



Haoyuan Special Steel

HAOYUAN SPECIAL STEEL

Special Steel Supply Catalog

Ready stock + mill-order production for mold makers, tool steel buyers, steel distributors and industrial manufacturers.

Family-owned since 2004



Company Profile

A family-owned special steel supplier built for practical industrial purchasing.

- Founded in 2004 with long-term focus on special steel supply.
- Strategic cooperation with major Chinese steel mills.
- Supply model combines ready stock and mill-order production.
- Guangdong warehouse and Hubei supply base support regional flow.

2004

family-owned origin

3

supply locations

Production + Stock

supply mode



Development Timeline

Haoyuan Special Steel Development Timeline

From regional steel supply to an integrated special steel supply platform.



From a family-owned trading foundation to a multi-location supply platform serving export buyers.

Group Structure

Haoyuan Special Steel Organization Structure

External brand supported by specialized operating companies, warehouses, Hubei supply base and export resources.

HAOYUAN SPECIAL STEEL China Special Steel Group

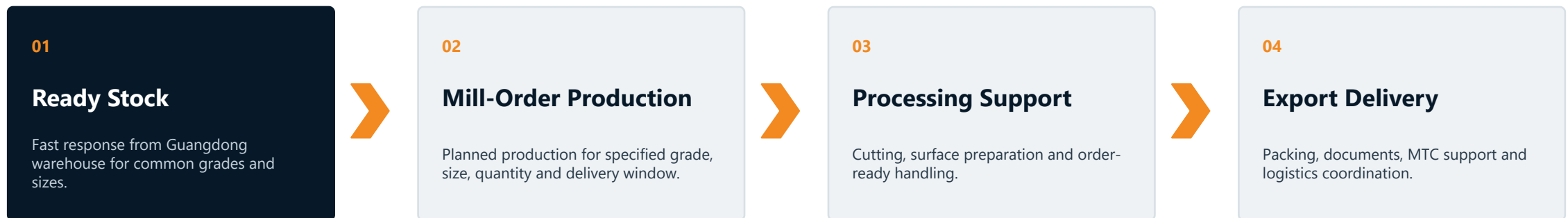


Supply Model: Ready Stock + Mill-Order Production + Processing & Packing Upon request + Export Delivery

multiple operating resources, coordinated for grade matching, stock, documents and shipment.

Supply Model

Two sourcing paths, one controlled buyer workflow.



