

ZWZ 站在世界轴承业的制高点上 建设具有国际竞争力大型轴承集团
Standing on the high point of world class bearing manufacturing industry, building an internationally competitive large scale bearing group.

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C+M TRAMEC CENSOR

来自利发波士登的轴承滚子测量分选机

审查

FMMA
FOMAS
GROUP

BRAND

IN THE

FORGING INDUSTRY

ZWZ

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**Latest Products From ZWZ
Showcased at
Shanghai Bearing Exhibition
2012.**

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1.1 Precision Bearings

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Precision machine tool bearings



CNC machine tool bearing

Heavy CNC machine tool bearing

CNC grinding machine bearing

CNC milling machine

CNC boring mill bearing

High precision turntable bearing

Ball-screw block bearing

1.1 Precision Bearings

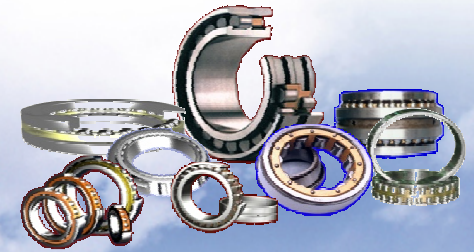
Precision machine tool bearings

Production base

Highest precision ISO P2, monthly capacity 800 thousand sets

Advanced equipments from German, Italy, France, Sweden

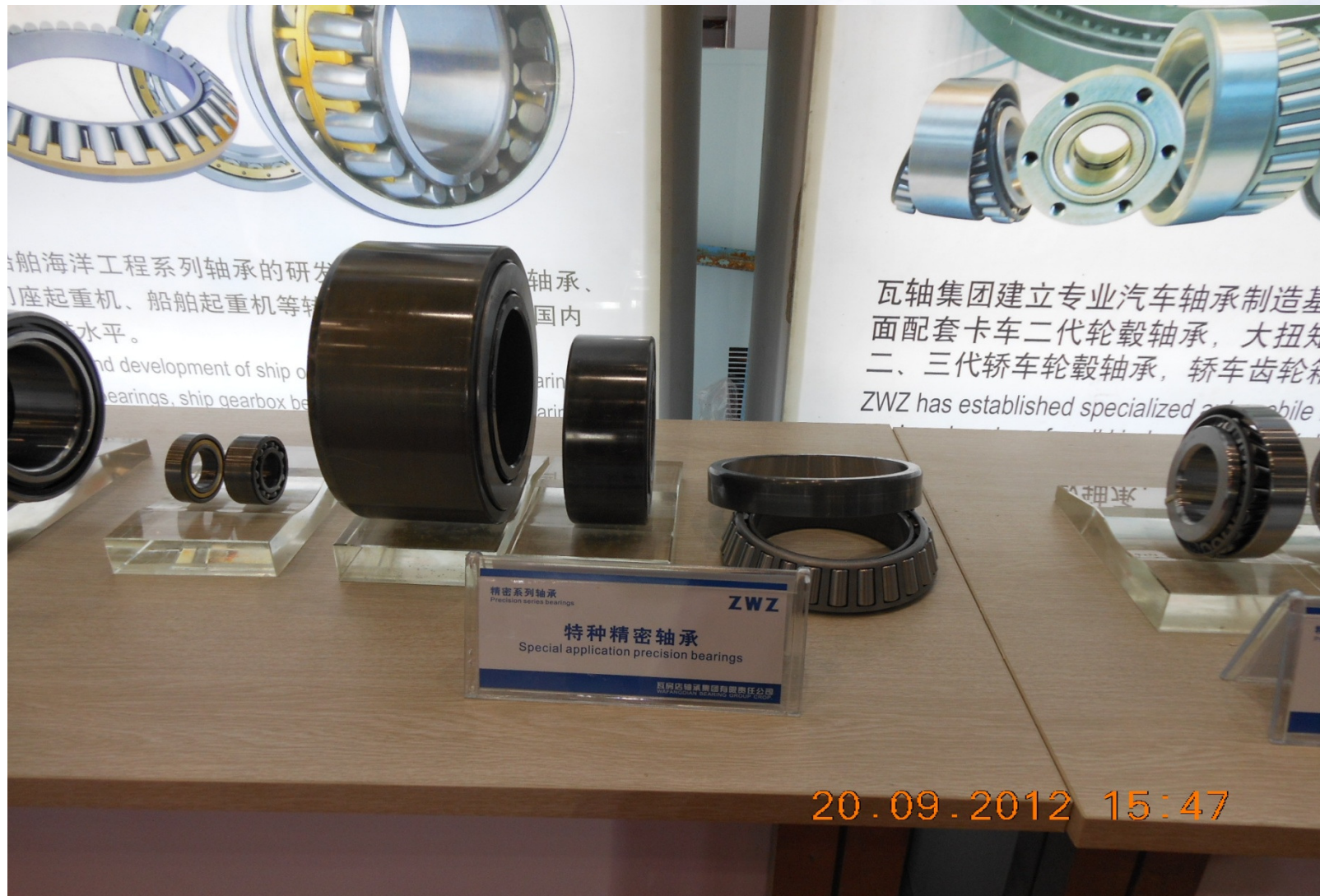
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1.2 Special Application Precision Bearings

