Company Introduction





HORIZONTAL TUBE HONING SYSTEMS
HONING EXPERT

湖北利锐特自动化设备有限公司
Hubei Liruite Automation Equipment Co., Ltd

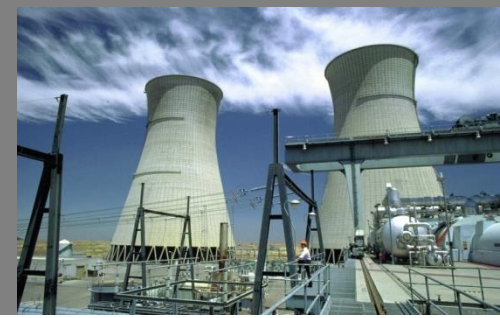
公司简介

Hubei Liruite Automation Equipment Co., Ltd. was established in 2010 and is a professional enterprise engaged in the research and production of machine tool equipment and automation equipment. At present, the company has Zhongxiang Branch, Suzhou Branch, Jinan Branch, and a group of excellent technical and management personnel who master modern high-tech theory and technology. The company has cooperated with the laboratory of Huazhong University of Science and Technology to develop the first high-precision deep hole horizontal honing machine in China, breaking the blockade and monopoly of imported products, receiving unanimous praise from military enterprises, and winning multiple bids for key projects in China. The six degree of freedom parallel platform developed by the company is widely used in flight simulation, automatic assembly, space docking, and other fields such as motion simulation and high-precision assembly docking









Team Introduction

Hubei Liruite Precision Electromechanical Equipment Co., Ltd. was founded by Yao Guo, a senior technical engineer from China Shipbuilding Industry Corporation 388 Factory. The company's current R&D team includes two PhDs, one master's degree, and four senior engineers. The company's core team consists of a total of 22 people, with a total of 54 employees. 35% have a bachelor's degree or above, and the company has a complete R&D, production, sales, and after-sales team

核心成员



YAO GUO
Born in 1977, a member of the Communist Party of China, with a bachelor's degree, founder of the company, and senior engineer; I am currently the General Manager and Mechanical Design Director of the company. I have participated in the research and development of national key projects multiple times and have developed the first high-precision deep hole honing machine in China, filling the gap in high-end honing machines in the country. The localization rate has increased to 95%



SHENG WEI JIE

Born in 1987, holds a Ph.D. in Automation from Southeast University and is a co-founder of the company. He is responsible for research and development of control algorithms and specializes in the technical development of artificial intelligence visual algorithms. Together, he developed the first honing machine control software with independent intellectual property rights in China, solving a market gap in the domestic market



LEE LI

born in 1988, is a member of the Communist Party of China and holds a master's degree from Huazhong University of Science and Technology. He is also a co-founder of the company and is responsible for product development and debugging.



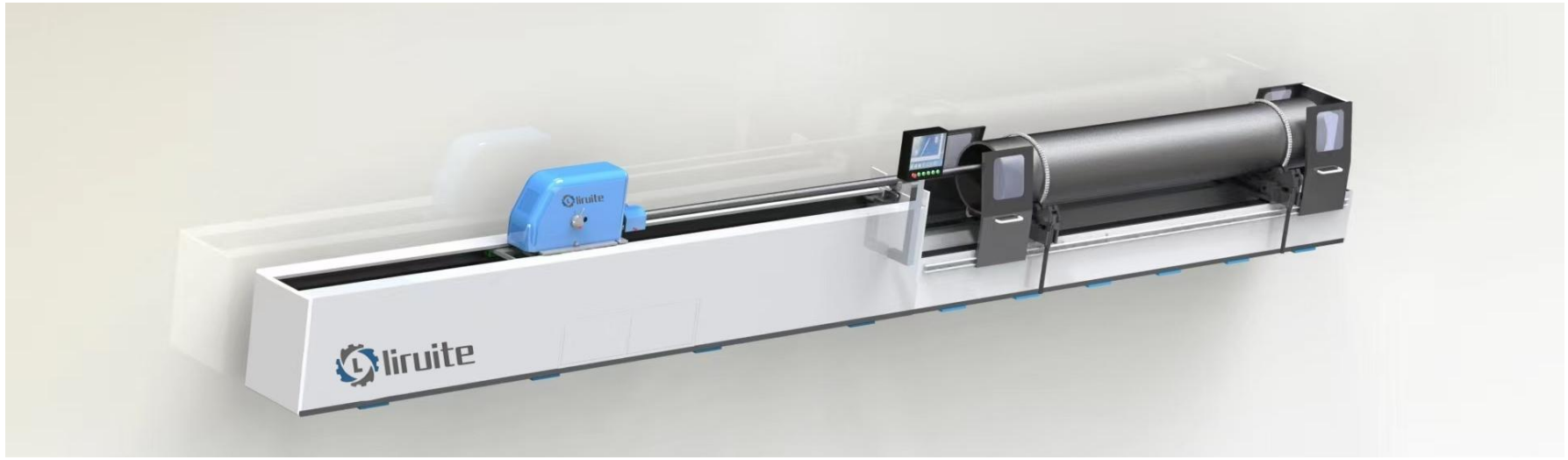
LIU JIANGUO
Born in 1987, Ph.D. from Southeast University, co-founder of the company, responsible for the development of electromechanical control, proficient in the design and development of navigation and navigation instruments



