

迈迪夫工具介绍

Company Introduction of MDF

人本 Human-oriented

开放 Openness

创新 Innovation

敬畏 Heart of Awe

COMPANY INTRODUCTION



- **MDF=MAKING DIFFERENCE,**
- **Founded in May, 2019**

- **A Technical Based Company**
Focus on machining solutions

- **Products:**
Focus on hole making tools

- **Stable Quality:**
When you make scrap tool, make 100 pcs same!

- **Service:**
Focus on customer' demand, we make tailor made solutions.

切削创造价值 Cutting Creates Value

MDF TEAM

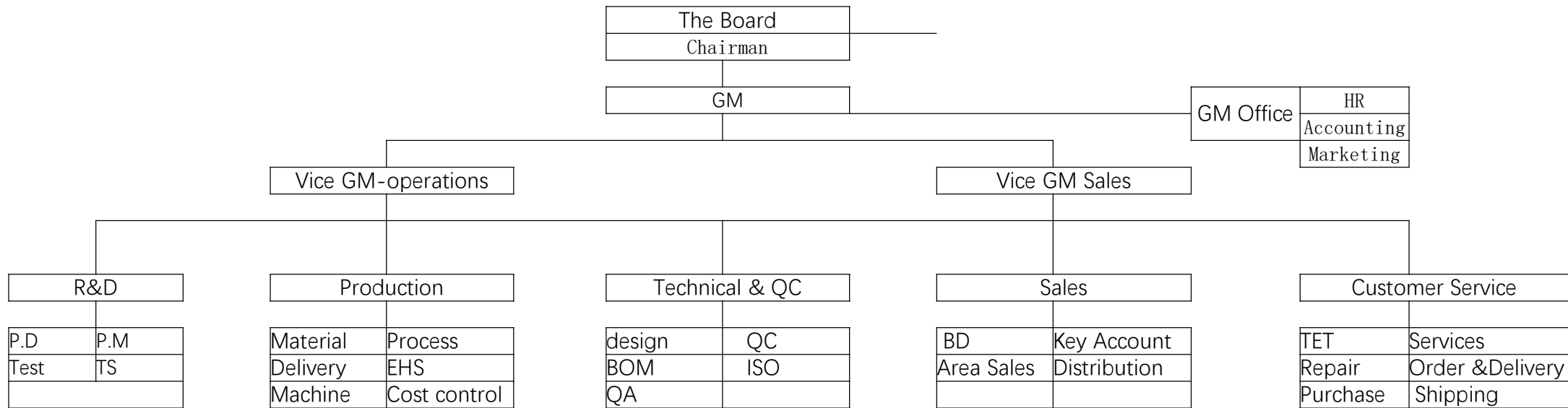


- Management team from global brands: Mapal, Guehring, Komet, Sumitomo
- Management team have more than 15 years experience in cutting tool industry
- Key workers have more than 10 years experience
- Total 75 employee, 19 engineers, 16 master workers, 47% technical-based employee



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MDF Organization



切削创造价值 Cutting Creates Value

MDF Hard Ware—PCD Production Line



- Best machines is the basic factors to produce stable quality products.



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MDF Hardware—SC Production Line



- Best machines is the basic factors to produce stable quality products.

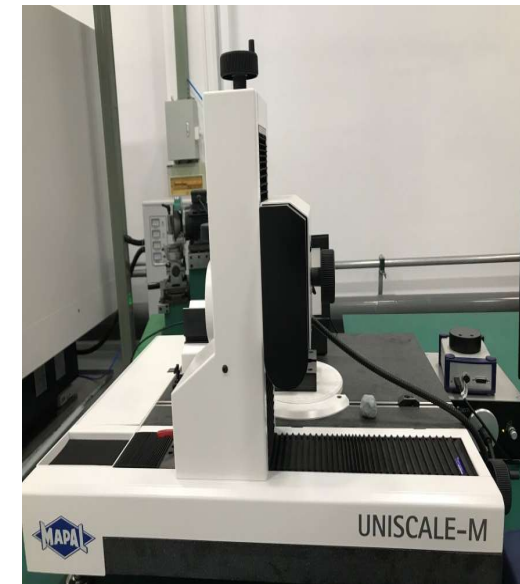


Wheel dressing

5X Grinding machine

Edge Honing

Messuring



切削创造价值 Cutting Creates Value

MDF Hardware—FBT Production Line



- Best machines is the basic factors to produce stable quality products.