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1.3 Precision Air Compressor Bearings

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1.4 Precision Hydraulic Pump Bearings

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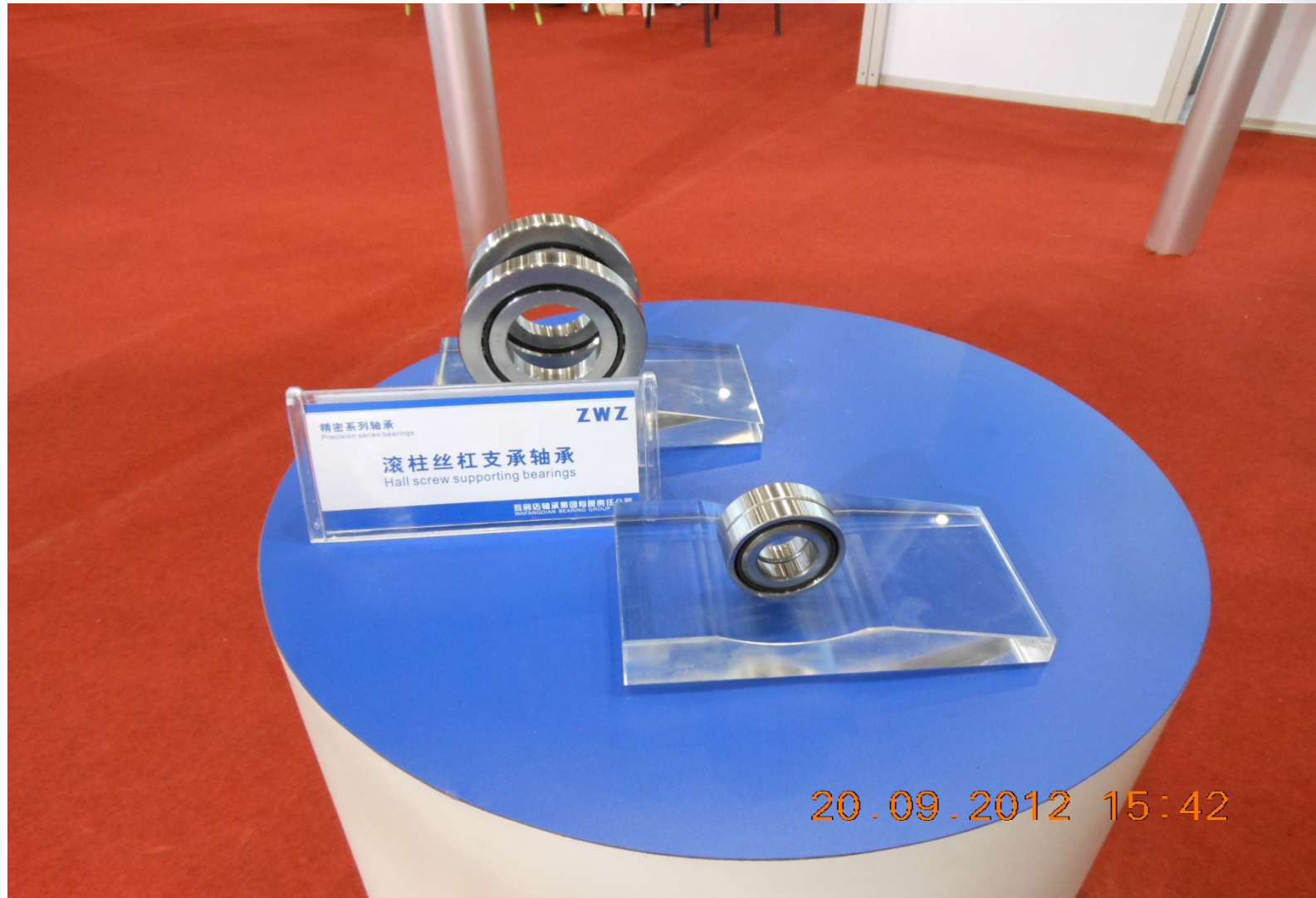
1.5 Elevator Tractor Bearings

