



# JIANGSU YONGYI FASTENER CO., LTD

## JIANGSU YONGYI FASTENER CO., LTD

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### MARKETING CENTER

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MAKE COMPONENT CONNECTIONS  
MORE SECURE  
MAKE ENTERPRISE EMPLOYEES  
MORE HAPPIER



## COMPANY PROFILE

We are a national high-tech enterprise specializing in the research, development and manufacture of high-quality bolt assembly and high-quality hot forging fasteners.

The company covers an area of more than 60,000 square meters, with an annual production capacity of more than 70,000 tons of high-quality fasteners, and has provided customers with a total of 2,000,000+ tons of bolt assembly and 2,000,000+ tons of hot forging fasteners. The founder and the core team of the company have more than 30 years of experience in the industry, and with continuous technological innovation, they have been promoting the progress of the industry. The company cooperates closely with many famous universities to explore the frontiers of fastener manufacturing technology, and has been awarded more than 100 patents for technology research and development.

The company adheres to the principle of independent R&D and production, and produces all the bolt assembly from bolts, nuts to washers in-house and strictly controls the product quality to ensure that the quality of each set of bolt assembly is consistent. Hot forging fasteners are produced independently, from forging, to the crucial heat treatment process, to the final coating, each step is carefully controlled. With our mature technology and rich experience, we are able to produce a variety of shaped fasteners to fully meet the needs of different customers.

The company is one of the first enterprises in China to be awarded ISO9001, ISO45001, ISO14001 certificates as well as CNAS national laboratory certification. Meanwhile, the company has also won a number of honors such as Jiangsu Province Specialized and Specialized New Enterprises, Jiangsu Province Engineering Research Center and so on. As a member unit of the National Tightening Standards Committee and a member unit of multiple industry associations, Jiangsu Yongyi actively participates in the formulation and promotion of national industry standards and contributes to the healthy development of the industry.

The company adheres to the corporate mission of “make component connections more secure, make employees happier” , advocates the corporate values of “insist on concentration, insist on innovation, insist on integrity, insist on altruism” , and the corporate culture of “being the first” . We always lead the industry innovation and development, and work together with customers to create high-quality fasteners.

Factory area occupied  
60000 m<sup>2</sup>

Annual production capacity  
70000 t

Technical accumulation  
35+ yr

EU anti-dumping tax rate  
22.1%

# YONGYI BELIEF



## Corporate Mission



Make component connections more secure  
Make enterprise employees more happier

## Corporate Vision

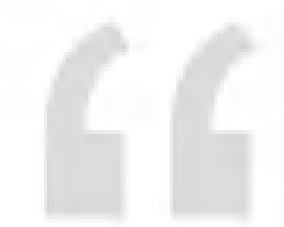


Becoming a globally renowned brand high quality bolt assembly  
Become a globally renowned brand of high-quality hot forging fasteners

## Corporate Values



Adhere to focus      Adhere to innovate  
Adhere to integrity      Adhere to altruism



Thirty years ago, when the founder of Yongyi set up a fastener enterprise, he had a noble wish in mind — R&D and design fasteners to ensure safe connection of components, for the happy life of employees, for the harmonious and sustainable development of society to contribute entrepreneurial strength.

Thirty years of trials and hardships, Yongyi always adhere to the original heart, with the mission of "Make component connections more secure, Make enterprise employees more happier", committed to creating high-quality fasteners to guard every bolt connection scene. This adherence is the commitment and action of all staff unity of knowledge and action of the company, but also the responsibility for social responsibility.



# YONGYI MANIFESTO

## BE THE FIRST

To be the first in connection high security

Technology drives innovation, quality witnesses progress

Innovate every moment, progress every day

To be the first in own work and achieving colleagues

Assist customers to be the first and lead the industry



# YONGYI FIRST LIST

The first company to actively respond and win in the EU anti-dumping investigation

The first application of large-scale bolt fully automatic hot forging equipment

The first application of cold heading production without phosphating process

The first application of large-scale bolt necking machine equipment

The first application of large-size bolt stress relief process

The first to apply 5S management in fastener manufacturers

The first application of fastener hot dip zinc production automatic line

The first application of nut lubrication technology with adjustable assembly friction coefficient

The first to independently produce all combinations of bolts, washers, and nuts

The first application of bolt production without acid washing process throughout the entire process

The first application hexagon bolt head automatic head chamfering machine

The first fastener inspection application laboratory to pass the national certification

The first application of domestic heat treatment automatic line

The first application of fastener Low-temperature black dyeing technology

More firsts are still in continuous innovation

# MANUFACTURED IN YONGYI DIGITIZATION & INTELLIGENTIZATION

Yongyi takes the lead in the digital and intelligent transformation of the workshop, using customized automation equipment, industrial software, integrating Yongyi's core technology with intelligent manufacturing to achieve lean production of bolts, nuts, and washers throughout the entire process, the production capacity of high-quality fasteners can reach over 60000 tons per year.



