



Handan Yongnian District Qianheng Fastener Co., Ltd.

Qianheng Fasteners | Full-Series Formwork Accessories Product Catalog

18 Years of Professional Formwork Accessory Manufacturing
Origin: Yongnian, Handan, Hebei, China

Full-Series Formwork Accessories · Source Manufacturer

Handan Yongnian District Qianheng Fastener Co., Ltd.

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1. Company Profile

Handan Yongnian District Qianheng Fastener Co., Ltd. is located in Yongnian District, Handan City, Hebei Province, known as the Capital of Standard Fasteners in China. With 18 years of experience, the company is a professional manufacturer of the complete range of formwork accessories, certified to ISO 9001 across the full product series, and operates as a source factory integrating casting, machining, thread rolling and surface finishing.

Item	Details
Plant Area	5,000 m²
Monthly Output Value	RMB 3–5 million
Production Staff	50–100 workers
Year-Round Stock Inventory	300+ tonnes
Daily Output	10–20 t of formwork tie rods / 10–30 t of castings
Certification	ISO 9001 (full product series)
Production Equipment	Automatic thread-rolling machines, automatic casting lines, large CNC machining centers and complete production lines
Service Modes	Custom manufacturing to drawings/samples, toll processing, stock supply of the full series

Our plant is equipped with fully automatic thread-rolling machines, automatic casting production lines, large CNC machining centers and complete production lines, enabling full in-house production from raw material to finished product, with a stable daily output of 10–20 tonnes of formwork tie rods and 10–30 tonnes of castings.

As a source manufacturer, we support custom manufacturing to drawings and samples, toll processing with customer-supplied material, and maintain a year-round stock of over 300 tonnes, supplying the full series of formwork accessories for residential, bridge, metro and hydraulic projects.

Core Strength

5,000 m² Plant Area	RMB 3–5 M Monthly Output	10–30 t/day Tie Rods / Castings	300+ t Year-Round Stock
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2. Product Overview

Our product range covers all common accessories of the formwork restraint system. Overview:

No.	Product	Common Sizes	Primary Application
1	Formwork Tie Rod	D15 (Tr17×10) / D20 (Tr22×10), length 100 mm–8 m	Through-wall restraint of formwork against concrete lateral pressure
2	Single-Side Formwork Anchor Bolt	M16–M30	Embedded anchoring of single-side large formwork
3	Butterfly Nut	For D15/D20 tie rods	Quick tightening of walers and formwork
4	Butterfly Nut with Washer	For D15/D20 tie rods	Increased bearing area to prevent local crushing
5	Disc Nut	For D15/D20, disc Ø90–120 mm	Large bearing area for walers/timber beams
6	Mountain Disc Nut	For D15/D20, disc Ø90–120 mm	Self-centering conical face, anti-slip
7	Timber Beam Connector Claw	For H20 timber beams	End-to-end splicing and connection of timber beams
8	Climbing Cone Assembly	M24/M30/M36/M42	Reusable embedded anchor for bridge pier climbing formwork
9	Backing Channel Assembly	Twin [8–12 channels	Main waler of the formwork restraint system
10	Cast Iron Waterstop Nut	For D15/D20 waterstop ties	Waterstop at tie-rod holes
11	Five-Section Waterstop Tie Rod	M12–M18	For architectural concrete walls, removable outer rods
12	Double-Ear Disc Nut	For D15/D20, disc Ø90–120 mm	Fast tightening with ears for large formwork
13	H20 Timber Beam Clamp	For H20 timber beams	Locking timber beams to walers/formwork
14	Connecting Nut	For D15/D20/D25 tie rods	End-to-end tie-rod extension without welding
15	Formwork Adjustable Leg	TR30/TR36/TR40, 100–800 mm range	Precise leveling and support of formwork

Tip: The products above can be combined into a complete formwork restraint system. Detailed technical data and test reports are available on request.

3. Product Details

Detailed introduction and specifications of each product follow.