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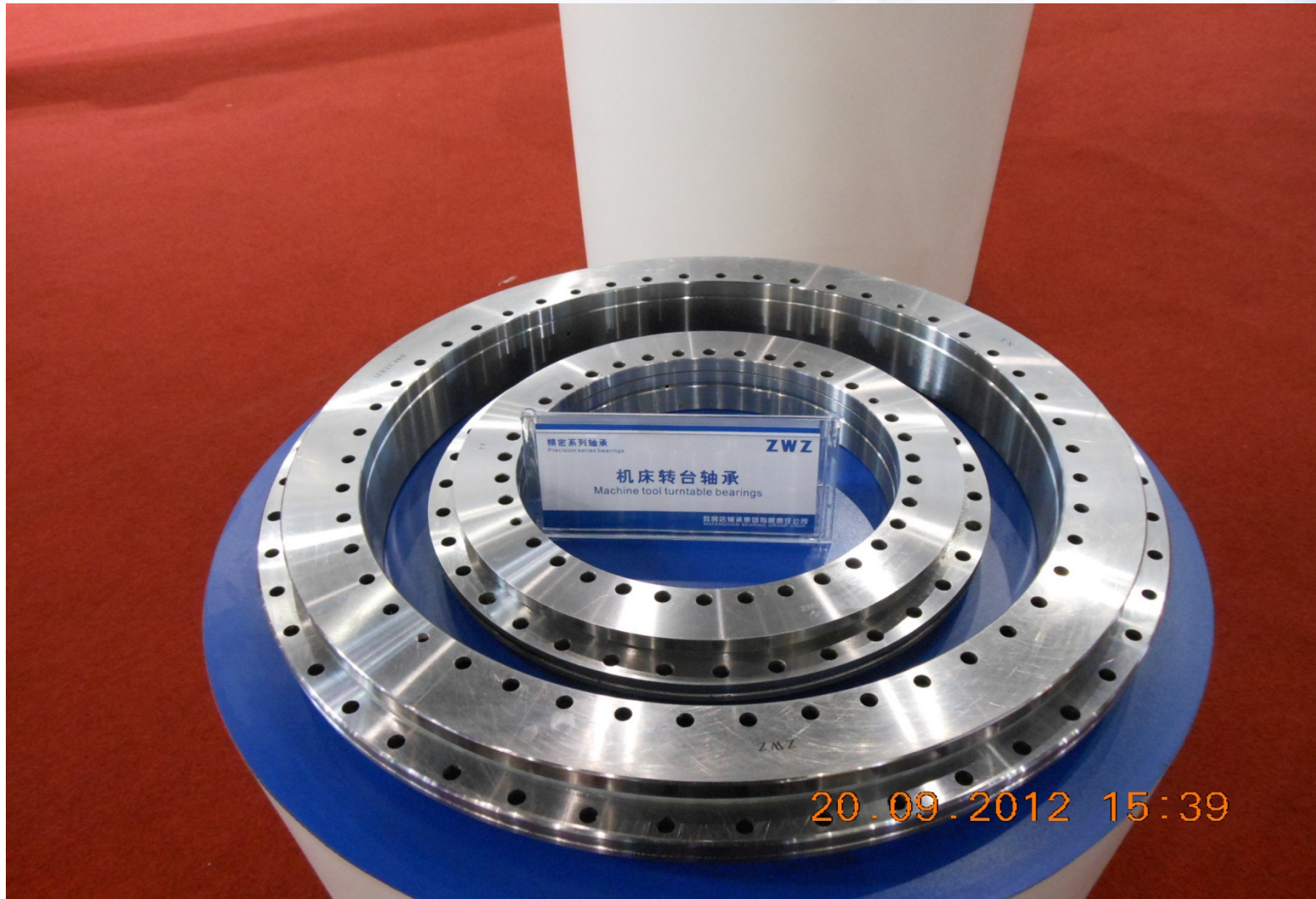
1.6 Ball Screw Supporting Bearings