## HOT FORGING AUTOMATED PRODUCTION LINE

Independently developed advanced automatic hot forging lines, featuring round-coil heating with extended heating length and optimized R-angle design. By precisely controlling the heating and forging start temperatures, and eliminating water cooling during forming, effectively minimize the risk of forging failure throughout the process.



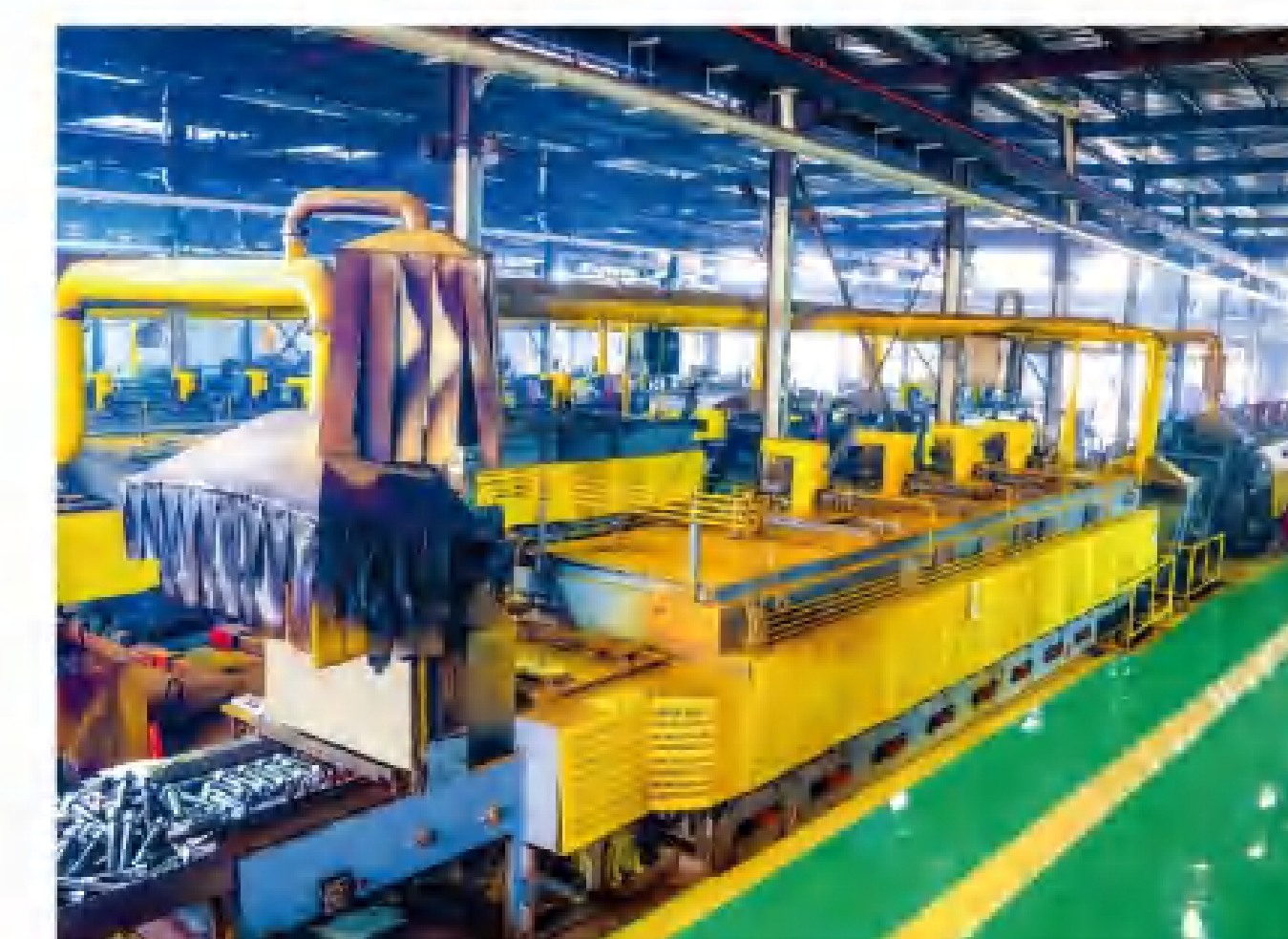
## COLD FORGING AUTOMATED PRODUCTION LINE

At normal temperature, the cold forging bolt and cold forging nut can be formed once. Less raw material loss in the production process, high production efficiency, energy saving and environmental protection.