CNC Turning /milling



Balancing



Grinding



Messuring



切削创造价值 Cutting Creates Value

MDF Products

- MDF¹⁺ Mills for Aerospace
- MDF²⁺ SCD Drills 2F
- MDF³⁺ SCD Drills 3F
- MDF⁵⁺ ISO Boring Tool
- MDF⁶⁺ HSR Reamers
- MDF⁷⁺ PCD Tools
- MDF⁸⁺ FBT with Guide Pad
- MDF⁹⁺ Generating Tools
- MDF^{H+} Inserts & Blades
- MDF^{S+} Project Services



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MDF Quality Control

- “All Employee + Full-Process” Quality Control System
- Quality starts from Design, Quality from detail
- Know How+ Know Why+ Process Control
- High Precision Equipment



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MDF SOP



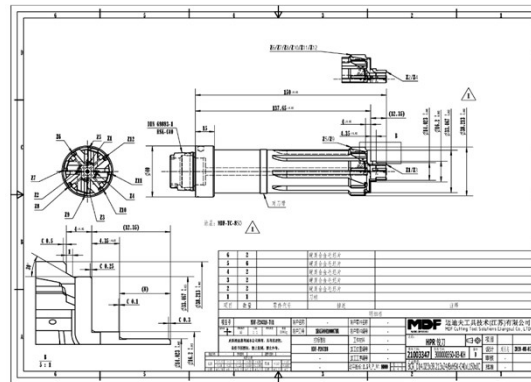
Project Onsite Service



Labeling



Packing



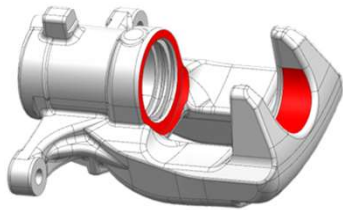
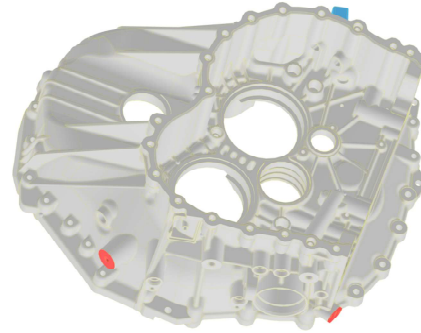
Drawings

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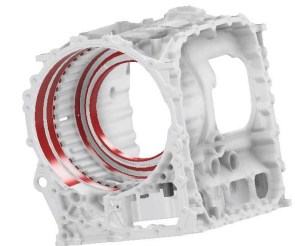
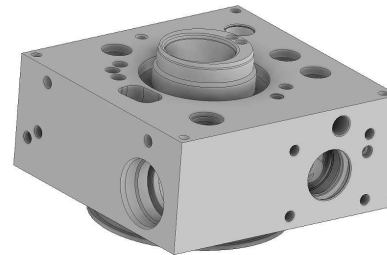
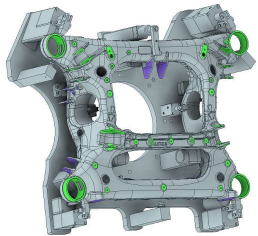
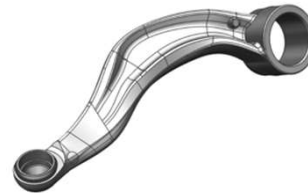
MDF Customer



MDF Strategic Components



Control arm



切削创造价值 Cutting Creates Value

● 汽油机缸盖加工

Machining of Cylinder Head



Key Solutions:

- PCD Face Milling
- Valve Seat/Guide Parent Bore
- Valve seat/guide finishing
- Cam bore
- Injection bore
- Spring seat bore



切削创造价值 Cutting Creates Value

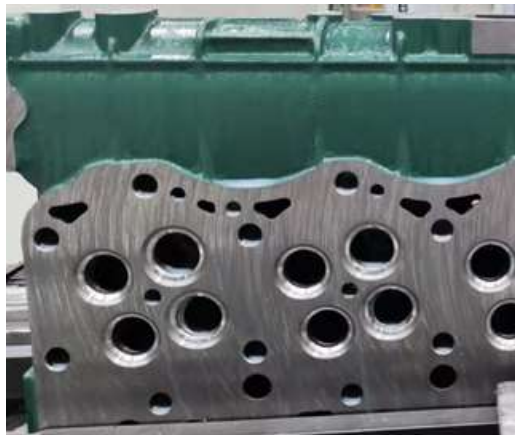
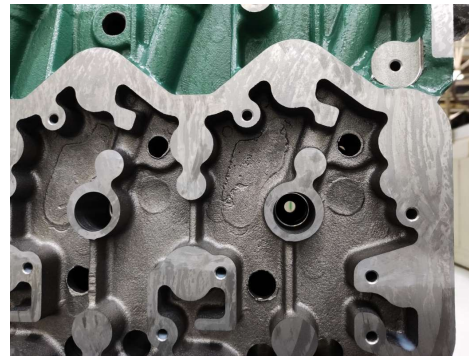
● 柴油机缸盖加工

Machining of Cylinder Head-Diesel Engine



- Valve seat/guide
- parent Bore
- Injection Bore

Valve seat /guide:
Finish machining



切削创造价值 Cutting Creates Value

● 缸孔加工

Machining of Cylinder Bore

Rough Boring:

- Tangantal Insert, low cutting force, high speed
- Multi-Teeth design, high feed



Fine Boring-Cylinder Bore:

