	18	30	22	18	75 x 62 H85	352	8
SB42	9	3 - 4	36	28	22	34	26	22	95 x 75 H102	450	8
SB52	8	4 - 5,5	44	34	26	38	32	24	95 x 75 H102	500	8
SB55	8	5 - 7,5	46	36	28	42	34	26	95 x 75 H106	750	14
SB70	5	7,5 - 10	70	42	36	60	40	34	160 X 115 H90	1200	25



Machine is designed for enhanced production of stirrups. CE switchboard with device for anti-repetition of the cycle. Choice of 1-phase or 3-phase

Standard equipment:

2 hardened bushes, 4 hardened pins, 1 hardened checking block, 1 remote control pedal, 1 stirrup linear measurer

Model	rpm (50Hz)	(50Hz) kW/HP	(60Hz) kW/HP	Cut & Bend						Kg	grease Kg	cm
				65KG/mm <sup>2</sup>			85KG/mm <sup>2</sup>					
TP 38/45	6	4/5,5	4,8/6,5	C 30	24	18	28	20	14	650	8	104x116x89
				B 36	28	22	34	26	22			



CAL 34

STALLION arch benders can produce rings and spirals with steel rods from 6mm diameter to 34mm diameter, with adjustable radius from a minimum of 15cm and unlimited maximum.

The rollers are made of heat-treated alloy steel.

Can work either in vertical or horizontal position.

Two speeds available: 8 and 16 rpm

Power HP 3/5 Kw 2, 6/3, 2

Weight: 350 kg

Dimensions: 950mm x 800mm x 960mm (h)

# Stirrup Benders



## TKD Stirrup machines

TKD coils to stirrup machine are most cost effective automatic stirrup machines in the world. With a compact size and easy installation these suit most small and medium scale construction projects. The machine is par excellence with world renowned brands with a limit in production to be cost effective.

### Features:

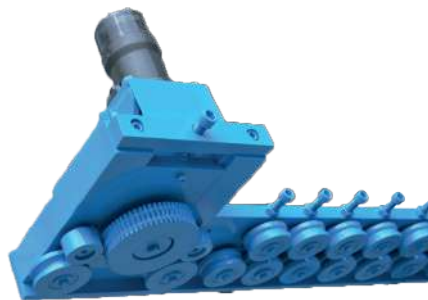
- Machines are designed for 6mm to 12mm diameter rebar stirrup production
- Compact design make is easy to install at project site.
- Hydraulically power delivers high power and performance
- High quality design and built to withstand moisture dust etc... at construction sites.
- Easy to use control panel with pre-fed shapes
- One-operator-working minimizes manpower required at site
- Maintenance is easy and less frequent.



Hydraulic feeding unit



Compact control console



Hydraulic prefeeder



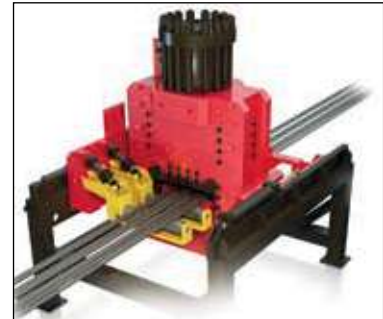
Hydraulic shear bender

Stirrup Bender	TKD-6-8-H	TKD-6-10	TKD-6-12
<b>Material to be processed</b>	6, 8 mm	6, 8, 10 mm	6, 8, 10, 12mm
<b>Power source</b>	AC220V/50Hz./Single-phase	AC380V/50Hz./3-phase	AC380V/50Hz./3-phase
<b>Motor capacity</b>	1.5kW	4kW	5.5kW
<b>Hydraulic pump</b>	70kg/cm2 - 20L/min.	100kg/cm2 - 20L /min.	140kg/cm2 - 38L/min.
<b>Oil tank</b>	100 ℓ	120 ℓ	160 ℓ
<b>Hydraulic motor</b>	160cc	160cc	250cc
<b>Touch screen</b>	7inches	7inches	7inches
<b>Bending angle</b>	up to 135°	up to 135°	up to 135°
<b>Min. square size</b>	90 x 90mm	100 x 100mm	100x100mm
<b>Max. square size</b>	500 x 500mm	830 x 830mm	830x830mm
<b>Cut to length</b>	0.2 to 6M	0.2 to 10M	0.2 to 10M
<b>Machine size</b>	2,100*470*1,550mm	3,200*700*1,550mm	3,200*700*1,550mm
<b>Machine weight</b>	550kg	900kg	1,100kg
<b>Production for reference</b>	0.8-1.0ton/8hours	0.8-1.2ton/8hours	1.0-1.4ton/8hours



## LTM 500-300-60 Heavy duty cutters

The LTM Series is equipped with high capacity hydraulic guillotine shears. It is designed for heavy duty, mass production work of automatic feeding and cutting of for steel / TMT bars to the required length with high precision. Its modular design enhances its installation flexibility. The control panel allows the machine operations to be programmed right from feeding the bars to selection of cutting cycle of up to 6 different sizes of each bar, to selection of conveyors for collection, tagging and automatic tying (optional).