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Product System Packages

Tie-Rod Restraint Tie rods + butterfly/disc nuts + walers	Waterstop System Five-section ties + cast iron waterstop nuts	Timber Beam System H20 beam clamps + connector claws	Anchor & Embedment Single-side anchor bolts + climbing cones
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Custom to Drawings	Toll Processing	OEM Production	Stock Supply
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3.1 Formwork Tie Rod

Aliases: Through Bolt | Wall Tie | Formwork Tie Bolt | High-Strength Tie Rod



Formwork tie rod (actual product photo)

Specification Table

Model	Thread / Diameter	Length	Material	Surface Finish	Strength Grade
D15	Tr17×10 thread at ends, rod Ø15 mm	100 mm–8 m	45# steel	Black oxide / electro-galv. / hot-dip galv.	Grade 8.8
D20	Tr22×10 thread at ends, rod Ø20 mm	100 mm–8 m	45# / 40Cr steel	Black oxide / electro-galv. / hot-dip galv.	Grade 8.8/10.9

■ Common stock lengths: 0.3/0.5/0.6/0.8/1.0/1.2/1.5/2.0/3.0 m; fully threaded or threaded at both ends; custom lengths to wall thickness.

Features & Advantages

- Roll-threaded on automatic machines with consistent thread accuracy and full thread profile;
- Grade 8.8/10.9 high-strength configuration for reliable tensile performance;
- Three surface finishes available: black oxide, electro-galvanized, hot-dip galvanized;
- Source-factory production with a stable output of 10–20 t/day; stock sizes available, lengths customizable.

Applicable Scenarios

Residential shear walls and columns, bridge piers and capping beams, basement walls, utility tunnels, tunnel linings, architectural concrete walls.

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3.2 Single-Side Formwork Anchor Bolt

Aliases: Side-Wall Formwork Anchor Bolt | Embedded Anchor Bolt | Raker Anchor Bolt



Single-side formwork anchor bolt (actual product photo)

Product Introduction & Application

An anchor bolt embedded in the foundation slab or concrete structure, used to position and anchor the base of single-side formwork systems and to connect rakers/adjustable legs, resisting the lateral thrust during concreting. Widely applied in single-side shoring of basement external walls.

Core Materials & Standards

Q235B carbon steel, Q355B high-strength low-alloy steel; to GB/T 700-2006, GB/T 1591-2018 and GB/T 3098.1-2010.

Specification Table

Model	Thread / Diameter	Length	Material	Surface Finish	Strength Grade
M16	M16, rod Ø16 mm	300–1000 mm	Q235B	Black oxide / electro-galv. / hot-dip galv.	Grade 4.8
M20	M20, rod Ø20 mm	300–1200 mm	Q235B/Q355B	Black oxide / electro-galv. / hot-dip galv.	Grade 4.8/8.8
M24	M24, rod Ø24 mm	400–1500 mm	Q235B/Q355B	Black oxide / hot-dip galv.	Grade 8.8
M30	M30, rod Ø30 mm	400–1500 mm	Q355B	Black oxide / hot-dip galv.	Grade 8.8

■ Available with bent hook or welded anchor plate at the embedded end; locating plates and nuts can be supplied to drawings.

Features & Advantages

Applicable Scenarios

- Accurate embedment positioning and reliable anchorage against lateral thrust;
 - Compatible with single-side formwork raker/adjustable-leg systems;
- Hooks, anchor plates and positioning jigs customizable to drawings;
 - Integrated in-house casting and machining for stable lead times.

Single-side shoring of basement external walls, elevator pits, retaining walls, foundation slabs, mass-concrete side formwork.

3.3 Butterfly Nut

Aliases: Mountain Nut | Wing Nut | Tie-Rod Nut



Butterfly nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (O.D.)	Material	Surface Finish	Strength Grade
DM12	For D12 rod, M12	Ø42 mm, height 24 mm	Cast steel	Black oxide / electro-galv.	Grade 5
DM14	For D15 rod, Tr17×10	Ø46 mm, height 26 mm	Cast steel / ductile iron	Black oxide / electro-galv.	Grade 5/6
DM16	For D20 rod, Tr22×10	Ø50 mm, height 28 mm	Ductile iron	Black oxide / electro-galv.	Grade 6
DM18	For D22 rod, M18	Ø55 mm, height 30 mm	Ductile iron	Black oxide / hot-dip galv.	Grade 6

■ Dimensions shown are standard; custom designs available to drawings. Unit weight approx. 0.18–0.30 kg.