## HOT DIP GALVANIZED AUTOMATED PRODUCTION LINE

Independently complete the hot dip galvanized production of all products, strictly implement the ISO 10684 standard and digitally control the entire process of hot galvanized, at present, five hot galvanized automated lines are configured to realize automated production and improve hot dip galvanized quality control.



## HEAT TREATMENT AUTOMATED PRODUCTION LINE

Having 6 continuous heat treatment mesh belt furnaces, strictly implement CQI-9 control management to ensure uniform and stable mechanical properties of quenched and tempered products.



## ROLLING AUTOMATED PRODUCTION LINE

Automated loading and unloading, high production efficiency, stable output.

# MANUFACTURED IN YONGYI INNOVATION & TECHNOLOGY

Bolts, nuts, and washers are all independently produced, implement effective batch control while ensuring the precision fit of bolts, nuts, and washers, improve the stability of assembly parts adaptability test.



## PHOSPHATE FREE PRODUCTION

Improved material lubrication process, realizing material transformation and phosphorus-free production, effectively avoid the risk of fastener phosphorus embrittlement caused by phosphate.



## NO ACID WASHING PROCESS

Replacing traditional acid washing process with shot blasting process, material treatment, surface treatment without pickling, avoid the risk of hydrogen embrittlement caused by pickling.



## HOT DIP GALVANIZED NUT ONE-TIME TAPPING

All hot dip galvanized nuts, the thread is one-time tapped after hot dip galvanized, effectively improve the nut thread strength, avoiding nut detachment caused by secondary thread retraction.