## Flexiplus

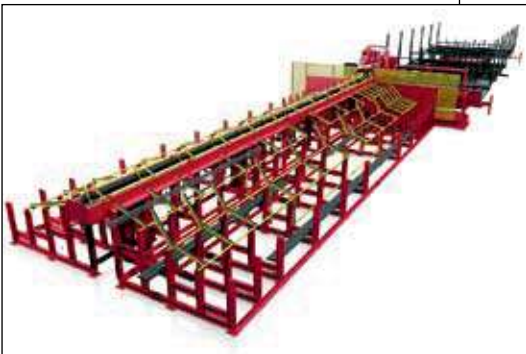
### *Cutting and bending machine*

This is a very versatile machine which can be used for rebar Cutting or as a complete cut and bend station. Its automatic operations help reduce material transitions and manpower, and increase productivity. Intelligent programming helps manage and optimise the production for highest efficiency.



## Shaping Center CS 440

Automatic Shaping Centers CS in different versions bend the bars on both ends either clockwise and counterclockwise. Perfectly Integrated with the layout of the shear lines. (OPTIONAL)



## Syntax Line 25-28

### Cutting and shaping machine

It is a complete and fully automated 'load, cut and bend' station for processing of stock rebar without requiring any manual handling. Versatile equipment functions and flexibility of programming the production cycle results in high productivity, excellent precision and outstanding quality for the finished product.



## Mini Syntax From coil to stirrup

This is an electronically controlled automatic plant for production of small and large sized stirrups, straightened cut-to-length bars, and bars shaped at one or both ends.



## Focus 12 Stirrup bending machine

This is the ideal automatic coil-to-stirrup bender with a patented anti-twist and straightening system for a perfect finish. It can be used for making small or large stirrups, straightened or bent bars, as well as circles and spirals, thanks to a complete array of accessories.

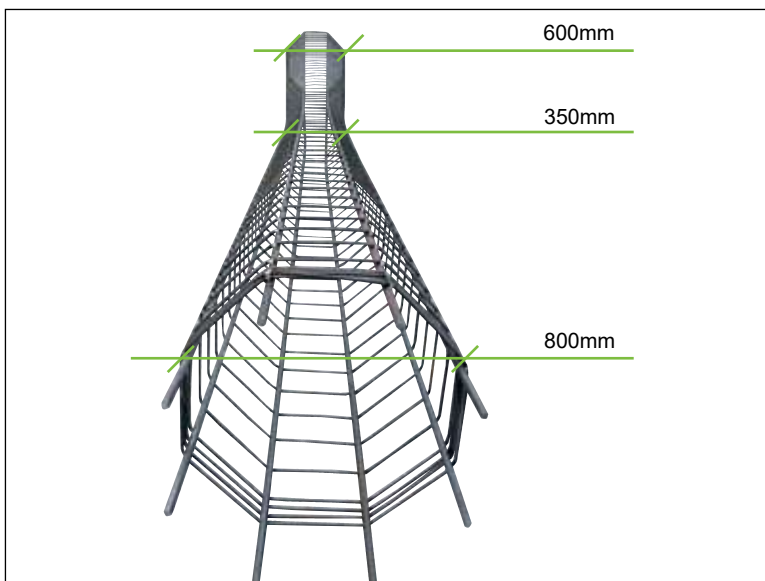


# Cage Makers

## Gam HS and Gam HS Conic Cylindrical or polygonal cage making machine



Cage making machines in the GAM HS Series are designed for automatic production of pile and square cages of required shapes and sizes. It is produced by winding a continuous offcoil spiral around the longitudinal rebars by means of a travelling welding robot station. The plant offers infinite design possibilities. Short set-up time and high productivity with just one operator reduces the cost drastically. The quality of cages produced is unparalleled, and offers the engineers infinite possibilities to fine tune the design to individual requirement.



The Gam HS Conic cage assembling machines are particularly designed for production of conic cages, as well as cylindrical and polygonal of various shapes and sizes.

