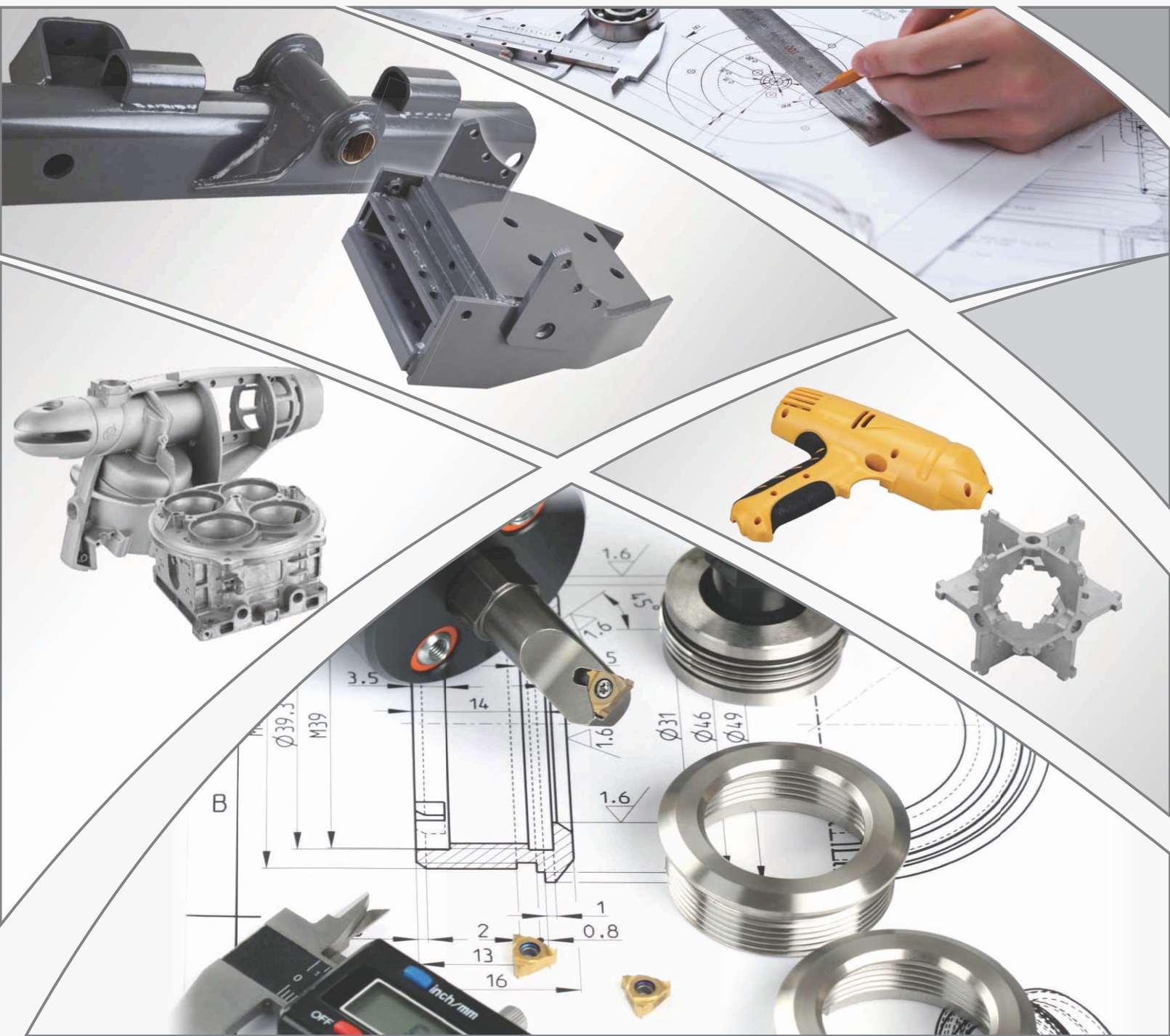




## Quality Components for the OEM

*Innovation   Efficiency   Quality   Sustainability*





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## Our Vision

Achieve the best industrial components solution for global OEM needs

## Our Mission

Haihui Industries is a customer-oriented industrial components supplier with a global commitment to provide our clients with a comprehensive solution by using up-to-date technology, state-of-the-art facilities and international partnerships