- FBT, high precision
- Twin insert, high feed
- 6-edge blade, low CPP



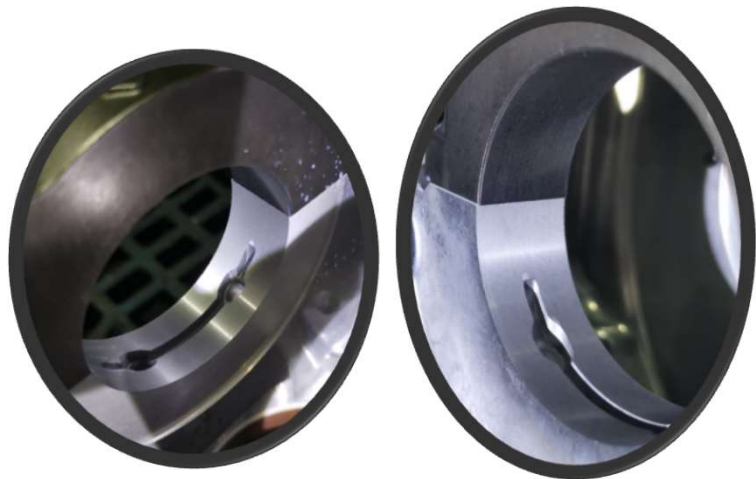
Generating tool:

- Combination 5 in one
- High efficiency
- ISO inserts, low costs



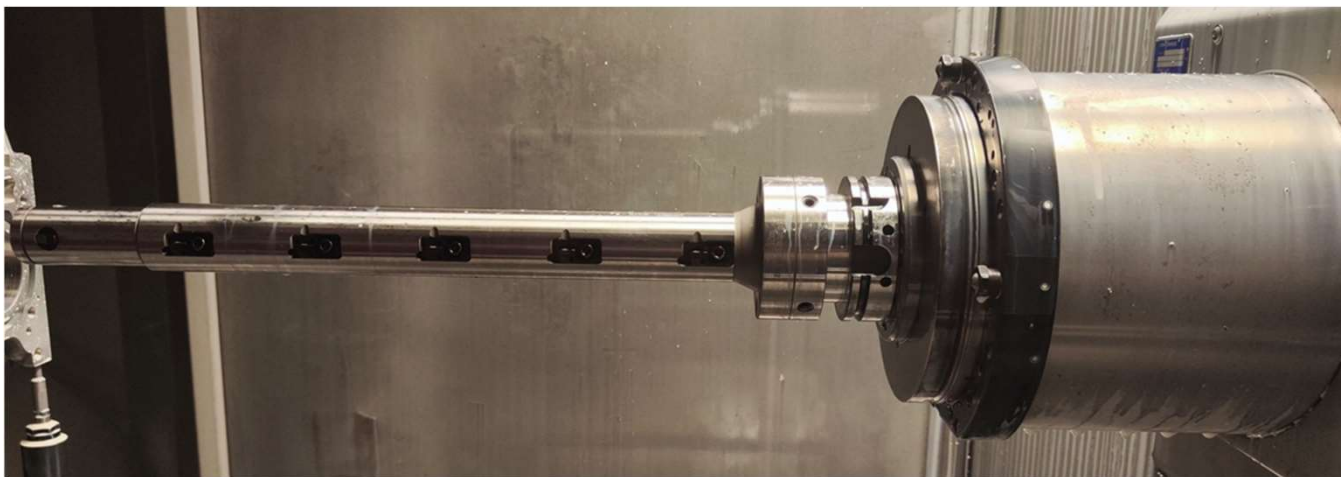
切削创造价值 Cutting Creates Value

● 曲轴孔/凸轮轴孔精加工
Machining of Cam/Crankshaft Bore



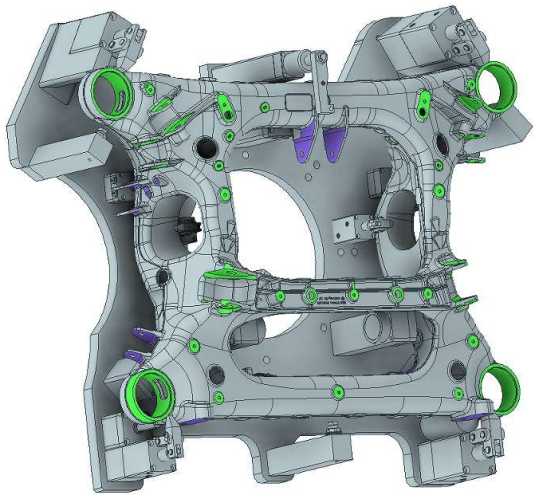
| 项目 | 测量值 | 评判 |
|---------------|---------|----|
| Diameter | Φ57.012 | OK |
| Roughness | Rz5.85 | OK |
| concentricity | 0.0087 | OK |
| Roundness | 0.005 | OK |

| 描述 | |
|--------|---|
| ▲ 刀号 | T1001 |
| ▲ 刀具名称 | Line boring bar |
| ▲ 加工区域 | Cam bore |
| ▲ 参数 | S=1000 r/min F= 120 mm/min |
| ▲ 亮点 | 1.高效、经济； 2. 铝合金+铸铁，双金属加工； 3.加工精度稳定， |