# Mesh Welders

## **MRSA • MRSA M-S • MRSA SX**

### **Mesh welding plants from pre-cut lengths**

The MRSA Series is designed to meet a wide range of production requirements with fixed or variable pitch mesh and varying wire diameters. It is suitable for production of electro-welded mesh starting from cold drawn or hot-rolled straight lengths.

Various versions in the series are available to meet the requirements of individual applications.



## YARD MODULES

### Stirrup Yard

**Yard Capacity: 150 MT to 350 MT tons per month**



#### Stirrup bending machine

This is the ideal automatic coil-to-stirrup bender for a perfect finish. It can be used for making small or large stirrups, straightened or bent bars, as well as circles and spirals.



**Manual bench for cutter, bender and stirrup**

- Stirrup yards are design to cater 100-200MT of steel per month.
- With automatic stirrup machine is capable to make a wide variety of BBS shapes of 6mm to 12mm diameter steel.
- Utilized less processing space at site and requires one operator only
- Consistent quality and accuracy achieved through precise CNC controlled cutting and bending setup.
- Machines are durable and are easy to maintain.
- The yard is highly effective at residential sites with MIVAN shuttering based construction technology.

### Mini Cutting & Bending Yard

**Yard Capacity: 750 MT - 1000 MT per month**



**Stirrup Machine**



**Vertical Double bender**

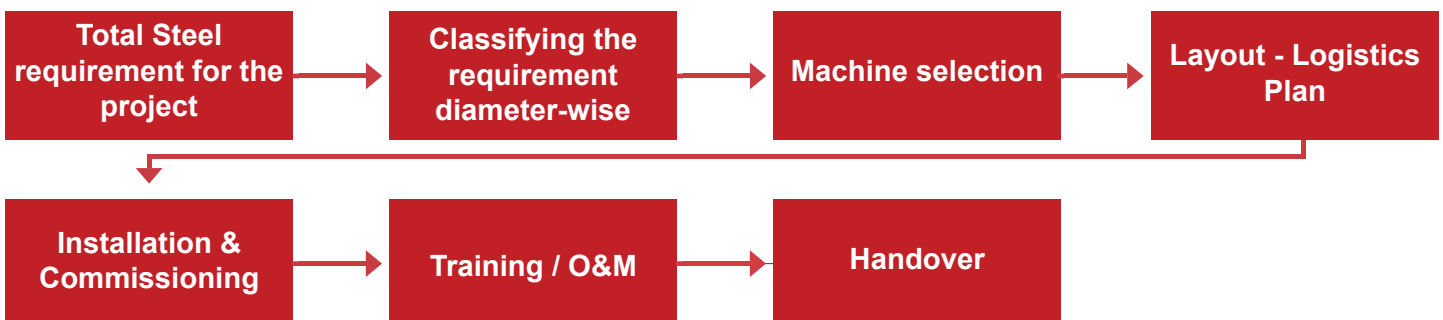


**Integrated Shearline**

Mini yard are configurable yards, primarily with Stirrup machine, an Integrated shearline + vertical bender. These are ideal for medium size projects.

- Mini yard are configurable yards ideal for Construction site with a C&B demand of 750MT to 1000MT per month.
- Yard is designed with primarily with Stirrup machine, an Integrated shearline machine and vertical double bender machine.
- Rebar from 6mm to 40mm with variety of shapes and size can be processed
- Mini yard can be setup on-site and required a shed space of 50m x 20m.
- Layout is designed to ensure smooth material movement within the yard.
- Automation ensures optimized number of manpower.equirement

### IMPLEMENTATION FLOWCHART



## Rebar Yard

**Yard Capacity: 1000 + MT per month**

### Cutting and bending machine

This is a very versatile machine which can be used for rebar cutting or as a complete cut and bend station. Its automatic operations help reduce material transitions and manpower, and increase productivity. Intelligent programming helps manage and optimise the production for highest efficiency.



**Stirrup Machine**

### From coil to stirrup

This is an electronically controlled automatic plant for production of small and large sized stirrups, straightened cut-to-length bars, and bars shaped at one or both ends.



