

NEW

GLADIATOR PLUS
Safer | Robust | Rugged

CE CERTIFIED, EXPORT QUALITY CUTTING & BENDING MACHINES



REBAR PROCESSING MACHINES

- Bar Cutting & Bending Machines
- Stirrup Bending Machines
- Spiral Bending Machines
- De-coiling Machines
- CNC Stirrup Bending Machines
- Scrap Straightening Machines



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Dr. Vikram Mehta,
Managing Director

Spartan Engineering Industries Pvt. Ltd was founded in the year 1971 and has forayed in to the field of manufacturing and supplying construction equipment in the year 2005. Since its four decades of existence in Engineering Industry, Spartan has become a leading Indian MNC in construction Equipment Manufacturing.

Spartan is a Mumbai based leading ISO 9001 2015 certified manufacturer and supplier of high quality construction machineries like Bar Bending Machines, Bar Cutting Machines, Passenger & Material Hoists, Multi-functional Material Hoists, Rope Suspended Platforms & Lift Shaft, Multi-functional Minilifts, Firemen Evacuation Lifts, Garbage Collection Lift, Stirrup Bending Machines, Spiral Bending Machines, De-coiling Machines, Light construction

Equipments, Reversible Mixer & Boom Placers.

Spartan has played a pivotal role in the development of nation by providing machineries to infrastructure projects. The projects range from roads, flyovers, bridges, buildings, houses to dams & tunnels.

Creating quality construction equipment helps build reliable infrastructure, drives development & thus fuels the Nation's progress. Thus Spartan has achieved the distinction of being India's most preferred and fastest growing construction equipment manufacturing company. Core Purpose guides Spartan to strive hard and be on top of other manufacturers.



State-Of-The-Art Infrastructure (Mumbai - Nashik Highway)



Vision & Mission

CORE PURPOSE

To Enhance the Productivity, Speed and Safety in Construction and Infrastructure Industry by providing Advanced Mechanized Solutions, thereby saving their Money, Time and Efforts.

CORE VALUES

- Passion for Perfection and Innovation.
- Employee Growth Through Continuous Self Improvement.
- Building Strong Relationship with Internal and External Customers.

ASPIRATIONAL CORE VALUES

- Customer Service Above All Else.
- Always Telling The Truth.
- Contributing Back To The Ecosystem At Large.

BRAND PROMISE

Committed Fast Response to Build Close Relationship with the entire Eco-System!



Research & Design Development



Spartan's Design & Development team consists of 20+ dedicated professionals with expertise in Engineering Design & Development.

Our design team uses SolidWorks for 3d solid model

design, static & dynamic analysis Finite Element Analysis (FEA) of machine components & documentation.

This ensures strength & reliability of all components & thereby gives the customer peace of mind.

Our Design Engineers study the structural, static & dynamic Load requirement, load deflection characteristics & working Conditions of the end application. Entire structure of machine has been designed on basis of FEA study by considering various loading conditions to ensure the life, reliability and safety.



Customer Care

- We have well trained team of technicians having 10-20 years of rich hands-on experience with leading construction companies.
- We have experts from both mechanical & electrical background at each location to serve the customers 24x7.
- We have an in-house training facility to impart training on safe usage and maintenance of machines to our engineers and operators.
- Our ERP backed Call Management System App. with dedicated service co-ordinators at National & Regional level ensure timely response to customer calls.
- We also have dedicated Toll Free Number for our esteemed customers Support & In-house Training.



Customer Care Mobile App.



Customer Care Team- Chennai



Customer Care Team- Delhi



Customer Care Team- Hyderabad



'SPARTAN'S LEADERSHIP' in Cutting and Bending Machines



BAR CUTTING MACHINES

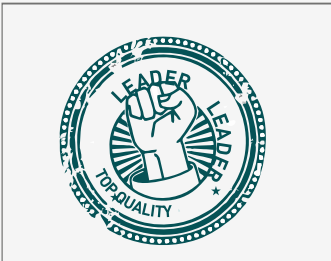
Models: SCM 42 | SCM 52V | SCM 55V



BAR BENDING MACHINES

Models: SBM 42 | SBM 52V | SBM 55V

Pioneer in Cutting & Bending Machine



Amongst first Indian Manufacturer to Mechanise rebar shearing process. Leaders is manufacturing Cutting & Bending Machines for last 12 years. Spartan has lot of followers, who have copied the machine design and functions, but couldn't maintain the quality.