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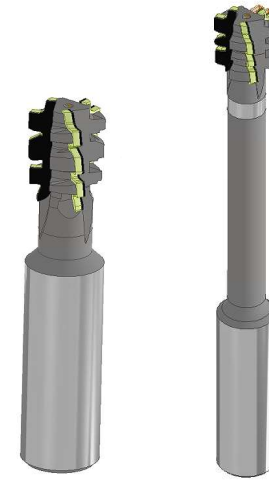
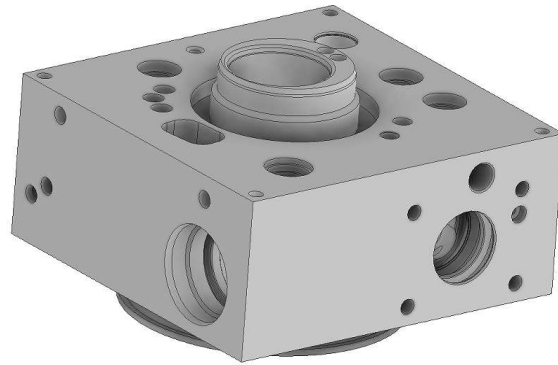
● 副车架加工
Machining of Chassis Frame



切削创造价值 Cutting Creates Value

● ABS/BSC阀体加工

Machining of ABS/BSC Valve Body



切削创造价值 Cutting Creates Value

● 变速箱壳体加工

Machining of Transmission Housing

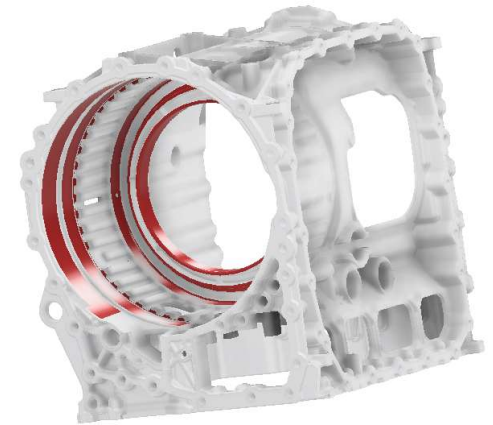
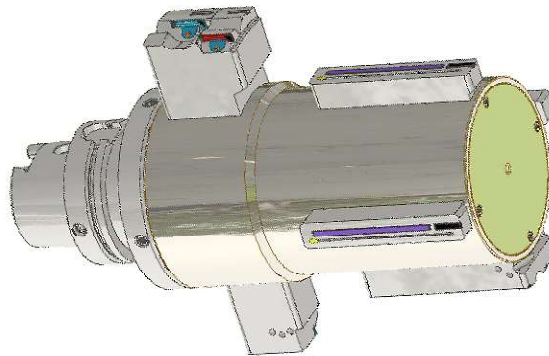


切削创造价值 Cutting Creates Value

● 新能源电机壳体加工 Machining of EV Housing

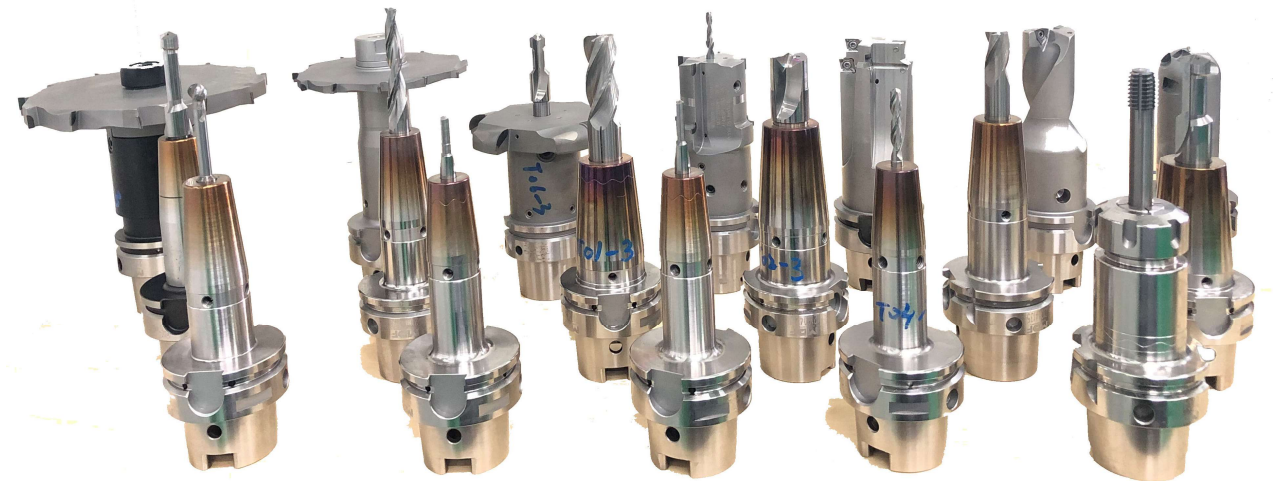
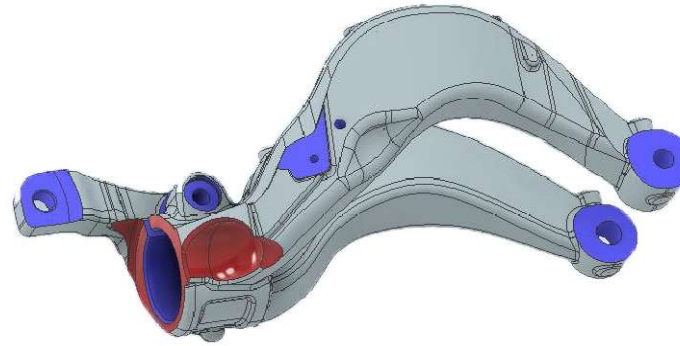
Key points:

