

**HIGH QUALITY
WEAR RESISTANT
CASTINGS & VACCUM
BRAZED BIMETALLIC
WEAR BLOCKS**

2016



Antiwearpro

Wear Resistant Solution Provider

WWW.ANTIWEARPRO.COM

About Us

DZ Antiwear Alloy Casting foundry has a history over 30 years and is dedicated in manufacturing iron and steel castings of various abrasion, heat & corrosion resistant alloy grades.

As to provide better timely services, **DZ Antiwear Overseas Co.,Ltd & Jingyou Trade Co.,Ltd** were established in 2012. We not only supply casting in different material and processes, also take part in the research and development of new materials. After years' trial and improvement, our vacuum brazed bimetallic wear blocks and fused overlay chromium carbide clad plates have received market recognition.

Our experience and knowledge help clients to find one-stop solution, while the flexibility of processes can make a good balance between cost and performance. Whatever the job size, we can guarantee on-time delivery without compromising quality.

In the past years, we have established long term cooperation with clients, such as machinery manufacturers, spare parts distributors. Our typical products have weights from 100 grams to 3 tons.

Our products are widely used in industries of power generation, mining, quarrying, construction, cementing, concrete batch plant, brick-making, sugar mill, dredging, smelting, shot blasting, agricultural machinery and road maintenance etc.

With an increasing demand, we also provide sourcing services for existing clients, including Australia, Indonesia, Thailand, South Africa, Russia and North America. There are some items we have frequently shipped with our castings.

- ❑ Cold Rolled High Strength Steel Beams
- ❑ Non-standard Fasteners for Liners
- ❑ Welded Drag Chains
- ❑ Splined Shaft. Worms & Sprockets
- ❑ Dense Phase Dust Tanks & Dome Valve
- ❑ Seamless Pipes & Valves
- ❑ Bearing and Bearing Blocks
- ❑ Baghouse Dust collecting Filter & Cage
- ❑ Ceramic fiber blankets
- ❑ Ceramic and SiC refractory tiles



Main Processes

Having developed hundreds of parts in the past decade, we know well about the balance between job size, application performance and cost.

Our solution is always the most SUITABLE, not the most EXPENSIVE.

- ❖ Multiple casting processes are available for choice, including green sand, Co2 hardened sand, resin sand, shell molding, lost foam, true investment. We offer a wide range of flasks available in various sizes to accommodate clients' specific needs and unique applications.
- ❖ Heat treatments, including annealing, normalization, oil quench+temper, air quench, induction hardening.
- ❖ Machining, including milling, turning, boring, drilling & tapping, surface grinding, CNC plasma cutting, laser cutting, wire cutting, gear hobbing, broaching
- ❖ Welding, including vacuum brazing, hard-facing and Tungsten Carbide Depositing



Quality Control

Certification of ISO9001:2008 and GB/T 28001-2001 for Occupational Health and Safety Management system. Process Control is strictly implemented in daily operation.

- ❖ Every melt heat is recorded and traceable
- ❖ Full dimension check for new pattern proof or after any modification
- ❖ Parts with assembly requirements are subject to 100% gauge inspection before shipment
- ❖ Dedicated gages are designed in advance and used with approval from client for Key Characteristics
- ❖ Prompt reply to complaints or quality feedback within 24 hours. Root cause analysis and solution proposals are provided within 2-3 days.

We have advanced inspection instruments and equipments, including Baird Vacuum Optical Emission Spectrometer with Nitrogen analyzer, Desktop and Portable hardness tester (Brinell and Rockwell), Chemistry Analyzer, Universal Physical Property analyzer and Non-Destructive Testing, such as liquid penetrant, magnetic particle and ultrasonic.

We also can provide fabrication to casting conversion, 3D Modeling and reverse engineering.



Main Products

We can cast various material grades according to international standards.

These are the standards we are pouring daily, including

- ASTM (A128, A48, A148, A297, A352, A532)
- AS (1830, 1831, 2027 & 2074)
- BS (3100, EN 10283, 10295, 10349)

Our castings are mainly abrasion or heat resistant, such as high chromium cast iron, Ni-hards, Hi-Mn, low alloy carbon steel (martensitic steel) but we still supply a lot in general engineering grade of grey iron and ductile irons.

Our high quality spare parts are serving following industries:

**Concrete Mixing | Quarrying | Mining | Power Station | GET - construction
Dredging | Paper & Pulp | Sugar Mill | Snow Removal | Agriculture | Briquetting**



Vaccum Brazed BiMetal

Through vacuum brazing, white iron wear top is metallurgically bonded to a mild steel backing plate. With in-furnace air quenching and tempering under strict control, the wear top is hardened to HRC63 (700BHN), creating an exceptional combination of abrasion resistance and ductility. The diffusion bond can withstand a high shear strength over 250Mpa.

We carry regular inventory on standard sizes and can supply custom orders within 2 weeks. Here are the models in hot sales. Custom logo can be cast in the white iron upon request.

- ★ Chocky Bar (CB25, CB40, CB50, CB65, CB90, CB100, CB130)
- ★ Wear Button(WB60, WB75, WB90, WB115, WB150)
- ★ Skid Block (250x150, 250x250)

Send us your part codes or drawings for verifying the availability of existing patterns.

We also supply knife edges, shredder hammer tips, donuts, wear bars, grizzly bar, Micro-ledges in large volume.



Durafuse Wear Plate

A Guaranteed Economic Solution against Wear, Hangup

Durafuse® is a registered trade name for wear plate series, which are manufactured through precisely controlled process with proprietary arc-fusing technology. High alloy powders are evenly fused on mild steel base plate in a semi-solid flow status.

Durafuse Wearplate has following advantages versus conventional bulk weld overlay clad plate in the market

- ✧ With smooth and even surfaces – no weld beads, no extensive flattening work
- ✧ Minimized low residual stress and base metal distortion
- ✧ Single pass alloy deposition from 3mm to 15mm
- ✧ Consistent micro-structure and hardness down to the flat fusion line
- ✧ Low alloy dilution rate with backing plate
- ✧ Predictable Life span due to consistent wear rate

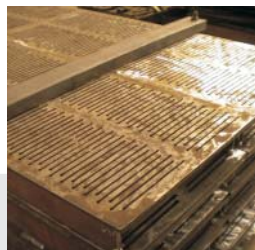
There are 4 grades (M1,M2,M3,M4) to cover most application.

- ✧ M1 and M3 are most commonly used with high chromium overlay. M3 has higher carbon and chromium content.
- ✧ M2 is custom formulated for meeting special application requirements. Tungsten, Niobium, Boron, Molybdenum and rare earth are added to form hard phase and composite carbides.
- ✧ M4 is super thin overlay. Through inhibiting the metal dilution, overlay thickness can start from 2mm to 3mm.

Available thickness is from 2 on 4 to 12 on 11.

Maximum plate size is 1000 mm W x 3000mm L (Width varies with thickness mix)

Plates are delivered in full sheet or CNC plasma cut to drawing. Surface grinding can be done upon request.



Products Gallery



Antiwearpro

DZ Antiwear Overseas Co.,Ltd
DZ Antiwear Alloy Casting Foundry

Sales Office
Unit 602, East SinoPetro Building,
No.1529 Pudong Ave.,
Shanghai, P.R.China 200135
Tel 0086-21-51329100
Email: info@antiwearpro.com

WWW.ANTIWEARPRO.COM

Authorized Dealer