ADIAN XU

born in 1989, holds a bachelor's degree and is a co-founder of the company. He is responsible for market development, product promotion, and sales both domestically and internationally.

Product Introduction: JWH Series Heavy duty Deep Hole Honing Machine



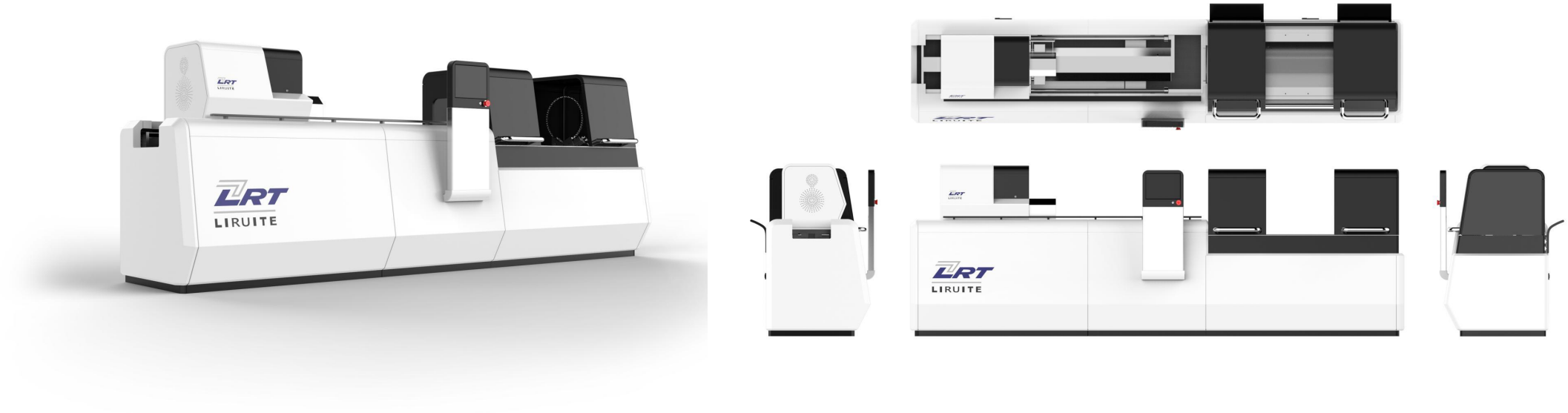
Intelligent, digital, short stroke automatic repair, real-time processing curve display;

High efficiency, with a coarse grinding and honing removal rate greater than 800cm3/h and a fine grinding and honing removal rate greater than 400cm3/h;

High precision, precision grinding and honing accuracy: H6-H8, roughness: Ra0.2 μ m-Ra0.4 μ m;

D： ϕ97 ~ ϕ1600mm
Max L： 12000mm

Product Introduction: 2 (SWH High end Deep Hole Honing Machine)