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1.7 Machine Tool Turntable Bearings

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1.8 Roller Crown Ultra Precision Machine

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3MZ6130 滚子凸度超精机
3MZ6130 roller crown ultra-precision machine

此台机床用于研削中型圆锥滚子和小型圆柱滚子，特别适用于大批量生产，机床具有精度高、效率高的特点。机床安装8个超精头，可以进行多组油石的选择组合，振荡超精头均由气动伺服阀控制油石加压，油石压力可进行微量调整。两侧振荡机构采用德国原装进口的振荡气缸产生振荡，其振荡频率无级可调。

滚子外径 Roller outer diameter	$\phi 8 - \phi 30 \text{ mm}$	导电电机功率 Power of guide roller motor	4Kw
滚子长度 Roller length	8-50 mm	超精导辊转速 Super finishing guide roller speed	16-400 rpm
精度 Grinding accuracy	国标 II 级滚子 international grade II accuracy	超精方式 Super-finishing principle	通过式超精 Centerless through feed super-finishing
导轨 Slides	导轨、滚珠丝杠和伺服电机 Slides with ball screw and servo motor	气压 Pneumatic	0.5 - 0.6 MPa
油石压力 Super-finishing stone pressure	0.1-0.5 MPa	振幅 Amplitude	1.5-6 mm
振荡频率 Oscillation frequency	2200-2400 次/min	加工节拍 the beat	0-60p/s
超精液压力 Coolant pressure	0.2 - 0.5 MPa	批直径变动量 Batch diameter variation	$\leq 0.2 \mu\text{m}$

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ZWZ typical specification

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Equipment	Type of bearing	Typical specification	Application
1700 hot rolling mill	Taper roller bearing	M270448DG W/M270410/D B-3	work roll, back up roll and other main parts
Hot strip reel	Taper roller bearing	M272749/M27 2710DC//HEP 69	winder reducer
Hot strip reel	Taper roller bearing	M268749/M26 8710DC/HEP 69	winder reducer
Sendzimir rolling mill	Taper roller bearing	SJ-TCNB130	rolled plates, cold rolling thin plate

2 Automobile Bearings

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Passenger Car Bearings

Passenger Car
Series Bearing
Products



SEDAN



MPV



SUV

Provide Wheel Hub, Differential, Transmission, Clutch, Engine and Peripheral equipment supporting bearings for Sedan, MPV, SUV vehicles.



2 Automobile Bearings

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1.2 Passenger Car Bearings

◆ Gearbox bearings are exported to Germany Volkswagen



MQ350、DQ250 series gear box bearings 002.517.185A、003.519.185F have been accepted by Germany. Bearing design life is more than 1 million KM, tolerance grade P6X , long service life, low friction, low vibration and low noise.

2 Automobile Bearings

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Truck Bearings

Whole Series Supporting Bearings for FAW Truck Axle

◆ Whole Series Supporting Bearing for FAW Heavy-Duty Truck Axle

Assembly Type	Installation Site	Bearing Type
290 axle 300 axle 457 axle 485 axle	Differential Wheel hub	Deep Groove Ball Bearing 6312N & ect.; Tapered Roller Bearing 31314 Cylindrical Roller Bearing NU314NRM/YAB



◆ Whole Series Supporting Bearing for FAW Medium-Duty Truck Axle

Assembly Type	Installation Site	Bearing Type
390 axle 435 axle	Differential Wheel hub	Deep Groove Ball Bearing 621 Tapered Roller Bearing 33216X2A Cylindrical Roller Bearing NJ2207X1V/C9YB2



◆ Whole Series Supporting Bearing for FAW Light Truck Axle

Assembly Type	Installation Site	Bearing Type
3 ton axle 2.5 ton axle 3.5 ton axle	Differential Wheel hub	Deep Groove Ball Bearing 32307 Cylindrical Roller Bearing NJ305X2V/C3YA46