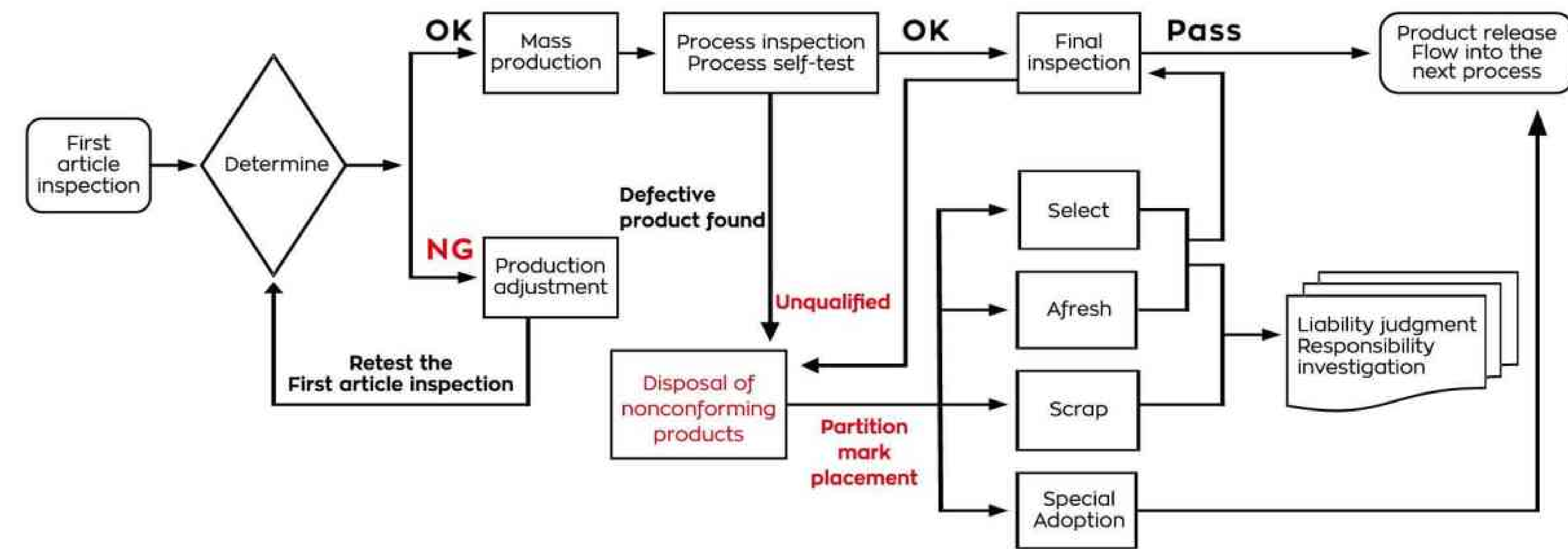
## NUT PRE-COATING PROCESS

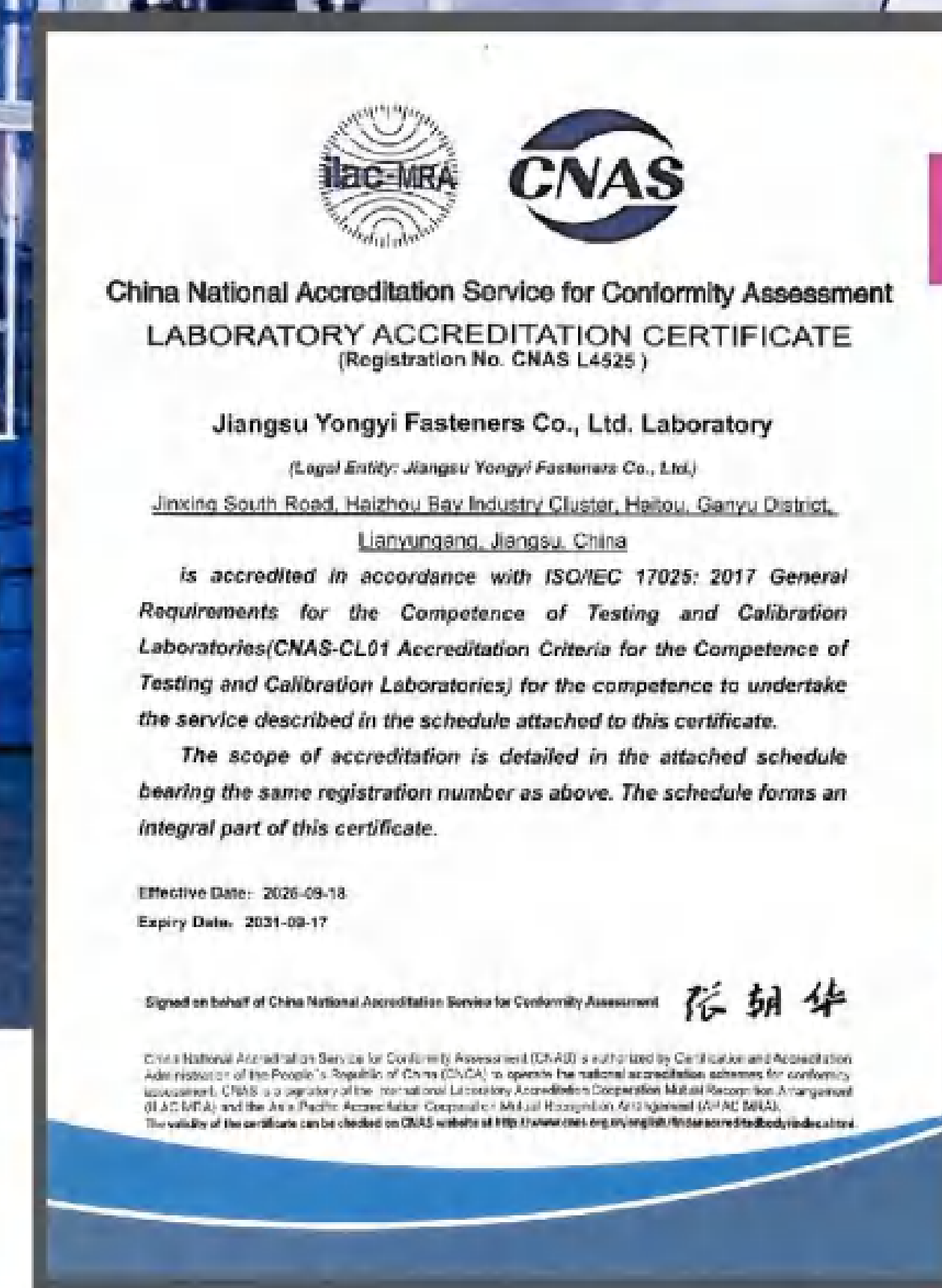
Independently developed coating line, simultaneously adopting advanced molybdenum disulfide pre-coating technology, and coating the nut, torque factor K is controlled at 0.115-0.135, not only the requirements of adaptability test are realized, but also the washer without pre-coating is realized, avoiding the problem of fastening failure caused by washer rotation during use.



# QUALITY MANAGEMENT

- The quality control team strictly controls every production process
- Each batch of Assembly parts has passed the strict test of standardized quality inspection process
- Established an authoritative national CNAS laboratory system
- Each batch of products is fully compensated and guaranteed by Pacific Insurance





## R&D CENTER LABORATORY

We have a national level CNAS laboratory, have the professional technical ability of testing service.

