



CUSTOMISED **REBAR** SOLUTIONS

Leading provider of high quality splicing couplers for Rebar.



SCAN ME

+91 70390 29173

www.sctsindia.in

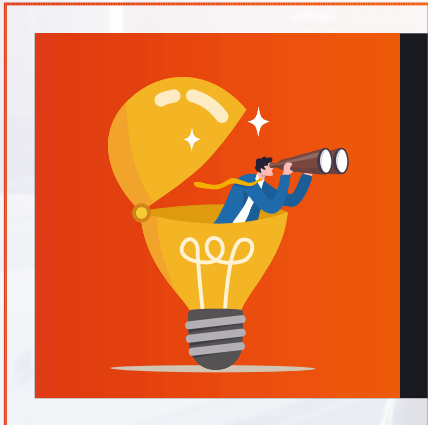


An interface of Advancement & Technology

SCTS CUSTOMISED REBAR SOLUTIONS

SCTS INDIA PVT. LTD., is one of the renown Reber Splicing (Couplers) manufacturing & service provider. Our state of the facility is located at Maharashtra/Gujarat India. The professional highly on quality and prompt services for infra / construction industries.

Our team holds true to high standards and ensure that our values of excellence, teamwork and commitment are reflected in our work. The team always feels continuously challenged and supported to deliver the beset outcome and Stands by the belief of "Advancement & Technology".



AREA OF EXPERTISE

- Design to Build
- Cost Optimization
- Product Localization
- Use of Advanced Technology
- Knowledge-Based Engineering
- Modularization & Standardization

PRODUCT ATRIBUTES

- Assured Quality
- Minimized Total Cost
- Optimizing the Process
- Supporting Localization
- Meeting Global Standards
- Matching a Client's Identity

PRODUCT APPLICATIONS

SCTS India Pvt. Ltd. is associated with a varied range of industries with enormous product experience in each sector & is ready to expand diversely.



PRODUCT FEATURES

SCTS is a parallel threaded mechanical splicing system designed for the connection of concrete reinforcing bars from 012 ot 50 mm (ASTM #4 to #18).

SCTS couplers are designed and manufactured in compliance with IS 16172 : 2014, Eurocode 2, BS 8110, DIN 1045, ACI 318, IBC, ASHTO, ASME Sec III Div 2.

SITE EQUIPMENT

The 3 machines are necessary to SCTS system rebar preparation are engineered.

Width: approx. 7m

Length: approx. 3m + table length

BENEFITS

- Solves bar congestion problems.
- Allows full ductile elongation of bars.
- Tested under reverse cyclic conditions.
- Type 2 coupler Suitable for seismic areas.
- No reduction of the bar cross section area.
- Easy installation, no torque wrench required.
- One standard coupler for all splicing requirements (Standard / Position).



SPLICING METHODS

Standard splice (Type A)

Easy connection by bar rotation until full thread engagement.

Thanks to the parallel thread:

- No risk of thread mis-match.
- No risk fo cross-threading.

Position splice (Type B)

Even when both bars cannot be turned, the SCTS system uses a standard coupler. The coupler is fully engaged onto the extended thread of the connecting bar. (Step 1)

The assembly is simply completed by bringing the bars end to end and screwing back the coupler onto the first bar until full engagement. (Step 2)

Position splice (Type C)

The Position splice Type C is different from Type B in that it has an additional lock nut to maintain the continuation bar in a determined position.



REBAR PREPARATION: A 3-STEP PROCESS

Step 1 Cutting

The end of the reinforcing bar is sawn square.



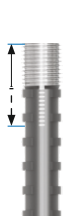
Step 2 Cold Forging

The sawn end of the reinforcing bar is then enlarged by a patented cold forging process. The core diameter of the bar is increased to a pre-etermined size.



Step 3 Threading

Finally, the enlarged end of the rebar is threaded to the required length.



A Complete Range of

MECHANICAL REBAR COUPLERS



SCTS
STANDARD



SCTS
REDUCER



SCTS
TERMINATOR



SCTS
WELDABLE



SCTS
MBC



SCTS
HALF GROUT

How to Identify

THREAD PITCH AND SIZE



- Plug Gauge (Couplers)
- Ring Gauge (Bar Thread)
- Teeth Gauge (Thread Pitch and Size)
- Every testing tools should be calibrated by third party agency annually.





IS 16172 : 2014

10 TESTS

3.4 Length of Mechanical Splice – Length of reinforcement coupler plus two times the nominal bar diameter at both ends of the coupler (see Fig. 1).

