



Shanxi Huaxiang Group

"Never Say No to its Market & Customers"









Michael WONG, HX-Sales Center (Overseas) Rev: 1.2.0

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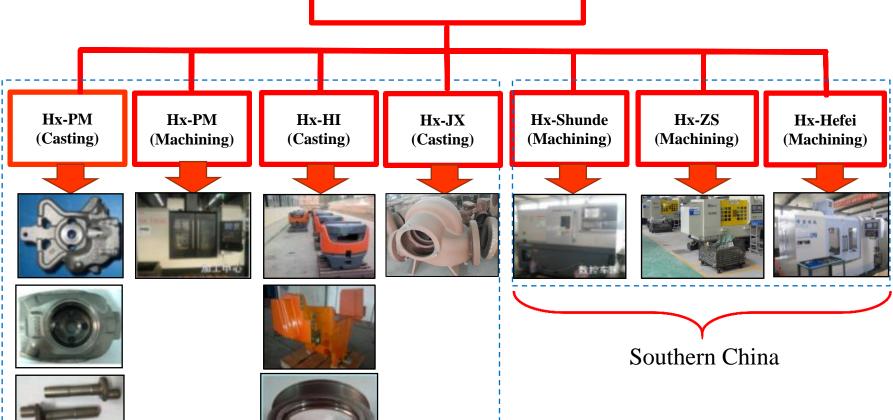
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1. Huaxiang Group- Overview

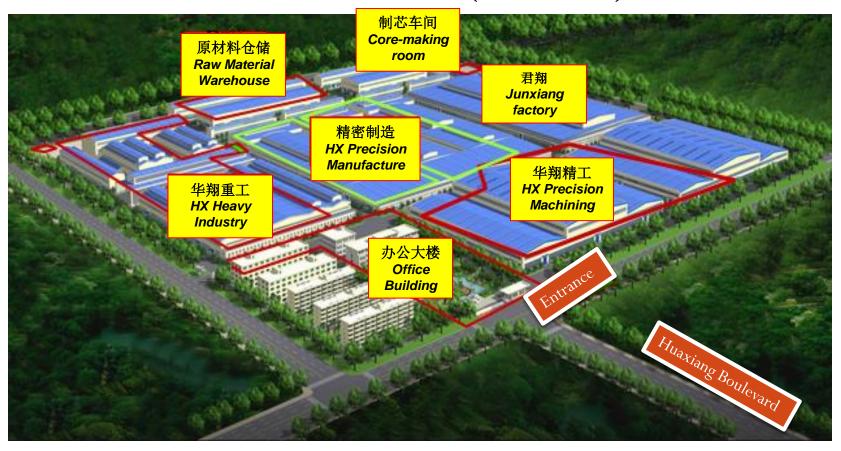
- Company Name: Shanxi Huaxiang Group
- Established: June 1999
- No of Employees: ~4000 (Technician: ~770)
- Manufacturing Space: 520,000 square meters (SHG Industrial Park)
- Production Capacity:
 - Casting Capacity: 280,000 tons/annum (Vacuum & Disamatic production lines)
 - 20,000 tons/annum (Resin sand production line)
 - Machining Capacity: ~100 million pcs/annum (CNC & NUM machining centers & lathes)
- Annual Turnover: 1.8 billion RMB (~244 million EUR)

1.1 Huaxiang Group- Structure

Shanxi Huaxiang Group



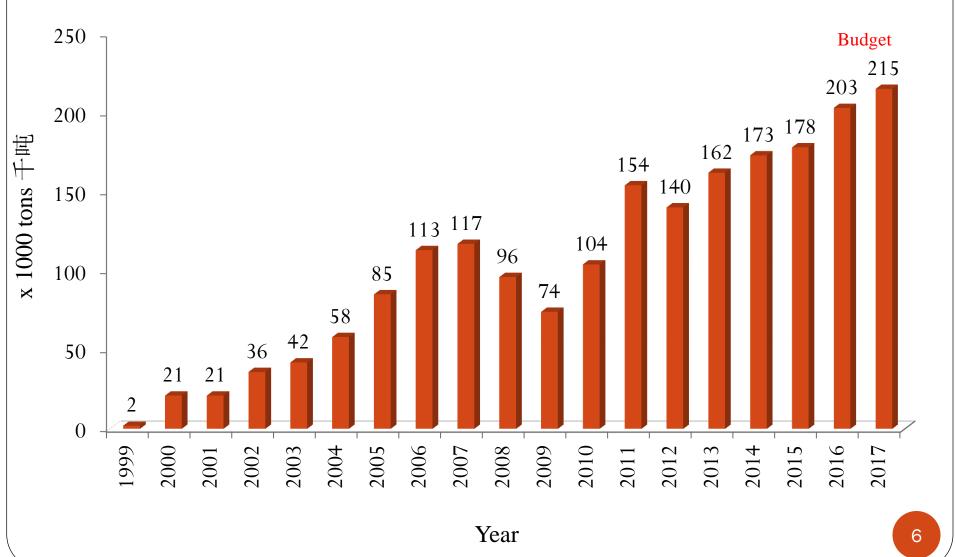
1.2 SHG Industrial Park (est.2009)