The main experimental equipment includes:

Metallographic microscope, microhardness tester, optical surface rockwell hardness tester, micro-controlled electro-hydraulic servo universal testing machine (30T/100T/200T/400T), charpy projector, high strength bolt assembly parts torque coefficient test bench (axial force), more than 60 devices such as programmable salt spray test chamber, it can carry out tensile test, hardness test (Brinell/Rockwell/Vickers), impact test, wedge load test, decarbonization test, fastening axial force test, torque coefficient test, adaptability test and other dozens of tests.

The test report issued by the company holds the CNAS certification and is authoritative, independent, impartial, technical, normative, unified, international and other characteristics, and is recognized by 58 organizations around the world.



Establishment standard laboratory

ISO/9001  
IEC17025



# YONGYI SYSTEM CERTIFICATION

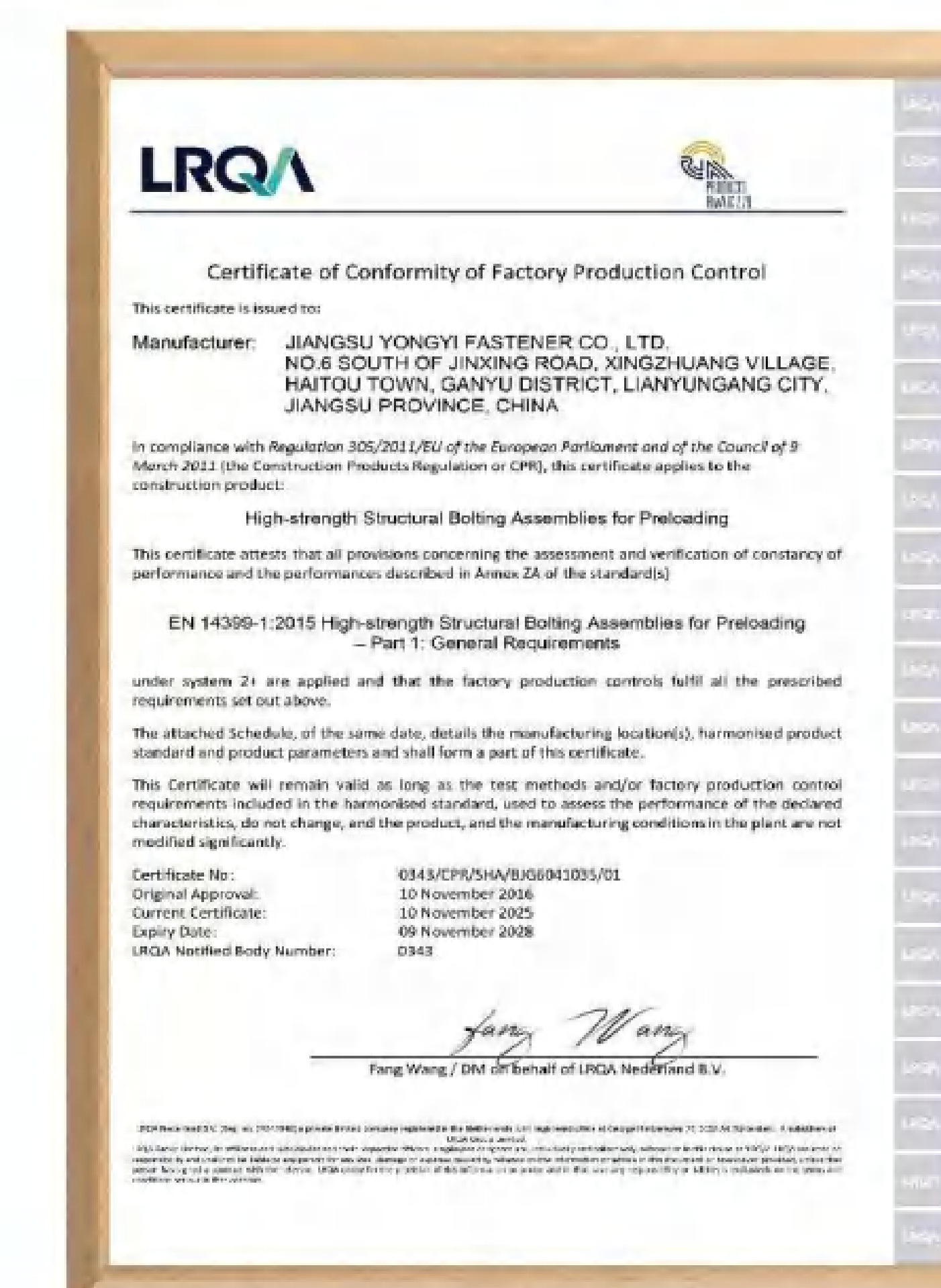
# YONGYI PRODUCT CERTIFICATION



LABORATORY ACCREDITATION CERTIFICATE (ISO/IEC 17025)