Features & Advantages

Applicable Scenarios

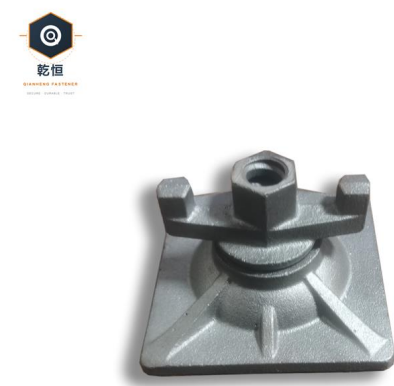
- Fast hammer-driven tightening/removal for high on-site efficiency;
 - Positive clamping action, resistant to loosening;
- Dense cast structure, wear-resistant;
 - Full stock range, bulk supply available.

Residential shear walls, columns, timber/steel formwork restraint, architectural concrete walls.

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3.4 Butterfly Nut with Washer

Aliases: Combined Butterfly Nut | Wing Nut with Flat Washer



Butterfly nut with washer (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (with washer)	Material	Surface Finish	Strength Grade
DP14-D	For D15 rod, Tr17×10	Washer O.D. 55 mm	Cast steel / ductile iron	Black oxide / electro-galv.	Grade 5/6
DP16-D	For D20 rod, Tr22×10	Washer O.D. 65 mm	Cast steel / ductile iron	Black oxide / electro-galv.	Grade 5/6

■ The washer can be cast integral with the nut or riveted; dimensions customizable to drawings.

Features & Advantages

- Integral nut + washer, no loose parts on site;
- Large bearing area, uniform pressure on formwork;
- Same fast operating method as standard butterfly nuts;
- Fits the full D15/D20 tie-rod range.

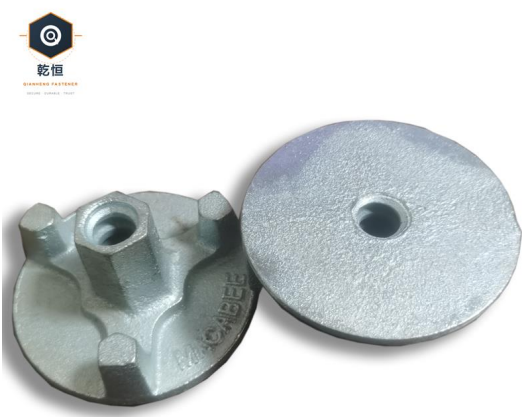
Applicable Scenarios

Shear walls, timber-beam formwork systems, architectural concrete walls, large-panel formwork.

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3.5 Disc Nut

Aliases: Round Disc Nut | Large Disc Nut



Disc nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (disc Ø × t)	Material	Surface Finish	Strength Grade
DP14-90	For D15 rod, Tr17×10	Ø90 mm × 20 mm	QT450-10	Black oxide / electro-galv.	Grade 6
DP14-100	For D15 rod, Tr17×10	Ø100 mm × 22 mm	QT450-10	Black oxide / electro-galv.	Grade 6
DP16-100	For D20 rod, Tr22×10	Ø100 mm × 22 mm	QT450-10	Black oxide / electro-galv.	Grade 6
DP16-120	For D20 rod, Tr22×10	Ø120 mm × 25 mm	QT450-10	Black oxide / hot-dip galv.	Grade 6

■ Disc diameter 90–120 mm as standard; larger diameters available on request.

Features & Advantages

- High-strength ductile iron, impact-resistant;
- Large bearing area distributes load and protects panels;
- Stable cast dimensions and accurate threads;
- Full compatibility with D15/D20 tie rods.

Applicable Scenarios

Residential walls and columns, bridge piers, large-panel formwork, architectural concrete.