PAN India Presence



Company owned 8 Branch offices across metro cities in India. Developed 6 dealers in India to penetrate into tier I & II cities. 4 International dealers around the Globe. All the Branches & Dealers are well equipped with spares & service support.

Exports to 10+ Countries



Exports to countries like Kenya, Srilanka, USA, UK, Nepal etc.. Full fledged support of service & Spares through dedicated International Dealership network.

1,00,000+ Machines Onsite



Every renowned Builder/ Contractor/ Developer has at least 1 set of Cutting & Bending machine on their site. Have mechanised many Indian construction sites through Spartan's Cutting & Bending machines. Have provided machines for shearing rebars size for 8 mm to 40 mm of varied rebar till FE 550D.

CE Certificate - Apave, France



Gladiator plus design is complying to European safety standard CE. It is certified by reputed international certification body Apave from France. Comply to standard EN12100:2010 & EN60204-1:2018. These CE testing ensure performance, safety & environmental protection. machine passes assessment norms of international market.

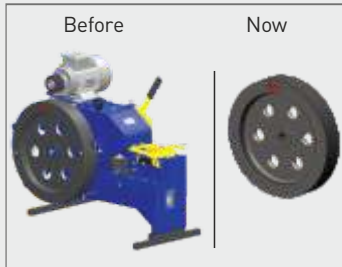
Awarded by Manufacturing Today



- Awarded by Manufacturing Today for Production Facility.
- Winner against 50 national manufacturers.

IMPROVEMENTS MADE IN BAR BENDING & CUTTING MACHINES

Flywheel Diameter



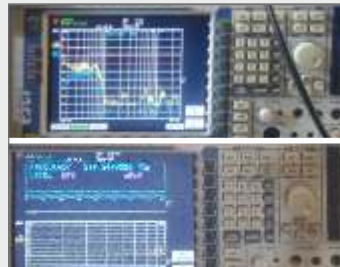
- Flywheel diameter increased to get maximum power. (1.5 times movement of inertia increased).
- Stroke impact power increased. Easily cuts high tensile and ready to take advance high tensile rebar.

Energy Efficient IE2 Motors



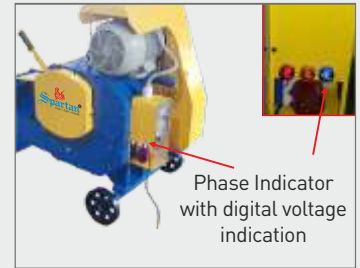
Italian make Energy efficient IE2 Motors has international warranty. Cost of IE2 Motor is 10% higher than IE1 but the advantage for end users is a considerable reduction in running costs over the life cycle of the IE1 rated motor. Energy efficient motor, less running cost, Enhanced motor life and comes with international warranty.

Electric Panel with testing LV, HV



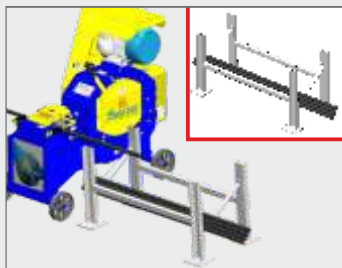
LV-HV Test: It was conducted to ensure sustainability of electrical components. **Emission Test:** It was conducted to ensure that emission by machine is within limit & there's no harm to operator & environment. Result in zero breakdown conducted by government testing body.

Three Phase Indicator



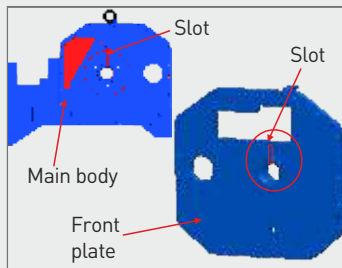
Three phase indicator is provided with the digital voltage indication. It protects motor from phase failure / single phasing, as operator can see if voltage of each phase is within limit or not at the time of operation.

