

RAYCHIN LIMITED

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COMPANYPROFILE



RAYCHIN LIMITED was established as a global leader in Specialty Metals Fasteners for the operation of special material fasteners.

RAYCHIN LIMITED is a company specializing in the development, manufacturing and global distribution of standard and customized fasteners made of high-performance Specialty Metals. RAYCHIN owes its professional technical team and experts to the persistent development of new materials and new products. Additionally we provide our customers with world class knowledge, support and guidance on selecting the best materials for their challenging applications.

RAYCHIN LIMITED is an emerging leader in high-quality Specialty Metals Fasteners, and we are proud to serve customers worldwide. Since 2006, the company has grown from a single organization to a high-end supplier of fasteners covering multiple materials.

With the continuous expansion and growth of the company's global business, we plan to integrate the company's brand and technical team strategy in the next 5 years, aiming to provide customers with more convenient services and guidance!

RAYCHIN LIMITED produces and supplies Specialty Metals Fasteners Headquartered in China, RAYCHIN LIMITED is a Specialty Metals Fasteners manufacturer certified by ISO 9001:2015 and ISO 14001:2015. As a globally recognized expert in Specialty Metals Fasteners. We strictly review the source of materials and only purchase raw materials from the most trusted suppliers. We keep a large inventory of finished products and raw materials, such as: Hastelloy®, Monel®, Inconel®, Incoloy, Titanium, Nickel Alloy, Aluminum, Molybdenum, Nimonic, Nitronic, Tantalum, Tungsten, Waspaloy, Zirconium, Duplex and Super Duplex etc. Our production base in China has millions of dollars in material inventory, and we are proud to provide the fastest delivery speed in the industry.

A large inventory of Specialty Metals Fasteners includes: Bolts, Nuts, Screws, Washers, Studs, Socket products, Threaded Rods and U-bolts. We provide a full range of products: standard and customized, small batch and large batch, imperial and metric.

RAYCHIN LIMITED fasteners comply with applicable NAS, AN, MS, ANSI, ASTM, ASME, SAE, API, NACE, ISO, DIN and KS standards.

The markets we serve include: Aerospace, Petrochemical and Refining, Oil and Gas, Chemical Processing, Power Generation, Pharmaceuticals, Food and Beverages, Marine, Pulp and Paper, Semiconductors and Water Treatment.





THE COMPANY LOOKS

MATERIAL PREPARATION











MATERIAL

FORMING















- SACMA Forming and
- Threading Machine

forming process (slow)
forming process (general)

THREADING





- Threading type:
- Threading Before heat treatment
- ■Threading after heat treatment (less than Gr.10.9, When the customer requests)
- Rolling
- Sems threading
- Double headed Stud threading

PRECISION MACHINING











CNC automatic lathes are classified establishing more precise and rapid mass production system by doing circle cutting and edge preparation simultaneously.

Hot Forming Division

Hydraulic presses ranging from 110 t – 650 t

DE-PHOSPHATING





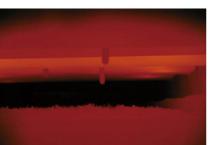


The professional de - phosphorization equipment, to remove the risk of phosphate accumulation.

HEAT TREATMENT







Production grade: 8.8-12.9

Quenching

Tempering furnace



After heat treatment change barrels, to prevent lost heat treatment and the risk of mixed.

PLATING/FINISHING PROCESS







Degreased → Etched or deoxidized → Activated → Metallization → Post-treatment → Rinsing → Drying

Internal production (Environmental Cr3+): White Zinc、 Yellow Zinc

Black Zinc

Zinc-Nickel Alloy

Zinc-Iron Alloy

Geomet coating Out processing

Phosphate, DELTA coating

Salt spray test(with thinkness、passivation、seal related)				
Surface type	White rust	Red rust		
Zinc	72h	240h		
Zinc-Nickel	120h	720h		
coating	-	480h		



TESTING FOR FINISHING







Chemical examination analysis

Salt spray testor

Thickness testor

SORTING/PACKING











360° display sorting Tray mode: chuck, glass plate, strip.

SPECIALTY METAL FASTENERS







Main products: MJ threaded alloy steel bolt, High temperature alloy bolt, Titanium alloy bolt, Self-locking nut Production: Rolling machine, Sealing machine

Testing: Torsion test machine, Vibration test stand, Optical digital microscope

QUALITY-CONTROL

















Control on raw material: Receive inspection, to prevent flow of defect materials. Material sources: Bao steel, Xin steel, Xingcheng Special Steel, China Steel etc.



A. Initial piece inspection: inspect and record when mould and / or size changes.

B、Self-inspection: operators inspect every 15 minutes, and record every 2 hours.





Forming pressure sensing monitor: pressure detection each mold, improve tooling life, shorten the installation and setting time of tooling.

