

Build Smart with Tata TISCON
– Bar Fabrication Shop
**Managing your Rebars and C&B
more efficiently**

Sagar Business ~ Offer to the
Construction Industry



Sagar Business Private Limited

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TATA TISCON rebars



TATA TISCON rebars are manufactured in the world's most advanced steel plant. Made from pure steel, with controlled chemistry and minimum impurities, every rebar incorporates the most advanced TMT technology and has a perfect combination of strength and ductility. To meet the requirement of different consumers TATA TISCON has made available different grades of rebars which include CRS (Corrosion Resistant Steel) and Super Ductile rebars. In addition to these TATA TISCON has introduced TATA TISCON 500 as per the latest international standards for better strength, safety and economy.



**THE CONVENIENT,
CUT AND BEND STEEL
FOR ON-TIME
CONSTRUCTIONS.**

Advantages of the Ready Cut & Bend Material

- Reliability of Steel & Supply:

TATA TISCON Rebars from the Tata TISCON Bar Fabrication shop are made from 100% virgin steel. The supply of raw material, according to a given schedule is guaranteed; there is no question of delay due to non availability of steel

- Better Site productivity:

Reduced involvement of labour used for handling, cutting & bending. This makes the site management much easier. Projects get a competitive edge due to the enhances speed of construction.

- Better quality construction

The cut & bend is done on a machine which is precision – impossible to achieve manually. The exact degree of bend is achieved such as 135 degrees.

- Reduced wastage ~ in form of unaccounted losses

Wastage & unaccounted loss is averted as human error is done away with, The cost of disposing waste material onsite is also reduced.

- Less Time Taken

The time taken to complete the project is reduced as the entire process is already done

- Reduced Project Cost

Inventory & storage is negligible due to the “just-in-time” delivery system.



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Benefits to you as Customers:

- Preventing delays due to non availability of the right C&B material
- **Improves margin as your cost overruns associated with delays are prevented** (Overheads are usually more than 20 lacs per months)
- **Reduction in working capital in the project** (200 Mt of inventory is about 1cr locked)
 - Provides capital to speed up the project
- **If project are delivered on time- Improves your credibility, in the market, as a reliable contractor**



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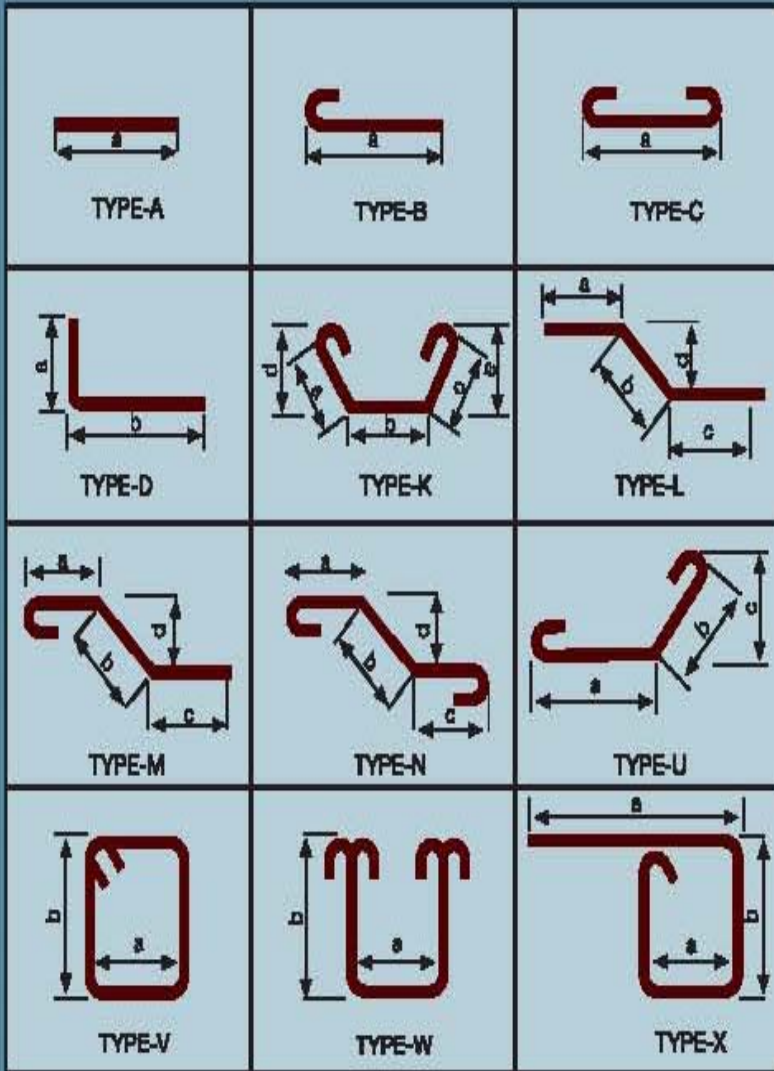
Additional benefits!!

- Convenience: Steel supplier also providing Cut and Bend
 - No need to follow up with supplier for Rebars
 - No need to keep track of Labor contractor's daily progress and activity
 - Better safety compliance at site
- Savings in cost of managing over all C&B operation
 - Reduction in labor required
 - Drastic reduction in pilferage
 - No leftovers
- Improved quality
 - Quality of workmanship improves
 - Not required to take shortcuts under pressure of time
- Less space required
- Most important: Peace of mind!