Huaxiang industry park began to construct from 2009, accounts an area of 520k square meters.

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1.3 Huaxiang Group- Sales volumes (Thousand tons/year)



2. Huaxiang HI-Overview

- Established: June 1999
- No of Employees: ~600 (Technician: ~120)
- Manufacturing Space: ~80,000 square meters
- Production Capacity:
- Vacuum Production line:100,000 tons/annual

(Grey & Ductile Iron grade)

• Resin sand Production line:20,000 tons/annual

(Grey & Ductile Iron grade)

• Material Grade: Grey Iron: EN-GJL-100 – EN-GJL-300

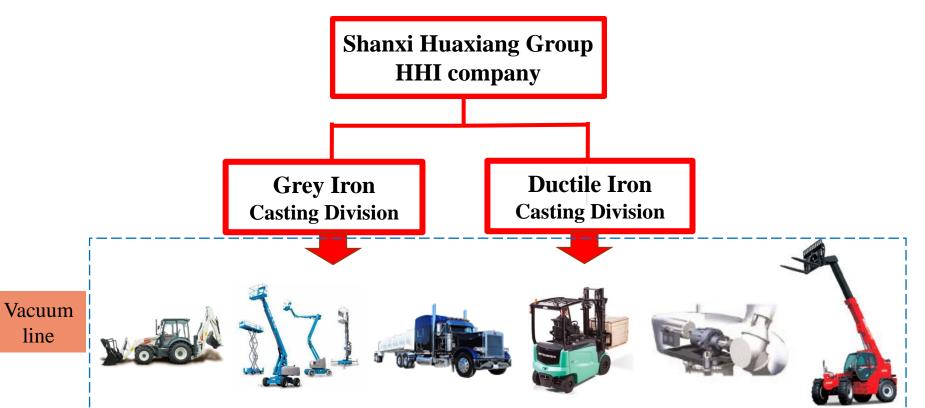
Ductile Iron: EN-GJS-400 – EN-GJS-700

Product weight: Grey Iron: 15kg − 15,000kg

Ductile Iron: 15kg - 5,000kg

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2.1 Huaxiang HI- Introduction



Resin sand line













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2.2 Industry Profile-Vacuum production

No	Industry	Product Range
1	Material Handling	I.C & El forklifts
1.1		Tele-handlers
2	Construction	Excavators
2.1		Wheel loaders
2.2		Crawler cranes / Industrial cranes
2.3		Gearboxes, Hubs, Housings etc
3	Aerial Works Platforms	Lift platforms
4	Port Solutions	Reach- stackers
4.1		Empty container handlers
4.2		Straddle carrier
5	Loading Systems	Off-shore loading arms
6	Agricultural sector	Tractors
7	Drilling & Foundations	Pile- driving equipment



















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2.2 Industry Profile-Resin sand production 華翔 #waxiang

No	Industry	Product Range
1	Motor	Electric motor
1.1		Motor housing
2	Fluid control	Pump, Valve
2.1		Valve body
3	Chassis drive	Axle
3.1		Bridge, wheel hub, Drum brake, Reducer housing
3.2		Gearbox housing, Planetary gearbox housing
4	Air-compressor	Body, Cylinder
5	Industry robot	Arm, Base
6	Wind, Power	Box, Gear carrier, Electric wheel hub
7	Mining machine	Crusher (Flywheel, Rotation plate, Reducer housing)





