## Core Value

**Innovation Efficiency Quality Sustainability**



## Competitive Advantages

- Management system is ISO 9001:2008 Certified
- ERP Management System ensures smooth operation
- Combination of manufacturing and trading activities, provides customers with a comprehensive one-stop solution
- Rich experience in export business, understanding of technical, material and quality standards worldwide, especially for EU & North America countries
- Knowledgeable and experienced R&D team assists clients to develop products from concept through prototype to mass production
- Reasonable stocks meet customers call-off requirements



Haihui Industries offers customers a comprehensive project management service which includes practical consulting solutions to your custom manufacturing requirements. We are skilled professionals with long experience at supplying OEM components to the following industrial sectors:

- Sheetmetal
- Stamping
- Deep Drawing
- Aluminium (Zinc) Die-casting
- Investment Casting
- Plastic Injection Molding
- CNC Machining
- Product Design

### Project Development Process

- Understanding the customer's requirements
- Feasibility and capability study
- How are we going to do it? 5W1H
- Design and prototyping
- Advanced Production Quality Planning (APQP)
- Quality requirements, Process flow, Control plan, FMEA
- Tooling (Design and Manufacture)
- ISIR, PPAP samples
- Mass Production
- Logistics
- Value Stream Mapping (VSM)



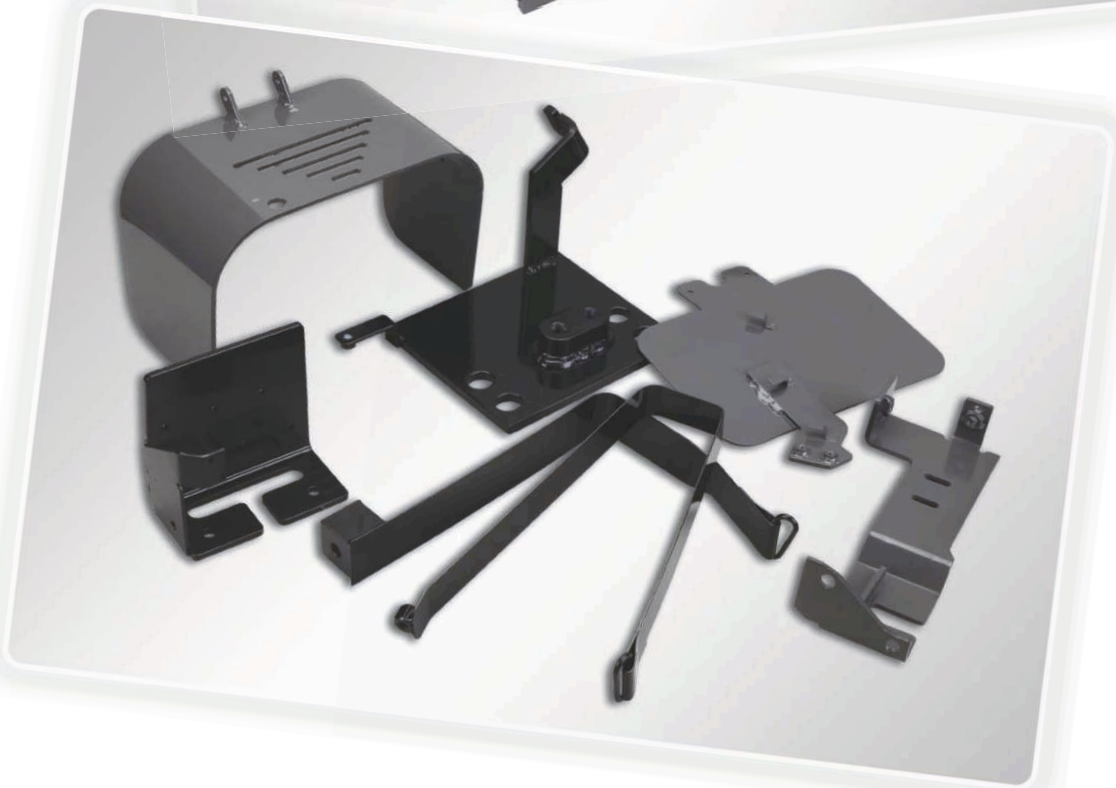
## Sheetmetal - Automotive OEM Components