Intelligent operating system,

with a coarse grinding and honing removal rate greater than 600cm3/h and a fine grinding and honing removal rate greater than 300cm3/h;

High precision, precision grinding and honing accuracy: H6-H8, roughness: Ra0.1 μ m-Ra0.4 μ m;

D： ϕ25 ~ ϕ500mm
Max L： 10000mm

Product Introduction: Three (Vertical Honing Machine)



#Intelligent, digital, short stroke automatic repair, real-time processing curve display;

#High efficiency, with a coarse grinding and honing removal rate greater than 600cm3/h and a fine grinding and honing removal rate greater than 300cm3/h;

#High precision, precision grinding and honing accuracy: H6-H8, roughness: Ra0.2 μ m-Ra0.4 μ m;

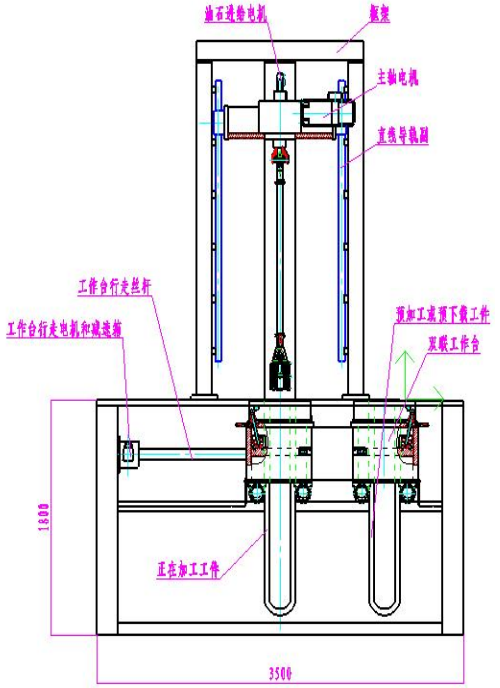
D：ϕ19 ~ ϕ250mm
Max L：450mm

Product Introduction: Four (Vertical Honing Machine)



