

SINOMACH ROLLING ELEMENTS

江苏华隆兴
机械工程
有限公司



ROLLING ELEMENTS

JIANGSU WALLONG-HSIN MACHINERY ENGINEERING COR.,LTD. (JSW), located in Wuxi, Jiangsu Province and established in 1992, is a member of China National Machinery Industry Corporation (SINOMACH), a state-owned backbone enterprise under the direct control of the central government.

With more than 30 years of development, JSW Rolling Elements Department has become a modern manufacturing service group, supplying balls, needles and rollers to the world.

Today, our office area is around 3,000 square meters and workshops, around 50,000 square meters. We are experienced manufacturer whose production process is covered by standards ISO 9001, 14001, 45001, 50001. We have our own research institutes, production lines facilities, inspection equipment and a professional technical & QA engineering team, customers can be sure of the quality of the goods they receive. As an authorized economic operator (AEO), we are always ready to provide professional logistic and after-sales services.

TOGETHER, WE WIN A BRILLIANT FUTURE.

PLANT & OFFICE



ADVANCED EQUIPMENTS



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WALLONG-HSIN

BALLS

Steel Balls

Carbon Steel

Material: AISI1010-1015, AISI1085

Diameter: from 1.5mm to 31.75mm

Grade: G40 / G100 / G200 / G500 according to DIN5401, ISO3290, AFBMA, GB/T308 and so on

Chrome Steel

Material: 100Cr6, 100CrMn6, AISI52100

Diameter: from 0.3mm to 100mm

Grade: G10 / G16 / G20 / G40 / G100 / G200 / G500

*If required, products can be made in black oxidation treatment

Stainless Steel

Material: AISI304, AISI304L, AISI316, AISI316L, AISI420, AISI420C, AISI440C, AISI430

Diameter: from 0.3mm to 100mm

Grade: G20 / G40 / G100 / G200 / G500

S-2 Rockbit Tool Steel

Grade: G40 / G100 / G200 / G500

Brass & Aluminum Balls

Material: brass(CDA260/270), bronze(CuSn8), aluminum

Diameter: from 1mm to 100mm

Grade: G40 / G100 / G200 / G500

Ceramic Balls

Material: Ceramic(AL₂O₃, ZrO₂, Si₃N₄)

Diameter: from 0.5mm to 100mm

Grade: G10 / G16 / G20 / G40 / G100 / G200 / G500

Plastic Solid/Hollow Balls

Material: PP, POM(Delrin), Nylon, PVDF, PE, PS, PTFE, Acrylic

Diameter: from 0.5mm to 100mm

Grade: GI / GII / GIII

Color: upon request

Glass Balls

Material: Sodalime, Borosilicate Glass

Alloy Balls

Ti balls: Titanium 6AL4V

Tungsten carbide balls: YG6, YG8, YG11, YG13, TG15, YG20

Stellite ball: Stellite6, Stellite20 and so on



WALLONG-HSIN

ROLLERS



Material:

chrome steel (100Cr6, 100CrMn6)

stainless steel (AISI304, AISI304L, AISI316, AISI316L, AISI420, AISI420C, AISI430, AISI440C)

*If required, products can be made in black oxidation treatment

Type: Cylindrical / Spherical / Taper / Needle Roller

End shape: NRA (round end) / NRB (flat end) / ZB (logarithmic curve) / TR / TP

Diameter: from 1.25 to 100mm

Length: from 3 to 100mm

Precision: G1 / G2 / G3 / G5 according to DIN 5402, ISO12297, ISO3096, GBT-4661 and so on

PINS



Material:

chrome steel (100Cr6, 100CrMn6)

carbon steel (AISI1010-1015, AISI1085)

stainless steel (AISI304, AISI304L, AISI316, AISI316L, AISI420, AISI420C, AISI430, AISI 440C)

Diameter: from 2 to 40 mm

Standard:

DIN 1 (ISO 2339) *taper pins*

DIN 7 (ISO 2338) *parallel pins*

DIN 6325 (ISO 8734) *parallel pins*

DIN 7979D/7979C (ISO 8733/8735) *parallel pins with internal thread*

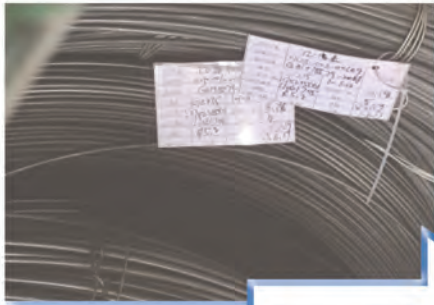
DIN 1481 (ISO 8752) *spring-type straight pins, heavy duty*

DIN 7343 (ISO 8750/8751) *spring-type straight pins, coiled, standard duty*



WALLONG-HSIN

BALLS PRODUCTION PROCESS



Raw Material



Wire Drawing



Cold Heading



Flashing



Heat Treatment



Hard Grinding



First Lapping



Fine Lapping



Sorting



Inspection



Packing



Shipping



WALLONG-HSIN

APPLICATIONS

WIND POWER APPLICATION

We provide large diameter high carbon chrome steel balls for wind power industry. The steel balls for wind turbine bearing are Φ 30-90mm, G40 or G60 and of material brand 100CrMnSi6-4. The common sizes of rollers used for such application are 18x18, 28x28, 50x50, 60x60, 64x64, etc. We carry out quality control by using the photoelectricity sorting or eddy current inspection sorting.



CASTER PRODUCTION

We provide AISI 1015 low carbon steel, AISI 420 stainless steel balls and POM balls for caster production. Balls supplied by us can be mounted on casters of various sizes, assuring durability and dependability.



PACKAGING OF PERSONAL CARE AND COSMETICS

We provide the cosmetic, personal care packaging industry with highly technical and well tested balls, like AISI 302, AISI 304, AISI 304-L unhardened austenitic stainless steel balls of precision grade G40 to G100, featuring perfect corrosion resistance.



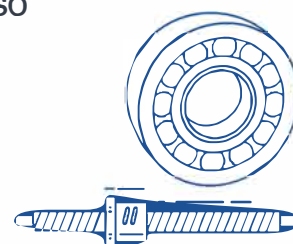
AUTOMOTIVE APPLICATION

We provide the automotive industry with precise balls and rollers. Applications in this field extend from the steering system, the shafts, the starters drive, the alternator, the bearing components, to seat belts and so on.



LINEAR MOTION GUIDES

We provide high-precision steel balls and rollers for linear motion guides. The common sizes of steel balls are 1/8", 3/16", 1/4", 5/16", 15/32" and rollers, 3X2.8, 3.22X4, 4.53X5.5, etc.



BALL PEN POINT

We provide high-precision tungsten carbide balls and 440C/420C stainless steel balls for ball pen industry. The good surface ensures that balls roll smoothly and ink flows perfectly.