Formed parts first fall into the inspection plate, only the conforming parts can be moved to process bin.

Only after inspection, the conforming parts can be moved to next process. Barcode Process Card control the whole process of the relevant part.





Statistical Process Control-SPC system

LABORATORY



TENSILE MACHINE



PROFILE PROJECTOR



FRICTION COEFFICIENT ANALYZER



CONTOUR GAGE



SPECTRO-ANALYSIS GAGE FATIGUE TEST MACHINE



ROUGHNESS TEST CLEANLINESS TEST



MANIPULATOR SYSTEM



ABRASIVE CUTTING MACHINE

APPLICATION



Aerospace

Chemical Processing

Electronics





Medical

Pharmaceutical

Pulp & Paper









Power Generation

Military

Naval & Marine







Water Systems

APPLICATION



PRODUCTDISPLAY









































MATERIAL

Specialty Materials					
17-4 PH	Alloy 20	Hastelloy	MP159	Tantalum	
254 SMO	Alloy 330	Incoloy	MP35N	Titanium	
310SS	Alloy 926	Inconel	Nickel 200	Tungsten	
A286	Aluminum 7075	Molybdenum	Nimonic	Waspaloy	
AL-6XN	Duplex Steel	Monel	Nitronic	Zirconium	

CARBON STEEL						
	Optional materials					
CH8A	CH10A	CH18A	CH22A	1022A		
1008K	1010K	CH10A	1015K	CH15A		
CH35A	CH40K	CH38F	35ACR	40ACR		
CH45F	1039	10B21	10B33	10B38		
CH35F	1045A	CH45	SCM435	SCM440H		
ML08	ML10	CH15A	ML15	CH6A		
CH8A	CH10A	CH18A	CH22A	1022A		

CUSTOMIZED PRODUCTS

Product name		Standard No.	Size	
	HEX HEAD BOLT	ANSI/ASME B18.2.1, DIN933, DIN931	1/4"-4", M5-M100	
	SOCKET CAP SCREW	ANSI/ASME B18.3, DIN912, DIN7991, DIN913/916	1/4"-4", M5-M100	
BOLT	FLANGE BOLT	ANSI/ASME B18.2.3.4M-2001, DIN 6921	1/2"-4", M10-M100	
	EYE BOLT ANSI/ASME, DIN standard		1/2"-4", M10-M100	
	OTHER BOLT	U BOLT, T BOLT, J BOLT, SQURE HEAD BOLT, SHOULDER BOLT, AND NON-STANDARD BOLT ACCORDING TO CUSTOMER NEEDS.	-	
STUD	THREADED ROD/BAR	ANSI/ASME, DIN975/DIN976	3/8"-4", M5-M100	
3100	DOUBLE ENDS STUDS	ANSI/ASME, DIN STANDARD	3/8"-4", M5-M100	
	HEX NUT	ANSI/ASME B18.2.2, DIN934	1/4"-4", M5-M100	
	HEAVY HEX NUT ANSI/ASME B18.2.2, DIN standard		1/2"-4", M12-M100	
	NYLON LOCK NUT	ANSI/ASME B18.16.6-2008, DIN 985,DIN982	1/2"-4", M12-M100	
	FLANGE NUT	ANSI/ASME, DIN6923	1/2"-4", M12-M100	
NUT	COUPLING NUT/LONG NUT	ANSI/ASME, DIN STANDARD	1/2"-4", M12-M100	
	SQUARE NUT	ANSI/ASME, DIN 557	1/2"-4", M12-M100	
	HEX DOOMD CAP NUT	ANSI/ASME, DIN1587	1/2"-4", M12-M100	
	WING NUT	ANSI/ASME, DIN315	1/2"-4", M12-M100	
	FLAT WASHER	ANSI/ASME B18.22.1, DIN125	3/8"-4", M6-M100	
WASHER	SPRING WASHER	ANSI/ASME B18.21.1, DIN127	3/8"-4", M6-M100	