QUALITY MANAGEMENT (ISO 9001)



EN14399-CE



EN15048-CE



ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE (ISO 14001)



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE (ISO 45001)



EN14399-UKCA



EN15048-UKCA

# YONGYI PRODUCT CERTIFICATION



JIS B 1180



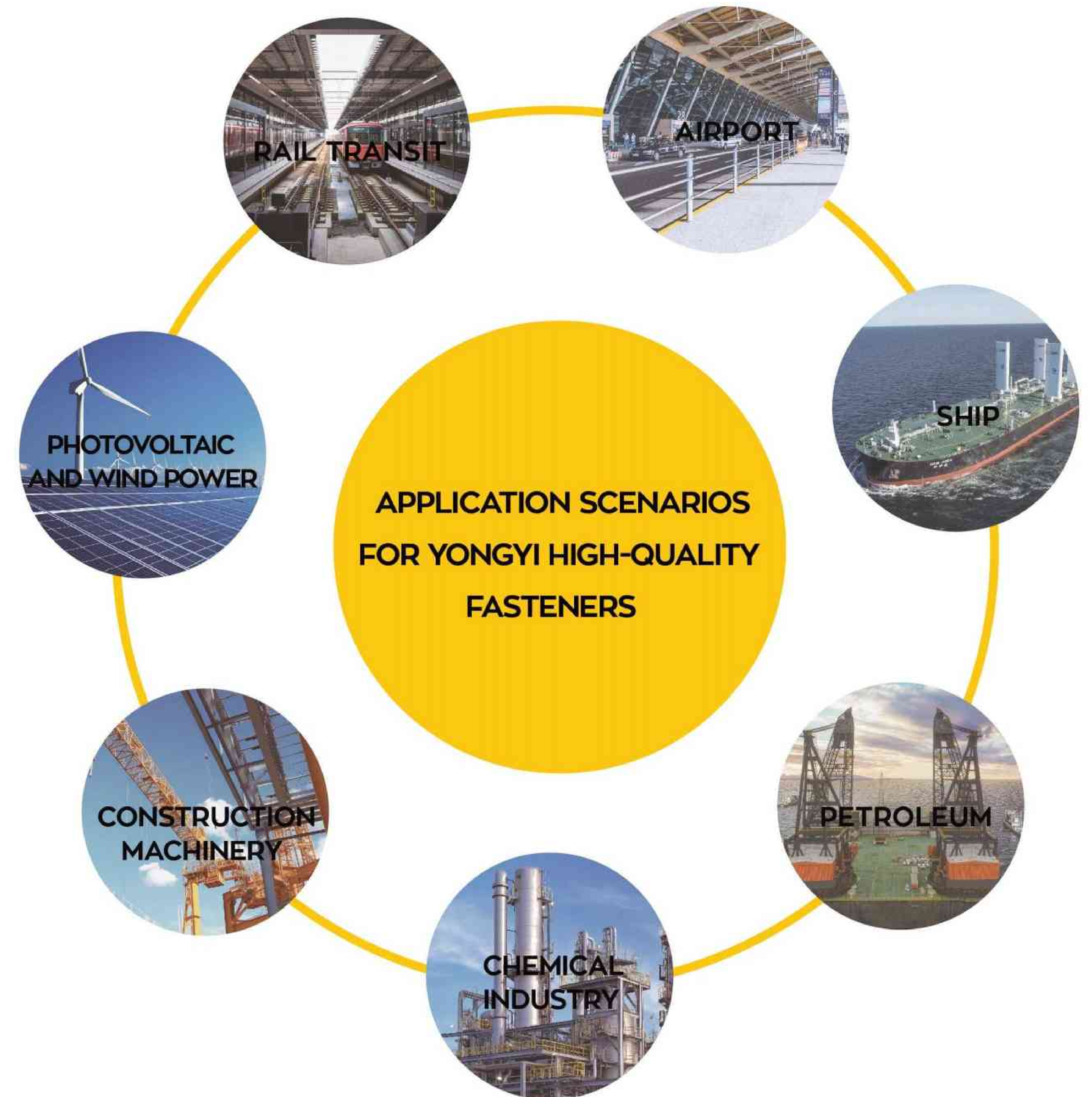
JIS B 1181



JIS B 1186



BC1-FPC



# YONGYI HIGH-QUALITY BOLT ASSEMBLY (HEXAGON)



NO RUSTING



NO BREAKAGE



NO COLLISION  
DAMAGE



NO BENDING

## PRODUCTION RANGE

DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
Length (mm)	20-500	20-500	20-500	25-500	25-600	35-600	40-600	155-700	40-700	40-700	45-700	45-700	50-700
STANDARD	NAME		GRADE		FINISH								
EN	EN ISO48	NON-PRELOADED STRUCTURAL BOLTING ASSEMBLIES		8.8SB, 10.9SB		BLACK/ZP/HDG							
	EN 14399-3	HIGH-STRENGTH STRUCTURAL BOLTING ASSEMBLIES FOR PRELOADING PART-3 SYSTEM HR-HEXAGON BOLT AND NUT ASSEMBLIES		8.8HR, 10.9HR		BLACK/ZP/HDG							
	EN 14399-4	HIGH-STRENGTH STRUCTURAL BOLTING ASSEMBLIES FOR PRELOADING PART-4 SYSTEM HV-HEXAGON BOLT AND NUT ASSEMBLIES		8.8HV, 10.9HV		BLACK/ZP/HDG							
US	ASME B18.2.6	HEAVY HEX STRUCTURAL BOLTS		A325 A490		BLACK/HDG							
	ASME B18.2.6M	HEAVY HEX STRUCTURAL BOLTS IN METRIC SIZE		A325M A490M		BLACK/HDG							
AS	AS 1252.1	HIGH-STRENGTH STEEL FASTENER ASSEMBLIES FOR STRUCTURAL ENGINEERING - BOLT, NUT AND WASHER		8.8		HDG							