- Light weight design
- High efficient, Precision
- FBT, μ -adjustment



切削创造价值 Cutting Creates

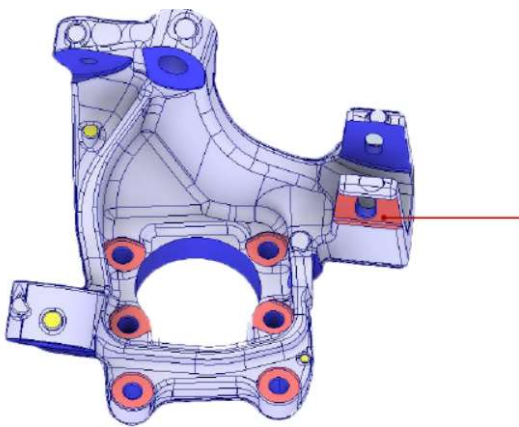
● 减震器叉臂加工
Machining of Fork



切削创造价值 Cutting Creates

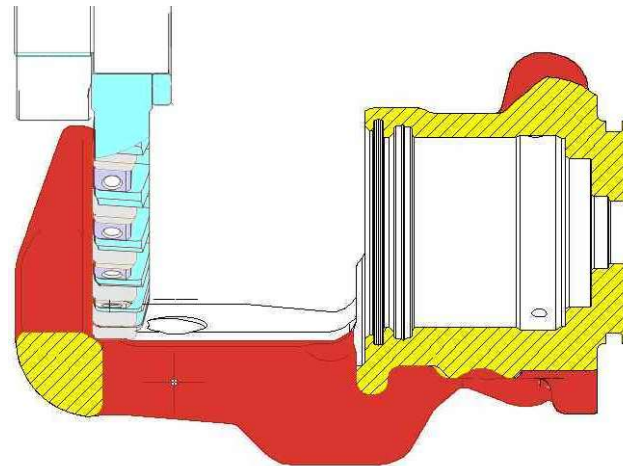
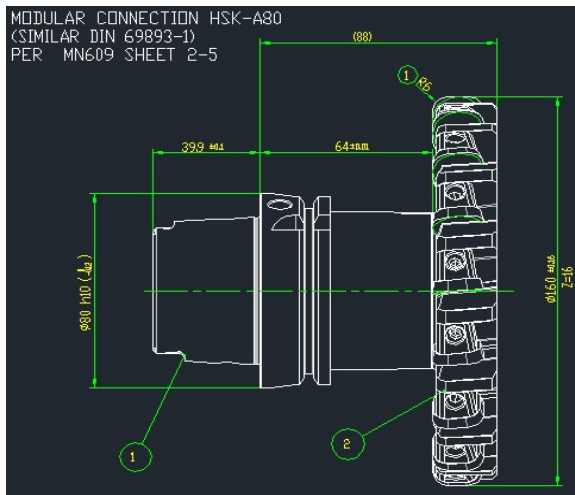
● 转向节加工

Machining of Steering Knucle

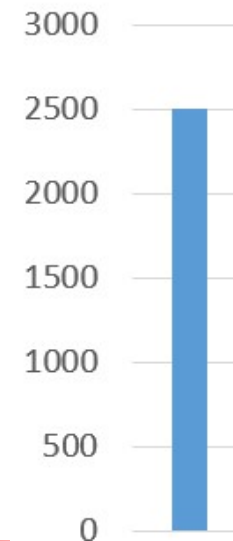


切削创造价值 Cutting Creates

● SOLUTIONS-Brake Caliper



寿命:件/刃



| Technical Data | |
|--------------------|---|
| ▲ TOOL | Indexable Side Milling |
| ▲ OP | Side milling |
| ▲ Parameter | S= 400 r/min F= 400 mm/min |
| ▲ Customer benefit | 1. One-shot high efficient 2. Multi-edge; Low cost |

