

surya engineering
Mechanical Rebar Splicing Solutions



Rebar Coupler



Surya Engineering Manufacturing Good Quality of Rebar Coupler with EN8D Material.

We Are Providing Sales & Services In all over India, Backed by a rich Industrial Experience, We have come up with a World class assortment of Threaded Rebar Coupler.

Features :-

- Durable
- Good Quality
- Excellent Finish
- Superb Design

Code Specification :-

i. IS 1786-2008
ii. BS 8110-Part 1, Section 3, 1989
iii. ACI 380-2008
iv. IS 16172-2014

Why Use Rebar Couplers ?

- The Traditional methods of lapped joints are not always an appropriate means of connecting reinforcing bars. Lapped joints are dependent upon the concrete for load transfer. The use of laps can be time-consuming in terms of design and installation and the increased amount of rebar creates congestion within the concrete.
- Couplers are designed to mechanically join two bars together. By creating an end-to-end bar connection, a continuous load path is created from one bar to another that is independent of the condition and quality of the concrete. Mechanical splices are reliable under conditions of cyclic loading into the inelastic range and prove to be advantageous at the locations where inelastic yielding may occur.

Bar Diameter (mm)	12	16	20	25	32	40
External Diameter (mm)	21	28	32	40	50	62
Coupler Length (mm)	32	36	40	50	64	80
Thread Size	M16	M18*2.5	M24	M29	M36	M45
Thread Pitch	2.0	2.5	3.0	3	4.0	4.5
Weight (Kg)	0.04	0.09	0.16	0.32	0.52	1.13

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MBT Rebar Coupler





MBT Couplers require neither bar end preparation to form Threads nor bar rotation to effect installation.The bars are supported within the coupler by two Serrated Saddles.

We Are Providing Sales & Services In all over India, Backed by a rich industrial Experience, We have come up with a World class assortment of MBT Reinforcement Rebar Coupler.

Features :-

- Mechanically bolted coupler that doesn't require bar end preparation or rotation.
- The bolt heads shear off at a predetermined torque to provide an instant check of correct installation.
- Can be used in Applications where traditionally couplers do not work.
- Also approved for predominantly non static loading.
- No processing of the bar ends required.
- Secure control of the assembly by shearing the shear studs.
- Efficient and economical installation by using easy-to-use standard tools as well as the low break off torque of the shear studs.
- The extensive range of standard sockets, and reducing end anchors ensures predictability and flexibility for universal applications.
- Well suited for renovations and expansion.

Why Use MBT Rebar Couplers ?

- The SURYA MBT Reinforcement coupler is a mechanical connector for 10 to 40 mm diameter reinforcing-steel B500B.The positive transfer of tension and pressure forces from one rebar to the other is achieved via a self-regulating impacting-lock in the coupler.
- They are easy to install and achieve failure loads higher than 110% of the characteristic yield strength of grade 500 reinforcing bar. Neither bar end preparation to form threads, nor bar rotation are required. MBT couplers can also be used to join imperial, plain round or deformed reinforcing bars.
- The tensile and compression forces are transferred. The rods do not need to be pre-treated: no threading, no compression, no welding.

Bar Diameter (mm)	12	16	20	25	32	40
External Diameter (mm)	34	39	44	51.5	63.5	73.5
Coupler Length (mm)	100	150	200	200	250	300
Socket Size	13mm	13mm	13mm	13mm	17mm	17mm
No. of Bolts	4	6	8	12	12	18
Approx Weight (Kg)	0.57	1.07	1.79	2.20	4.05	6.20

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Rebar Threading Machine (SE50)



SURYA ENGINEERING Manufacture Lanco Die Head Chaser Threading Machine with High Standards of Workmanship, Material & Quality so Closely Associated with COMPANY TRADITION.

The Bolt Threading Machine is use to cut the external threads with the help of Tangential chaser. Chaser is use as a cutter in Bolt threading machine. Bolt remain still, Die-head rotates and different type of threads can be cut parallel and taper such as BSPT, BSW, BSP, NPT, UNF, METRIC, UNC, ACME, BSF Threads. Diameter range of processing steel is 10mm to 50mm.

Features :-

- The Spindle Bore 50mm Fitted with Taper Bearing 32212 & 32211
- The Machine Has Two Speeds 60 & 90 RPM
- All Gears are Tempered (Oil Seals 42-12-65)
- Motor Pulley 12" Diameter, V-belt Drive Vice Fitted with Jaw

Advantages Of Rebar Threading Machine :

- BOLT THREADING MACHINES are designed to give maximum efficiency and reliable performance under the most severe conditions of service with minimum maintenance cost.
- All the necessary requirements are combined in this model to from the basic fundamentals of correct bolt threading.
- All the gears are made of case hardened steel with extra large face with and tooth thickness and cut on hobbing machine for noiseless operation even at high speed.