**Integrated Shearline Machine**



**Horizontal double bender machine**

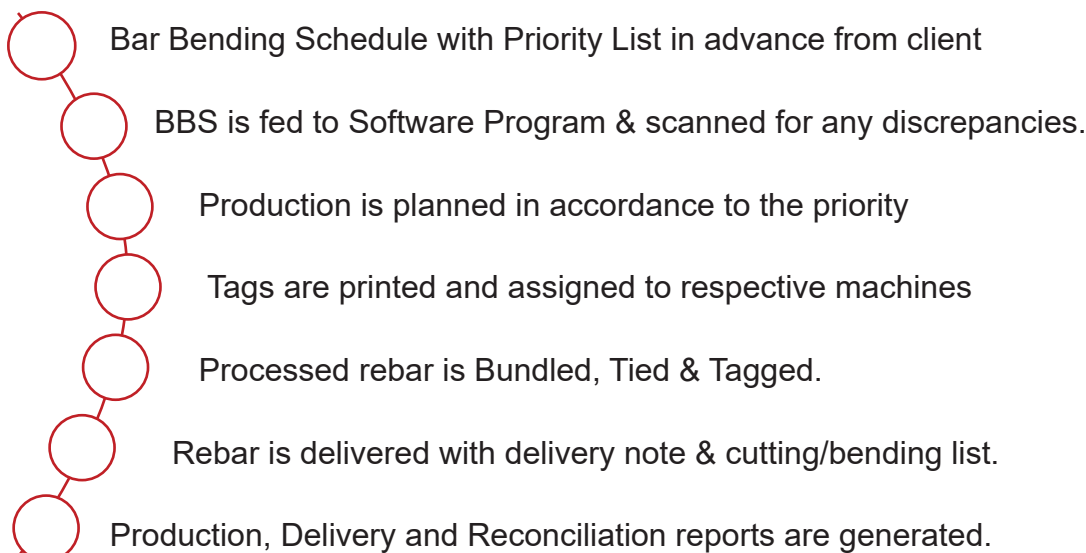


**DBL - Bangalore**

### Centralized yards

- Centralized yards are configurable yards with production capacity higher than 1000MT per month.
- Depending on the project type, Stirrup machines along with an Integrated shearline + horizontal bender is the basic machinery mix.
- Shed area required to setup the facility is around 80m x 20m area.
- Layout is designed to ensure smooth material movement within the yard.
- 3 no.s Gantry / EOT cranes are used for Steel handling and swift delivery.
- These are ideal for large sized projects or a central facility catering to multiple construction sites.