JLH-2 series CNC vertical honing machine

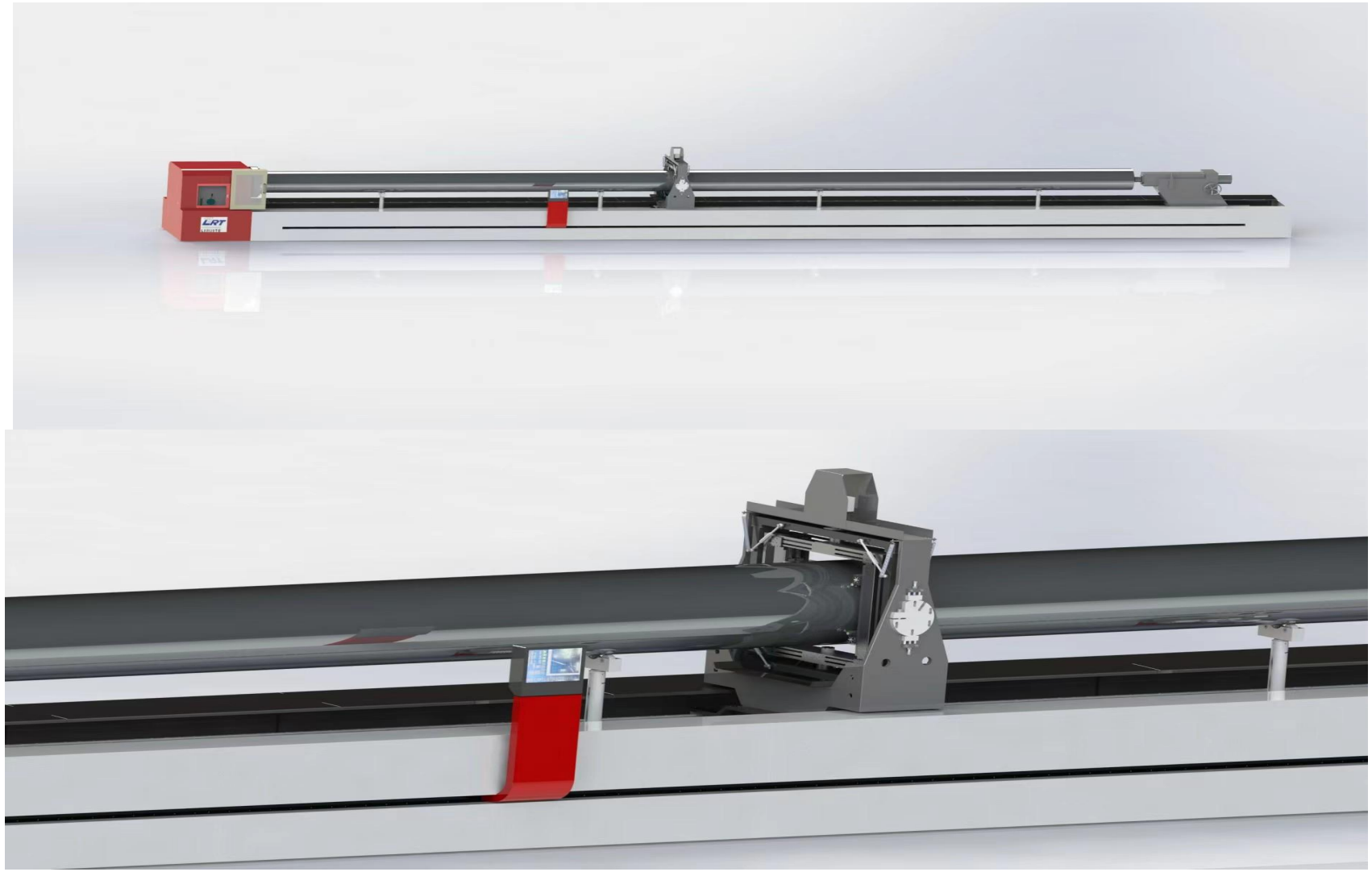
stroke: 200-1000mm
range: ϕ 30- ϕ 400mm



ZLH series CNC vertical honing machine

stroke 400-2500mm
range: ϕ 100- ϕ 2000mm

产品介绍：五（外圆珩磨机）



WHJ series CNC external honing machine

stroke 2000-20000mm
range: ϕ 80- ϕ 1000mm

Used for honing the outer circle of piston rods to increase surface smoothness and dimensional accuracy

Product Introduction: Six (Comprehensive Page)

liruite



Product Introduction: Seven (Tools and Oil Stones)











H70珩磨油石















珩磨油石H50

Product Introduction: Six (Applications of Parallel Robots-2)



某弹发射车辆驾驶模拟器



民航客机逃生模拟器



火炮运行模拟器

What else can we do?

1: Honing tools and tools compatible with imported honing machines

2: Small horizontal honing machine

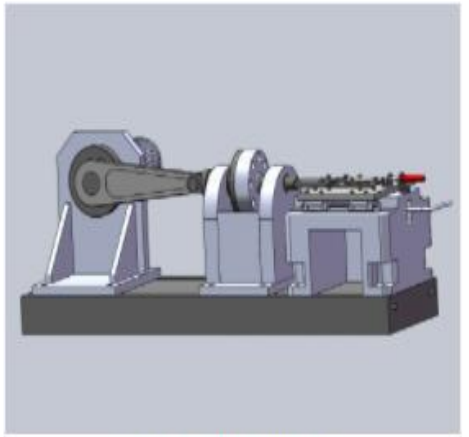
3: Specialized honing machine for slender holes