JIS	JIS B1186	SETS OF HIGH STRENGTH HEXAGON BOLT, HEXAGON NUT AND WASHERS FOR FRICTION GRIP JOINTS		F8T F10T		BLACK/HDG							
GB	GB 1231	HIGH-STRENGTH LARGE HEXAGON HEAD BOLTED CONNECTION SUB-ASSEMBLIES FOR STEEL STRUCTURES		8.8S, 10.9S		BLACK/DACRO							



# YONGYI HIGH-QUALITY BOLT ASSEMBLY ( TENSION CONTROL )



NO RUSTING



NO BREAKAGE



NO COLLISION  
DAMAGE



NO BENDING

## PRODUCTION RANGE

DIA	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	M36
Length (mm)	20-500	20-500	20-500	25-500	25-600	35-600	40-600	155-700	40-700	40-700	45-700	45-700	50-700
STANDARD	NAME		GRADE		FINISH								
EN	EN 14399-10	HIGH-STRENGTH STRUCTURAL BOLTING ASSEMBLIES FOR PRELOADING PART-10 SYSTEM HRC - HEXAGON BOLT, NUT AND WASHER	10.9HRC		BLACK/ZP/HDG								
	EN 14399-10	HIGH-STRENGTH STRUCTURAL BOLTING ASSEMBLIES FOR PRELOADING PART-10 SYSTEM HRC - ROUND HEAD BOLT, NUT AND WASHER	10.9HRC		BLACK/ZP/HDG								
US	ASME B18.2.6	TWIST-OFF TYPE TENSION CONTROL STRUCTURAL BOLTING ASSEMBLIES HEAVY HEX HEAD & ROUND HEAD BOLT, NUT AND WASHER	F1852 F2280		BLACK/HDG								
JIS	JSS II 09	SETS OF TORSHEAR TYPE HIGH STRENGTH BOLT, HEXAGON NUT AND WASHER FOR STRUCTURAL JOINTS	S10T		BLACK/HDG								
GB	GB 3632	HIGH-STRENGTH TWIST-OFF TYPE BOLTED CONNECTION SUB-ASSEMBLIES FOR STEEL STRUCTURES	10.9S		BLACK/DACRO								