2.3 Customer Profile





Other Industry



Port Solutions



Agriculture



Aerial Works Platforms



2.4 Huaxiang After-sales Structure

Aftersales Structure

WH International Casting LLC



Outdoor- Storage



HX-US company

US Service

Italy Office



Outdoor- Storage



Sub-contractor

Germany Office



Indoor- Storage



Sub-contractor

EU

Service

France Office



Indoor- Storage



Sub-contractor

Japan Office

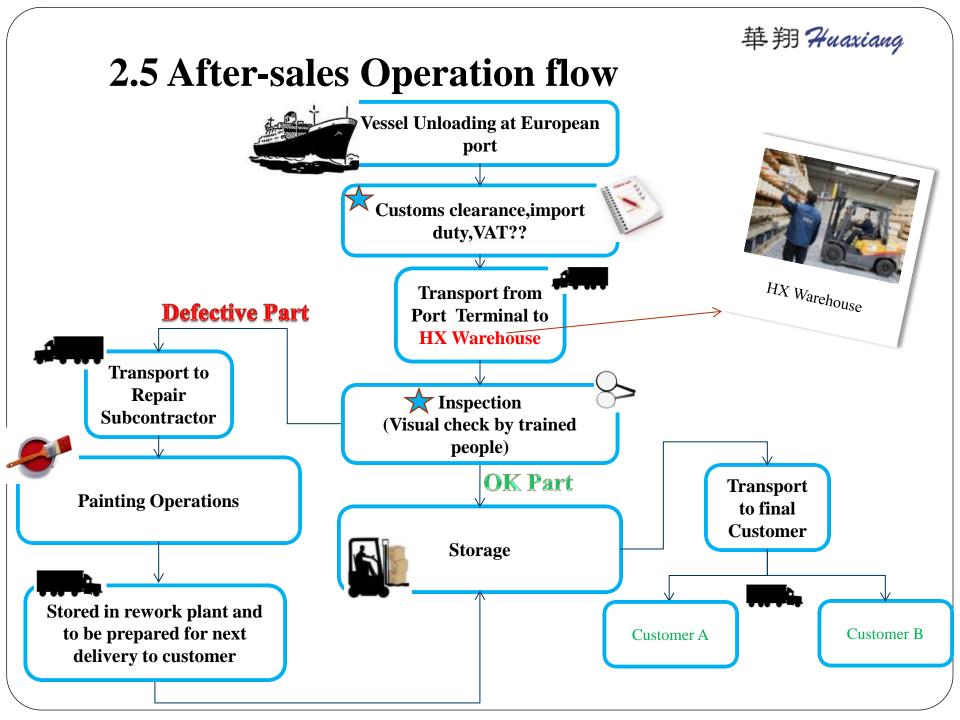


Indoor- Storage



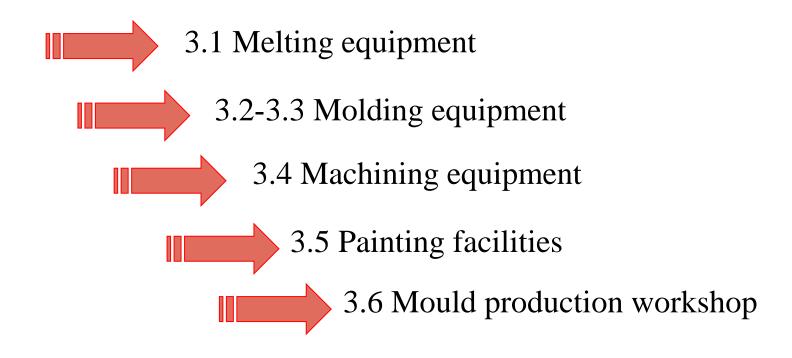
Sub-contractor

JPN Service





3. Production Equipment



3.1 Melting equipment



2 x Cupola/Vacuum (up to 20tons/hr)



2 x medium frequency furnace/ Resin sand (up to 3tons/hr)



2 x medium frequency furnace/ Vacuum (up to 1ton/hr)



3.2 Molding equipment- Vacuum Line

3 x Vacuum production lines (7500tons/Month)





4 x Shot-blasting machines
(up to 20tons/charge)



3.3 Molding equipment- Resin Sand Line

2 x Resin sand production lines (2000tons/month)