4: Honing oil and honing oilstone

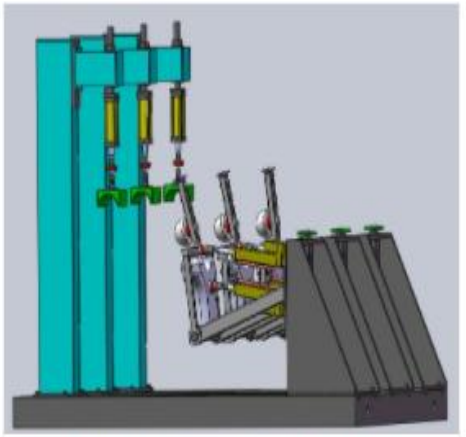
5: External honing machine

6: Manual honing tool

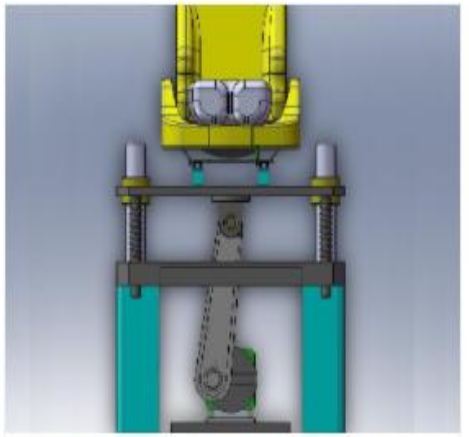
7: Research and production of other non-standard equipment



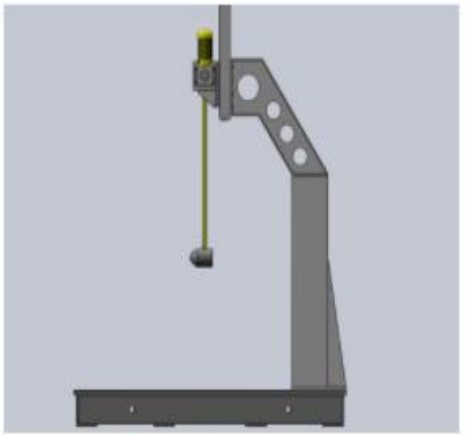
紧固件横向振动试验台



三通道汽车座椅头枕静态强度试验机

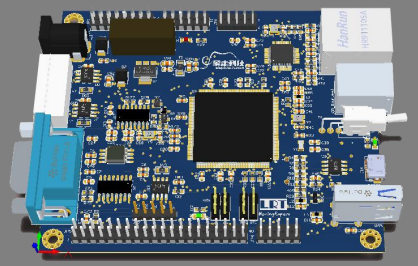


汽车座椅疲劳振动试验台（机械式）



汽车座椅头枕冲击实验台

产品介绍：数控系统



ARM 控制主板



电气控制柜



触摸屏工控机



人机交互界面

MOTHERBOARD

MULTI AXIS MOTOR INDUSTRIAL CONTROLLER, REALIZING INFORMATION INTEGRATION AND PROCESSING OF CONTROL SYSTEM, USING ARM ARCHITECTURE DISTRIBUTED INDUSTRIAL MOTHERBOARD, WITH STRONG MATHEMATICAL COMPUTING ABILITY AND RICH PERIPHERALS.

ELECTRIC CABINET

ELECTRICAL CONTROL CABINETS ARE DIVIDED INTO TWO TYPES: HORIZONTAL AND VERTICAL. THE SPINDLE ROTATION, RECIPROCATING MOTION, AND RADIAL FEED CONTRACTION MECHANISM OF THE HONING MACHINE ARE COMPOSED OF THREE SETS OF SCHNEIDER SERVO DRIVES AND SERVO MOTORS.

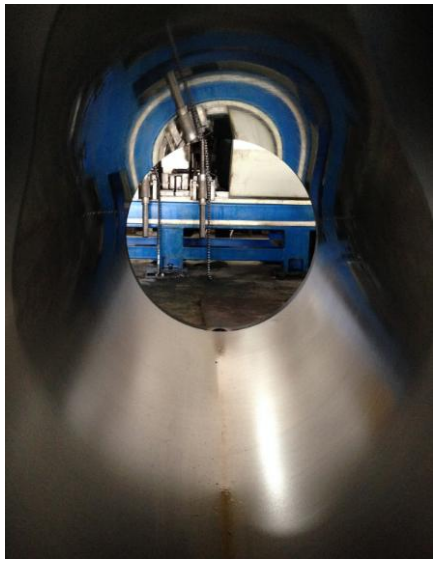
TOUCH SCREEN

15 INCH FULL TOUCH INDUSTRIAL COMPUTER, REALIZING DIGITAL CONTROL, INTELLIGENT AND HUMANIZED DESIGN. LIRUITE ELECTROMECHANICAL IS THE EARLIEST MANUFACTURER IN CHINA TO ADOPT TOUCH SCREEN INTERACTIVE CONTROL FOR HONING MACHINES.