Rebar Collector Stand



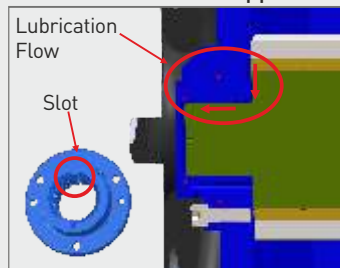
Rebar collector stand is provided to safely store rebar. It safely stores rebar after cutting hence handling is easy. Also prevents movement of rebar during cutting operation. Middle members of stand to be welded at site by customer by using Rebar rod.

Additional Groove



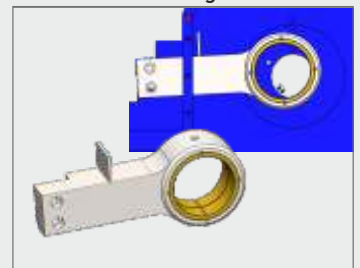
It is provided inside the cutting body to improve lubrication in shaft support bearing. It increases life of shaft support and other interconnect internal components.

Eccentric Shaft Support



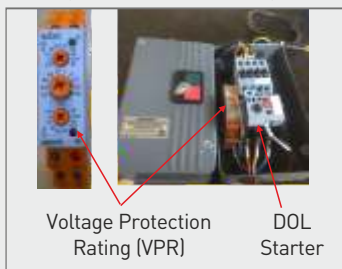
This Improved design ensures sufficient oil lubrication inside shaft support. Reduces wear due to friction and increases life of other interconnected components.

Connecting Rod



Improved design of connecting rod, its improve oil flashes inside machine body. Prevents flow at blade exit. Lubrication increases life of component, top plate also prevents oil leakage from blade exit.

Voltage Protection Rating (VPR)



It is added inside the stator box. It protects machine and motor from high / low voltage.

Powder Coating.



Body is made of high quality Steel, 7 tank process is done to activate surface for powder coat bonding and final coat of high quality PP (Pure polyester) powder coating. Superior finish and long life corrosion protection is given. Increase in machine life and reduction in maintenance cost.

Fly wheel cover & Full motor cover



Completely enclosed fly wheel cover and full motor cover is provided. Enclosed flywheel cover provides safety to operator and full motor cover protects motor from rain, dust, debris at site.

Protection cover



Protection cover for starter and power socket, with acrylic door is provided. Starter cover prevents damage during transportation and also protects from dust accumulation and rain water at site.

TECHNICAL SPECIFICATION - CUTTING MACHINES

MODEL	DIMENSIONS (L x W x H)	WEIGHT	STROKE /MIN.	MOTOR CAPACITY	OIL GRADE & CAPACITY
SCM 42	1070 X 560 X 865 mm	388 Kg	90	5 HP, 3.7 kW	OMALO 460, 4.25 ltr.
SCM 52V	1135 X 740 X 930 mm	550 Kg	60	5 HP, 3.7 kW	OMALO 460, 4.25 ltr.
SCM 55V	1225 X 720 X 1025 mm	773 Kg	60	7.5 HP, 5.5 kW	OMALO 460, 6.75 ltr.

IMPROVEMENTS MADE IN BAR BENDING & CUTTING MACHINES

Body Frame Design



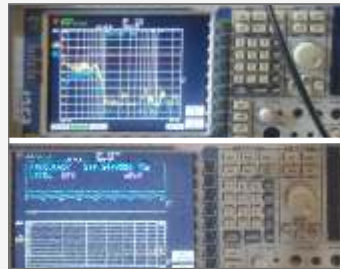
Body frame design is improved, Vertical and horizontal member size is increased making it more robust and steady. Robust design machine frame to withstand load during bending operations.

High Quality Gi Sheets



Body is made of high quality GI sheets. It gets toughest coating through galvanization. 7 tank process is done to activate surface to bond with powder coat & final quote of high quality PP (Pure polyester) powder coating. Superior finish & long life corrosion protection, thus increases machine life & reduced maintenance cost.