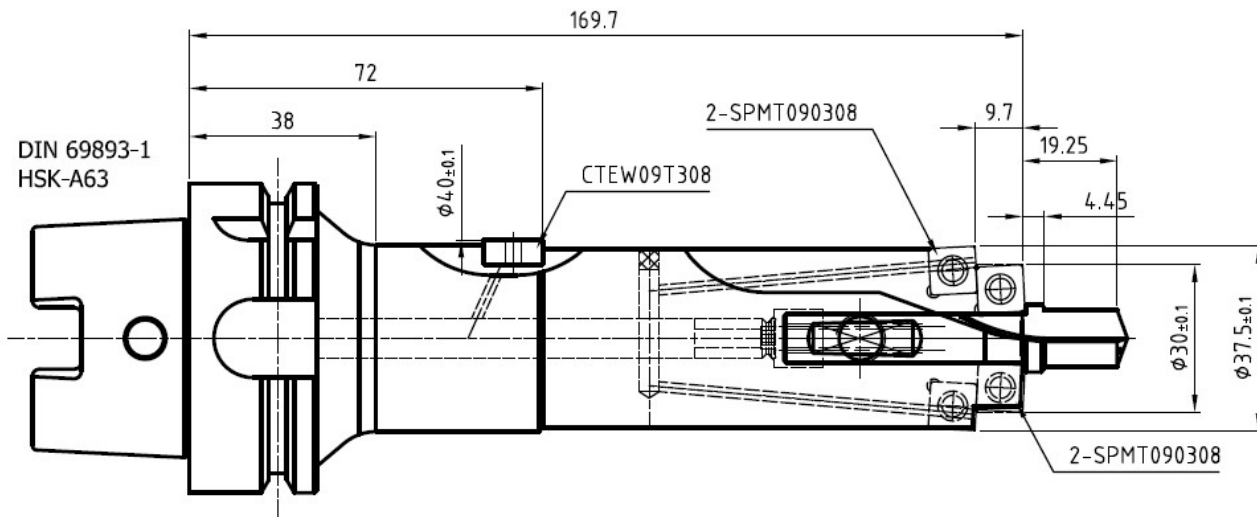
制动钳_铸铁

Caliper_Cast Iron

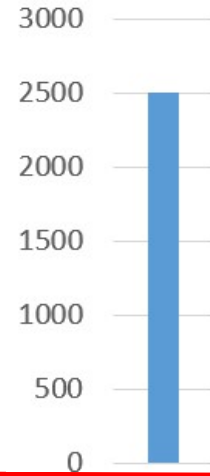
- 刹车系统
- Braking system
- 汽车行业加工解决方案
- Cutting Solutions For Automobile Industry

切削创造价值
Cutting Creates Value
项目技术文件
Project Technical

● SOLUTIONS-Brake Caliper



寿命:件/刃



| Technical data | Description |
|--------------------|---|
| ▲ Tool | Combination Rouging |
| ▲ OP | Rough boring of piston |
| ▲ Parameter | S= 2125 r/min F= 425 mm/min |
| ▲ Customer Benifit | 1. High efficient by combination design 2. Low Cost with standard insert |