NUMERICAL CONTROL

REAL TIME DISPLAY OF THE HONING PRESSURE TORQUE VALUE AT THE POSITION OF THE HONING HEAD, REFLECTING THE SHAPE ERRORS OF THE INNER WALL OF THE WORKPIECE IN A REALISTIC AND INTUITIVE MANNER. THE HIGHEST POINT OF THE INNER WALL OF THE WORKPIECE CAN BE AUTOMATICALLY CALCULATED AND DISPLAYED IN THE CURVE FOR EACH RECIPROCATING CYCLE, MAKING IT EASY TO REPAIR SHAPE ERRORS WITH SHORT STROKES.

Typical Case





THM

BAIYUNPORT 白云国际机场股份

天地科技

中国兵器工业集团 NORINCO GROUP

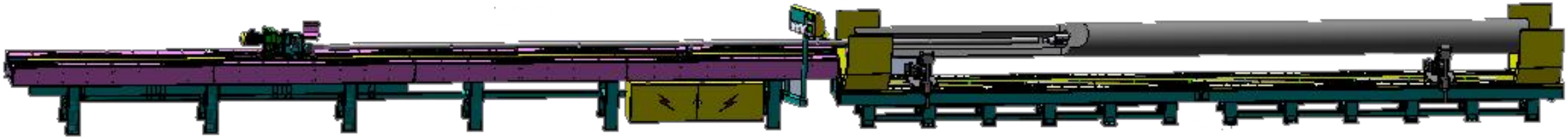
力安液压 LIAN HYDRAULIC

LiuGong 柳工 | Hold 鸿得利

ZHENG TENG

CSIC 中国重工 601989

中船重工中南装备有限责任公司
ZHONGNAN EQUIPMENT COMPANY LTD.