Electric Panel with Testing LV, HV



LV-HV Test: It was conducted to ensure sustainability of electrical components. **Emission Test:** It was conducted to ensure that emission by machine is within limit & not harmful to Operator & environment equipments. Result in zero breakdown conducted by government testing body.

Grease Lubricated Gear Box



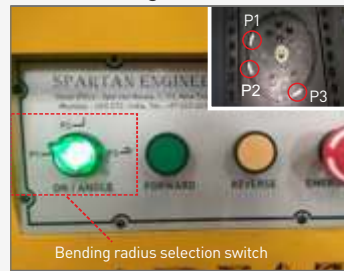
Advance technology grease lubricated gear box is used. Traditional oil lubricated gear box has high chances of oil leakage. Unlike oil lubricant gearbox there is no need to check lubricant level frequently. Also No leakage issues.

Advance PLC Control Panel



Siemens make PLC and safety logic to prevent over travel of bend wheel. Easy fault finding through PLC, Forward and reverse delay time is maintained through PLC for safe operation, bend wheel travel is restricted through PLC to prevent accident.

3 Bending Pre-selection



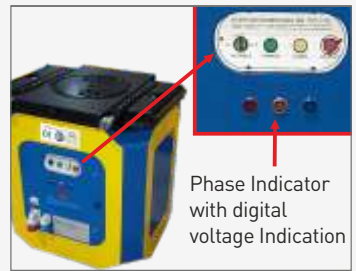
3 Bending Radius and be pre-set so without removing the locator pin three different degree bend is possible by bend selector switch. Pre-selection switch makes operation 2 time faster.

Energy Efficient IE2 Motors



Entire gearbox motor has International warranty. Energy efficient motor, less running cost, Enhanced motor life and it comes with international warranty.

Grease Lubricated Gear Box



Advance technology grease lubricated gear box is used. Traditional oil lubricated gear box has high chances of oil leakage. Unlike oil lubricant gearbox, no need to check lubricant level frequently. Also No leakage issues.

TECHNICAL SPECIFICATION - BENDING MACHINES

MODEL	DIMENSIONS (L x W x H)	OVERALL WEIGHT	MOTOR CAPACITY	BEND WHEEL SPEED	BEND WHEEL DIA Ø	MAX. BEND RADIUS	BUSHES SUPPLIED
SBM 42	945 x 800 x 960 mm	330 Kg	5.4 HP	9.4 rpm	300 mm	4D of Ø32	Ø60, Ø70, Ø100 & Ø120
SBM 52V	1105 x 850 x 960 mm	390 Kg	5.4 HP	9.4 rpm	425 mm	5D of Ø32, 4D of Ø36	Ø60, Ø70, Ø100, Ø120 & Ø160
SBM 55V	1060 x 950 x 1235 mm	555 Kg	7.5 HP	6.0 rpm	500 mm	6D of Ø36, 5D of Ø40	Ø60, Ø70, Ø100, Ø120, Ø160 & Ø220
						OPTIONAL 8D of Ø40	Ø320

CAPACITY CHART OF REBAR CUTTING AND BENDING MACHINES

FEATURES	SBM 42								SCM 42								SBM 52V / SCM 52V								SBM 55V / SCM 55V									
Dia of Bars (Max. Dia in mm)	36	32	25	20	16	12	10	8	36	32	25	20	16	12	10	8	40	36	32	25	20	16	12	10	8	40	36	32	25	20	16	12	10	8
No. of Bars Tensile strength 41- 50 kg/mm^2 (Elongation - 12% Max)	1	1	1	2	3	3	4	6	1	1	1	1	2	3	4	5	1	1	1	2	2	3	5	6	8	1	1	1	2	2	3	5	7	8
No. of Bars Tensile strength 51-60 Kg/mm^2 (Elongation - 16% max)	-	1	1	1	2	3	4	5	-	1	1	1	2	3	3	4	-	1	1	1	2	3	4	6	8	1	1	1	2	2	3	5	7	8
No. of Bars Tensile strength 61-70 Kg/mm^2 (Elongation - 14.5%/ 10% Max)	-	1	1	1	2	3	4	5	-	-	-	1	2	3	3	4	-	1	1	1	2	3	4	5	7	1	1	1	2	2	3	5	6	8
No. of Bars EQR (Tensile strength 71-78 Kg/mm^2) (Elongation - 18% Max)	-	-	1	1	2	3	4	5	-	-	-	1	2	3	3	4	-	-	1	1	2	3	4	5	7	1	1	1	2	2	3	5	6	8



