Manufacturing Plant in Chengdu China

HSE Performance

Leejun is committed to protect and strive for improvement of the health, safety and security of our people at all times. We are committed to minimize our impact on the environment through pollution prevention, reduction of natural resource consumption and emissions, and the reduction and recycling of waste.

The organization has established and maintained a Health, Safety, and Environmental (HSE) Management System. The maturity of the system can be demonstrated through numerous recognitions and achievements.

- ISO 14001 Environmental Management System Certificate
- ISO 45001 Occupational Health and Safety Management System Certificate

Leejun – Asia Manufacturing Base for HPGR and Roller Press

About Us

Leejun was founded in 1999, and listed on the Shenzhen Stock Exchange in 2012, it is headquartered in Chengdu, a major city in western China. Leejun is a global supplier of solid material grinding and separation system integrating R&D, production, sales and service. The market covers cement building materials, metallurgical mining, chemical industry. The HPGR's core technologies and key products have independent intellectual property rights including nearly 200 invention patents. Leejun has produced more than 1,600 complete sets of HPGR/ Roller press since the first roller press was in operation in 2001.

Professional Manufacturing Equipment and Technical Ability

The company has introduced a number of advanced equipment and technology, equipped with heavy-duty CNC boring machine, CNC milling machine, and CNC lathe, with 120t machining capacity for roller shaft and large workpiece, and 300t lifting and assembling capacity. Leejun has the advanced assembly and disassembly process of roller sleeve for HPGR and Roller press, the roller shaft repair process and wear-resisting material manufacture process. Leejun has established an industry-leading level of manufacturing base for complete set of HPGR and roller press relying on specialization, standardization, scale development. Now Leejun has an annual production capacity of 100 complete sets of HPGR/ roller press.

As well as manufacturing new equipment, we also focus on the existing facilities' upgrading and modernization to help customers increase production capacity and reduce operating costs. Our Chengdu plant is also home to expatriates and local field service personnel who are providing round-the-clock technical support for Leejun equipment for field applications.

Plant Overview

Key Capabilities

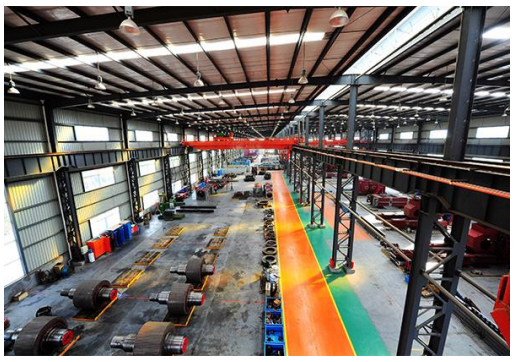
- Machining, Cladding and Welding capabilities
- Assembly, Test, and Stacked up test
- Magnetic Particle Test (MPT)
- Research and Development Facility
- Materials Management

Certifications

- ISO 9001 - Quality Management System
- ISO 14001 - Environment MS
- ISO 45001 – Hearth and Safety MS

Personnel

	Q4 2022
Direct	129
Indirect	28
R&D/Technical Center	102
Other (makes up the total)	230
Total Headcount	**489**



Facility Specs & Capabilities

Location	Chengdu China	
Footprint (sq.m.)	Workshop	259,58
	Office	207,37
	Storage Area	1,648
	Total	483,43
	Workshop Breakdown	
	Machine Shop	5,940
	Weld Shop	4,320
	Assembly&Test	10,376
	Quality Control	300
	Packing&Shipping	1,782
	R&D Area	3,240
Lifting Capacity	300 tons	
Machinies (16 CNC units)	***Turning:*** Max Chuck Dia: 4.2 meter Max Bed Length: 18 meter Max Load: 150 tons ***Mining:*** Max Table: 12 x 4 meter Max Travel (X,Y,Z): 12.0 x 4.0 x 3.5 meter	
Welding (TIG x18, Fabrication x10)	Max work piece: OD Diameter:0.2 ~ 6 meter Hight: 6.0 meter	
Other	Quality Inspection: NDT Function Test: SUT/FAT	