10米重型卧式深孔珩磨机

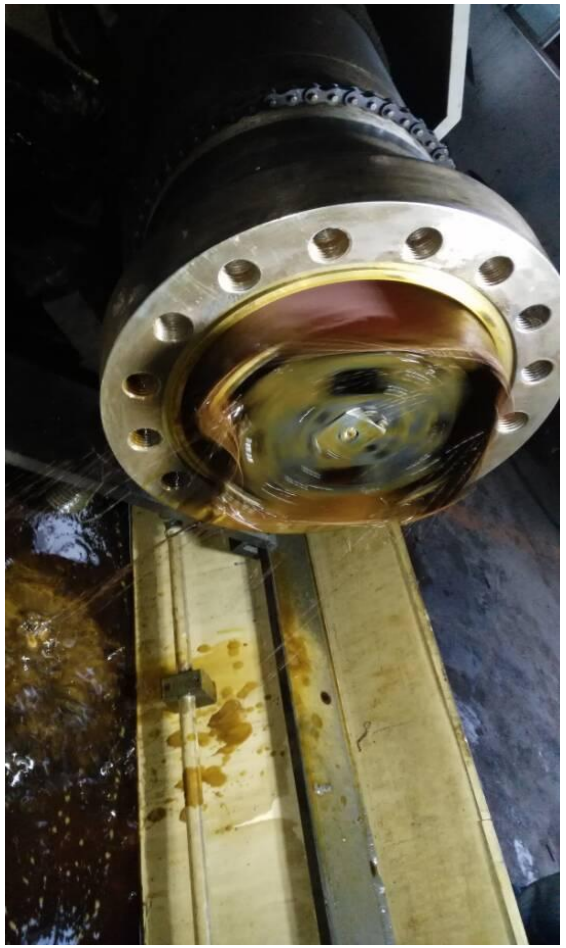


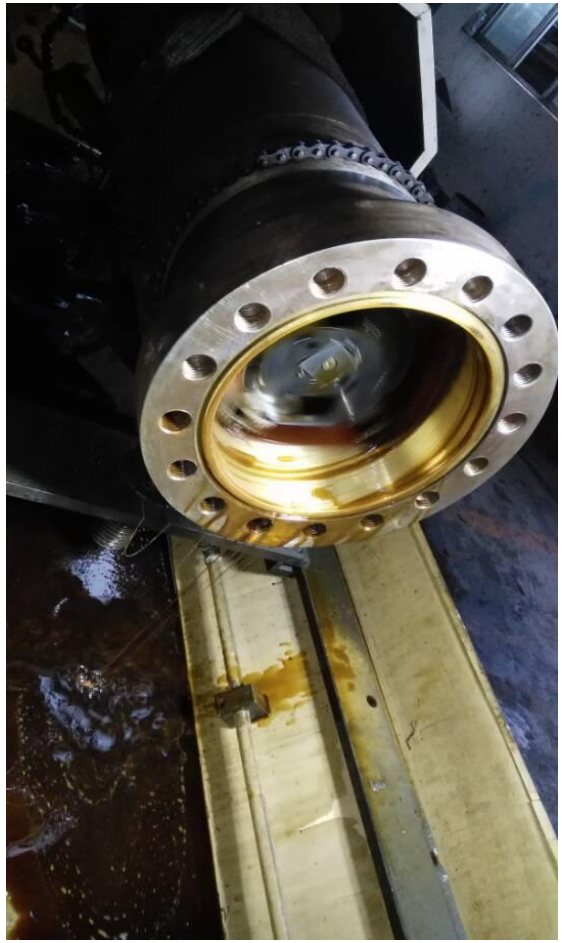
- 导弹发射管内孔

- 加工长度：10米
- 内孔直径：800mm
- 精度：H7
- 材质：不锈钢薄壁管，易变形

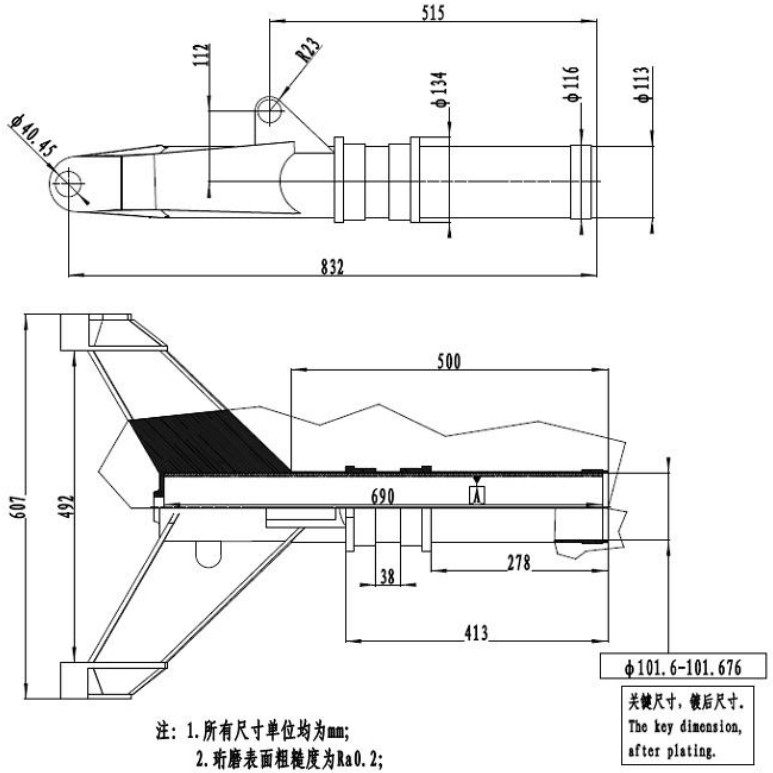
中船重工某部核潜艇部件加工



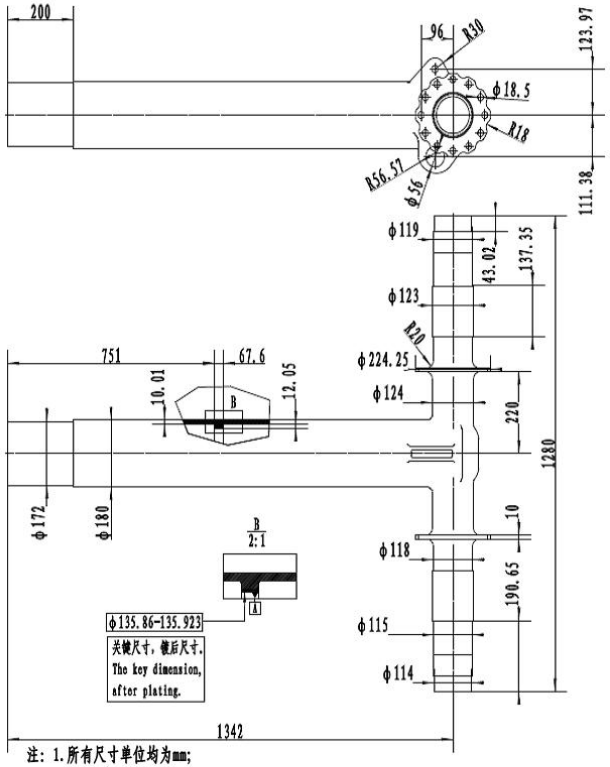




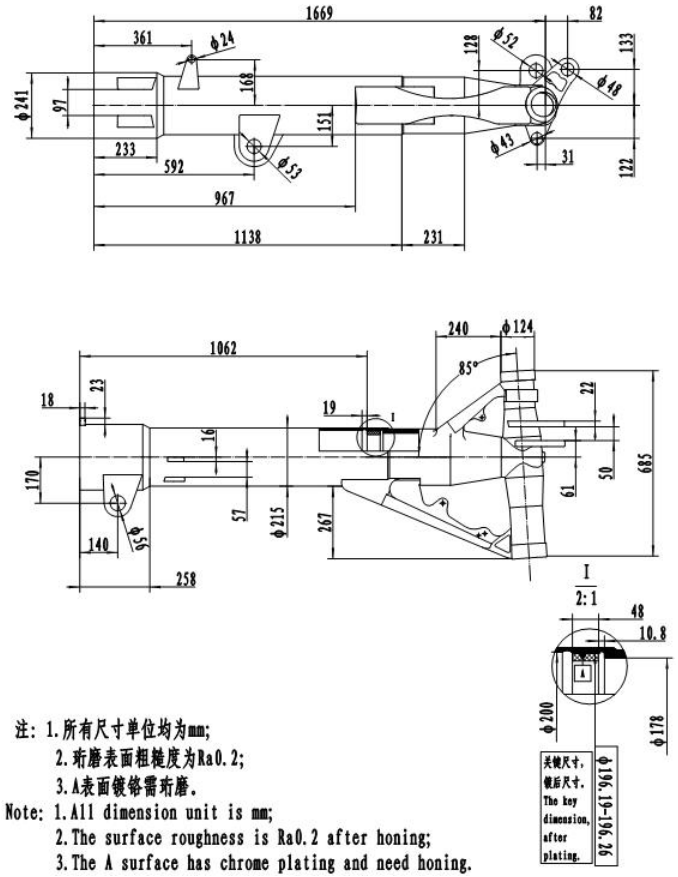
波音商用飞机起落架维修



注：1.所有尺寸单位均为mm；
2.珩磨表面粗糙度为Ra0.2；
3.A表面镀铬需珩磨。
Note: 1.All dimension unit is mm;
2.The surface roughness is Ra0.2 after honing;
3.The A surface has chrome plating and need honing.



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3.The A surface has chrome plating and need honing.

Typical Case





Typical Case

The high-speed axle of high-speed rail





Typical Case

China High-Speed Rail



The JWH-3000 honing machine has made significant contributions to the national high-speed rail core technology. In the core technology of high-speed rail, high-speed hollow axles have always been a foreign monopoly technology. In 2014, Jinxi Axle Co., Ltd., the actual holding company of China Ordnance Industry Group, overcame the technical difficulties of high-speed rail axles in four years from 2010 to 2014, and finally China's high-speed rail had its own axles. As a leader in domestic deep hole honing machines, our company's engineers and Jinxi Axle Company have organized more than ten technical seminars to develop a specialized small hole deep hole honing machine for axles, solving the machining accuracy problem of high-speed hollow axles.

THANK YOU

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