

# 剎車卡鉗夾具案例

## Brake Caliper Fixture Solution for Automotive Products



### 工件名稱

制動鉗殼體, 制動鉗支架, 制動缸

### 材料

鑄鐵, 鋁合金, 鑄造鋁合金

### 加工內容

鑽孔, 銑面, 搪孔, 精搪, 套搪, 攻牙, 擴孔, 倒角

### Workpiece

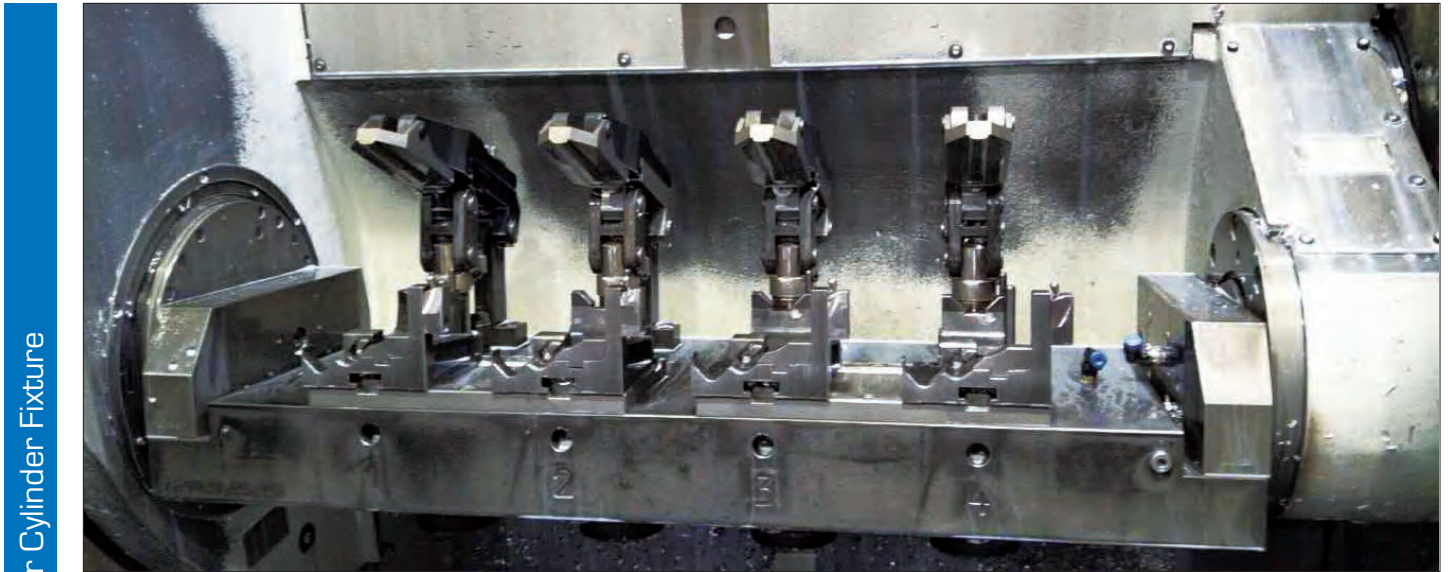
Caliper housing, caliper anchor; caliper body, master cylinder

### Material

QT400 Cast aluminum alloy

### Machining job

Drilling, milling, boring, fine boring, spot boring, tapping, counterboring, chamfering



制動缸夾具 Master Cylinder Fixture

### 產品描述與特徵:

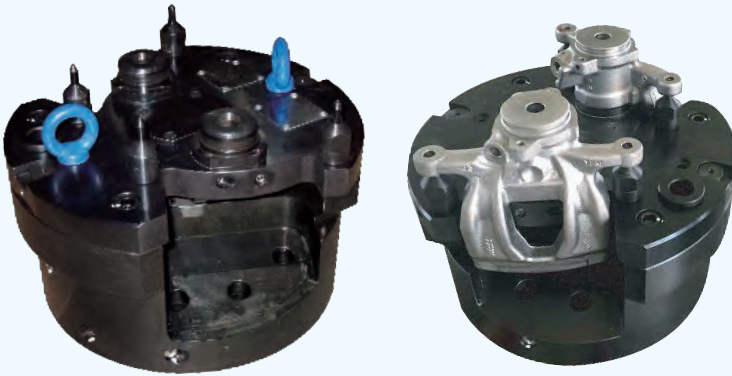
- 精度要求:  $\pm 0.01\text{mm}$
- 使用機床: 雙主軸臥式加工中心
- 球頭銷定位
- 四工位夾具
- 客製化夾緊油缸
- 刀具夾具統包服務

