



**"Your dedicated specialist for the
manufacturing of mechanical parts in China"**

www.kirextechno.com

Our Industrial Expertise

Casting

EQUIPMENT

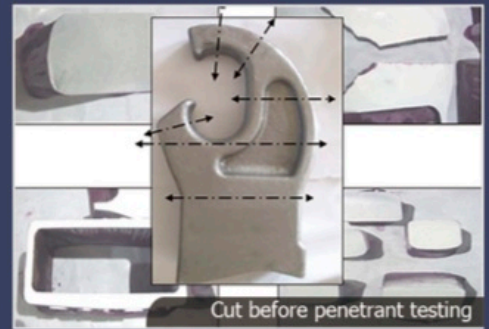
- Lost-wax casting (annual capacity: 8000T)
- Green sand casting & Resin sand casting
- Special processes: injection, low pressure, gravity

OUR EXPERTISE

- > Internal soundness – Surface quality:
 - Dye penetrant inspection
 - Magnetic particle inspection
 - X-Rays
- > Controls for each casting:
 - Chemical composition analysis of the alloy
 - Microstructure analysis
 - Mechanical properties (Rr, Re, A%, HB, Kv)



Lost-wax clusters



Cut before penetrant testing

Mecano-Welding

EQUIPMENT

- CNC plasma cutting (from 2 to 20mm)
- CNC flame cutting (from 5 to 400mm)
- CNC laser cutting (from 0.5 to 25mm)
- Vertical press up to 200T
- CNC press brake
- CNC punching - Bending
- MIG / MAG welding (from 55A to 300A)

OUR EXPERTISE

- > KIREX TECHNO is involved at every step:
 - Control of the raw material
 - Validation of the welding jigs
 - Sub-parts cutting control
 - Welding seams inspection
 - Surface preparation before painting
- > Welding, our Guarantee for High Quality:
 - EN287 certified welders
 - Welding seam qualified by:
 - Macro section - Ultrasonic test
 - Load test - Liquid penetrant test



CNC flame cutting



Control of welding jig with CMM arm

Machining

EQUIPMENT

- > CNC Machining:
 - Conventional & CNC lathes
 - CNC horizontal & vertical milling machines (up to 12m)
 - Conventional & CNC machining centers
- > Finish:
 - Reel grinders
 - Surface & cylindrical grinders
 - Lapping machine
 - Vibrator for deburring, degreasing and polishing



OUR EXPERTISE

- > Validation of the machining jigs
- > Design and realisation of customized control gauges
- > Control using 3D coordinate measuring machines
- > Surface treatments:
 - Cr6-free zinc coating, Burnishing, Dacromet
 - 500h salt spray test
 - Hot dip galvanizing

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KIREX TECHNO



Forging

EQUIPMENT

- > Stamping, swaging:
 - Hot stamping vertical press from 400T to 4000T
 - Horizontal press from 225T to 1250T
- > Deep drawing

OUR EXPERTISE

- > Validation of the mould
- > Dimensional control
- > Microstructure
- > Mechanical properties after heat treatment

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Heat treatments

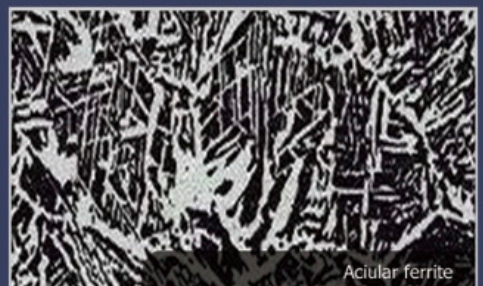
EQUIPMENT

- > Hardening and carburizing salt bath
- > Vacuum hardening
- > Annealing and stabilization

OUR EXPERTISE

- > Mechanical properties:
 - Hardness testing
 - Microstructure
 - Tensile testing at +QT state (Rr, Re, A%)
- > Non-destructive testing:
 - Magnetic particle inspection of quenching cracks

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Our goal: to deliver high quality products for your full satisfaction

Pre-study

- Complete analysis of the specifications
- Search of raw material equivalents
- Selection of the appropriate manufacturing process

Prototype

- Monitoring of the realisation of the toolings (moulds, jigs, dies...)
- Validation of the prototype according to the specifications (mechanical properties, dimensions, non-destructive testing)
- Sending the prototype to your company for crosschecking and validation

Batch production

While implementing the manufacturing process with our supplier, we formalize the quality control procedures to improve responsiveness and ensure the full compliance of the batch production with the technical requirements.