Product Range Overview

Primary Product

Description	Applications	# Models	Roller Diameter	Roller Width
CLM Series High Pressure Grinding Rolls (HPGR)	Metallurgical Milling	40+	250-3,000mm	100-2,000mm
CLF Series Roller Press	Cement Industry	60+	1,400-2,000mm	300-1,800mm
			Capacity	**Input Size**
Dry Magnetic Separator	Metallurgical Milling	2	150-500t/h	0-3mm
			Capacity	**Output Size**
CLXT Separator	Metallurgical Milling	2	255-828t/h	P80<0.074mm
Ultra Fine Classifying Screen	Metallurgical Milling	6	400-1,100t/h	0.5mm

HPGR/ Roller Press

Dry Magnetic Separator

CLXT Separator

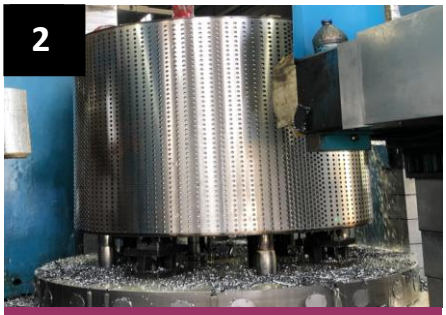
Ultra Fine Classifying Screen

Typical Manufacturing Flow

1

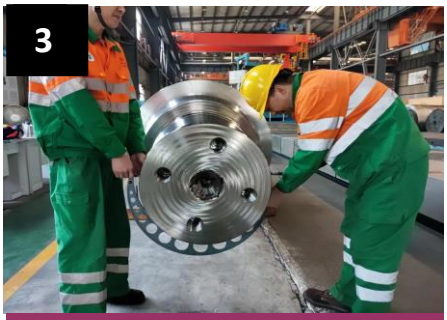
Rough Machining

2



Final Machining

3



QC Inspection

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Assembly

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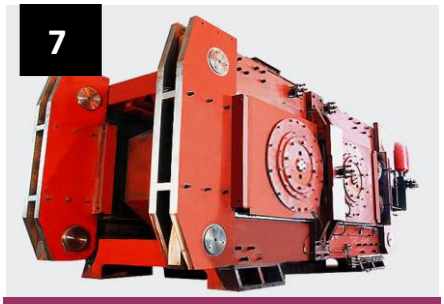
Test

6

External Painting

7



Final Inspection & Shipping

Machining Capabilities

CNC Machines

- CNC Horizontal and Vertical Lathe
- Horizontal Machining and Boring Center
- 5 Axis Turn-Mill Machine

Machine Tools List

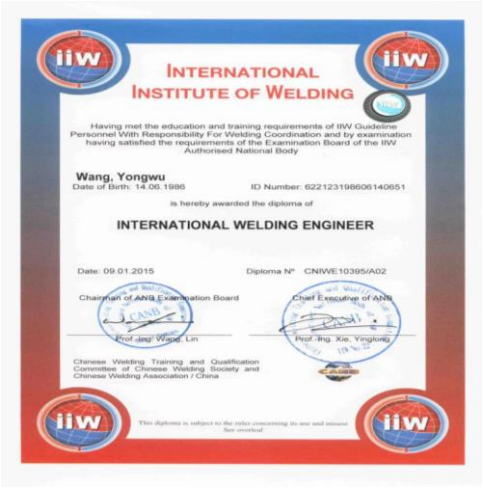
CNC Vertical Lathe	1
CNC Horizontal Lathe	4
CNC Horizontal MC	2
CNC Turn-Mill Centre	1
CNC Bore-Mill Centre	2
CNC 5 Face Gantry MC	1
CNC 5-Axis Turn-Mill Machine	1
CNC Non-ST Drill-Mill MC	1
CNC Vertical Milling machine	2
Milling and Drilling Machine	3
Vertical Mining Machine	2
Horizontal Lathe	3
CNC Waterjet Cutting Machine	1
CNC Hydraulic Bending Machine	1
CNC Hydraulic Shearing Machine	1
Universal Rolling Machine	1

Welding Capabilities

Leejun is certified with comprehensive quality requirements. It has extensive experience in cladding and fabrication welding and a dedicated area of more than 4,000 sq.m. The site has qualified welding engineering staff and highly experienced welders and welding operators. With vast experience and knowledge on cladding, Leejun consistently maintains high-quality standards and strives for continuous improvement.