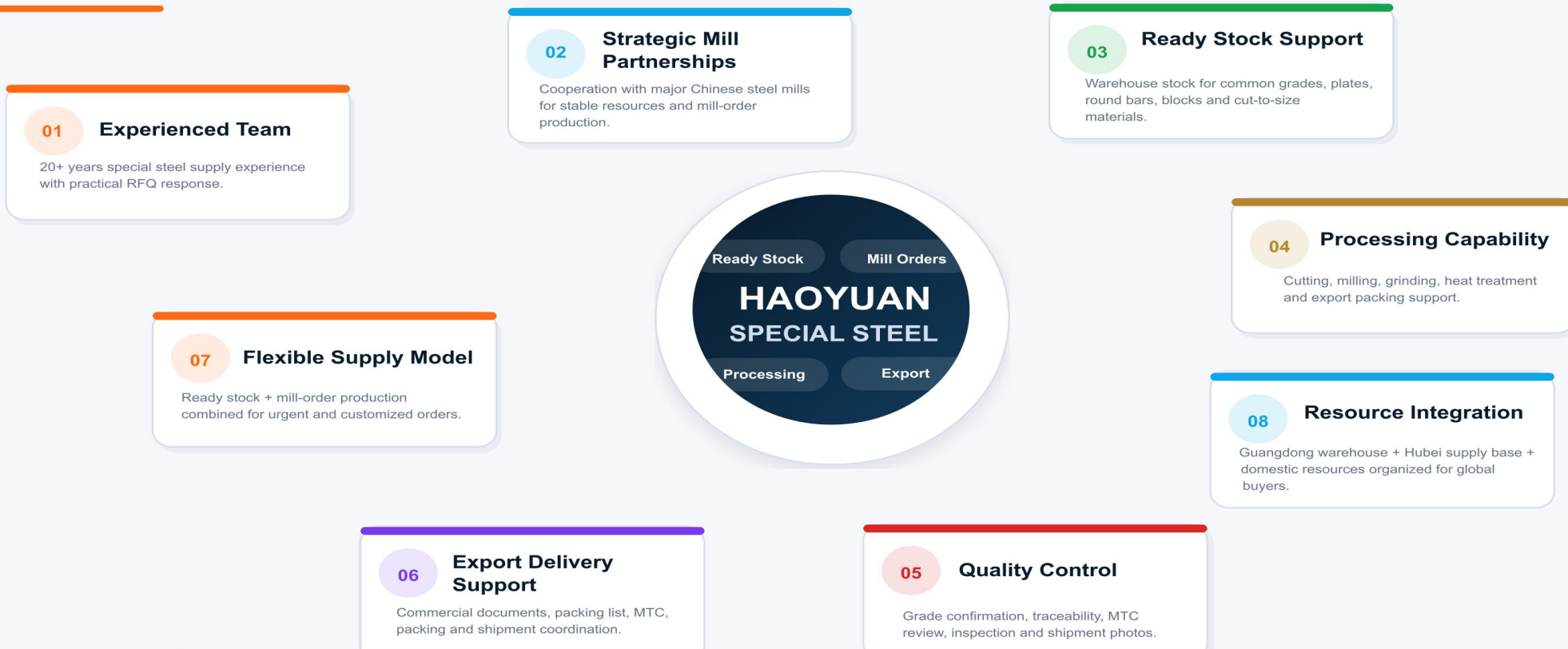
BUYER BENEFIT

Standard products move quickly; project orders stay aligned with mill resources and export deadlines.

Our Strengths

Why Work With Haoyuan Special Steel

Strong supply organization · strategic mill resources · ready stock · processing · quality documents · export delivery



Result: faster quotation, reliable grade matching, stable material sourcing and lower purchasing risk for global buyers.

Product Families Overview

Core families for toolmaking, molding, machinery and distribution stock.

Hot Work Tool Steel

H13 / 1.2344 / 8407 type supply for die casting, extrusion and hot forming.