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TATA TISCON Bar Fabrication Shop fabricates the shapes of rebars with a higher accuracy



Ties with end bent at 135 degrees

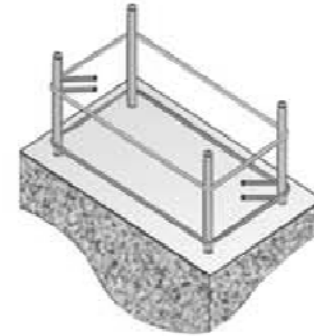


Figure 1: Steel reinforcement in columns – closed ties at close spacing improve the performance of columns under starting shaking of ground

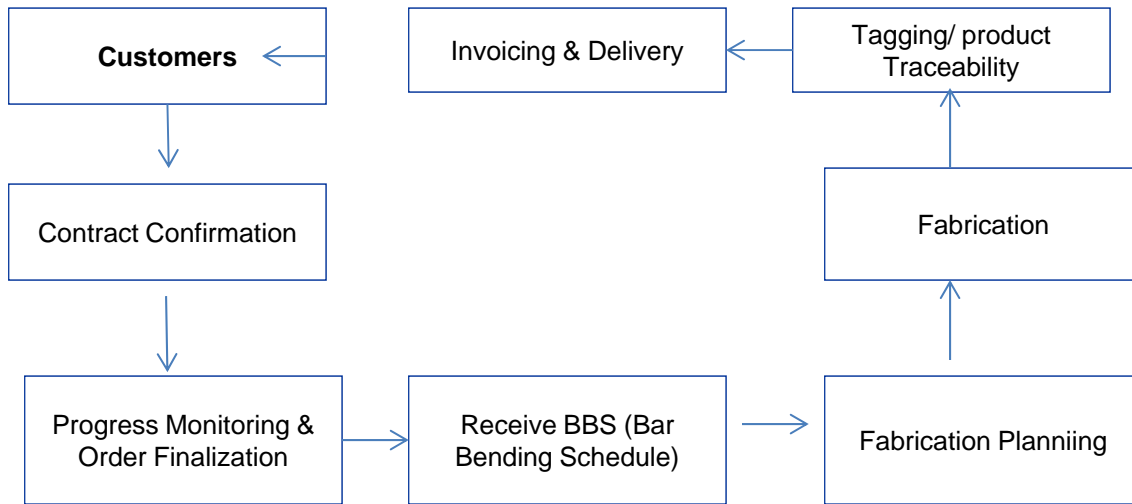
Figure 2: Steel reinforcement in seismic columns ties with 135 degree hooks

Difficult shapes with precision and ease



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How the C&B Centre operates:



- Should ensure that your site work is not delayed due to unavailability of C&B
- Any solution saves you money as compared to the current practice of managing C&B at your site.
- Should assist in releasing substantial capital locked in long bars
- Should provide substantial improvements in quality of your work
- Should provide additional benefits such as reduced pilferage, losses of left overs, overcoming space constraints, reduced capital in machinery etc
- Should not add any new risks to you
- Peace of mind!!

1. Sagar Business will deliver the C&B requirements
 - in full kit as per the schedule provided by your site, within 7 days
 - with 100% reliability
2. Sagar will accept changes in BBS schedules provided as late as 4 days prior the delivery date.
3. Allow for rush orders on a case to case basis.



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**The Criteria
for operation
of C&B**

Advantages of Cut & bend Material

- **Precise cutting and bending is achieved with the help of Rebar Processing Plant, leading to Consistent Quality and Accuracy unlike conventional process of cutting and bending which is carried out manually.**
 - Saves Almost 5% to 7% of Steel Wastage
 - Saves a lot of time, as one only needs to Fix and Tie the bars in position
 - Tremendous savings in transportation too as only precise tonnage of TMT is transported.
- **As there is no waste, money and time spent on wastage transportation is saved**
- **Inventory storing cost is saved too as you can order the cut and bent steel at the precise time and place without worrying about the storage**
- **The Cut & bend Steels will help you achieve:**
 - Reduces Labour saves unwanted Steel
 - Consumption & reduce wastage
 - Saves Time & labour
 - Easy Fixing
 - Specialized Services



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Activity Schedule for Conventional Bar Bending Vs Cut & bend Solution from Sagar Business

Activity	Conventional Bar Bending	Sagar Business Solution
PREPARE STRUCTURAL DRAWING	✓	✓
GENERATE BBS -DETAILING ENGINEER	✓	✗
ISSUE BBS TO CONTRACTOR -ENGG.DEPT	✓	✗
ISSUE MATERIAL REQUEST-STORIES	✓	✗
ARRANGE MATERIAL/STEEL-PURCHASE	✓	✗
STORE MATERIAL AT THE YARD	✓	✗
GIVE WORK SCHEDULE TO CONTRACTOR	✓	✓
MAKE CUT AND BEND-COMPLETE ALL BAR MARKS	✓	✗
ISSUE TO CONSTRUCTION	✓	✓
REUSE THE CUT MATERIAL	✓	✗
MONITOR SCRAP GENERATED	✓	✗
STORE THE SCRAP	✓	✗
ARRANGE QUOTE FOR SCRAP SALES	✓	✗
DISPOSE SCRAP	✓	✗



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Saving by using Cut and Bend

Sources of reduction	Assumption	Amount ₹/ton
1 Wastage	<ul style="list-style-type: none">Reduction by 3% <i>(net wastage for cut and bent material only)</i>	₹1200
2 Labor	<ul style="list-style-type: none">Reduction by 40% <i>(including labour not needed for handling remnants)</i>	₹1000
3 Inventory	<ul style="list-style-type: none">Reduction by ~ 20 days	₹250
4 Overhead	<ul style="list-style-type: none">No machinery costs, electricity costs etc	₹250

Total savings of
(₹2700 per ton) by
using Cut and Bend

While we appreciate that the numbers will vary from site to site, we have taken an estimate based on our customer and site interactions. Please put your own numbers as per convenience



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