



adaptec
building solutions
private limited

www.adaptec.in

ALUMINIUM FORMWORK | REBAR COUPLERS | SCAFFOLDING | BUILDING ACCESSORIES



About Us

Adaptec Building Solutions Private Ltd (ABSPL) is an ISO9001:2008 Certified Company engaged in manufacturing of wide range of new- age building products that have made construction easier and faster for our customers. As our name suggests; we have been pioneers in bringing in new age building solutions to the Indian construction industry. We believe in providing complete solution to our clients rather than just products.

Our Product Range Includes :

- Aluminium Formwork & Accessories
- Rebar Couplers

What is Rebar Couplers?

A rebar coupler is a mechanical device used to connect two reinforcing bars in a reinforced concrete structure. Rebar couplers are an alternative to lap splices, which are traditional methods of connecting rebars. Lap splices are typically made by overlapping two rebars and then tying them together with wire. However, lap splices can be less than ideal, as they can reduce the strength of the concrete structure.

Advantages of Rebar Couplers

- Economical System comparison to other systems of joint reinforcement.
- Enhances the service of the bars, by not wasting the bar length.
- Enhances the quality of construction, at reduced costs.
- Saves time.
- Helps to build with more flexibility.
- Possibility to make designs those were not possible with traditional methods.
- Safer Measure with seismic conditions



Why Us?

Adaptec Building Solutions offers products and services across entire spectrum custom made according to clients' unique requirements. Our manufacturing facility is equipped with state-of-the-art modern machineries, experienced technical experts and skilled labour man force.

We adhere to strict quality norms, by following our very own nine-point quality system:

- Precision in drawings by following multiple tier checks
- Ensuring proper vendor evaluation and vendor raw materials sourcing
- Ensuring usage of only special grade EN8D Grade Steel
- Ensuring state of art machining methods and inserts for seamless production.
- Ensuring process parameters monitoring.
- Sampling and testing the specifications
- Ensuring IS 16172 to be followed
- Usage of automated machines
- Multi point production checks with zero tolerance towards errors

Services Offered:

- Manufacturing of Rebar Couplers
- Supply of Rebar Couplers
- Onsite Threading Works
- Special Rod Threading works in Precast
- Providing accessories
- Working with client to give best steel optimisation



TYPE OF REBAR COUPLERS

- **ABS PT Series** - This is a parallel threaded coupler. This type of coupler is used where the continuing TMT bar can be rotated.
- **ABS CF Series** - This is a Cold Forged Parallel Threaded coupler for added strength. Rebar end is cold forged and then threaded.
- **ABS TP Series** - This a tapered coupler. This type of coupler is used for high strength situations.
- **ABS TS Series** - These are transitional couplers used to join TMT bars of different diameters. These are also known as reducers.

Finishes Available:
Zinc Coated
Galvanized
Stainless Steel Coated
Anti- Corrosion Coating

Couplers can be customized as per the customers' requirements upon bulk orders

BAR-END PREPARATION

FOR COLD FORGED THREADED COUPLER

The bars have to be cut to length as per design and same has to be done with cutting machine so as to get a flat surface.

The same end is enlarged using the cold forging, so as to increase the dia of the bar to ensure that after threading the dia of the bar remains unchanged.

This enlarged end is then threaded using the Metric threading standards that match the specifications. Threaded ends are then protected with plastic caps. Also the couplers are provided with end caps to protect them from cement.



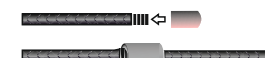
Step 1: Cutting the bar



Step 2: Cutting off the ribs of the bar end



Step 3: Threading the bar



Step 4: Putting the end cap on or tightening the coupler



Step 1: Cutting the bar



Step 2: Cold Forging the bar



Step 3: Threading the bar



Step 4: Putting the end cap on or tightening the coupler

BAR-END PREPARATION

FOR PARALLEL THREADED COUPLER

The bars have to be cut to length as per design and same has to be done with cutting machine so as to get a flat surface.

The same end is prepared by first cutting out the ribs of the bar.

This end is then threaded using the Metric threading standards that match the specifications. Threaded ends are then protected with plastic caps. Also the couplers are provided with end caps to protect them from cement.

QUALITY CONTROL

AND TESTING

Our couplers conform to the highest quality standards. They comply to EN 1992 and BS 8110 specifications.

Our couplers go through rigorous testing:

- **Material Test** - To ensure the quality of the parent material being used.
- **Physical Dimensions test** - To ensure the uniformity in design.
- **Pull Test/Bar Break/ UTS Test** - To ensure strength of coupler joint.
- **Low Cyclic Fatigue Test(LCF)** - To ensure durability.

CHEMICAL COMPOSITION

GRADE : EN8D

| % C | % Mn | % P | % S | % Si | % Cr | %Al |
|-----------|-----------|------------|------------|-----------|------|---------|
| 0.40/0.45 | 0.70/0.90 | 0.040 Max. | 0.040 Max. | 0.05/0.35 | NIL | 0.02Min |

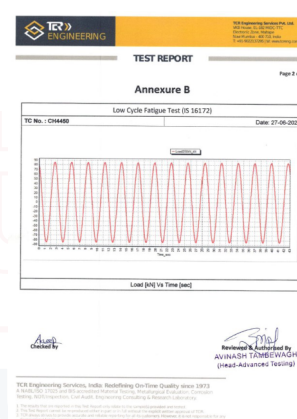
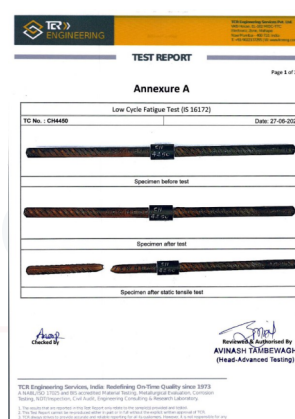


COUPLER SPECIFICATIONS

AND SIZES

We boast the largest sizes in the market and hence making them perform the best in real case scenerios.

| Description | 16mm | 20mm | 25mm | 32mm) | 20x16 Reducer | 25x16 Reducer | 25x20 Reducer | 32x16 Reducer | 32x20 Reducer | 32x25 Reducer |
|------------------|------|------|------|-------|------------------|------------------|------------------|------------------|------------------|------------------|
| ID (mm) | 15.2 | 18.5 | 23.2 | 30.2 | 18.5/15.2 | 23.2/15.2 | 23.2/18.5 | 30.2/15.2 | 30.2/18.5 | 30.2/23.2 |
| OD (mm) | 28 | 32 | 40 | 50 | 32 | 40 | 40 | 50 | 50 | 50 |
| Length(mm) | 43 | 55 | 65 | 80 | 45 | 52 | 56 | 58 | 62 | 68 |
| No.of Threads | 16 | 19 | 20 | 24 | 9/8 | 10/8 | 10/9 | 12/8 | 12/9 | 12/10 |
| Pitch | 2.5 | 2.5 | 3 | 3 | 2.5 | 3/2.5 | 3/2.5 | 3/2.5 | 3/2.5 | 3 |



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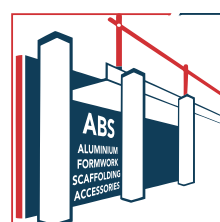
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