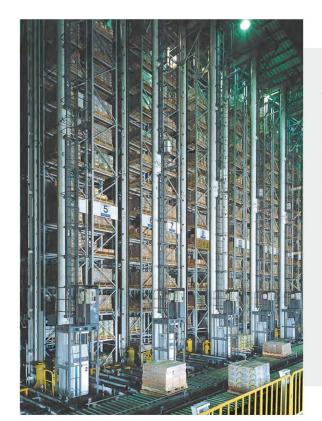


STANDARD PRODUCTS

RAYCHIN LIMITED PRODUCTS CATEGORIES					
Categories	Standard	Diameter		Length	
	Stanuaru	Min	Max	Min	Max
	DIN931, 933, ISO4014, ISO4017 CL8.8,10.9,12.9. DIN960, 961, ISO8765, ISO8676 CL8.8,10.9,12.9.	M5	M5	6mm	60mm
		M6	M10	12mm	300mm
Hexagon Head Bolts	JIS B1180, CL4.8,8.8,10.9	M12	M24	35mm	800mm
пехадоп пеац вопѕ		M27	M48	60mm	500mm
	ANICI/ACME D 10 21 CD A CDE 0	1/4"	1"	3/8"	32"
	ANSI/ASME B 18.2.1 GR-A,GR5,8	1-1/8"	1-1/2"	2-1/2"	20"
Carriago Polto	ANSI/ASME B18.5 GRADE A	#10	3/4"	1/2"	24"
Carriage Bolts	ANSI/ASME B18.5 GRADE 5	1/4"	3/4"	1/2"	12"
Hex Socket Head Screws	DIN912, CL 8.8,12.9	M6	M36	8mm	300mm
nex socket nead screws	ASME B18.3, A574,F835	#4	5/8"	3/8''	4''
Hex Flange Bolts	DIN 6921 CL8.8,10.9	M6	M16	8mm	80mm
nex riange boils	JIS B1189 CL4.8 8.8 10.9	M6	M16	8mm	80mm
SQ Machine bolts	ANSI/ASME B18.2.1 GR-A,GR5,8	1/4"	1"	3/8"	32"
	ANSI/ASME B18.2.1	1/4"	3/4"	1"	32"
Hex Lag Screws	AS1393 CL 4.6	M6	M16	25mm	250mm
	DIN 571 CL8.8 4.6	M6	M16	25mm	250mm
Tapping Screws	ANSI/ASME B 18.6.3	#4	#14	1/4"	4"
Dry Wall Carava	JIS B1125	M3.5	M6.3	12mm	150mm
Dry Wall Screws		#6	#10	5/8"	6"
Colf Drilling Carous	DIN7504, SAE J78	M3.5	M6.3	8mm	100mm
Self-Drilling Screws		#6	#14	1/4"	4"
Hex Socket Countersunk Head Screws	DIN7991 CL8.8/12.9 ISO7380 CL8.8/12.9	M6	M16	8mm	150mm

RAYCHIN LIMITED PRODUCTS CATEGORIES					
Categories	Standard	Diameter		Length	
	Stantianu	Min	Max	Min	Max
Character of Factors and	ASME B18.2.6 F3125-A325 A490	1/2''	1-1/4"	1 1/2"	8''
Structural Fasterners	AS 1252	M12	M36	55mm	600mm
Thread Rod	DINIOZEA JEL	M5	M24	1M	3M
IIIIeau Nou	DIN975A, IFI	1/4"	1"	3FT	12FT
2H & DH Nuts	ASTM A194	1/2"	3"	-	.≡.
Hovegon Nuts	DIN934, ISO4032,JIS B 1181	M5	M75	-	_
Hexagon Nuts	ANSI/ASME B 18.2.2 GRADE 2,5,8 , CL6,8,10,12	1/4"	3"	-	
Heavy hex Nuts	EN14399-4(DIN6915),CL8,10	M12	M36	-	5 /
Heavy hex Nuts	ASTM A563 GR-A, B,C ,	1/4"	3"	_	
SQ Nuts	ASME/ANSI B18.2.2 GR-2, 5	1/4"	1"	-	=:
Hex machine screw nuts	ASTM A563 GR-A	#4	3/8"	-	->
Fl	IFI & ISO & JIS	1/4"	5/8"	-	= 1
Flange nuts soft & harden		M6	M20	-	-:
N. I N	TEL O.DINI	1/4"	5/8"	-	-
Nylon insert nuts Ne series	IFI &DIN	M5	M20	-	-
	SQ M/B GR-2 ,5	3/8"	1	1	32"
Electric Power Tower systems	DA BOLT, GR-2, 5	5/8"	1	10"	32"
	EYE BOLT GR-2, 5	5/8"	1	8"	20"
TC Bolts	JSS II-09 CL 10.9	M16	M30	35mm	280mm
Honar bay Palta	EN 14399-4/3 CL 10.9 8.8	M12	M24	35mm	280mm
Heavy hex Bolts	EN 14399-4/3 CL 10.9 8.8	M27	M36	50mm	280mm
Customized production is available					





The automated three-dimensional warehouse provides sufficient product reserves. Provide customers with the most complete and optimal products in the first time. Provide customers with "three zeros": "zero distance service", "zero time waiting", "zero inventory management"

zero istance service



zero inventory management

RAYCHIN & STARWDH







Hardware World World Hardware

Why choose RAYCHIN?

Attention to detail, quality assurance.

B Extensive sales network, excellent service and good reputation.

Team professional, technical professional, quality control.

Comprehensive service network coverage, fast market response, fast delivery.

The products are genuine, honest and trustworthy, and create more favorable offers for customers.

Large scale, large sales volume, many products, and wide application.

Provide customers with correct and safe product training and consultation, product preservation and value-added.