STIRRUP BENDING MACHINES

Model: SBM 16



UNIQUE FEATURES OF STIRRUP BENDING MACHINES

Advanced PLC Panel



3 type of different bending angles are made through PLC. Hence it saves time and increases production. The latest control panel is easy to maintain due to its well thought design and it also eradicates water clogging. Circuit diagram is pasted inside the panel for proper guidance. The wiring is done along with labeling for proper identification.

Synthetic Grease



Synthetic grease is used instead of conventional gear oil, which eliminates oil changing & comes with life time warranty. It gives low & high temperature viscosity performance. It has resistance to oxidation, thermal breakdown and oil sludge problems. It gives better lubrication even during extreme cold weather. It also helps in longer life of the gear box.

Limit Switches



The machine has two limit switches, one at front & other at back. They are used to sense home position, degree of bend as shown in above image. It is fitted below the top plate. The limit switch is used to restrict the rotation of the bend wheel in 360 degrees. This allows getting the exact bent for the selected angle.

Stirrup Measuring Arrangement



It is provided for measuring the bar length is fixed by tightening stopper plate bush during bending operation.

Bending Pin & Hard Chrome Plate



Stirrup bending pin, stirrup pressure pin & stirrup support plate with Hard Chrome plate is provided for better surface finish & for prevention from rust.

Planetary Gear Box



Planetary gear box has outstanding power transmission efficiencies with 97% of input energy transmission. High torque and reduced load inertia with gradual reduction of speed gives longer life without any jerks to gearboxes.

User Friendly Foot Pedal



The Machine is operational only when the foot pedal is kept pressed and once the foot is removed, the machine stops, thus providing safe operation. It also comes with foot guard cover for higher safety from hazards at construction sites.

CAPACITY CHART - STIRRUP BENDING MACHINES - SBM 16

Dia of Bars (Max. Dia in mm)	12	10	8	6
No. of Bars Tensile strength 41- 50 kg/mm ² (Elongation - 12% Max)	1	2	5	6
No. of Bars Tensile strength 51-60 Kg/mm ² (Elongation - 16% max)	1	2	4	6
No. of Bars Tensile strength 61-70 Kg/mm ² (Elongation - 14.5% / 10% Max)	-	1	4	6

TECHNICAL SPECIFICATIONS OF SBM 16

MACHINE DIMENSIONS (L x W x H)	1590 x 585 x 825mm
OVERALL WEIGHT	125 Kg
MOTOR CAPACITY	1 HP, 0.75kW
BEND WHEEL SPEED	18 rpm
OIL GRADE & QUANTITY	Grease (Centuple x GLP200-000DH)
	1.6 kg



SPIRAL BENDING MACHINES

Models: SSB 52 | SSB 55



UNIQUE FEATURES OF SPIRAL BENDING MACHINES



Easy adjustment Knob: This is to bend rebars at various of diameter spirals.



Electrical Panel: We use controllers, timers, relay, convertor etc. of top brands like Siemens, Schneider.



Pitch adjustment point with screw jacking system: It is done to adjust pitch of spiral bend.



Inbuilt Scale: It is inbuilt on roller adjustment blocks for accuracy and it also reduces time of adjustment



Planetary gear box: It has an outstanding power transmission efficiency with 97% of input energy transmission. High torque and reduced load inertia with gradual reduction of speed gives longer life without any jerks to gearboxes.



Synthetic Grease: This oil is used instead of conventional gear oil, which eliminates oil changing and it comes with life time warranty. It gives low & high temperature viscosity performance. It has resistance to oxidation, thermal breakdown and oil sludge problems. It also helps in longer life of the gear box.