- Customers: GM, Volkswagen etc.
- Material: DC01(ST12), DC04(ST14, ST15), ST37-2G, ST44-3G, ST52-3G etc.
- Surface treatment: Electrophoresis, or as per required.
- Machine Capacity: 1,200 tons, maximum part size: 200x150cm



## Sheetmetal - Agriculture Machinery OEM Components

- Customers: AGCO, New Holland and John Deere etc.
- Material: DC01(ST12), DC04(ST14, ST15), ST37, ST52, ASTM A36, AISI 1010, AISI 1020, Q235B, Q345B etc.
- Surface Treatment: Electrophoresis, Walspar painting, powder-coating, zinc-plating etc.
- Maximum Cutting Capacity in Thickness: Plasma - 60mm, laser cutting - 25mm







Sheetmetal - Agriculture OEM Components

## Sheetmetal - Products for Various Industrial Applications

- Material: DC01(ST12), DC04(ST14, ST15), ST37, ST52, ASTM A36, AISI 1010, AISI 1020, Q235B, Q345B etc.
- Surface Treatment: Electrophoresis, painting, powdercoating, zinc-plating, hot dip galvanization, chromium plating, nickel plating etc.







## Sheetmetal - Products for Construction Industry



- Roof Gutter Brackets and accessories for EU markets



- Tools and accessories for North America construction industry  
Customers including RONA and the Home Depot etc.

## Plastic Injection Molding

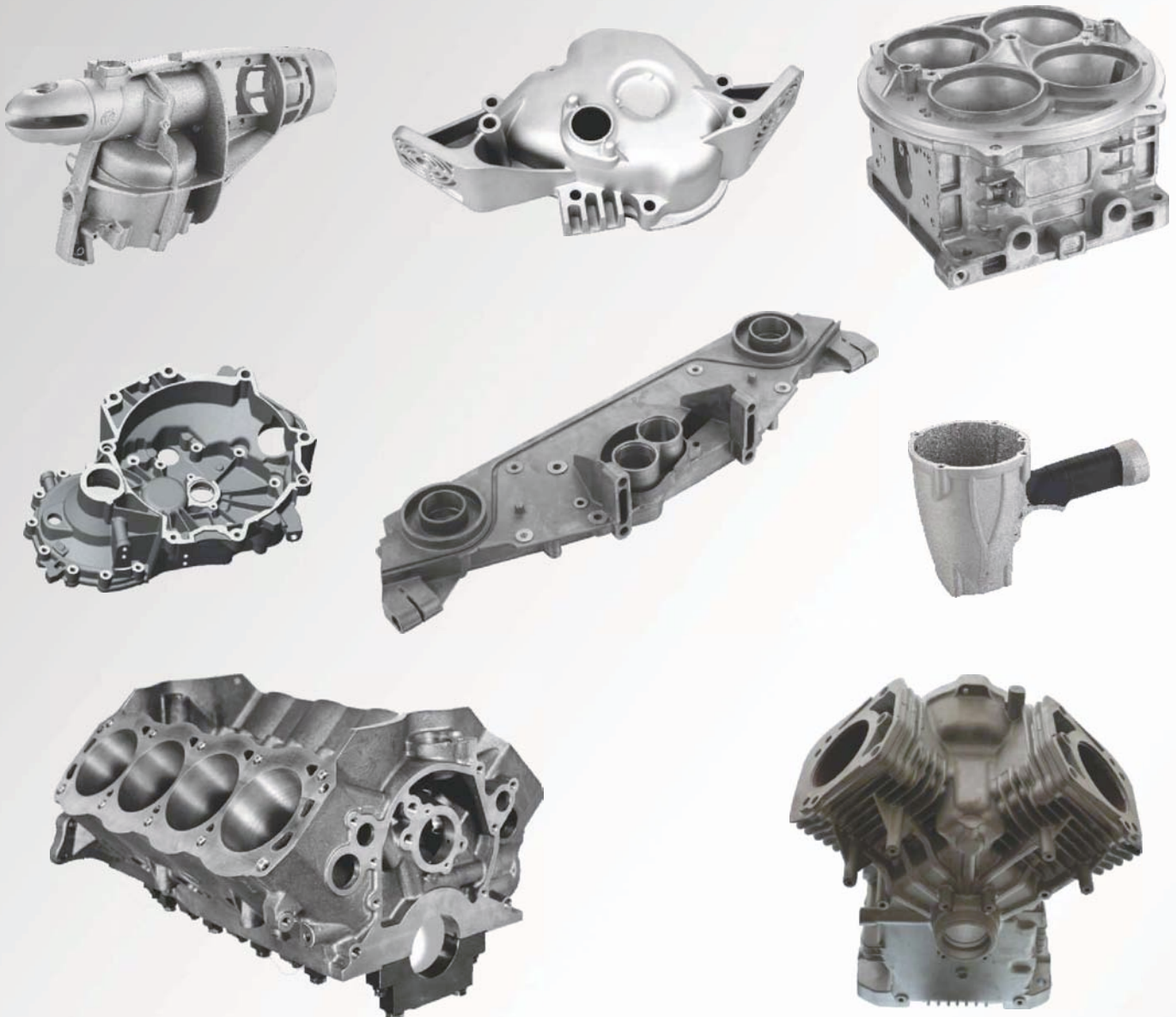
- Mouldbase: LKM, HASCO, 1.1730, S50C, S55C, 1050, 1055
- Active Elements: P20, 1.2311, 1.2312, 1.2738, 1.2343, 1.2344, H11, H13, 420  
 ASSAB: 718, 718S, 718H, S316/S316H/S316 SUP/S316H SUP, POLMAX/168  
 SAARSTAHL: GS738, GS2311, GS2312, GS638, GS688, GS2316  
 DAIDO: NAK80, NAK55, PX88, PX4, PX5, S-Star(A)  
 BOHLER: M201, M202, M238, M300 ESR, M310 ESR, M310H ESR
- Hotrunner: YUDO, INCOE
- Mould Surface: Photo etching, erode structure, shot blaster, line polishing, high gross polishing, mirror polishing
- Machines: 100-3,000 ton closing force, part weight: 1-15,000 g.





