

Tianhao Group Product Catalog

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Tianhao Group is an integrated corporation of three companies: Shandong Tianhao (custom special steel profiles), Shandong Tianhao Precise Engineering (forged, cast, machined and fabricated components) and Jinan Newguanhao International Trade (import and export services).

Special Steel Profiles

Tianhao produces hot rolled, cold drawn and cold rolled special profiles used in automotive, machine tools, construction, linear guide rails, agricultural and many other applications. Profiles can be made from carbon steel, free cutting steel, alloy steel, stainless steel, nickel alloys, high temperature alloys, titanium alloy, brass and copper alloys, with additional heat treatment if required.

Product	Positioning
Hot Rolled Special Profiles	Near net shape sections rolled from your drawing in cross sections up to 7000 mm ²
Cold Drawn Special Profiles	Drawn sections held below 0.05 mm on size with a Ra under 2.5 um surface
Hot Extrusion Special Profiles	Extruded steel sections for shapes that cannot be rolled or drawn
Custom Tailored Special Profiles	One cross section developed with our engineers from drawing to volume production
Linear Guide Rail Profiles	Rail and carriage sections in induction hardening and case hardening steels
Filter Press Stainless Profiles	SUS304 profile sets drawn for filter press plates and frames
Splined Shaft Profiles	Splined sections in quenched and carbon steels for agricultural power transmissions
T-Nut Profiles for Machine Tables	Cold drawn T sections for CNC machine tables and telescopic steel curtains
Telescopic Slideway Profiles	U shaped sections for cursors and slideways with or without ball bearing housings
Tool Steel Profiles	Hexagon octagon and flat sections for chisels punches keys scrapers and files
Seal Ring Profiles for Pipe Fittings	Square edged martensitic stainless sections for seal ring inserts
Pump Shaft Stainless Profiles	Austenitic and martensitic stainless sections for submersible pump shafts
Steel Clutches for Pipe Piles	Interlock sections welded to tubular piles for combined wall systems
Agricultural Beater Bar Profiles	Hot rolled beater bars ploughshare sections and h9 flats for farm machinery

Forged Steel Components

Shandong Tianhao Precise Engineering supplies custom engineered forged, cast, machined and fabricated components in carbon and low alloy steels, tool steels, medium alloy steels, aluminium, titanium, stainless steels and superalloys. Our CNC machining centre includes a 5-axis machine and can handle large components. One stop shopping covers forging or casting, heat treatment, machining and fabrication.

Product	Positioning
Open Die Forgings	Rings discs blocks and shafts forged in carbon alloy tool and stainless steels
Seamless Rolled Rings	Rolled rings for gears bearings flanges and tooling in alloy and stainless grades
Forged Step Shafts	Stepped shafts gear shafts and spline gear shafts forged in alloy steel
Machined Shafts and Rollers	Finish machined shafts and rollers delivered ready to fit
Kiln Tires and Kiln Rollers	Large kiln tires rollers trunnions and pinions for rotary equipment

Mill Rolls	Forged rolls and mill rolls machined to the pass profile you run
Crane Wheels	Forged and machined crane wheels for handling equipment
Wind Power Gear Rings	Forged rings for wind turbine gears in case and through hardening grades
Wind Power Flanges	Tower flanges and transmission tower flanges forged for the life of the structure
Wind Power Main Shafts	Forged main shafts couplings and bearing blanks for turbine drivetrains
Forged Flanges	Flanges rolled rings and discs for pumps valves wellheads and pressure equipment
Oil and Gas Forgings	Custom forgings for wellheads valves risers manifolds and fluid ends
Gears and Pinions	Forged gear and pinion blanks in 42CrMo4 and case hardening alloys
Mining and Construction Forgings	Forgings for wheel loaders excavators shovels mining trucks and graders
Forged Blocks and Discs	Blocks discs blanks and forged hollows for tooling and equipment builders
CNC Machined Forgings	Forgings and castings finish machined on a 5-axis CNC centre
Castings	Cast components supplied machined and heat treated alongside our forgings
Automotive Forged Parts	Crankshafts connecting rods knuckles ring gears hubs and steering arms
Impellers and Rotating Components	Impellers casings heads and rotor components for compressors and turbines
Aerospace Forgings	Superalloy and titanium forgings for rotorcraft jet engines and aerostructures
Semiconductor Aluminium Forgings	Aluminium forgings for processing equipment with dimensional stability requirements

Stainless Steel

One stop solution producer of special profiles in stainless steel. Send CAD or SolidWorks drawings and we finish the whole job, with free samples for inspection and testing before the main run. Coil, sheet and tube are supplied in ASTM, JIS and EN standards across the 200 to 400 series.

Product	Positioning
Stainless Steel Coil and Sheet	Cold rolled hot rolled and copper coated stainless coil in 200 to 400 series
Stainless Steel Tube and Pipe	Stainless tube and pipe supplied with the coil and profile programme
Stainless Steel Special Profiles	Custom stainless sections drawn from CAD or SolidWorks drawings

Tube Profiles

Custom tailored special shape tube profiles for many different needs, including D section, triangle shape, oval shape, hexagonal tube and other cross sections. Send CAD drawings with detailed requirements and we handle the full job and deliver on schedule.

Product	Positioning
Custom Shape Steel Tube Profiles	D section triangle oval and hexagonal tube in stainless and carbon steel
Carbon Steel Tube Profiles	Carbon steel tube profiles including C45 sections for machinery duty