

02

STRENGTH Display

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R&D STRENGTH

1.1 NEW PRODUCTS

ANNUAL R&D INVESTMENT EXCEEDS **60** MILLION YUAN

To establish a special fund for scientific research for

Material, Process, and Structural Innovation.

- Develop Strategic Product Development Plans Based on Market
- Conduct product targeted research and development according to customer requirements



R&D STRENGTH

1.2 R&D TEAM

R&D Team has a total of 171 technical staff, including 67 engineers and 33 with professional titles.

► TECHNICIAN **171** PEOPLE | ► ENGINEERS **67** PEOPLE | ► WITH PROFESSIONAL TITLES **33** PEOPLE

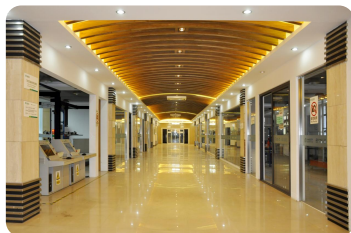
With development, 3H Group has always attached great importance to the cultivation and development of technical teams.

Through a high proportion of technical talents, to ensure that 3H Group can produce and develop more innovative and high-quality products.

R&D STRENGTH

1.3 CNAS LAB PATENTS

On May 29, 2015, the 3H Group Technology Center obtained the CNAS (China National Accreditation Service for Conformity Assessment) accredited laboratory for the first time. 3H Group has always placed independent innovation in an important position in corporate development, and continues to promote the enterprise spirit of "win-win cooperation and harmonious development", we continuously improve the company's comprehensive innovation and technological capabilities and are fully committed to "create value for construction".



- Number of Test Items - **242 items**
- Test Content - **Metal materials and door and window hardware, Rubber sealing strips**
- Detection Highlights -
 - The only one in the industry that can simultaneously detect metal materials, door and window hardware, and sealing strips for building doors and windows;
 - The only one in the industry that can detect the compression force of door and window sealing strips;
 - Some of the non-standard equipment are leading in the country, such as the comprehensive testing machine for tilt and turn, the horizontal push hinge testing machine, and the compression force testing machine for door and window sealant strips.

R&D STRENGTH

1.4 PATENTS

3H INC., has 360 product technology patents

Nearly 100 industry recommended products



MANUFACTURING STRENGTH

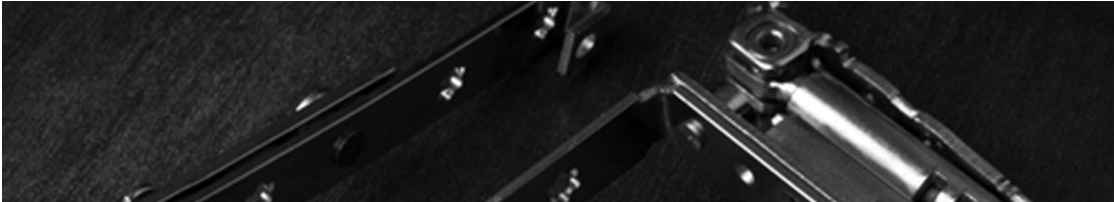
2.1 Production Scale

11 Major Production Workshops

Nearly 300 Production Lines

Workshop	Annual Production Volume
Zinc Die-casting Workshop	150,000,000
Aluminum Die-casting Workshop	62,000,000
Milling-finished Workshop	190,000,000
Spraying Workshop	62,000,000
Assembling Workshop	86,000,000
Hinge Workshop	35,000,000
Aluminum UPVC Workshop	90,000,000
Roller Workshop	7,500,000
Frition Stay Workshop	35,000,000

Create Value for Construction



Item	Daily Production Capacity
Handle	75,000
Hinge	50,000
Friction Stay	110,000
Roller	50,000
Transmission Rod	50,000

Total annual output is 35 million sets

Total annual production capacity is 45 million sets

MANUFACTURING STRENGTH

2.1 PRODUCTION SCALE

1. Integrated intelligent control large-scale die-casting production line

2. Intelligent robot operation line

3. Swiss Gema automatic coating line

4. Imported fully automatic assembly production line

5. Automatic stamping line

6. Automatic riveting line

7. Fully automatic injection molding production line

8. Germany KraussMaffei rubber extrusion production line



MANUFACTURING STRENGTH

2.2 ADVANCED AUTOMATIC EQUIPMENT

① Integrated intelligent control large-scale die-casting production line



· Central Furnace ·



· Thermostat Furnace ·

Equipment Quantity		Nearly 90 units
Monthly Production Capacity (PCS)	Zinc Alloy	> 14,300,000
	Aluminum Alloy	> 6,000,000
Main Products		Handles, Lock Cases, Panels, Sliding Locks, Corner, etc.
Main Process/Highlights		<div>1. Central furnace (precise temperature control) Constant temperature furnace (precise temperature control) Temperature control can better ensure the stability and hardness of the product</div> <div>2. Fully automatic intelligent solution distribution equipment</div> <div>3. Environmentally friendly and energy-saving natural gas melting process</div> <div>4. Fully automatic high-efficiency and energy-saving brand die-casting equipment</div>