User friendly Foot Pedal: The Machine is operational only when the foot pedal is kept pressed and once the foot is removed, the machine stops, thus providing safe operation. It also comes with foot guard cover for higher safety against hazards at construction sites.



Rollers: It is ENP plated for protection against rust.

CAPACITY CHART

FEATURES	SSB 52						SSB 55									
Dia of Bars (Max. Dia in mm)	20	16	12	10	8	6	40	36	32	25	20	16	12	10	8	6
Ring Dia Ø Min. (mm)	800	450	350	300	275	250	450									
Ring Dia Ø Max. (mm)	Upto 3 mtr.						-									

TECHNICAL SPECIFICATIONS

MODELS	SSB 52	SSB55
Capacity (mm)	6-20	8-40
Motor Power (HP/KW)	5 HP / 3.75 kW	5 HP / 3.7 kW x 2 no.s
Bend Wheel Speed	9.04 RPM	9.04 RPM
Circular Bending Angle	360 Degree	360 Degree
Net Weight in KG	385 Kgs.	420 Kgs.
Dimensions (LxWxH)	1075 x 895 x 1015 mm	1000 x 825 x 1030 mm



STEEL REBAR DE-COILING MACHINES

Model: SBCM 12



UNIQUE FEATURES OF DE-COILING MACHINES



Five Sets of Adjustable Wheel:

Adjustable preset wheels are provided to ensure perfect feeding. At the same time it avoids steel rod from getting scratches or being damaged while feeding.



Control Cabinet:

Digital control by the control cabinet that has a feature of the Encoder which is provided to adjust cutting. It can memories multiple setting of different length and number of pieces.



Straightening Wheels:

Straightening wheels are made of high quality alloy steel which is given heat treatment to ensure high performance even under heavy loads and to ensure longer working life.



Pressure Gauge:

It is provided to adjust pressure of cutting stroke.



Sheet Metal Door Cover:

Sheet metal door cover is provided for safety. It also prevents steel from rebounding during operation.



Unique Feeding Device:

Upper and lower rollers ensure smooth feeding and at the same time avoids rebar scratches or rebar in damaged condition.

CAPACITY CHART OF DE-COILING MACHINES - SBCM 12

Tensile Strength	$\leq 650\text{N/mm}^2$	Traction Motor	Straight Motor	Cutting Motor	Pulling Speed	Accuracy	Weight	Dimensions (mm)
Rebar \varnothing Dia	4-12 mm	4 kW	11 kW	4 kW	50-65m/min	± 10 mm	1380 + 25 Kg	3150 x 800 x 1200



CNC STIRRUP BENDING MACHINES

Model: SSRB 12AX



UNIQUE FEATURES OF CNC STIRRUP BENDING MACHINES



Rebar Horizontal Pay-off:

Vertical payoff has loading capacity of 2000kgs. 2 sets of vertical Payoffs are provided.



Rebar Straightening Units:

One unit horizontal straightening unit is provided. One unit vertical straightening unit is provided. It is suitable for single wire and double wire.



Rebar Feeding Units:

Two pairs synchronous feeding units are provided. Automatic Pneumatic press down is provided which is suitable for wires of different diameters. It comes with Servo motor drive.



Rebar Bending Units:

Bi-direction bending operation is possible. It comes with Servo motor drive.



Rebar Cutting Units:

Electromagnetic braking cutting motor is provided. Plug type fixed blade and movable blade for easy to replacement which saves cost too.



Electric Cabinet and Control Console:

Comes with Touch screen. PLC is provided. Movable Control console is provided. It can multiple memories setting of different shapes.