Cold Work Tool Steel

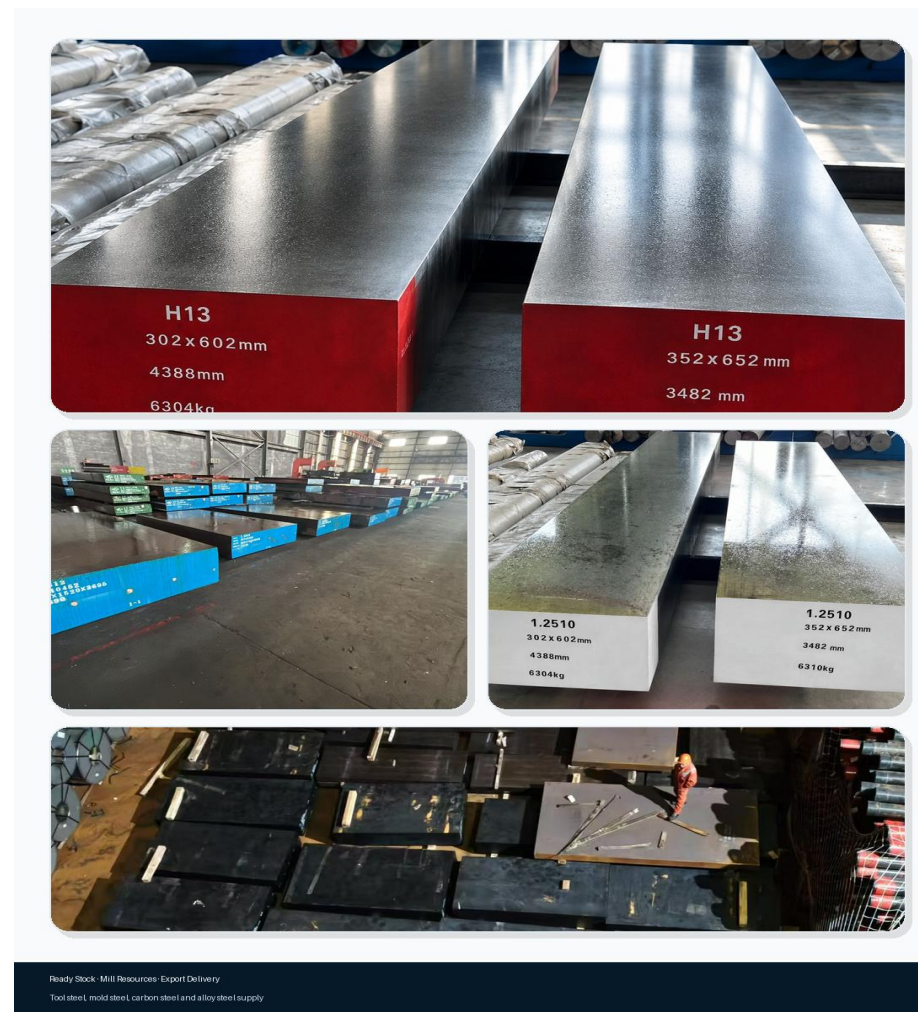
D2 / 1.2379 / SKD11 type supply for cutting, forming and wear parts.

Plastic Mold Steel

P20 / 1.2311 / 718 type supply for injection mold and tooling use.

Carbon / Alloy / Bearing

Industrial grades for machinery, shafts, bearings and general engineering.



Ready Stock | Mill Resources | Export Delivery
Tool steel, mold steel, carbon steel and alloy steel supply

Hot Work Tool Steel

Equivalent Grades · Supply Forms · Typical Applications

For die casting dies, hot forging dies, extrusion tools, hot stamping dies and high-temperature tooling applications.

Main Grade	DIN / W.Nr.	JIS	GOST / Russia	GB / China	Supply Forms	Typical Applications
H13	1.2344	SKD61	4X5MΦ1C	4Cr5MoSiV1	Plate, round bar, block, cut-to-size	Die casting dies, extrusion tools, hot forging dies
H11	1.2343	SKD6	4X5MΦC	4Cr5MoSiV	Plate, round bar, block	Hot work dies, forging dies, pressure casting tools
H10	1.2365	SKD7	3X3M3Φ	3Cr3Mo3V	Plate, round bar, block	Hot work tooling, high thermal fatigue applications
1.2367	1.2367	—	—	—	Plate, block, round bar	Premium hot work tooling, die casting, extrusion
H21	1.2581	SKD5	3X2B8Φ	3Cr2W8V	Plate, block, round bar	Hot forming dies, copper alloy extrusion, hot punches
L6 / SKT4	1.2714	SKT4	5XHM	5CrNiMo	Plate, block, round bar	Hammer dies, forging dies, heavy-duty hot work tools
8418	—	—	—	—	Plate, block	Die casting and hot work tooling
8407	—	—	—	—	Plate, block	Premium hot work die steel
1.2085	1.2085	—	—	—	Plate, block	Corrosion-resistant mold and hot work support applications

Haoyuan Special Steel supplies hot work tool steel with ready stock resources, mill-order production, cutting, quality documents and export delivery support.

Cold Work Tool Steel

Equivalent Grades · Supply Forms · Typical Applications

For cutting dies, stamping dies, punches, knives, forming tools and wear-resistant tooling applications.