## Aluminium (Zinc) Die-casting

- We make final product including tooling construction design, tooling manufacturing, CNC machining, surface treatment and assembling
- We also make die-casting tooling according to customers' requirements for export.
- Core Element Material: H13, 1.2344 (X40 CrMoV51), 1.2367(X38CrMoV5-1), H11, 1.2343 (X38CrMoV5-1)
- Bolster Material: P20, 1.2312, 1.2738
- Standard Components: HASCO standard
- Popular Product Material: AL226, AL230, AISi10Mg, A380, ADC12, ADC10, Zamak 3, Zamak 5, ZA8 etc.
- Product Surface Treatment: Brush, line polishing, high gross polishing, mirror polishing, sand blaster, anodizing, zinc-plating, chromium-plating, nickel-plating, powder coating, silver coating etc.
- Maximum Machine Closing Force: 2,700 tons, part weight: 5 - 30,000g





➤ Auto Parts



➤ Zinc Die-casting



➤ Tremec - Folk for Trasmission Box



➤ Auto Parts - Chromium Plating



➤ Washing Machine Component



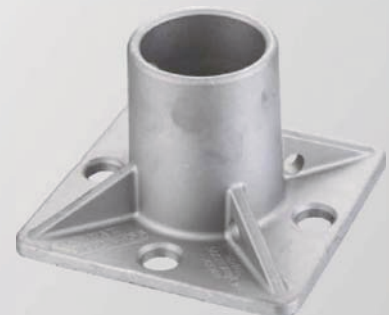
➤ Machining & Powder-coating



➤ Machining , Powder-coating  
Assembling



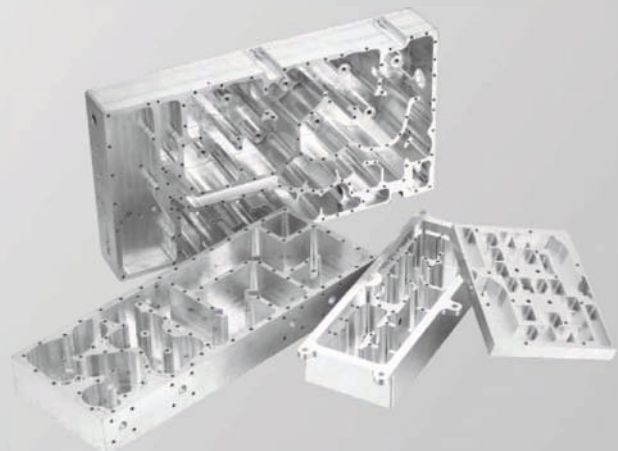
➤ High Gross Polishing  
Chromium -plating