Automatic dryer



Shakeout machine



Sand preparation equipment

3.4 Machining equipment

7 x CNC Machining Centers

(Horizontal & Vertical) (up to 70pcs/day)



2 x N.C Horizontal machining lathe(up to 20pcs/day)





3 x N.C Gantry Milling Machine 3 x N.C Horizontal Boring & Milling Machine (up to 120pcs/day)



1 x N.C Vertical machining lathe(up to 15pcs/day)

3.5 Painting facilities-(Primer)

2 x Automated primer lines

(up to 5000tons/month)





3 x Telescopic primer booth

(up to 5000tons/month)



3 x primer grinding booth

(up to 5000tons/month)



3.5 Painting facilities-(Top-coating)

1 x Automated top-coating line

(up to 4000tons/month)



4 x Top-coat booths (up to 4000tons/month)



3 x Top-coat spray booths (up to 4000tons/month)



3.6 Mould production workshop



Wood mould





Mould production workshop

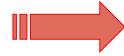
- Total moulds: 2000+ sets
- Manufacturing Capacity:
 - -In-house:
 - 3 sets/month
 - -Out-sourcing:
 - 8-12 sets/month (CNC manufacture)
- Mould produce lead-time: 3~4 weeks
- Mould material: Wooden
 & Resin & Aluminum



4. Products display



4.1 Grey iron product pictures



4.2 Ductile iron product pictures

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4.1 Product Pictures (Grey Iron)

TMHMF I.C Forklift (top-coat)

JCB Tele-handler (top-coat)

Genie AWP (top-coat)

TMHMI Rear-Frame (top-coat, CNC machined)









Volvo Excavator (primer, machined)

Pasting Department of the Control of

Kalmar RS (Primer, 12.7 tons)



Haulotte, AWP (structured coat)



Claas, tractors (machining, top-coat)



4.2 Product Pictures (Ductile Iron)

TMHMF Forklift Bridge/40Kg, Housing/20Kg

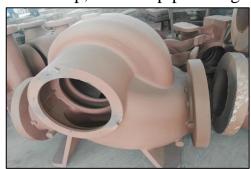




JDH Pump, valve & pipe fittings







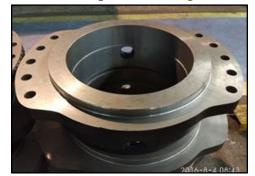
Kalmar Hub/85Kg

Doosan Norway Axle rear cover/189Kg









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4.2 Product Pictures (Ductile Iron)

Komatsu Bracket/35kg, 203.5kg



Komatsu Lever/47.4kg



ERG Carrier/50kg



KUKA Robot Arm/143.7kg



Doosan Norway Axle/378Kg



TMHMI Front Axle Unit/473.10Kg

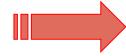




5. Quality Assurance & Package



5.1 Quality Assurance devices



5.2 Ductile iron package design

5.1 Quality Assurance (1)

Chemical Analysis







Sand properties test



3D- Automated CMM

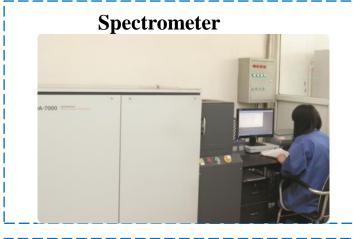


X-Ray machine

5.1 Quality Assurance (2)

Micro-Structural Analysis







3D- Coordinate Measuring Machine (CMM)



Mechanical Inspection (Digital)

5.1 Quality Assurance (3)









MT (Magnetic) Test



UT (Ultrasonic) Test

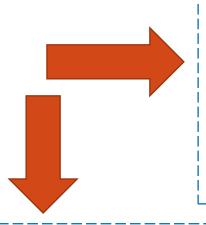


Hardness tester (Digital)



5.2 Anti-rust and Package

Anti-rust Treatment







Package







6. Huaxiang Group Certification



China Quality Certification 中国质量认证中心 International Certificate Network

国际认证联盟



- Quality Management System: ISO9001: 2008, ISO/TS-16949
- Environmental Management System: ISO14001: 2004
- Occupational & Safety Management System Certificate:
 - OHSAS 18001: 2007

6. Huaxiang Environment & D-U-N-S Registered





7. Location of Huaxiang Group



---Thank you for your attention.