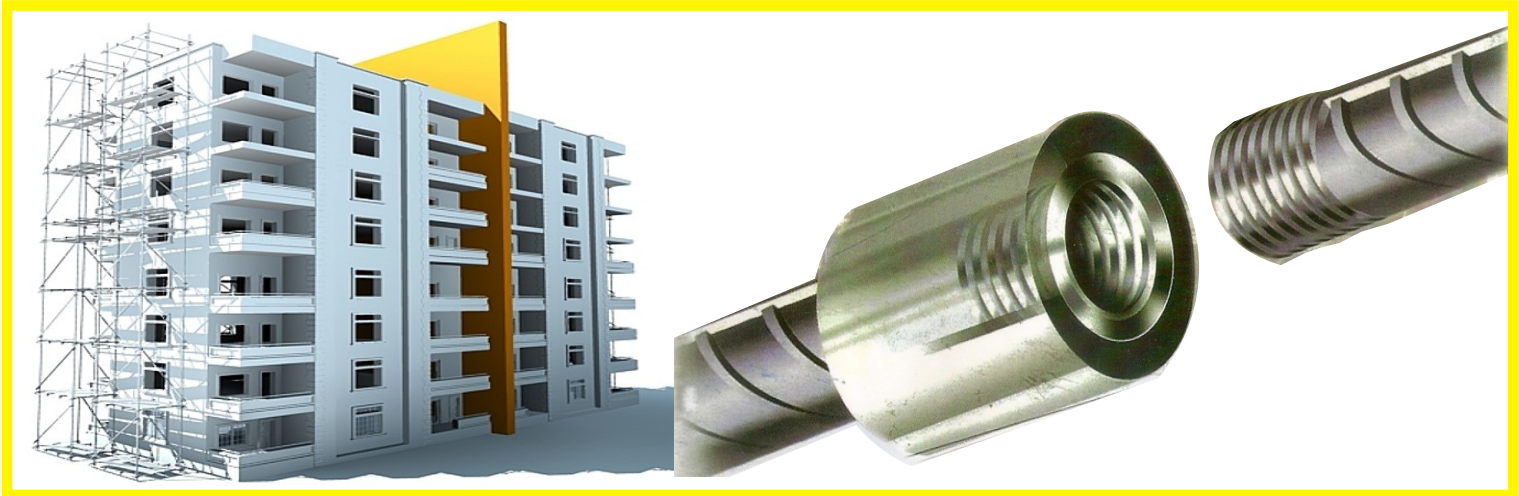
SPROCS

SPROCS FORMWORKS

(AN ISO 9001 : 2015 CERTIFIED COMPANY)

SPLICING SOLUTIONS

Parallel Threaded Couplers



SF SPROCS FORMWORKS

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WHY SPROCS COUPLERS

REDUCES
- Congestion in reinforcement.
- Steel quantity.
- Cycle Time.
- Cut Lengths.
- Resulting in a savings in Total project cost.

THREADING PROCESS

- **Cutting of Reinforcement**

  The end of reinforcing bar is squarely cut by circular blade cutting machine for perpendicularity.

- **Thread Rolling of bar**

  The Parallel threads are formed by cold Rolled process as per codal recommendations.

SPROCS COUPLERS CONFORMS TO

ACI - 318-95 Clause 12.14.3.4

A full mechanical connection shall develop in tension or compression, as required, at least 125% of specified yield strength of the steel bar.

BS-811O Part : 1997 Clause 3.12.8.16.2

The only form of full strength butt joint for a bar in tension Comprises a mechanical coupler to satisfy at least 115% specified yield strength of the steel bar.

Before Testing

After Testing

SPECIFICATIONS

- Thread characteristics - Standard Metric thread
- Preservation of re-bar cross section area - 100 %
- Built-in safety factor - 40 % above required thread area
- Minimum designed yield stress of coupler assembly - 585 N/mm^2
- Minimum ultimate tensile stress of coupled assembly - 700 N/mm^2

PERFORMANCE

- Mode of Failure - Bar breaks away from the joint
- Performance of Joint - Superior to re-bar tensile strength
- Linear Elongation of Parent bar after failure - Measurable
- Permanent Elongation - <0.1 mm

STANDARD SPECIFICATION OF SPROCS PARALLEL COUPLERS

Rebar Dia in mm	16	20	25	28	32	36	40
Grade of Rebar	Fe 550/500/415	Fe 550/500/415	Fe 550/500/415	Fe 550/500/415	Fe 550/500/415	Fe 550/500/415	Fe 550/500/415
Type of failure upon ultimate Tensilfe Load	strength equivalent to parent rebar						
Length of Coupler(Tolerance = ± 05%)	40mm	50mm	60mm	70mm	80mm	90mm	100mm
Coupler Type as per ACI 318 - 2005	Type 2	Type 2	Type 2	Type 2	Type 2	Type 2	Type 2

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