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3.6 Mountain Disc Nut

Aliases: Conical Disc Nut | Hill-Type Disc Nut



Mountain disc nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (disc Ø × t)	Material	Surface Finish	Strength Grade
MP14-90	For D15 rod, Tr17×10	Ø90 mm × 20 mm	QT450-10	Black oxide / electro-galv.	Grade 6
MP14-100	For D15 rod, Tr17×10	Ø100 mm × 22 mm	QT450-10	Black oxide / electro-galv.	Grade 6
MP16-100	For D20 rod, Tr22×10	Ø100 mm × 22 mm	QT450-10	Black oxide / electro-galv.	Grade 6
MP16-120	For D20 rod, Tr22×10	Ø120 mm × 25 mm	QT450-10	Black oxide / hot-dip galv.	Grade 6

■ Disc diameter 90–120 mm; the raised-face height can be adjusted to the waler section.

Features & Advantages

Applicable Scenarios

- Self-centering conical face prevents slip;
 - Uniform bearing pressure protects panels and beams;
- Integral cast structure, durable;
 - Fits channel, timber-beam and square-tube walers.
- Residential walls and columns, bridge piers, timber-beam/channel waler systems.

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3.7 Timber Beam Connector Claw

Aliases: H20 Beam Connector | Wood Beam Claw | Beam Splice Claw



Timber beam connector claw (actual product photo)

Specification Table

Model	Timber Beam	Dimension	Material	Surface Finish	Strength Grade
LZ-H20	H20 I-beam (80×200 mm)	190×100 mm, plate t=4 mm	Q235	Zinc-plated	—
LZ-H20-L	H20 I-beam (80×200 mm)	210×100 mm, plate t=5 mm	Q235	Zinc-plated	—

■ Plate thickness and profile can be customized to beam section and load requirements.

Features & Advantages

- Stamped forming for consistent quality and uniform dimensions;
- No welding or drilling; quick to fit and remove;
- Positive grip on the beam profile for reliable connection;
- Reusable on site for many cycles.

Applicable Scenarios

Residential slab formwork, bridge capping beams, timber-beam system splicing, architectural concrete.

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3.8 Climbing Cone Assembly

Aliases: Climbing Cone | Tapered Cone Anchor | Cone Embedment System



Climbing cone assembly (actual product photo)

Specification Table

Model	Thread / Diameter	Assembly Dimension	Material	Surface Finish	Strength Grade
M24	M24, for D15 tie	Cone large end Ø60 mm, length 80 mm	45# steel	Black oxide / zinc	Grade 8.8
M30	M30, for D20 tie	Cone large end Ø75 mm, length 100 mm	45# steel	Black oxide / zinc	Grade 8.8/10.9
M36	M36, for D25 tie	Cone large end Ø90 mm, length 120 mm	45# steel	Black oxide / zinc	Grade 10.9
M42	M42, for D26.5 tie	Cone large end Ø100 mm, length 140 mm	45# steel	Black oxide / zinc	Grade 10.9

■ Full assembly consists of: cone (tapered body) + high-strength loading bolt (threaded rod) + tapered washer/loading nut + anchor base (embedment plate/anchors). Loading bolt length 300–1000 mm, customizable to pier/wall thickness.

Features & Advantages

- High tensile and shear capacity for reliable performance;
- Small, regular holes after striking; clean appearance;
- Full assembly reusable over many cycles for low total cost;
- Accurate embedment positioning and fast installation.

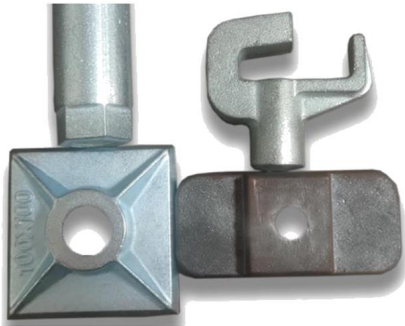
Applicable Scenarios

Bridge high piers and towers, segmental cantilever/form-traveler works, climbing and jump-form systems, heavy equipment foundations.

