CHAMP

Champ Casting Industry Co., Ltd.

No.172, Chenggong 3rd Rd., Nantou City,
Nantou County 540, Taiwan
TEL: +886-49-226-1199
FAX: +886-49-226-1188
service@champcasting.com
www.champcasting.com

MEEHANITE®

WEB PAGE

CHAMP's Profession

We link every sections & details to offer you the best casting from drawing to delivery.

Designed by SSJ www.sjcorp.com.tw 02/2024

CHAMP's Strength

Professional casting experience over **35** years.

Advanced casting and testing equipment.

Stable / Fast delivery.

Casting capacity of **2,500** tons per month

with **0.02** mm machining precision.

Company History

Future

We're able to provide small casting, and wider product range from 5 kg to 25 tons.

New plant will be completed in 2019 December and its production will begin in 2020 March. The plant is 51,520 m². It will increase production capacity and expand the product range.

2010

2018 Champ Casting industry increased capital NTD 332,500,000, total employees 180.

2014 Korean railway certified supplier. TAF certified testing laboratory. Meehanite certified casting foundry.

2013 Champ Casting industry increased capital NTD 270,000,000, total employees 110, plant 29,300 m².

2000

2008 Hornse international was established, capital NTD 53,000,000. plant 19,800 m².

2007 2nd factory established plant 6,000 m².

2006 3rd factory established plant 3,300 m².

2003 Successful installation of 50 kg PC sleeper turnout system.

2001 Nantou factory established, capital NTD 130,000,000. Plant 20,000 m².

2000 Entering Europe, American, and Japan casting market.

1990

1998 Official research of 50 kg-N type turnout system begins.

1997 Approved as a certified ISO-9000 supplier of casting good for Taiwan Railways Administration.

1984

1984 Foundry established in Taiping, capital NTD 1,000,000.

Total Solution

From formless to Formation, extracting the essence of craftsmanship.

A technique exists over 6,000 years; casting build the foundation of all industries from ancient to modern technology.

Quality Control Facility

ATOS

3D scanner allows Jea Sheng to compare the actual casting with the 3D CAD drawing. We can guaranty a perfect size casting in every new project.

JS CAST CAE Simulation Software

With this software, we can simulate possible defects before the casting. We can then modify casting method to ensure low ratio or even zero of deformation, crack, gas hole, and shrinkage cavity.

OES Analyzer

The OES analyzer quickly analyses the qualitative and quantitative chemical composition for metals, which is used for quality assurance on the composition of the castings before production.

Endurance Tester

The endurance tester tests the impact endurance of the austenitic manganese steel for the crossing of railway, to confirm that our products meet the specifications.

Material Analysis

Chemical Composition % 溶解温度：1524 ℃					
炭素 (C) 3.05~3.15	ケイ素 (SI) 1.70~1.80	マンガン(MN) 0.75~0.85	クロム (CR) 0.10	硫黄 (S)	リン (P) 0.04以下
3.08	1.77	0.83	0.10	0.07	0.03
バナジウム (V)	銅 (CU) 0.30	チタン(TI)	アルミニウム (AL)	窒素 (N)	スズ (SN)
0.00	0.30	0.009	0.004	0.007	0.000
Tensile Strength (N/mm²)			Hardness Test (油圧)		
310			4.30 mm	197 HB	
Metallurgical analysis					
Magnification： 100 Graphite Type： A Graphite Size： 3.2 mm (No. 6)			Magnification： 400 Pearlite： 98.1 Ferrite： 1.9		

Others

- Optical Microscope , OM
- Universal testing machine
- Brinell hardness tester
- Sand mold strength testing machine
- Leeb hardness tester
- Wear test machine

Optical Microscope , OM

Universal testing machine

Brinell hardness tester

Sand mold strength testing machine

Machine Tool Casting

- Vertical Machining Center
- Gantry Type Machining Center
- Double-Column Machining Center
- Horizontal Machining Center
- 5 Axis Machining Center
- Vertical Lathe
- PCB Drilling Machine
- PCB Routing Machine
- CNC Lathe Machine
- Multi-Tasking Machine
- Lathe Machine
- Tapping Center
- Boring Machine

A perfect machine tool is built on good castings

Machine Tool Casting

CNC Lathe Machine - Base

L x W x H	1,900 × 1,780 × 660 mm
Weight	2,180 kg

Vertical Machining Center - Table

L x W x H	860 × 520 × 240 mm
Weight	237 kg

Double-Column Machining Center - Beam

L x W x H	5,207 × 1,100 × 905 mm
Weight	7,240 kg

Turning and Milling Center - Base

L x W x H	2,680 × 1,270 × 935 mm
Weight	4,750 kg

Horizontal Machining Center - Base

L x W x H	2,702 × 1,960 × 988 mm
Weight	4,160 kg

Double-Column Machining Center - Table

L x W x H	3,000 × 2,100 × 485 mm
Weight	5,980 kg

CNC Lathe Machine - Base

L x W x H	4,095 × 1,280 × 767 mm
Weight	4,695 kg

Vertical Machining Center - Base

L x W x H	1,723 × 1,240 × 453 mm
Weight	1,708 kg

Double-Column Machining Center - Table

L x W x H	4,200 × 2,200 × 301 mm
Weight	7,500 kg

Manhole Cover

Electric Manhole Cover A

Diameter	1,200 mm	height 150 mm
Weight	419 kg	

Electric Manhole Cover B

L x W x H	1,210 x 810 x 150 mm
Weight	401 kg

Railway Technology Department

Brake Shoe and Crossing Product

High Phosphorus Cast Iron Brake Shoe

50kg-Class
High-Manganese Steel Crossing

60kg-Class
High-Manganese Steel Crossing

60kg-K Shape
High-Manganese Steel Crossing

50kg-N Shape
High-Manganese Steel Crossing

60kg-Class High-Speed Railway
High-Manganese Steel Crossing

60kg High-Manganese Steel Diamond Crossing

Railway Technology Department

On Site Records

Installation

The only certificated supplier of railway turnout system and its components in Taiwan with over 20 years of excellent performance.