◆ **Bearing designed life ≥300000 kilometers**

◆ **High reliability, High Load bearing, impact resistance.**

◆ **Bearing can meet the critical conditions for vehicle transmission system such as high loading, high shape change, high temperature, low speed and low lubrication oil viscosity.**

2.1 MAN Truck Second Generation Wheel Hub ZWZ



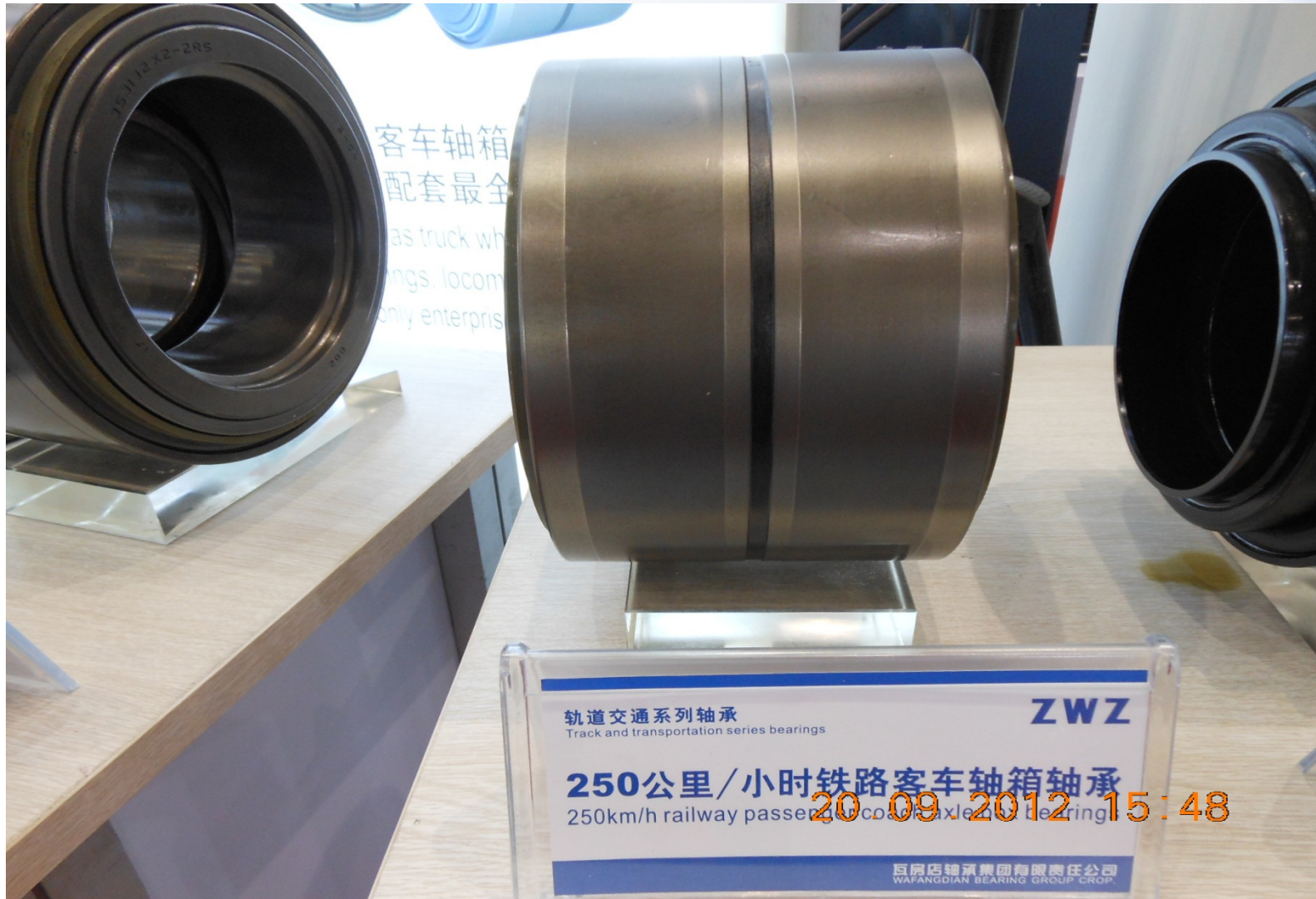
ZWZ typical specification

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Equipment	Type of bearing	Typical specification	Application
Automobile gear box	Taper roller bearing	KLM503349/KLM503310-DZ, KLM300849/KLM300811-DZ, KLM29749/KLM29710-DZ	Gear box
Automobile clutch release	Cylindrical roller bearing	KL30.6X48.3X33.05, KL30.6X48.3X47.25	Car clutch
Heavy truck hub	Cylindrical roller bearing	DUF65168110,DUF65168100, DUF55145100	Nissan/s truck drive wheel