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3.9 Backing Channel Assembly

Aliases: Waler Assembly | Twin-Channel Waler | Formwork Backing Assembly



Backing channel assembly (actual product photo)

Specification Table

Model	Section	Length	Material	Surface Finish	Strength Grade
BL-2×8#	Twin [80×43×5.0	2/3/4/6 m per piece	Q235B	Painted / zinc	—
BL-2×10#	Twin [100×48×5.3	2/3/4/6 m per piece	Q235B	Painted / zinc	—
BL-2×12#	Twin [120×53×5.5	2/3/4/6 m per piece	Q235B	Painted / zinc	—

■ Supplied with backing channel clamps (cast steel, matching the channel mouth width) and tie-rod clearance holes; holes can be drilled to drawings.

Features & Advantages

- Twin-channel construction for high rigidity and low deflection;
- Rapid clamp connection, quick assembly/disassembly;
- Forms a complete restraint system with tie rods;
- Custom lengths and hole patterns to drawings.

Applicable Scenarios

Shear walls, columns, bridge piers, basement walls, architectural concrete walls.

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3.10 Cast Iron Waterstop Nut

Aliases: Waterstop Nut | Conical Waterstop Nut | Nut with Waterstop Flange



Cast iron waterstop nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (O.D. × waterstop)	Material	Surface Finish	Strength Grade
ZS-M14	For D15 rod, Tr17×10	O.D. 42 mm, waterstop Ø60 mm	Cast iron	Black oxide / zinc	Grade 5
ZS-M16	For D20 rod, Tr22×10	O.D. 46 mm, waterstop Ø70 mm	Cast iron	Black oxide / zinc	Grade 5/6

■ Waterstop dimensions can be customized to the impermeability grade (50×50×5 to 80×80×6 mm).

Features & Advantages

- Integral waterstop wing for a reliable water path;
- Compatible with five-section and standard waterstop tie rods;
- Fast installation and simple on-site operation;
- Designed for waterproof concrete wall construction.

Applicable Scenarios

Basement shear walls, water tanks, tunnels and utility trenches, hydraulic structures requiring waterproofing.

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3.11 Five-Section Waterstop Tie Rod

Aliases: 5-Part Removable Waterstop Tie | Detachable Waterstop Tie Rod



Product Introduction & Application

A waterstop tie rod for architectural concrete walls, composed of two removable outer rods, one middle waterstop inner rod and two connecting nuts (sleeves). After striking, the outer rods are removed and reused, while the inner rod with waterstop plate remains in the wall, delivering both waterproofing and cost savings.

Core Materials & Standards

Inner rod Q235, outer rods Q235B (zinc-plated); to GB/T 700-2006 and GB/T 13912-2020.

Five-section waterstop tie rod (actual product photo)

Specification Table

Model	Thread / Diameter	Length (wall thickness)	Material	Surface Finish	Strength Grade
M12	M12	Wall 200–400 mm, waterstop 50×50×5 mm	Inner Q235 / outer Q235B	Outer rods zinc-plated	Grade 4.8
M14	M14	Wall 200–400 mm, waterstop 50×50×5 mm	Inner Q235 / outer Q235B	Outer rods zinc-plated	Grade 4.8
M16	M16	Wall 200–400 mm, waterstop 70×70×5 mm	Inner Q235 / outer Q235B	Outer rods zinc-plated	Grade 4.8
M18	M18	Wall 200–400 mm, waterstop 70×70×5 mm	Inner Q235 / outer Q235B	Outer rods zinc-plated	Grade 4.8

■ Inner rod length = wall thickness + thread allowance; common walls 200/250/300/350/400 mm; conical or sleeve-type connectors available.

Features & Advantages

- Removable, reusable outer rods reduce total cost;
 - Reliable waterstop plate for architectural concrete walls;
- No protruding rods after striking; clean wall face;
 - Quick coupling nuts for high on-site efficiency.

Applicable Scenarios

Basement walls, water tanks, civil air-defense works, utility tunnels, architectural concrete walls.