## WORK FLOW



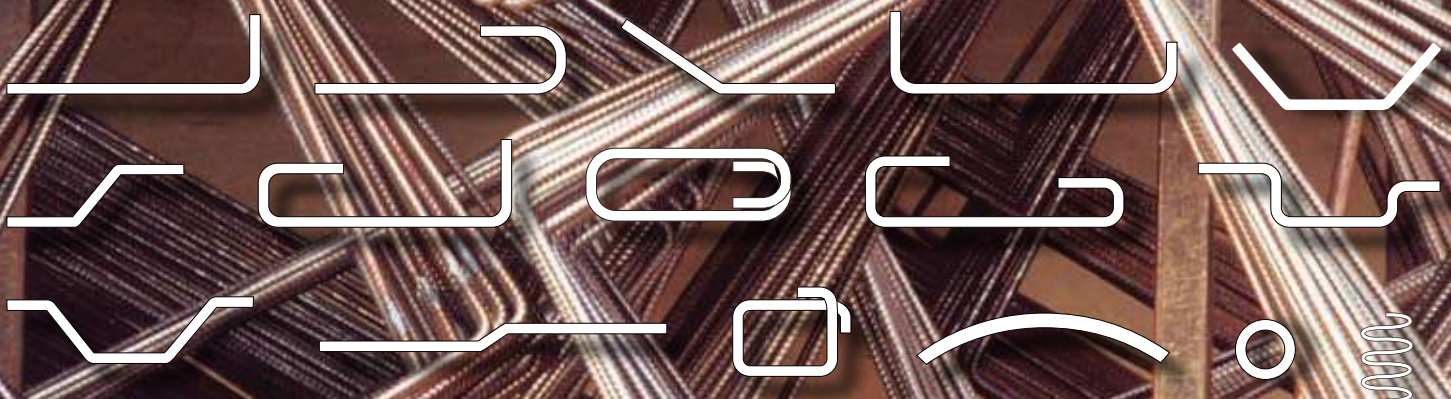
# Saves time and money

<b>Customised shapes and sizes</b>	Just give us your Bar Bending Schedule. We are equipped with state-of-the-art machines and shear lines for automatically cutting and shaping tor steel / TMT bars and making high precision stirrups from coils as per customer's specifications and time schedules. From logistics point of view, if required, the equipment can be installed at or near the project site with the technical assistance from the manufacturers, M/s. MEP, Italy.
<b>High precision</b>	The machines are electronically controlled and programmed to ensure accuracy of every piece... batch after batch.
<b>Just-in-time delivery</b>	There's no need for you to maintain large inventory of steel at site. We can deliver the exact quantity of pre-shaped bars and stirrups to your project site as per the schedule given by you.
<b>Save space at site</b>	Our proposed Steel Yard in Panvel jointly with Indiabulls Infrastructure Resources has a very large storage capacity. Your steel bars and coils can be safely stored and tagged for subsequent processing according to the delivery schedule. You thus save valuable space at site.
<b>Reduce wastage</b>	Manual operation generally entails huge wastage. High precision, automated operation and use of steel coils help limit wastage to below 2%.
<b>Prevent pilferage</b>	Pilferage of construction material from project site is a common problem. This is drastically reduced or prevented by adopting the system of delivery of the exact quantity of steel bars and stirrups from steel yard at site on a daily or weekly basis, as per schedule.
<b>Save time and money</b>	The concept of outsourcing the cutting and bending operation to R2U saves employment of skilled labour and putting up with losses due to wastage and pilferage.
<b>Colour Code Tags</b>	For easy identification of rebar at site to prevent any mix-up
<b>Reconciliation Software</b>	Generates reports on reusable off cuts and scrap to enable total steel reconciliation

## Suit your convenience

<b>Option I</b>	Steel bars or coils supplied by customers are cut, bent / shaped as per customer's requirements at CBBY and delivered at the project site as per delivery schedule
<b>Option II</b>	Machines supplied to customers at site on Outright Purchase
<b>Option III</b>	Machines supplied on Build, Operate and Take Back basis
<b>Option IV</b>	Machines supplied on Buy Back basis

## Some Typical bar angles and bends



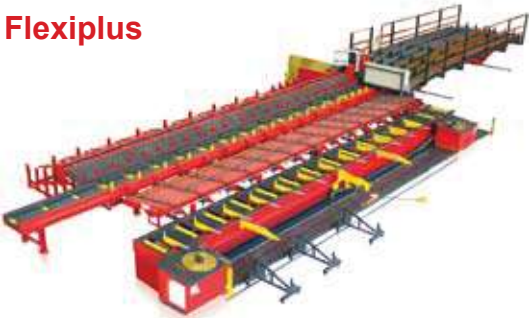
# Yard Modules

## set-up by R2U at your site with MEP machines

### Centralised Bar Bending Yard (CBBY)

**Yard Capacity: 1000 MT to 5000+ MT per month**  
 Can cater to requirement of several projects simultaneously

#### Flexiplus



**Cutting and bending machine**  
 This is a very versatile machine which can be used for rebar cutting or as a complete cut and bend station. Its automatic operations help reduce material transitions and manpower, and increase productivity. Intelligent programming helps manage and optimise the production for highest efficiency.

#### Mini Syntax



**From coil to stirrup**  
 This is an electronically controlled automatic plant for production of small and large sized stirrups, straightened cut-to-length bars, and bars shaped at one or both ends.



Sasan Yard (UMPP)

### Mini Cutting & Bending Yard

**Yard Capacity: 300 MT to 800 MT per month**

#### CT12-245



#### P-140E



#### Focus 12



### Stirrup Yard

**Yard Capacity: 150 MT to 500 MT per month**

#### Focus 12



**Stirrup bending machine**  
 This is the ideal automatic coil-to-stirrup bender with a patented anti-twist and straightening system for a perfect finish. It can be used for making small or large stirrups, straightened or bent bars, as well as circles and spirals, thanks to a complete array of accessories.





We TOLANI INFRASTRUCTURES PVT LTD ( TIPL ) are all Goa distributors of Construction Machinery which include Semi / Fully Automatic rebar Cutting and bending machines, Vertical machinery and many more. A Wide spectrum of all construction and Infrastructure related machines. With the Support and guidance from our parent company M/s Ispat Infrastructure Ltd, who are Pan India distributors and importers of Construction Machinery we have achieved providing service to milestone projects

Accentuating on quality, the company has already acquired recognition as one of the trusted in the state. Having been in the industry for long now, the company seeks to attain excellence in its working skills. In the adept guidance of immensely talented and skilled management, the organization endeavours to become specialists in erecting innovative in machinery. We emphasize a ONE FIRM culture and foster mutual respect and proactively collaborate with each other, with clients, and with partners keeping just one thing in mind – to be the best at what we do.

## **Tolani Infrastructures Private Limited**

Corporate Office

E-2, Fifth Floor, Sujay Apartments, 18th June Rd, Opp. Susheela Building, Panaji. Goa 403001  
Phone: 0832-2420700: | +91 9422057853 | +91 9765840656 Email ID: [tolaniinfra@gmail.com](mailto:tolaniinfra@gmail.com)