3.1 250 Km/h Railway Passenger Coach Axle

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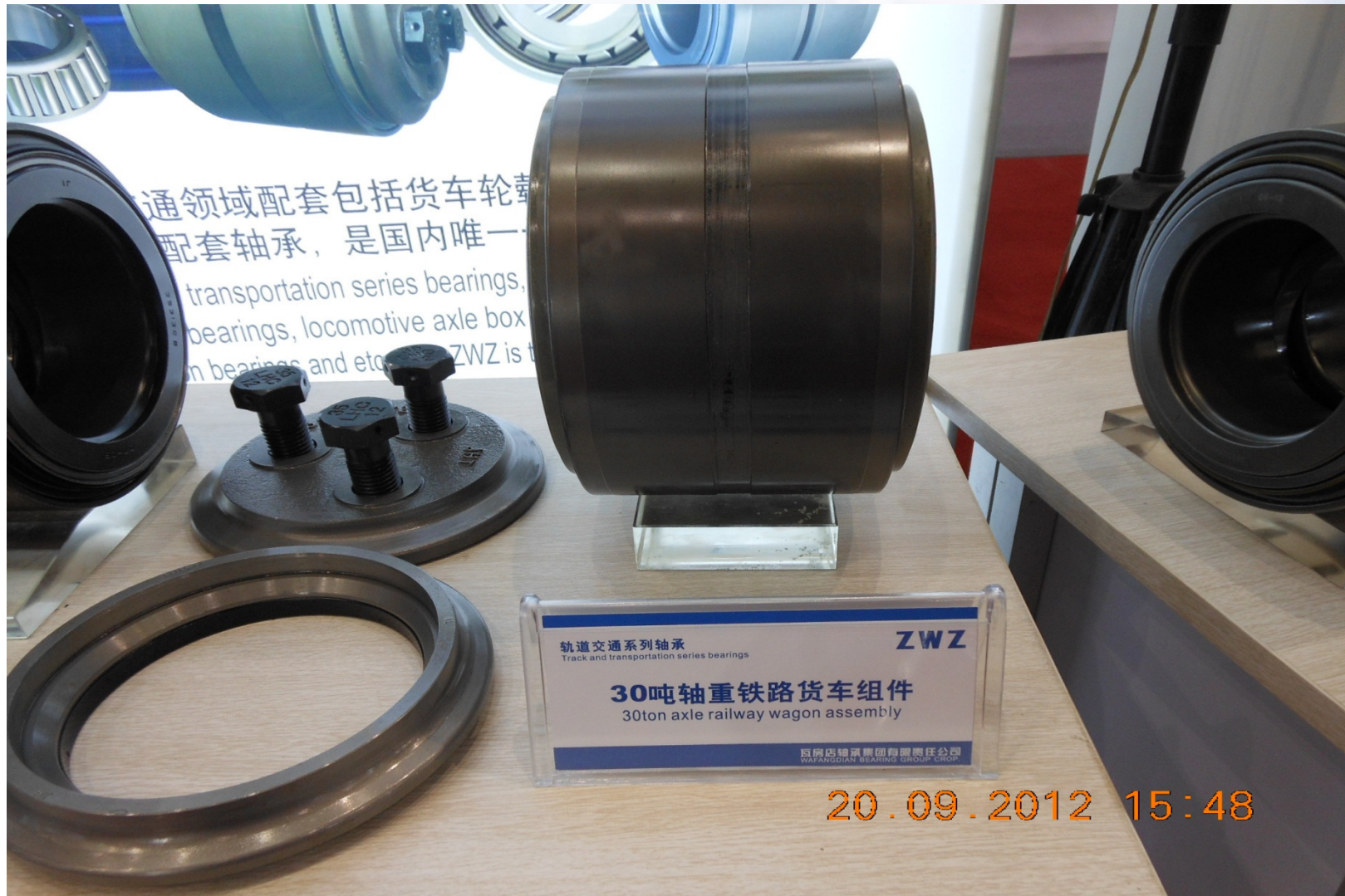
3.2 25 ton Axle Railway Wagon