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3.12 Double-Ear Disc Nut

Aliases: Double-Ear Disc Clamp | Disc Nut with Ears



Product Introduction & Application

A disc nut with two symmetrical side ears, allowing fast tightening and removal with a special tool or hammer blow. Ideal for large wall/column formwork with high-frequency turnover.

Core Materials & Standards

QT450-10 ductile iron; to GB/T 1348-2019 and GB/T 3098.2-2025.

Double-ear disc nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension (disc Ø × ear)	Material	Surface Finish	Strength Grade
SE14-100	For D15 rod, Tr17×10	Disc Ø100 mm, ear 30 mm	QT450-10	Black oxide / electro-galv.	Grade 6
SE16-110	For D20 rod, Tr22×10	Disc Ø110 mm, ear 32 mm	QT450-10	Black oxide / electro-galv.	Grade 6
SE16-120	For D20 rod, Tr22×10	Disc Ø120 mm, ear 35 mm	QT450-10	Black oxide / hot-dip galv.	Grade 6

■ Disc diameter 90–120 mm; ear geometry can be customized to site practice.

Features & Advantages

Applicable Scenarios

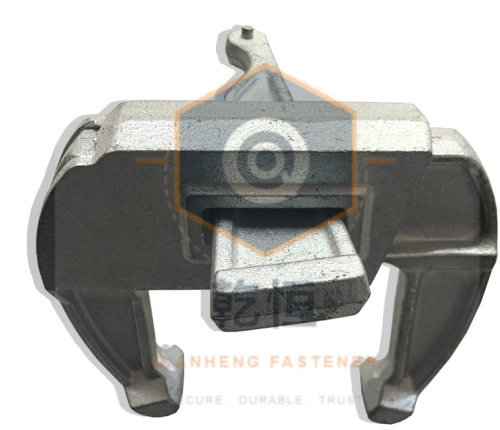
- Ear design for easier tightening and removal;
 - Large bearing area with uniform load distribution;
- Integral cast structure, strong and durable;
 - Suitable for large-panel formwork with high turnover.

Residential shear walls, bridge piers, large wall/column formwork, architectural concrete.

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3.13 H20 Timber Beam Clamp

Aliases: H20 Beam Clamp | Timber Beam Lock | H20 Wedge Clamp



H20 timber beam clamp (actual product photo)

Specification Table

Model	Timber Beam	Dimension	Material	Surface Finish	Strength Grade
H20-CL	H20 I-beam (80×200 mm)	255×70 mm, plate t=4–6 mm	Q235	Zinc-plated	Capacity 10 kN min.

■ Unit weight approx. 1.2–1.8 kg; can be supplied with wedge pins/locking pins; customizable to beam section.

Features & Advantages

- Stamped forming for uniform dimensions and stable quality;
- No welding or drilling; quick to fit and remove;
- Positive locking on H20 beams for reliable capacity;
- Reusable on site for many cycles.

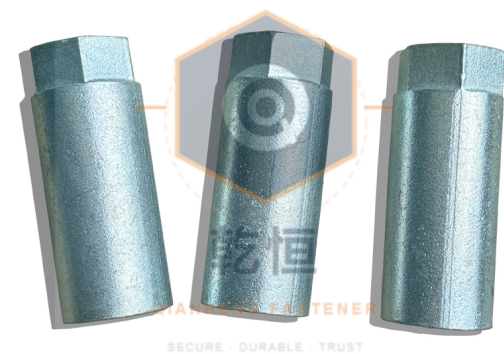
Applicable Scenarios

H20 timber-beam formwork systems, slab and beam formwork, bridge capping beams, wall/column timber formwork.