CAPACITY CHART OF AUTOMATIC CNC STIRRUP BENDING MACHINE - SSRB 12AX

Single Rebar Diameter (mm)	Ø5 - Ø12
Double Rebar Diameter (mm)	Ø5 - Ø10
Max. Bending Angle (°)	180
Max. Pulling Speed (m/min)	110
Max. Bending Speed (°/s)	1000
Bending Direction	Bi-direction
Single Rebar Max Production capacity(hour)	900 (standard size)
Double Rebar Max Production Capacity(hour)	1800 (standard size)
Equipment Sizes (mm)	4000 (L)x1080 (W)x 1975 (H)



SCRAP BAR STRAIGHTENING BENDING MACHINES

Model: SSM 12



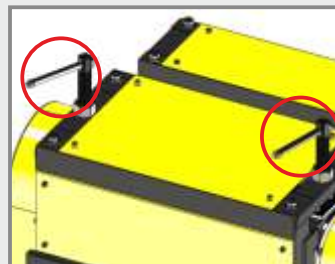
UNIQUE FEATURES OF SCRAP BAR STRAIGHTENING BENDING MACHINES



Electrical Components:
Controllers, Timers, Relay, Converter etc. of top brands like Siemens, Schneider are used.



Bushes & Heavy Duty Roller:
Different Diameters of Bushes are used for various sizes of rod. Heavy duty Roller for performing the Straightening operation.



Pressure adjusting Screw:
It is used for adjusting pressure on the rod while in operation.



Helical Bevel Gear Box:
It has an outstanding power transmission efficiencies with 90 % of input energy transmission. High torque and reduced load inertia with gradual reduction of speed gives longer life without any jerks to gearboxes.



Heavy Duty Wheel:
It is used for easy transportation of the machine.



Manual Bar Cutting Machine:
It is used to cut damaged end of the rod for easy entry in the bush.



Forward & Reverse Switch:
Forward & Reverse switch is provided for easy operation.



Foot Pedal: The machine is operational only when the foot pedal is kept pressed and once the foot is removed, the machine stops, thus providing safe operation. It also comes with foot guard cover for higher safety against hazards at constructions sites.

TECHNICAL SPECIFICATIONS

Machine over All Dimension L x W x H (mm)	Machine Weight	Out Put Speed	Capacity Dia Ø (mm)	Gear Box
1492 x 952 x 1337	650 Kgs.	25 m/min	8-14	4 kW

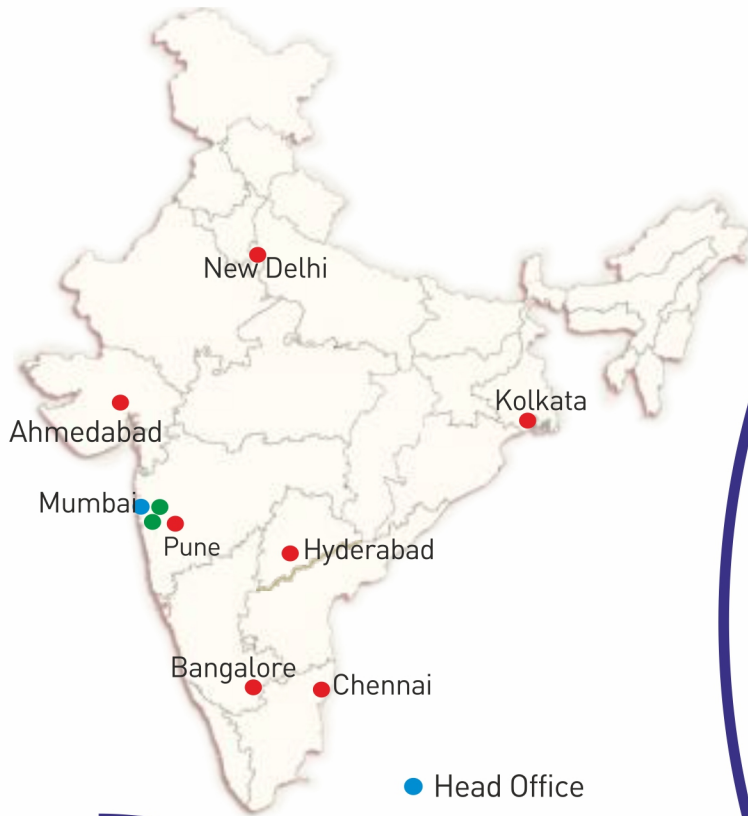
Certifications



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