Main Grade	DIN / W.Nr.	JIS	GOST / Russia	GB / China	Supply Forms	Typical Applications
D2	1.2379	SKD11	X12MΦ	Cr12Mo1V1	Plate, round bar, flat bar, block	Cutting dies, stamping dies, wear-resistant tooling
D3	1.2080	SKD1	X12	Cr12	Plate, round bar, block	Cold cutting dies, punches, shear blades
D6	1.2436	SKD2	X12BM	Cr12W	Plate, round bar, block	High-wear cold work tools, forming dies
O1	1.2510	SKS3	9XBΓ	9CrWMn	Plate, round bar, flat bar	Oil-hardening tools, gauges, cutting tools
DC53	—	DC53	—	Cr8Mo2VSi	Plate, round bar, block	Precision dies, punches, cold work tooling
Cr12MoV	—	—	X12MΦ	Cr12MoV	Plate, round bar, block	Cold work dies, forming tools, punches
Cr8	—	—	—	Cr8	Plate, block	Cost-effective cold work die steel
A2	1.2363	SKD12	—	Cr5Mo1V	Plate, round bar	Air-hardening cold work tools
S7	1.2355	—	4X4BMΦC	4Cr4MoSiV	Plate, round bar, block	Shock-resistant tools, punches, chisels
HMD5	—	—	—	7CrSiMnMoV	Plate, block	Cold work tooling and wear-resistant components

Haoyuan Special Steel supplies cold work tool steel with stock resources, cut-to-size service, quality documents and export delivery support.

Plastic Mold Steel

Equivalent Grades · Supply Forms · Typical Applications

For plastic injection molds, mold bases, precision mold components and corrosion-resistant tooling applications.

Main Grade	DIN / W.Nr.	AISI / Common	JIS / Other	GB / China	Supply Forms	Typical Applications
P20	1.2311	P20	—	3Cr2Mo	Plate, block, flat bar	Plastic molds, mold bases, general mold components
P20+S	1.2312	P20+S	—	3Cr2Mo+S	Plate, block	Free-machining plastic mold steel
718H / P20+Ni	1.2738	718H / P20+Ni	—	3Cr2MnNiMo	Plate, block	Large plastic molds, automotive molds, pre-hardened molds
420 / 4Cr13	1.2083	420	SUS420J2	4Cr13 / 40Cr13	Plate, round bar, block	Corrosion-resistant plastic molds, transparent plastic molds
1.2316	1.2316	—	—	4Cr16Mo	Plate, block	Corrosion-resistant plastic molds
NAK80	—	NAK80	—	10Ni3MnCuAl	Plate, block	Mirror-polish plastic molds, precision molds
440C	—	440C	—	9Cr18Mo	Plate, round bar	High-hardness stainless mold parts, wear-resistant components

Haoyuan Special Steel supplies plastic mold steel with ready stock, cut-to-size service, quality documents and export delivery support.

Carbon Steel · Alloy Structural Steel · Bearing Steel

Equivalent Grades · Supply Forms · Typical Applications

For mold bases, shafts, gears, machinery parts, bearing components and general industrial applications.

Family	Main Grade	DIN / EN	AISI / SAE	JIS	GB / China	Supply Forms	Typical Applications
Carbon Steel	S45C	C45	1045	S45C	45 / 45#	Plate, round bar, flat bar, block	Mold bases, shafts, machinery parts
Carbon Steel	S50C	C50	1050	S50C	50 / 50#	Plate, round bar, flat bar, block	Mold plates, machine components, fixtures
Carbon Steel	S55C	C55	1055	S55C	55 / 55#	Plate, round bar, flat bar, block	Higher-strength carbon steel plates, mold base parts
Alloy Structural Steel	4140	42CrMo4	4140	SCM440	42CrMo	Plate, round bar, block	Shafts, gears, machinery components
Alloy Structural Steel	4340	34CrNiMo6	4340 / EN24	SNCM439	40CrNiMoA	Round bar, plate, block	Heavy-duty shafts, gears, high-strength components
Alloy Structural Steel	20CrNiMo5	20CrNiMo5	—	—	20CrNiMo	Round bar, forging, plate	Gears, shafts, carburized parts
Alloy Structural Steel	15CrMo	13CrMo4-5	—	—	15CrMo	Plate, round bar	Heat-resistant pressure and machinery components
Alloy Structural Steel	40Cr	41Cr4	5140	SCr440	40Cr	Round bar, plate	Shafts, bolts, machine parts
Bearing Steel	100Cr6	1.3505	52100	SUJ2	GCr15	Round bar, plate, flat bar, block	Bearings, rollers, balls, precision wear parts