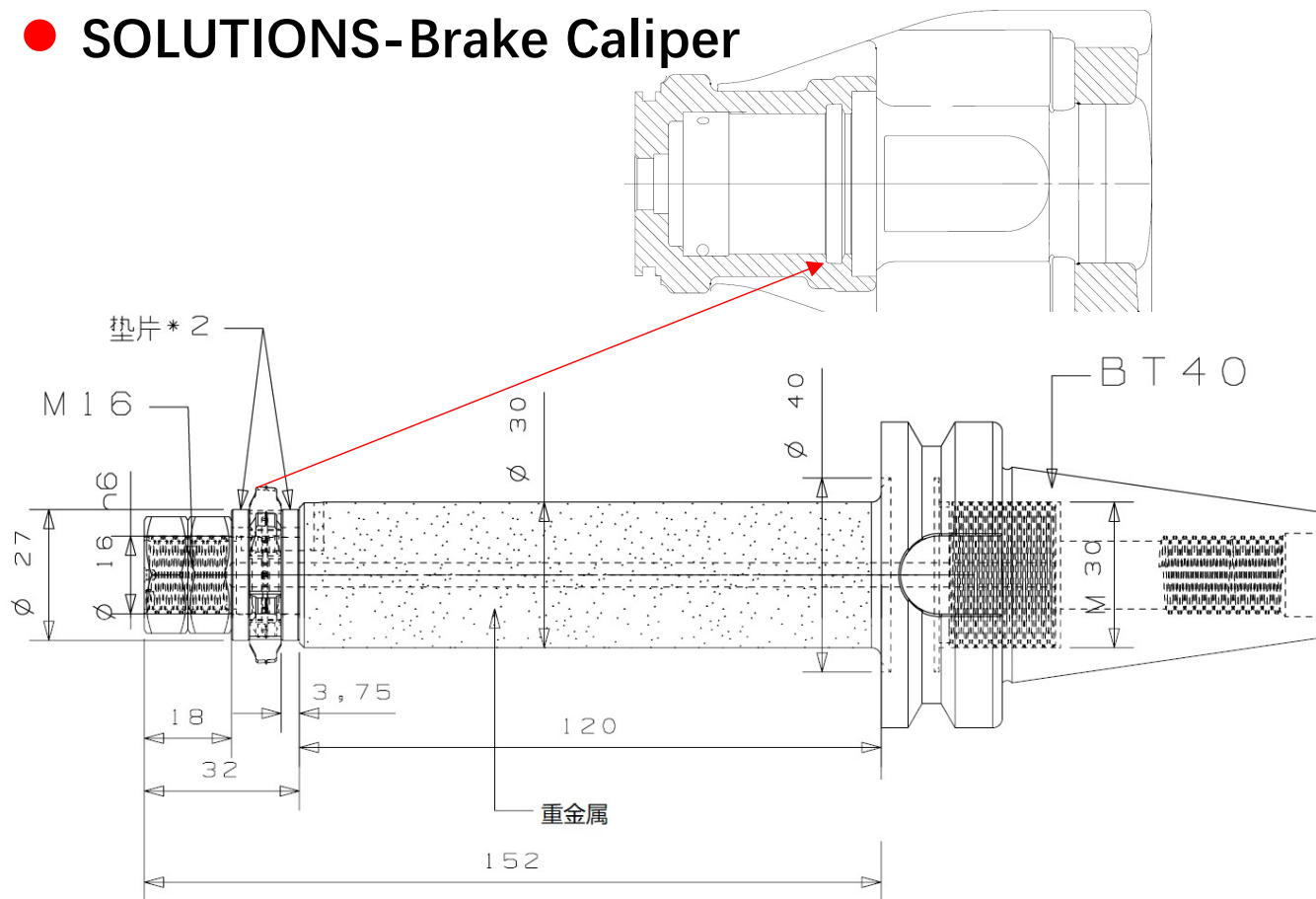
制动钳_铸铁

Caliper_Cast Iron

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● SOLUTIONS-Brake Caliper



制动钳_铸铁

Caliper_Cast Iron

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技术方案

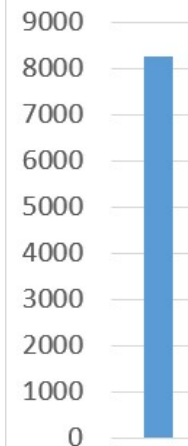
▲ 刀具名称
硬质合金槽刀+重金属刀杆

▲ 加工区域
活塞孔尘封槽

▲ 参数
S= 1592 r/min
F= 2300 mm/min

▲ 特征
1. Heavy metal body→Rigid;
2. Multi-teeth→High efficient
3. Long tool life;

寿命:件



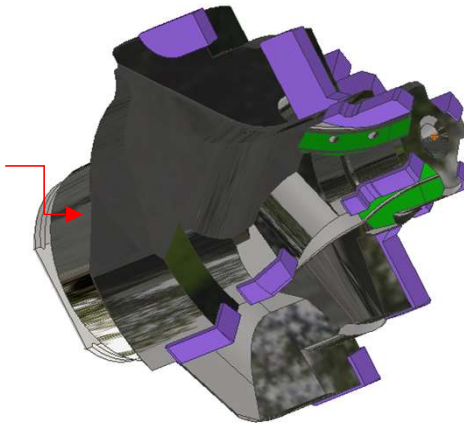
切削创造价值

Cutting Creates Value

项目技术文件
Project Technical

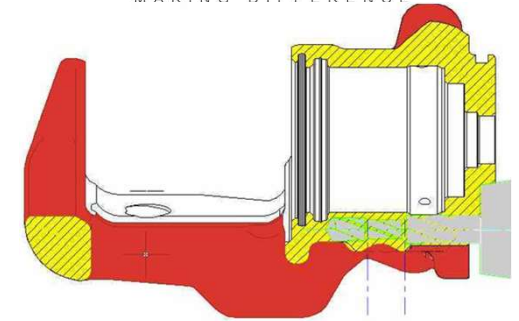
● SOLUTIONS-Brake Caliper

FES connecting system

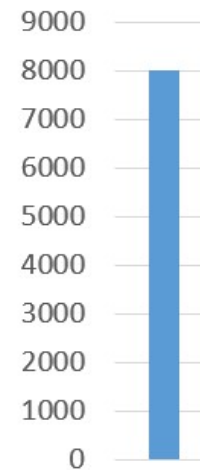


MDF

MAKING DIFFERENCE



寿命/件



Technical Data

| | |
|--------|--|
| ▲ Tool | Brazed reamer with FES module connecting system |
| ▲ 加工区域 | 活塞孔精加工 |
| ▲ 参数 | S= 700 r/min F1= 280 mm/min F2=140 mm/min |
| ▲ 特征 | 1.High precision high efficient; 2.Long life +re-tip, low cost; |