Range Of Bolt Threading Die Heads :

- 1/4" to 1" Capacity do/-
- 3/8" to 1.1/2" Capacity do/-
- 1/2" to 2.1/2" Capacity do/-



Specification :

Machine Size	Length of Bed	Width of Bed	Height of Bed	Length of Pety	Width of Pety	Height of Pety	Length of Slide	Width of Slide	Height of Slide	Length of Head	Width of Head	Height of Head
¼” to 1”	44”	11”	11”	44”	18”	20”	17”	11”	3”	14.5”	11”	11.5”
3/8” to 1.1/2”	52”	12.5”	12.5”	52”	19”	20”	18”	12”	3”	15.5”	12”	12”
½” to 2.1/2”	72”	14.5”	14.5”	22*22. 20*16”	21”	20”	14.5”	4”	17”	23”	14.5	14.5”

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Rebar Cold Forging Machine



Hydraulic Rebar Cold Forging Machine is used in Building Construction to forge end of TMT Bar before threading Operation.

Rebar Cold forging Machine is used in Building Construction for rebar application before threading operation.

We produce and give profoundly useful Rebar Cold Forging Machine which are utilized in a few applications. They are best in quality and are exceedingly impervious to erosion. We offer unrivaled items with long solidness and high obstruction from consumption. These item are accessible at focused market esteem.

Features :-

- Easy Handling
- High Strength
- Rigid Structure
- Easy To Install
- Optimum Functionality

Advantages Of Rebar Upset Forging Machine :

- Rebar Cold forging Machine-This Machine is used in Construction to bulge the TMT bar.
- Rebar Cold forge machine is also used for automobile componenet.
- Valued as a reliable and trustworthy company, we are engaged in offering top quality of Upset Forging Machine to our valuable client.
- Its Used To Forge & Buldge End of TMT Bar Before Using a Threading Machine to Thread a TMT Bar.

Specification :

- Machine Weight : Approx 1 TON
- Forging Capacity : 12 mm – 40mm
- Motor : 5 Hp, 7.5 Hp
- Hydraulic System : Ukan Poly Hydra
- Working Pressure : 4000 PSI
- Tank Capacity : 180 Ltr. (Maximum 200 Ltr.)

Description :

- Production capacity of the machine is 40 mm
- Operating voltage of the machine is 415 V
- Operating Power of the machine is 3 Phase
- Operation mode can be Semi Automatic
- Maximum sheet width ranges from 0-200 mm



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Rebar Roll Thread Machine



Our clients can avail the functional excellence of this product, Rebar Thread Rolling Machines within cost effective parameters to make their work easier. This product is a machine with robust structural properties that enable a rebar to be equipped with a screwing mechanism for easier attachment abilities. With the use of high density rolling cutters and cooling liquid, the machine patterns a coiled incision around the rebar rod to provide it with screwed tips so that they can be assembled on to couplers with ease.

Rebar Thread Rolling Machine is used to strip Rebar rib First & Roll parallel Thread on Rebar End. After that Two Threaded Rebar sectors are connected by Rebar Coupler.

Features :-

- Reliable Performance
- Work Efficient
- Fully Compatible

Advantages Of Rebar Thread Rolling Machine :

- Easy Installation , Operation and Maintenance.
- Shortening Construction Period.
- High Connection Strength.
- Full-tension splice, 100% bar break under high tensile strength.
- Reasonable Structure, reliable performance because of high precision Thread.

Specification :

- Diameter range of processing steel (mm) : 16mm – 40mm
- Main motor power (kw) : 4 Kw
- Power supply (V) : 415V 50Hz
- Spindle speed (r/min) : 40 – 62
- Max. processing length (mm) : 80
- Machine Weight (kg) : 400



Description :

- THREAD ROLLING MACHINE is suitable for pure copper motor and national standard reducer
- Operation Power of the machine is 3 Phase
- Operation mode can be Semi Automatic
- Adopt thread cold rolling technology, no cutting of rebar parent metal, the strength of threaded end is higher than its parent metal
- We Offer Superior Quality In Our Offered Product Range At Industry Leading Prices
- Our Product Is Widely Appreciated Among Our Clients Due To Their Salient Attributes Such As Efficient Functioning And User-Friendly Operations

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