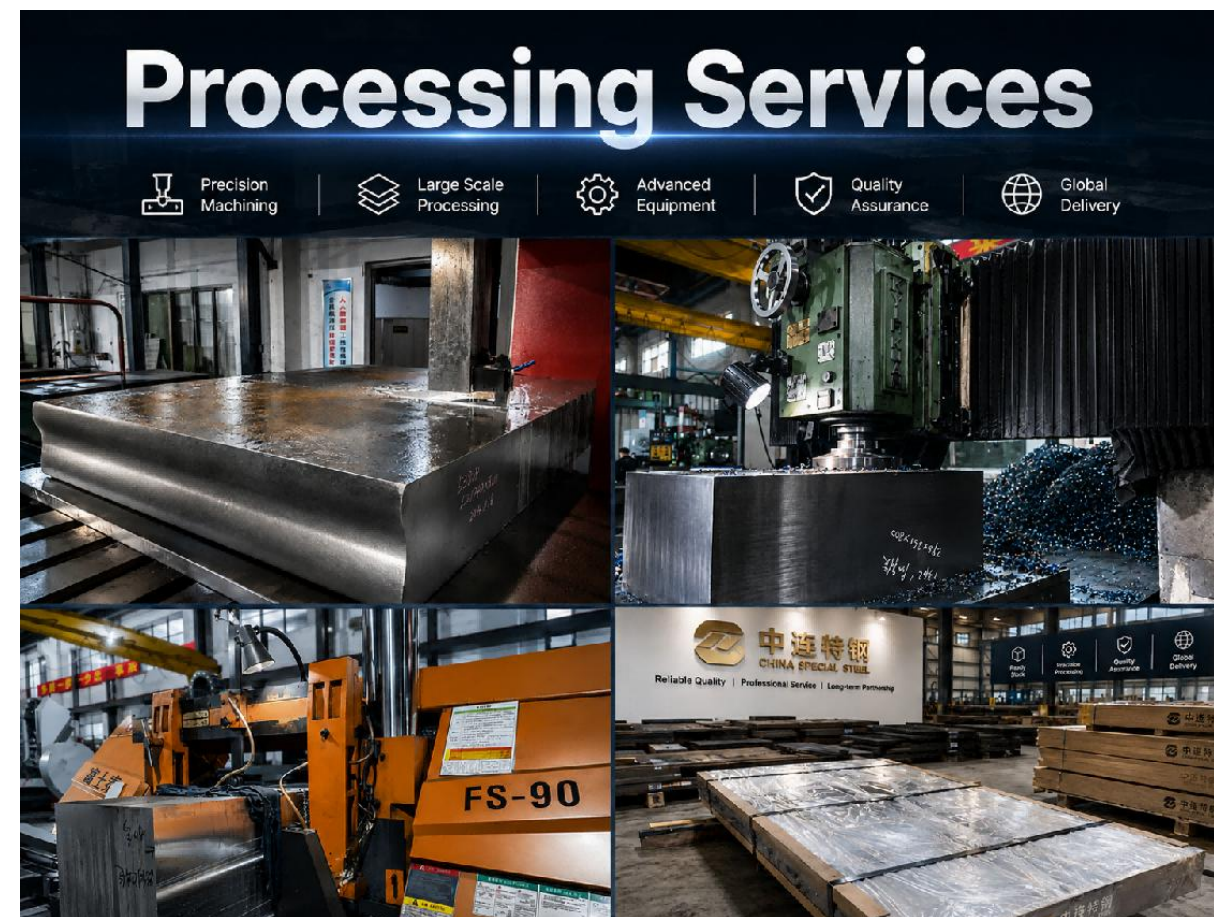
Haoyuan Special Steel supplies industrial steel grades with stock resources, mill-order production, cutting, quality documents and export delivery support.