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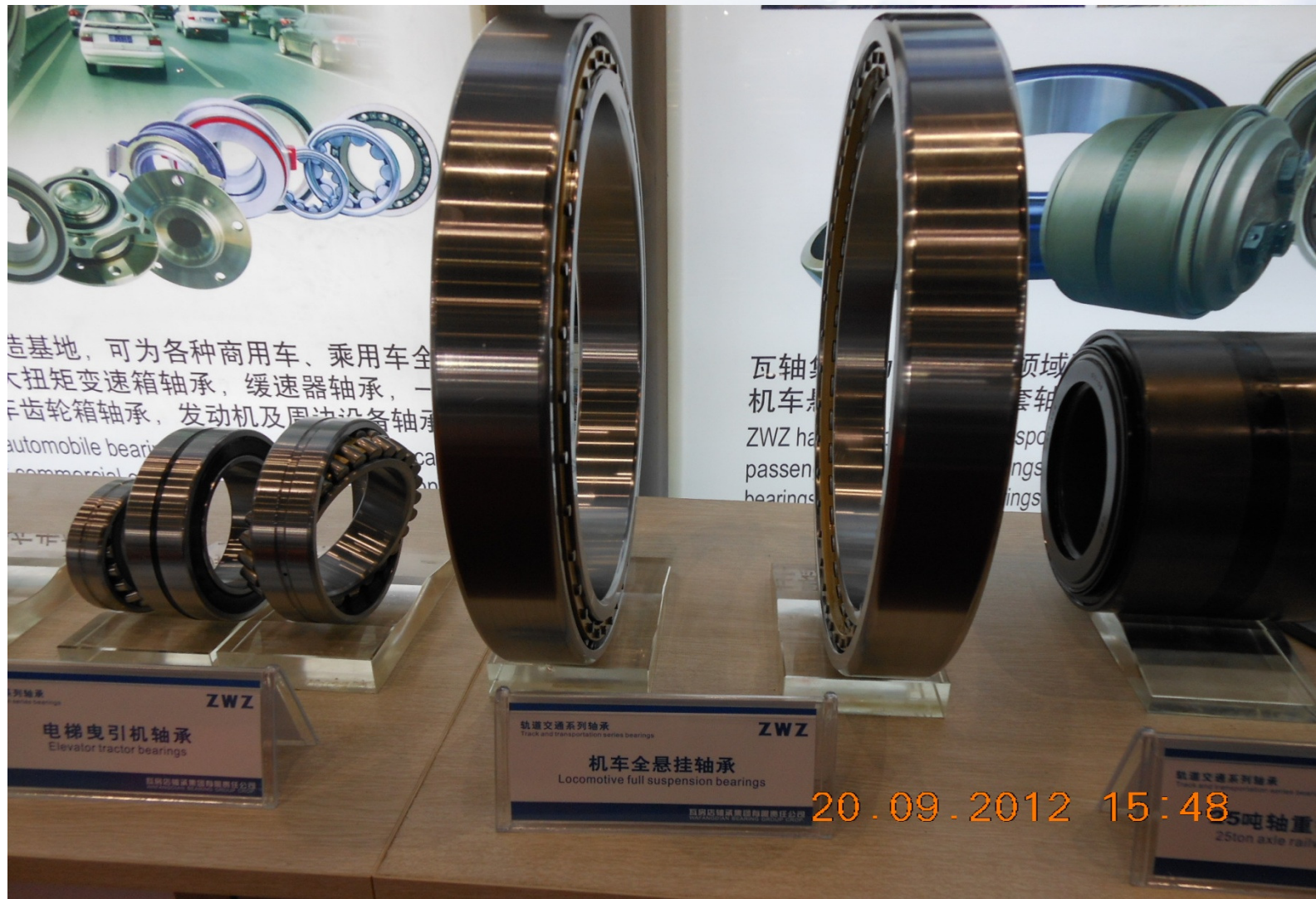
3.3 30 ton Axle Railway Wagon Assembly

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3.4 Locomotive Full Suspension Bearings