➤ Aluminium Die-casting



➤ Die-casting, Brushing Surface



➤ Telecommunication Parts, Machining & Silver Coating

## Foundry

Professional in providing service for:

- Sand Molded Casting
- Investment Casting
- Gravity Casting
- Lost Foam Casting
- Material: Aluminium Alloys, Copper Alloys, Carbon Steel,  
Stainless Steel(1.4301, 1.4571, 304, 304L, 316, 316L etc.)
- Also providing CNC machining and surface treatment services as per required





### Aluminium Gravity Casting & Machining



### Brass Gravity/Investment Casting & Machining



## CNC Machining Parts

- Material: Stainless steel, carbon steel, alloys, aluminium, copper, sinter parts etc.
- Material Pre-treatment: Extrusion, hot forging, cold forming, investment casting, die-casting.
- Surface Treatment: Anodizing, zinc-plating, chromium-plating, nickel-plating, laser marking, blackening etc.







Stainless Steel Machining Parts



Sinter Parts



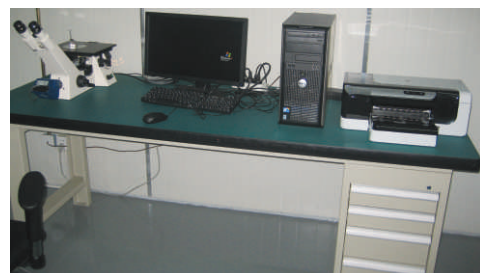
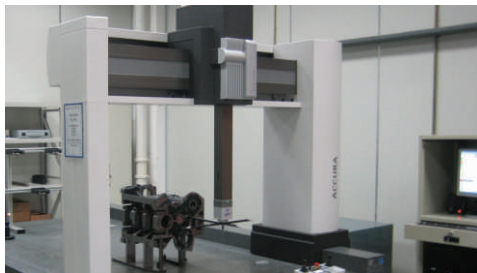


## Quality Assurance

The most rigorous quality policy starts from material control and is followed through to final pre-shipment inspection.

In supplement to our own QC facilities, we co-operate with global recognized laboratories with the following facilities:

- CMM (Coordinate Measuring Machine)
- Projector
- Spectrometer
- X-Ray Tester
- Metallographic Microscope
- MPT
- Tensile Tester
- Hardness Tester
- Salt Spray Tester
- Digital Plating Thickness Meter



## Surface Treatment

International standard of surface cleaning, pickling, corrosion protection, passivation, phosphating, coating surface as well as RAL and Pantone color standard powder-coating, painting, high gross polishing, laser marking, tampon printing are available.

The processes include zinc plating, hot dip galvanizing, zinc alloys, brass, bronze, white bronze, chromium plating, hard chromium, nickel plating, tin plating, copper plating and silver coating etc.

Dacromet, Delta-MKS, SurTec surface treatment technology applicable for various parts. Chromium (VI) free zinc plating corrosion protection, salt spray test against red ranged from 240 to 2,000 hours.

In accordance with our clients' requirements, our supplier is authorized to produce parts that meet surface standards issued by the following companies: BMW, Daimler Chrysler, Fiat, General Motor, Jaguar, Landrover, Porsche, PSA, VW, Volvo, Continental Teves, Kamax, Knorr-Bremese, Liebherr, MAN, TRW, VDA and ZF.

BETA FER G253 pickling for stainless steel parts, mineral acid pickling for iron and steel, pickling and brightening for aluminium parts are also available.



Coating



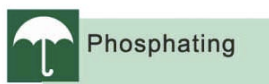
Micro  
Technology



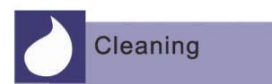
Corrosion  
Protection



Passivation



Phosphating



Cleaning



Colouring



Pickling



Delacquering



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