制动钳_铸铁

Caliper_Cast Iron

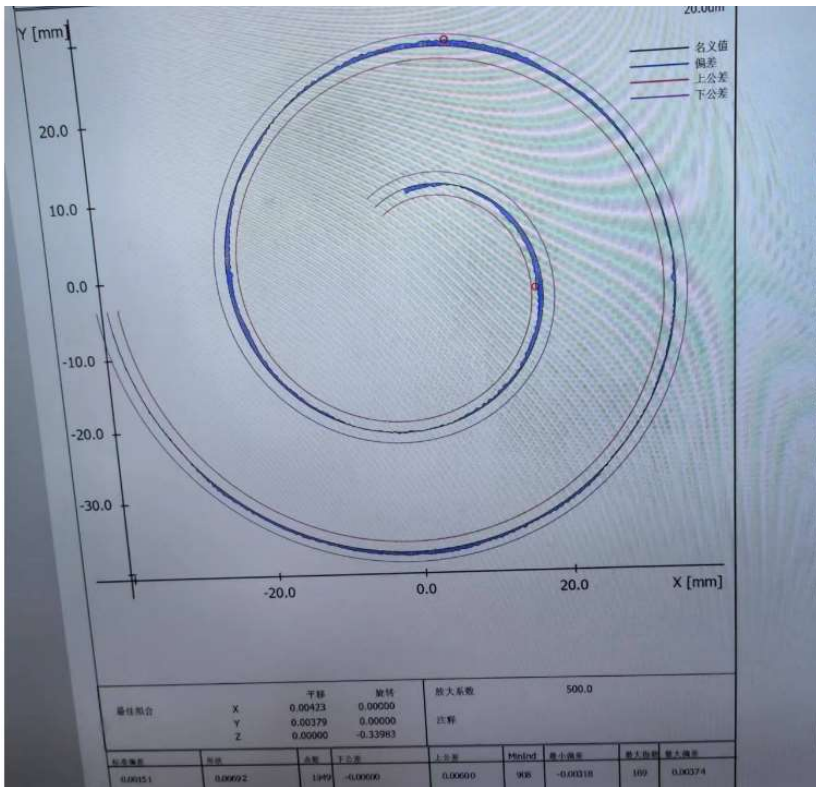
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切削创造价值

Cutting Creates Value

项目技术文件
Project Technical

● 涡旋动静盘加工 Machining of Scroll case



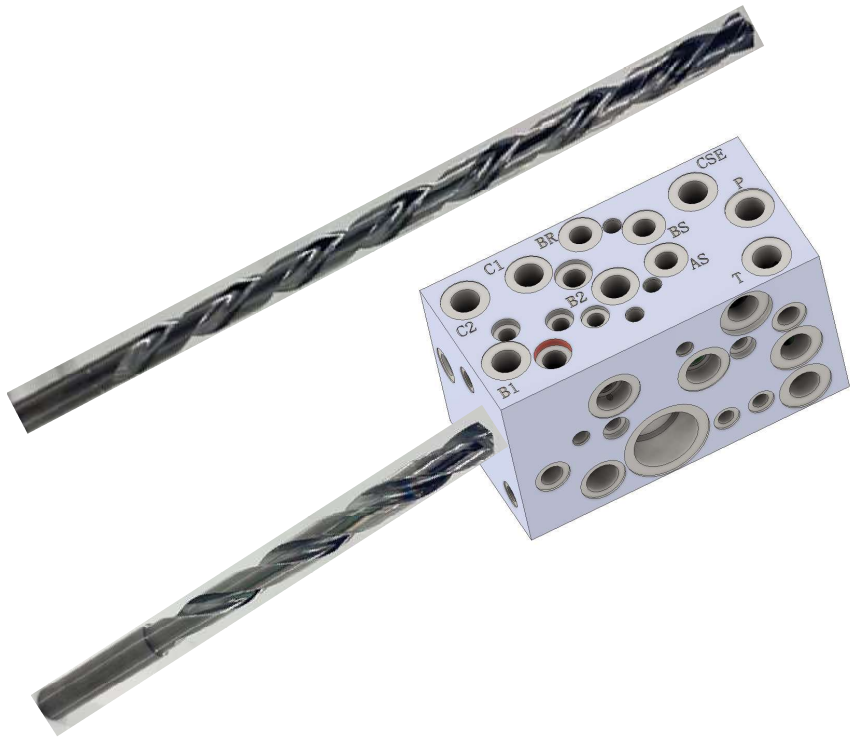
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● 壳体加工
Machining of Housings



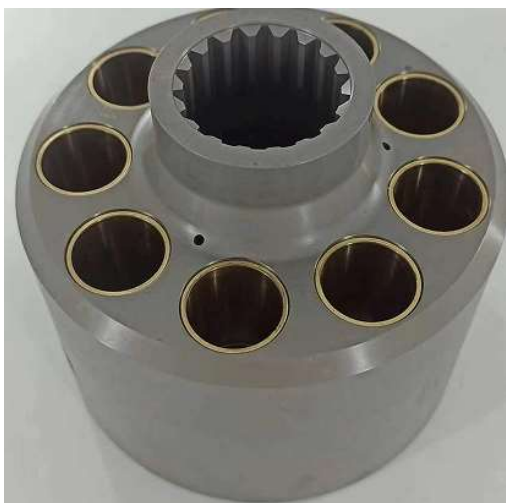
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● 液压阀体加工
Machining of Hydraulic Valve Body



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● 柱塞泵体加工
Machining of Hydraulic Pump Housing



粗钻



扩孔



铣退让槽



精铰



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THANK YOU

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