Welding / Cladding Machines

- Mechanized GTAW cladding machines 2
- Shielded Metal Arc Welding Machines 3
- Manual TIG Welding Machine 18
- Manual MIG Welding Machines 10



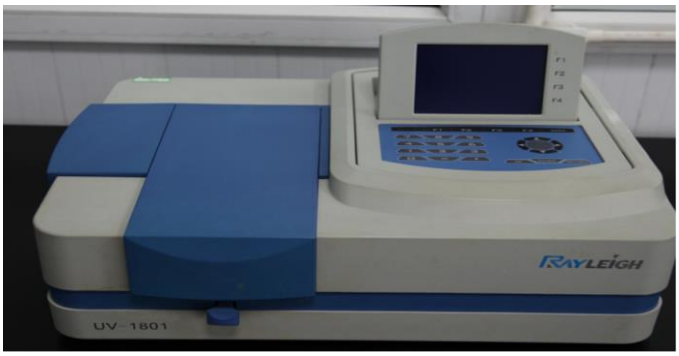
QC Capabilities

Inspection Method

- Magnetic Powder Test (MPT)
- Ultrasonic Test
- Hardness Test
- Dimension Inspection
- Surface Inspection
- Welding Groove Inspection
- Metallographic Examination
- Pressure Test
- Chemical Analysis

Inspection Equipment

- Mobile Optical Emission Spectrometers
- Hardness Testing Machine
- MPT Equipment
- Ultrasonic Flaw Detector
- Vernier Caliper
- Pressure Gage
- Electronic Universal Tester
- Impact Testing Machine
- Optical Spectrum Analyzer
- Ultraviolet Visible Spectrophotometer
- Malvern Laser Particle Size Analyzer
- Mineral Parameters Automatic Analyzer
- Metallographic Microscope
- Grain-abrasion Testing Machine
- Gauss Meter
- Roughness Measuring Instrument
- Micrometer
- Coating Thickness Gauge
- Coating Adhesion Tester
- Tesla Meter
- Angle Board



Assembly & Test Capabilities

Chengdu Leejun has extensive on-site assembly and test facilities to support product design and has allocated more than 10,350 sq.m. of its overall manufacturing area to product assembly and testing.

Assembly
- Assembly lanes fully equipped with tooling racks and lift tables

SUT
- Dedicated area
- Maximum test pressure: 3000 Psi

A&T Capability
- Effective height for stack-up process up to 8 meters
- Lifting capacity of 300 tons

R&D Center

Research and Development System

Leejun's technology research and development system is research center oriented, and supplemented by technology center. The R&D center is mainly engaged in the research and development of grinding system technology and equipment, mineral evaluation and process investigation, and the technical center is mainly engaged in the transformation of scientific and technological achievements, product design, sales, manufacturing and delivery.

Research and Development Platform

The R&D center consists of mechanical department, mining technology department, electrical automation department, and material systems department, as well as mining materials comprehensive laboratory and ore processing analysis laboratory, and established a research and development base with a construction area of about 3,200 square meters.

The company has invested a lot of money to build the analysis & test center and several fully automated industrial test lines. Introduced the advanced inspection and test laboratory equipment at home and abroad, and established an effective analysis and test verification system.

Industrial test lines Capability

- Determination of process parameters for the design of HPGR
- Production of test material for downstream processes
- Analyse feed characteristics
- Estimation of wear behaviour
- Examination of recirculation loads

Test Lab Capability

- Analysis of chemical composition of ore
- Phase analysis of minerals and metals
- Testing of mechanical properties of materials
- Hardness testing of metal materials

Leejun Facility Location

Leejun
#5 Wukedonglu, Wuhou district, Chengdu city, Sichuan province, China