# YONGYI HIGH-QUALITY HOT FORGING HEX HEAD BOLTS



NO RUSTING



NO BREAKAGE



NO COLLISION  
DAMAGE



NO BENDING

## PRODUCTION RANGE

DIA	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33	
	M36	M39	M42	M45	M48	M52	M56	M60	M64	M72	
Length (mm)	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	40-1500	40-1500	45-1500	
	45-1500	50-1500	50-1500	60-1500	60-1500	80-1500	80-1500	100-1500	100-1500	100-1500	
STANDARD	NAME			GRADE			FINISH				
GB	GB5782	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	GB5783	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	GB5785	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	GB5786	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
ISO	ISO4014	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	ISO4017	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	ISO8765	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	ISO8676	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
DIN	DIN 931	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	DIN 933	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	DIN 960	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	DIN 961	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	DIN 7990	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
AS	AS 1110.1	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
	AS 1110.2	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
JIS	JIS B1180	HEX BOLTS			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			
US	ASME B18.2.1	TABLE 2	HEAVY HEX BOLTS		A449 BD B7			BLACK			
		TABLE 6	HEX BOLTS		J429-5 J429-8 A449			BLACK/ZP/DACRO			
		TABLE 7	HEAVY HEX BOLTS		B7			BLACK			
	ASME B18.2.3.1M	HEX CAP SCREWS (METRIC SIZE)			8.8	10.9	12.9	BLACK/ZP/YP/HDG/DACRO			



# YONGYI HIGH-QUALITY HOT FORGING SOCKET SCREWS



NO RUSTING



NO BREAKAGE



NO COLLISION  
DAMAGE



NO BENDING

## PRODUCTION RANGE

DIA	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33
	M36	M39	M42	M45	M48	M52	M56	M60	M64	M72
Length (mm)	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	40-1500	40-1500	45-1500
	45-1500	50-1500	50-1500	60-1500	60-1500	80-1500	80-1500	100-1500	100-1500	100-1500
STANDARD		NAME			GRADE			FINISH		
GB	GB70.1	HEX SOCKET SCREWS			8.8	10.9	12.9	BLACK/ZP/YP/DACRO		
ISO	ISO 4762	HEX SOCKET SCREWS			8.8	10.9	12.9	BLACK/ZP/YP/DACRO		
DIN	DIN 912	HEX SOCKET SCREWS			8.8	10.9	12.9	BLACK/ZP/YP/DACRO		
JIS	JIS B1176	HEX SOCKET SCREWS			8.8	10.9	12.9	BLACK/ZP/YP/DACRO		
US	ASME B18.3	HEX SOCKET SCREWS			A574			BLACK/ZP/YP		



# YONGYI HIGH-QUALITY HOT FORGING SPECIAL-SHAPED FASTENERS



NO RUSTING



NO BREAKAGE



NO COLLISION  
DAMAGE



NO BENDING

## PRODUCTION RANGE

DIA	M12	M14	M16	M18	M20	M22	M24	M27	M30	M33
	M36	M39	M42	M45	M48	M52	M56	M60	M64	M72
Length	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	155-1500	40-1500	40-1500	40-1500
(mm)	45-1500	50-1500	50-1500	60-1500	60-1500	80-1500	80-1500	100-1500	100-1500	100-1500





## Benefits of structural steel fasteners

With its extensive range of structural assembly parts, Jiangsu YONGYI Fastener Co Ltd is committed to becoming a reliable brand of high-quality hot heading fasteners, high-quality connecting sub fasteners and high-security bolting solutions.

Jiangsu YONGYI has over 30 years of experience in fastener research and manufacturing, producing more than 60,000 tons of high performance fasteners annually. The company manages the complete production process of its products, including specialized bolts, nuts and washers, for connection components that feature high strength, high reliability, high adaptability, as well as high seismic resistance.

Steel structure fasteners can withstand large tensile and shear forces. For instance, high strength bolts can reach more than 1,000MPa of the tensile strength, which makes the steel structure maintain the stability when it is subjected to huge static and dynamic loads. An example of this is the frequent driving of vehicles on large bridges or the operation of heavy equipment. It is made of high strength alloy steel with special heat treatment, so the internal structure is optimized and obtains excellent mechanical properties.

“To ensure high reliability, sufficient friction is generated between the connecting parts by applying pre-tension to the bolts, during the installation process. This connection method can effectively avoid loosening and slipping of the connection parts during long-term use,” explains Jiangsu YONGYI. The company adds: “Steel structure fasteners also feature the ability to adapt to different steel structure forms and component connection requirements. Whether it is in the regular shape of the beam, column connection, or in complex spatial steel structure joints, fasteners can be flexibly used for connection. Moreover, it can be applied to the connection between components of different materials, such as ordinary carbon steel and low alloy steel, to achieve a reliable connection.”

Under dynamic loads, such as during an earthquake, the steel structure fastener connected construction has good ductility and energy dissipation capacity. Since the fastener connection is not a completely rigid connection, under seismic force, the connection part can produce deformation in a certain degree without failure, and the seismic force is consumed through the relative sliding and deformation between the components, thus reducing the damage of the overall structure.