

Successful Cases Simple Introduction

For example, our products widely used for the following fields including but not limited to:

1. **Construction machine industry (excavator, crane, trailer, etc)**
2. **Heavy-duty Vehicles**
3. **Heavy-duty industrial equipment**
4. **Solar Energy**
5. **Wind-energy generation**
6. **Energy Power Industry**
7. **Metallurgical industry**
8. **Medical health industry**
9. **Petroleum industries**

10. Port ship industries

11. Military

Construction machine industry

Applications: crane, excavator, bulldozer, roller, earthmover, etc. The working condition is full dust, heavy load, more machine fault and long time working.

MetalMiracle slewing rings with heavy load, high capacity and long working life so that to satisfy the bad condition.

Successful case:

1. Three famous Western Europe companies have been using our slewing rings for the large excavator CAT345.
2. Two Italy companies have been using our slewing bearing for exactors CAT215, CAT229, CAT231, CAT320B, CAT322BL, CAT235C/D, CAT245, CAT320L, EX60-5, etc.
3. A Netherlands company has been using our slewing rings for excavators CAT229D, PC400-6, PC450, LIEBHER R914, LIEBHER R924, etc.
4. A Finland company has been using our slewing rings for their ship crane.

5. A Sweden company has been using our special slewing rings that customized for the special high precision machines.
6. An Ireland company has been using our slewing rings for excavators EX120-5, EX60-5, EX200-5, etc.
7. A France engineering company has been using our slewing rings for CAT312 excavators.
8. An American company has been using our slewing rings for excavators EX200-5, PC300-5, etc.
9. A Canada company has been using our slewing rings for excavators EC210B, R210LC-3, EX200-5, etc.
10. A South African producer has been using our slewing rings for large mining equipment (lashing gear).
11. A Korea company has been using our slewing rings for excavators ZX200, EX200-5, etc.
12. A Jordan excavators dealer has been reselling our slewing rings for excavators CAT320, CAT229, PC200-5, PC220-3, PC220-6, etc.
13. Two of Chinese excavator producers have been using our slewing rings for large mining excavators.
14. One of Chinese crane producers has been using our slewing rings for truck crane.

And so on.

Heavy-duty Vehicles

1. A Spain company has been using our special slewing rings for large trailers.
2. A Norway company has been using our special slewing rings for large trailers.

3. Haul Trains for mining.

And so on.

Heavy-duty industrial equipment

Our slewing rings including high precision slewing rings have been exporting and reselling to France. Widely used for Extreme heavy duty Mill winder, Heavy duty Converting Winder, Heaviest winder, Unwinds, Reels, etc.

Solar Energy

1. A Finland company has been using our slewing rings and slewing drive for solar trackers.
2. An American company has been using our slewing rings and slewing drive for solar trackers.
3. Two of Chinese solar tracker producers have been using our slewing rings and slewing drive for solar trackers.

And so on.

Wind-energy generation

Generally, wind-energy system working environment is very bad, with more dusty, strong erodibility, high temperature difference and difficult to maintenance. So the life time of slewing bearing is required to at least 20 years. Our slewing bearings are used for: yaw bearing (slewing bearing), Pitching Bearing (slewing bearing).

MetalMiracle wind-energy slewing bearing designed with better structure and small clearance. We usually select material 42CrMo4, by QT (Quenched & Tempered). The slewing bearing can endure low temperature impact with longer life time. We also select dust seal, zinc plating to the surface, painting spray to guarantee the corrosion resistance and the life time for 20 years.

Successful case:

JILIN Province 1.5MW PITCHING BEARING

Energy Power Industry

Sunlight-generator: In sunlight-generator system, the solar panel need to rotate upper and lower, left and right with the position of the sunlight in order to get more power. MetalMiracle specially design the slewing bearing RW20/1166 support that can dustproof and continuously running long time.

MetalMiracle new research and design the worm slewing driver, motor slewing driver used to the solar tracker system.

Successful case: slewing bearing and slewing drive for a professional sunlight power company.

Type: RW20/1166

Metallurgical industry

Including metallurgical industry and caster, they have high requirement to the bearing for the high speed, heavy load and high temperature working condition. MetalMiracle special design the single-row, double-row, and three-row slewing rings, that efficiencies increase the capacity, prolong the working time and save the cost of customer.

Successful case:

1. A Beijing metallurgical company used four-point contact ball slewing bearing.
2. A Chinese large steel factory has been using our slewing rings for the special large equipment.
3. A Germany company used cement machine four-point contact ball bearing, 3.3 meter three-row roller slewing bearing.
4. An Indian company used three-row roller slewing bearing RW25/1030 and RW36/1885.

Medical health industry

Life quality is higher day by day; the medical, environment, recovery and body-building equipment is widely more and more.

MetalMiracle supplied high precision slewing bearing and slewing drive, which guarantee the small noise and long time working.

Successful case:

1. An American large corporation has been using our high precision slewing rings for CT machines.
2. A Shenzhen medical & biological company used RW10/180 slewing bearing.
3. A pharmaceutical machine company used slewing rings bearing RW618/1060 and larger slewing bearing RW50/2457.

And so on.

Petroleum industries

Well drilling equipments used for petroleum industries include mud pump、winch、top-drive、crown block, etc. Working condition: heavy load, more sediment, strong corrosion, big impact vibration. MetalMiracle slewing bearing, it increase the load ability and corrosion resistance、 impact resistance performance by strengthening design and manufacture. It can prolong the bearing's working life.

Successful cases:

1. An oil well has been using our four point contact ball slewing bearing RW03-10.
2. An oilfield uses our slewing bearing RW20/848 and thrust cylindrical roller bearing.

And so on.

Port ship industries

Ship crane used for port、 Vertical crane、 Crane used for ship. They all work at open pit site. The working condition is heavy load, has corrosion, difficult lubrication. MetalMiracle can batch produce the bearings of different structure and kinds of dimension which used for above equipment. can both bear heavy axial load、 radial load and tilting moment, with both sides seal and self-lubrication grease, can satisfy the using of different working condition, has more long using life. We can produce according to the customer's working condition and equipment requirement design the bearing with different structure and different dimension.

Successful cases:

1. A Finland company has been using our double row different diameter ball slewing bearing RW50/2890 and RW 45/2875.
2. A ship equipment company use cross roller bearing RW50/2510.
3. A Company's lifting machine has been using four contact point ball slewing bearing RW20/1384

And so on!

Military

We can produce the high tech, high precision & long lifetime slewing systems for military fields. For example, Tank, TD (Tank Destroyer), Radar station, Antenna positioner, landing ship, etc. In this case, we have been producing special slewing rings based on

special material, for example, Aluminum, Stainless Steel or the others special material. For improving working life and working performance, we also do it with special heat treatment.

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