Processing Services

Processing support makes steel easier to receive, allocate and machine.

Service	Buyer value
Cut to size	Reduce handling and first-stage machining time
Surface preparation	Support inspection and downstream processing
Bundling & marking	Grade, size and heat details remain visible
Packing support	Prepare orders for export movement

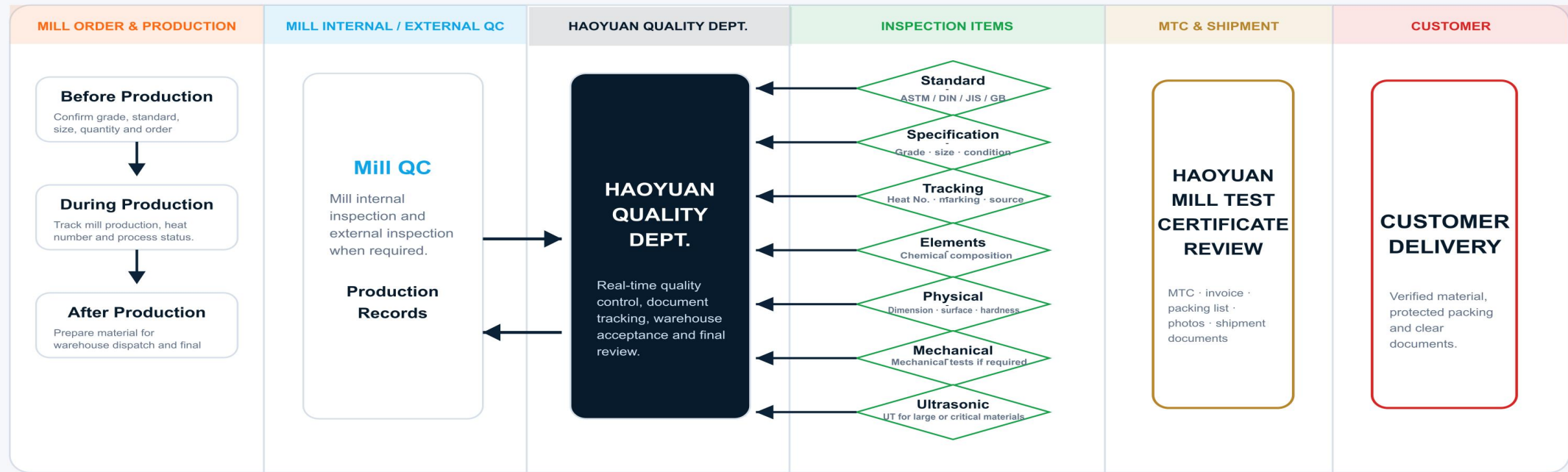
Services depend on grade, size and order requirements.



Quality Control Flow

Haoyuan Quality Control Flow

From mill order confirmation to production tracking, warehouse acceptance, MTC review and customer delivery.



Result: mill production is tracked, Haoyuan warehouse acceptance is completed, documents are reviewed, and materials are delivered with lower purchasing risk.

Quality focus: grade accuracy · traceability · composition · dimensions · testing · MTC · packing · shipment support

Testing Equipments



中连特钢

CHINA SPECIAL STEEL

HAOYUAN TESTING EQUIPMENTS

ACCURATE TESTING • RELIABLE RESULTS • QUALITY ASSURED



XRF Analyzer
Rapid and accurate chemical composition analysis for incoming materials.