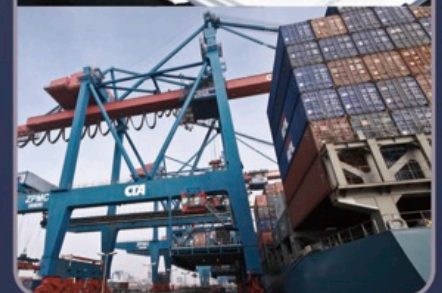
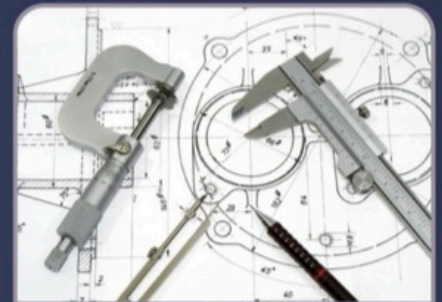
Our presence in the factory is essential during this phase, in order to carry out the controls and to validate the quality at each step.

Final inspection

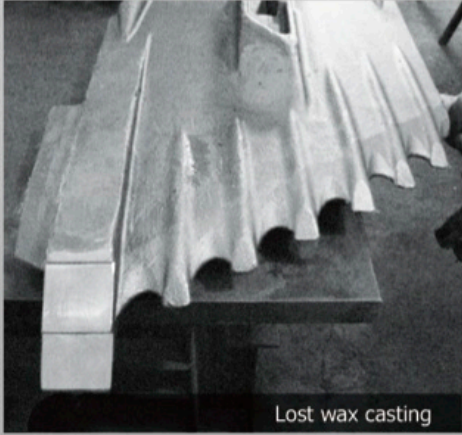
The final inspection is performed to validate the conformity of the batch at 100% according to the specifications.

Logistics

We provide logistics services by monitoring the routing of the goods, from our factory to your warehouse, and fulfilling the customs clearance requirements.



Made by KIREX TECHNO



Lost wax casting



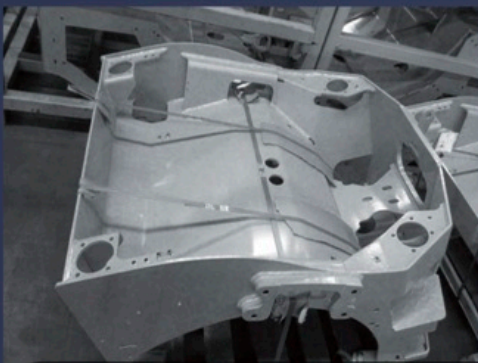
Packaging of forged junctions



Control of a welding jig



Non standard screw & Go/No Go gauges



Trolley cabin mecano-welded supports



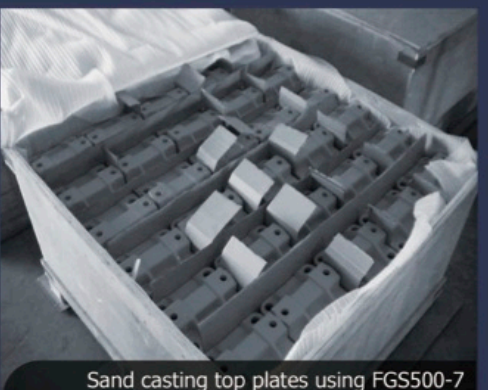
Control of the bores after the machining of casting parts



Lost wax casting fastening plates set



Friction rings mounted in precision bores



Sand casting top plates using FGS500-7

Our Factory Partners

A strong network built over the years: We have progressively established strong partnerships with factories located in the Yangtze delta region. KIREX TECHNO covers a wide range of manufacturing processes: casting, forging, mecano-welding, machining, heat & surface treatments, etc.

Your eyes in the factory: Based in Shanghai, our engineers travel daily in the factories to secure all key phases of your projects. Our leitmotif: delivering within due time products 100% conform to the specifications. We put to use our technical expertise to monitor every step, from project pre-study to sample validation onto batch production.

Very competitive prices: The long term relationship we have established with our industrial partners ensures we obtain very competitive prices and payment terms, and reliable production lead times.



"KIREX TECHNO

The European know-how at Chinese rates"

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