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ZWZ typical specification

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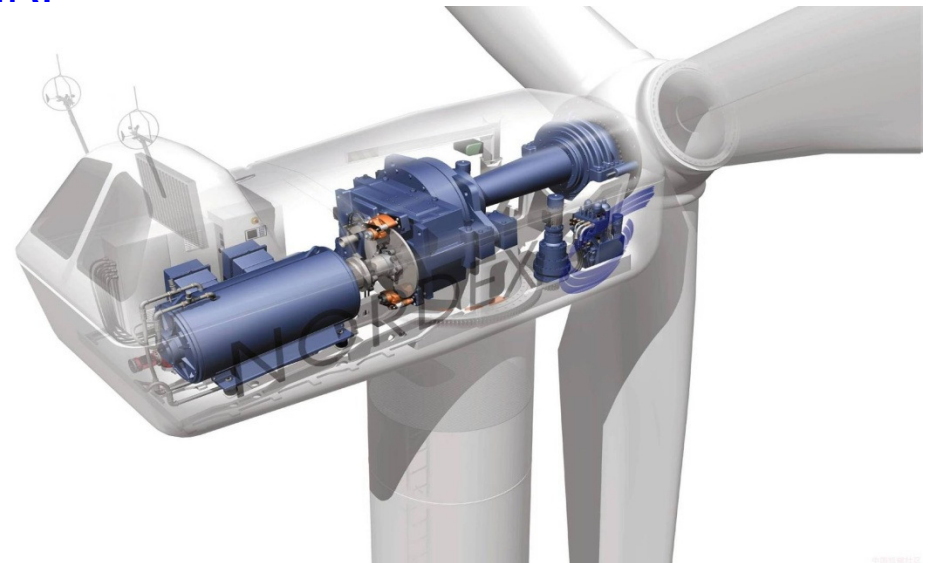
Equipment	Type of bearing	Typical specification	Application
25 tons load railway wagon	Taper roller bearing	353130B, 352226X2-2RZ	located outside the wheel axle
High power electric locomotive axle box	Cylindrical roller bearing	NNJ5132X2, NNUP5132X2	outside the wheel axle box
High speed railway carriage axle box	Cylindrical roller bearing	NJ3226X1SCTN, NJP3226X1SCTN	outside the wheel axle box
Light rail subway axle box	Cylindrical roller bearing	NJ2226X3TN1- HG2P64, NJP2226X3TN1- HG2P64	outside the wheel axle box

4. Wind Power Bearing

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ZWZ is a unique company of full series wind power bearings manufacturer, produces blade bearings, yaw bearing, main bearings, speed-up gearbox bearings, diver bearings, generator bearings and component, realize the localization production of large 6.3MW wind power bearings

ZWZ has over 60 wind power customers in china and oversea market, establish direct cooperation with 40 of them, balance supply wind power bearings through gear box, motero and so on. ZWZ share over 20% in wind power market, turnover 16.75 billion INR.



4.1 2.0MW Wind Turbine Yaw Drive Reducer

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4.2 1.5 MW Wind Turbine Yaw Drive Reducer

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4.3 2.0 MW Wind Turbine Gearbox Bearings

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4.4 3.0 MW Wind Turbine Main Bearing

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ZWZ typical specification

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Equipment	Type of bearing	Typical specification	Application
Wind generator pitch	slewing bearing	FL-HSN1715FT, FL-HSN1700DFT1, FL-SHN1900DFT, FL-HSN2203DFT1	pitch system of land wind generators
Wind generator yaw	slewing bearing	HSW2000ZZ, FL-HSN2182FT1, FL-HSW2355FT1, FL-HSW2765FT1, FL-HSW2718FT1	yaw system of land wind generator
Wind generator generator rotor	ball bearing, cylindrical roller bearing	FL-6030, FL-NU1030M	generator system
Wind generator main shaft	spherical roller bearing	FL-240/600/W33, FL-239/670CA, FL-240/530/W33	spindle transmission
Wind generators accelerator	cylindrical roller bearing, spherical roller bearing	FL-NJ2324EQ1A, FL-NCF29/530V, FL-30230, FL-NNCF5044V/C3, FL-NU326EM, FL-23060C	wind generator accelerator
Wind generators drive speed reducer	ball bearing, spherical roller bearing and taper roller bearing	FL-6012-2RS, FL-NJ221M, FL-24126C/W3, FL-32038, FL-33030, FL-32232	wind generator yaw and pitch drive speed reducer