10.1 Classification of Tests

10.1.1 The static tensile test shall constitute acceptance test.

10.1.2 The following shall constitute type tests:

- Static tensile test;
- Slip test;
- Cyclic tensile test;
- Low cycle fatigue test; and
- High cycle fatigue test for Class H couplers only.

B-4 TEST REPORT

Each individual test report on both the spliced and unspliced specimens shall include at least the following information:

- Tensile strength,
- Total percentage elongation at maximum force,
- Load-extension curve to the smaller of 2 percent strain or the strain at specified tensile strength of the reinforcing bar, and
- Location of failure, that is within the mechanical splice length or outside the mechanical splice length (see 3.4).

The location of failure shall be deemed to be in the bar, if it is outside the length of the mechanical splice as defined in 3.4. Where requirement of bar break is specified by the purchaser/user, a failure located inside the length of the mechanical splice shall be recorded as a splice failure.

5 CLASSIFICATION

5.1 Reinforcement couplers supplied in accordance with this standard shall be classified into the following classes:

- Class H, and
- Class L.

5.1.1 Couplers which meet both low cycle fatigue test

and high cycle fatigue test requirements of 9.5.1 and 9.5.2 respectively shall be classified and designated as Class H coupler.

5.1.2 All other couplers which meet only low cycle fatigue test requirement of 9.5.1 shall be classified and designated as Class L coupler.

NOTE - Class H couplers are recommended for use in concrete structures which are subjected to high cycle of fatigue like road bridges, railway bridges, machine foundations, slender structures like stack, etc. For all other structures reinforcement couplers of Class L is recommended.



SCTS Ready to use

CUT & BEND SERVICES

SCTS Ready to you has built a complete cutting and bending facility for reinforced steel to be supplier in a Just-In-Time delivery system at the construction site.

SCTS Ready to you caters to every kind of reinforcement requirement, redefining concepts of time and inventory management while reducing material wastage and hazards related to cutting and bending at site.

A COMPARISON

Traditional Way

Ready to use Way

Benefits of Ready to use



Both go through the same initial phases of Design, Drawings, Contractor and BBS/BQ detailing.

Once design and BBS are received, a Project Manager looks into procurement of straight bars and gets them cut & bend in the required shape.

The quality of rebars is not consistent due to multiple vendors.

The rebars go through the inventory management rigour of accounting at each stage of usage.

The project manager micro-manages all steps of the process: from understanding the BBS to instructing labour on the required quantity, measurement, angle of bend and production schedule.

Cutting and bending are done manually, hence, bringing in inefficiencies. Length of rebar is manually measured- with a higher chance of inaccuracy. The cut is forcibly done and is not be clean.

Cut and bend products need to be manually sorted and arranged which becomes a challenge.

Wastage turns out to be a major headache as rebars do not come in the required sizes. Disposal of scrap generated during cutting & bending is an extra hassle.

All required sections available-managed either through existing inventory at site or else by fresh procurement. Procurement of rebar supply is internally buffered and managed at the Tiscon Readybuild Centre.

Consistent quality assured- the shapes are made only by Tata Tiscon rebars ensuring superior quality.

The inventory of Tiscon Readybuild rebar solutions is internally buffered and managed by the system.

Managed by computerised systems accurately : BBS fed into machines to get accurate shapes and sizes of cut and bend products.

Rebars sheared through a shearing system which measures the length to be cut accurately. The shearing mechanism is instant and gives a clean finish to the cut rebars. The angles at which rebars have to be bent is internally controlled by the machine, providing accurate bend angles.

Products are tagged and then loaded and delivered. The tagging ensures ease in accounting and stocking.

Availability of raw material in different sizes and an accurate and optimized production process ensures minimal wastage, hence, eliminating disposal of scrap.



Faster procurement of rebars



Improved quality check



More efficient inventory management



Greater detailing to bar benders



Precision in Cutting & Bending



Eased stocking & accounting



Lesser wastage & better scrap disposal

Why Choose Ready To Use Steel..?



“

CUT,
BEND &
GO GREEN

”



Timely
Completion
of Project



Better
Health and
Safety at



Improved
Inventory



Increased
Profitability



Reduced
Labour



No
Pilferage



Easier
Procurement



No wastage
at Site



Freedom
In Design



www.sctsindia.in



+91 70390 29173



info@sctsindia.in



SCTS INDIA PVT. LTD.

Office No. 803,
Grohitam Premises CHS,
Plot No. 14/B, Sector 19,
Vashi, Navi Mumbai - 400 705.



" We build High-Tech products. "