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3.14 Connecting Nut

Aliases: Coupler Nut | Tie Rod Connector | Sleeve Nut



Connecting nut (actual product photo)

Specification Table

Model	Thread / Diameter	Dimension	Material	Surface Finish	Strength Grade
CN-15	M15 internal	Length 30–45 mm	45# carbon steel	Zinc / HDG	Grade 8.8
CN-20	M20 internal	Length 40–60 mm	45# carbon steel	Zinc / HDG	Grade 8.8
CN-25	M25 internal	Length 50–75 mm	45# carbon steel	Zinc / HDG	Grade 8.8

■ Internal threads at both ends connect tie rods end-to-end; fits D15/D20/D25 tie rods. Standard length is approx. 2–3× thread diameter; custom sizes to drawings. Grade-matched couplers available for high-tension systems.

Features & Advantages	Applicable Scenarios
• End-to-end tie-rod connection without welding for fast site assembly; • Full tensile capacity maintained at the joint for deep walls and thick members; • Precision-machined carbon steel with accurate thread class matching; • Zinc-plated standard, hot-dip galvanized on request; thread protectors supplied.	Deep retaining walls, thick members, tie-rod extension and repair, high wall/column formwork.

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3.15 Formwork Adjustable Leg

Aliases: Adjustable Formwork Leg | Telescopic Support Leg | Leveling Leg



Product Introduction & Application

An adjustable leg with a solid acme-thread spindle for smooth micro-adjustment and stable locking, supplied with base plate or tube options; used for precise leveling and support of slabs, platforms and single-side formwork.

Core Materials & Standards

C45 steel spindle with forged base plate; to GB/T 699-2015 and GB/T 700-2006; zinc-plated, painted or hot-dip galvanized.

Formwork adjustable leg (actual product photo)

Specification Table

Model	Thread / Diameter	Height Range	Material	Surface Finish	Load Capacity
ZT-100	TR30 trapezoidal	100–500 mm	C45 spindle + forged base	Zinc / painted	30 kN max.
ZT-200	TR36/TR40 trapezoidal	200–800 mm	C45 spindle + forged base	Zinc / painted / HDG	30 kN max.

■ Load capacity up to 30 kN per leg (type and height dependent; capacity decreases at maximum extension). Base options: flat plate, swivel base or tube socket. Acme (trapezoidal) thread locks stably; standard V-thread is not recommended for formwork support.

Features & Advantages

- Solid C45 steel spindle with acme (trapezoidal) thread for smooth adjustment and stable locking;
- Fine leveling of slabs and platforms; compatible with prop heads and base jacks;
- Flat plate, swivel or tube-socket base options to match the support system;
- Zinc-plated, painted or hot-dip galvanized finishes for wet environments.

Applicable Scenarios

Slab props, platform formwork, adjustable formwork leveling, single-side shoring leveling.

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4. Construction Site Applications

Our formwork accessories are widely used on residential, bridge, metro and hydraulic construction sites, providing reliable restraint and support for formwork systems.



5. Customization & Processing Services

- Custom manufacturing to drawings/samples: development and production according to customer drawings or samples, with CAD/PDF drawing confirmation, covering castings, machined parts and stamped parts;
- Toll processing: with customer-supplied raw material, we complete thread rolling, casting, machining and surface finishing;
- OEM production: private-label manufacturing, neutral/custom packaging, export wooden case or pallet packaging;
- Customization scope: size and specification, material (45#/40Cr/Q235B/Q355B/QT450-10 etc.), strength grade, surface finish (black oxide/electro-galvanizing/hot-dip galvanizing/painting) and thread form;
- Small-batch trial production and volume supply supported; drawings and data are kept strictly confidential.

Drawings / Samples	Drawing Approval	Sample / Production	Surface Finishing	Packing & Delivery
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6. Inventory & Delivery

- Year-round stock of over 300 tonnes of standard sizes;
- Stock tie rods and other standard items: dispatch same day / within 24 hours;
- Customized products: 3–7 days depending on process; large orders confirmed separately;
- Logistics: nationwide express, freight and full-truck dispatch; export by container with support for inspection and customs documentation;
- Packaging: per contract, supporting neutral packaging, mark customization and export packaging.

Within 24 h Stock items dispatched	3–7 days Customized products	Nationwide Logistics network	Container Export shipping
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7. Contact Information

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Product samples, quotations and test reports available on request; multilingual export service supported.

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