

Rebar Fabrication

Reinforcing steel is fabricated in our plant to shop drawings and bar lists, then delivered to site — solving the shortage of yard space and skilled labour on urban sites and cutting rebar loss.

— BACKGROUND

Why fabricate rebar in the shop

With skilled rebar workers harder to find and labour costs rising, contractors increasingly need mechanised, specialised fabrication plants. Hansung Precision reduces rebar loss while improving quality, material control and schedule.

- Public clients demand high-quality rebar work under standardised systems
- Larger buildings require planned fabrication; pre-fabrication shortens the site schedule
- Avoids complaints and environmental restrictions on urban sites
- Site fabrication makes material storage difficult; in the shop, scrap is recycled and loss minimised

Objectives

- Precise construction and fabrication from shop drawings
- Accurate placing drawings and bar lists
- Optimised bar quantities — minimum loss, lower labour and material cost



Rebar fabrication line, Cheonan plant

Technical

Placing and fabrication drawings become shop drawings, enabling precise pre-fabrication. Design, fabrication and assembly are managed together.

Quality

Rebar placement — the core of structural work — is executed completely, securing quality control.

Shop fabrication in Korea

Advanced economies fabricate over 95% of rebar in plants. Since 2002 Korea has shop-fabricated about 10% of annual demand (1.0–1.2 million tonnes), and major contractors are reviewing company-wide adoption.

Overseas — 95%+ shop fabrication

- Standardised design drawings
- Worsening site conditions
- Tight work space, rising labour cost, cost pressure, environmental issues

Korea — about 10% of demand

- 1.0–1.2 Mt/yr shop-fabricated of 10–12 Mt national demand
- More than doubled since 2002
- Rising steel cost, labour shortage, large urban projects, environmental issues
- About 50 fabricators nationwide

Barriers

- Lack of confidence in cost savings
- Concern about schedule disruption
- Concern about adapting to site changes
- Competition with formwork/rebar subcontractors and their site relationships

Shop fabrication vs site fabrication

	Shop fabrication	Site fabrication
Advantages	• Precise fabrication → precise structures, prevents defective work • Minimum rebar loss • Lower assembly cost → lower total cost • Easy stock and product control • Complex, high-precision shapes possible • Pre-fabrication shortens the schedule	• Easy to react to site changes (design changes) • Fabrication and assembly together suit subcontracting
Disadvantages	• Slower response to site changes • Small orders may be declined as separate contracts • High initial equipment investment	• Offcuts cannot be reused • Hard to find yard space on urban sites • Shortage of skilled rebar workers • Low productivity and precision due to lack of equipment • Mostly subcontracted — weak accountability
Benefits of shop fabrication	• Ample working space • Production regardless of weather • Less equipment and labour needed on site • Optimised purchasing reduces financing and material-management cost • Fabricated bars stored by site and member — lower QC and safety cost	

— CAPACITY

Stockyard capacity - key equipment

The Cheonan HQ plant (site 15,136 m², production floor 6,608 m²) runs shear lines, benders, Schnell coil-processing machines and 10 t / 6 t hoists. See **Plants & Equipment** for the full list.

SD600

3,500 t / month

stockyard capacity

SD500

3,500 t / month

stockyard capacity

SD400

3,000 t / month

stockyard capacity

EQUIPMENT

**7 shears · 10 benders · 2
coil lines**

Double-bender · 7 coupler threading
machines

Rebar stockyard management service STOCKYARD MANAGEMENT

Inventory

- Real-time inventory management system
- Zoned storage and labelling for easy physical checks
- Weighbridge check of every inbound and outbound truck
- First-in, first-out yard layout

Product care

- Ventilation to minimise rusting
- Control of temperature and humidity swings (winter condensation, monsoon humidity)
- FIFO prevents long-term storage

Safety

- Accident prevention during loading and unloading
- Helmets, safety shoes and gloves mandatory
- Regular safety training
- Frequent inspection of hoists and forklifts

Request a fabrication quote

Equipment list

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