PMI Analyzer
Positive Material Identification to ensure material grade conformance.



Ultrasonic Flaw Detector
Detect internal defects and ensure soundness of plates, bars and forgings.



Hardness Tester (Portable)
On-site hardness testing for quick and reliable results.



Rockwell Hardness Tester
Precise hardness testing to guarantee material performance.



Metallurgical Microscope
Microstructure observation and metallographic analysis.



Image Analysis System
Advanced image analysis for accurate evaluation and reporting.



QUALITY FIRST
Strict inspection at every step



ADVANCED EQUIPMENT
Professional instruments for accurate results



EXPERIENCED TEAM
Skilled engineers ensure reliable testing



COMPLETE REPORTS
Provide detailed test reports and certifications



CUSTOMER TRUST
Your reliable partner in special steel

Inspection support focuses on matching order requirements, material traceability and MTC documentation.

Stock & Warehouse Capability



Guangdong warehouse keeps common demand close to export buyers.

- Ready stock for selected tool steel and industrial steel grades.
- Block, round bar and plate handling for mixed buyer requirements.
- Hubei supply base expands mill-linked sourcing options.
- Export-oriented packing and order identification support.

Supply model

Stock orders move fast; non-stock specifications are routed through mill-order production.

Export Support

Clear documents, clear packaging, clear handoff.

Export item	Support focus
MTC	Material test certificate support based on supplied material
Packing	Steel protected and identified for long-distance delivery
Documents	Commercial and logistics paperwork coordination
Delivery	Forwarder and loading coordination for export orders

Export Support

Bulk Cargo • Full Container • LCL Shipment



Flexible
Bulk or Container



Global Reach
Worldwide Delivery



Secure Packing
Safe & Reliable



Export Expertise
Smooth Process



One-stop Service
From Factory to Port




BULK SHIPMENT
Professional loading for steel plates, pipes, and long products. Safe and secure for ocean transportation.



FULL CONTAINER
FCL service with optimized space utilization to ensure cargo safety and on-time delivery to your destination.



LCL SHIPMENT
LCL solution for smaller orders. Consolidation, careful packing, and efficient shipping to reduce your costs.



NO MATTER BULK, CONTAINER OR LCL – WE DELIVER YOUR STEEL, ANYWHERE IN THE WORLD.
Reliable • Efficient • Professional

special steel supply

Core Values

Core Values

The principles behind our special steel supply, quality control and long-term customer cooperation.

R

Reliability

Stable supply, clear response and responsible delivery for every order.

I

Integrity

Honest grade confirmation, traceable documents and transparent communication.

E

Expertise

Deep understanding of tool steel, mold steel and China's special steel supply chain.

P

Long-Term Partnership

Family-owned responsibility, customer trust and cooperation beyond one transaction.



Built on trust: reliable materials, honest communication, professional supply expertise and long-term responsibility.

Why Buyers Choose Haoyuan

A practical supply partner for buyers who need steel, processing and delivery discipline.

Family-owned since 2004

Stable relationship model and long-term steel focus.

Mill cooperation

Strategic cooperation with major Chinese steel mills.

Stock + production

Ready stock plus planned mill-order production.

Regional capability

Guangdong warehouse and Hubei supply base.

Processing support

Cutting, surface and export-ready handling.

Document support

MTC and export delivery coordination.

For mold makers, tool steel buyers, distributors and industrial manufacturers.



Haoyuan Special Steel

Contact Us

Haoyuan Special Steel

Special steel supply for tool steel, mold steel, carbon steel, alloy steel and bearing steel buyers.

Guangdong warehouse
Hubei supply base
Ready stock + mill-order production
MTC and export delivery support

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CHINA SPECIAL STEEL

Advanced Facility Reliable Supply

Modern Production Base • Efficient Operations
Strict Quality Control • Global Trusted Partner



Large Scale
Production Base



Strict Quality
Control



Efficient
Operations



Global
Service Network