### Product Description and Characteristics:

- Machining accuracy:  $\pm 0.01\text{mm}$
- Machining center: Double spindle horizontal machine center
- Ball pin positioning
- 4 clamping nests
- Self-made non-standard hydraulic clamping cylinders
- Whole package service of cutting tools and fixture



制動鉗殼體夾具 Caliper Housing Fixture



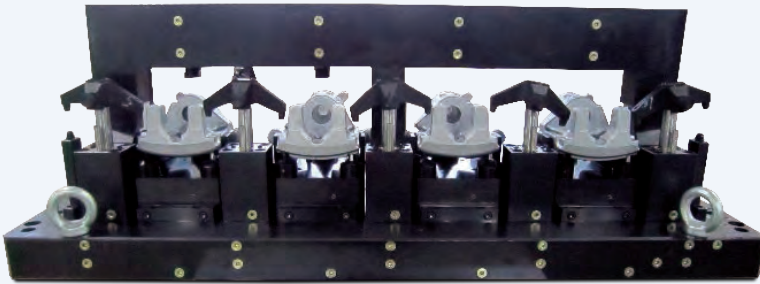
**產品描述與特徵:**

- 精度要求:  $\pm 0.01\text{mm}$
- 使用機床: 雙主軸臥式加工中心
- 銷孔定位
- 雙工位夾具
- 客製化夾緊油缸

**Product Description and Characteristics:**

- Machining accuracy:  $\pm 0.01\text{mm}$
- Machining center: Double spindle vertical machine center
- Pin hole positioning
- 2 clamping nests
- Self-made non-standard hydraulic clamping cylinders

制動鉗殼體夾具 Caliper Housing Fixture



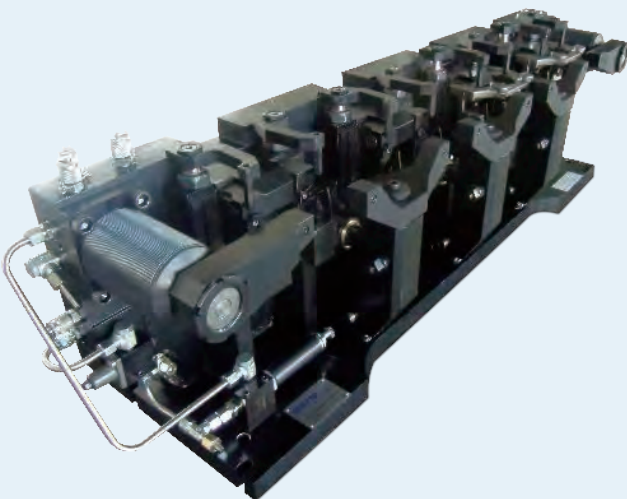
**產品描述與特徵:**

- 精度要求:  $\pm 0.01\text{mm}$
- 使用機床: 雙主軸臥式加工中心
- 球頭銷定位
- 四工位夾具
- 客製化夾緊油缸

**Product Description and Characteristics:**

- Machining accuracy:  $\pm 0.01\text{mm}$
- Machining center: Double spindle horizontal machine center
- Ball pin positioning
- 4 clamping nests
- Self-made non-standard hydraulic clamping cylinders

制動鉗支架夾具 Caliper Anchor Fixture



**產品描述與特徵:**

- 精度要求:  $\pm 0.01\text{mm}$
- 使用機床: 雙主軸臥式加工中心
- 球頭銷定位
- 四工位夾具
- 客製化夾緊油缸

**Product Description and Characteristics:**

- Machining accuracy:  $\pm 0.01\text{mm}$
- Machining center: Double spindle horizontal machine center
- Ball pin positioning
- 4 clamping nests
- Self-made non-standard hydraulic clamping cylinders