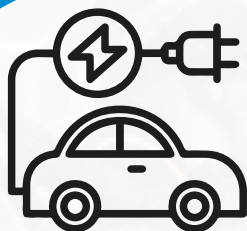




ELECTRIC VEHICLE SOLUTIONS

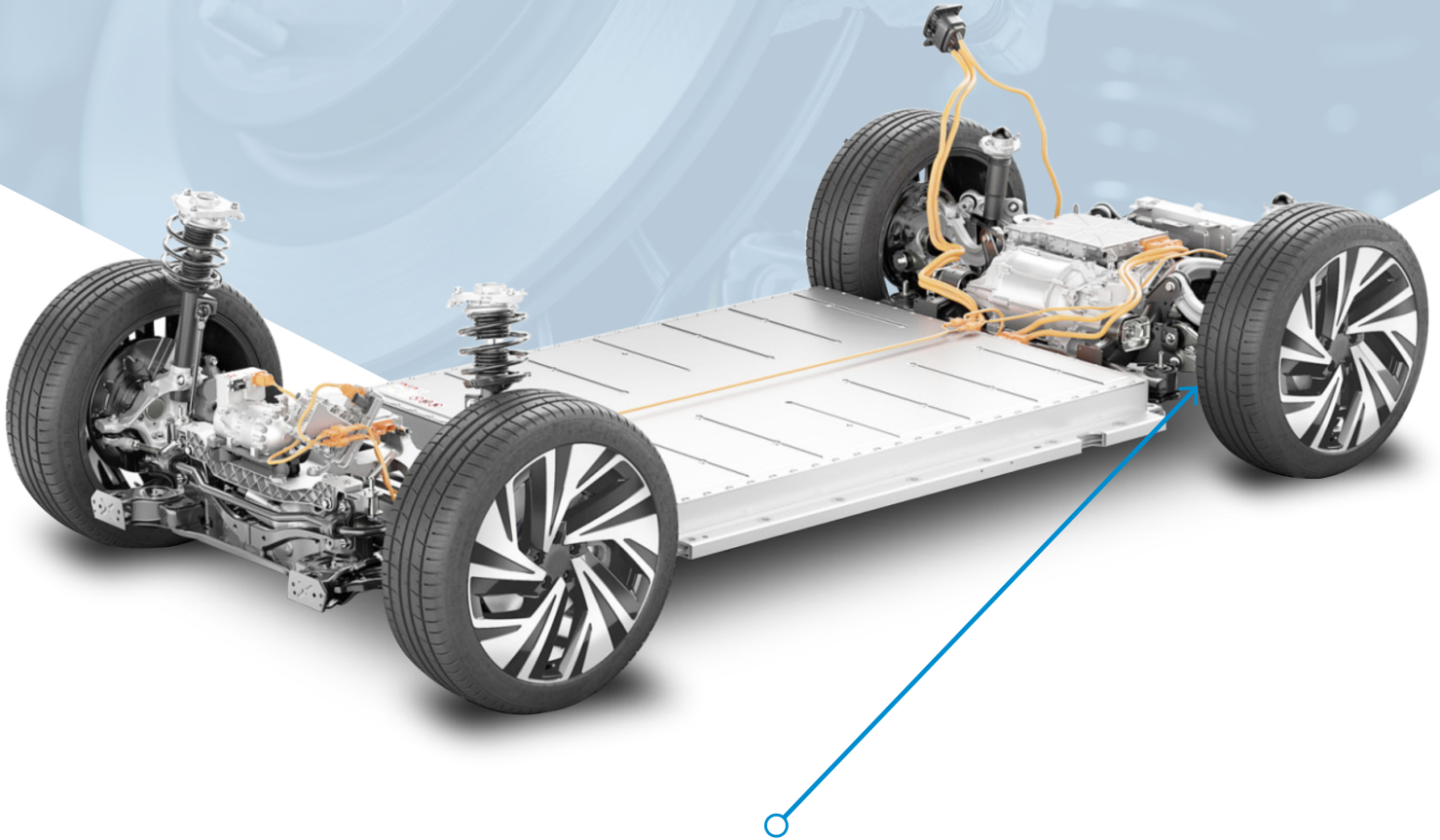
Brake caliper solution



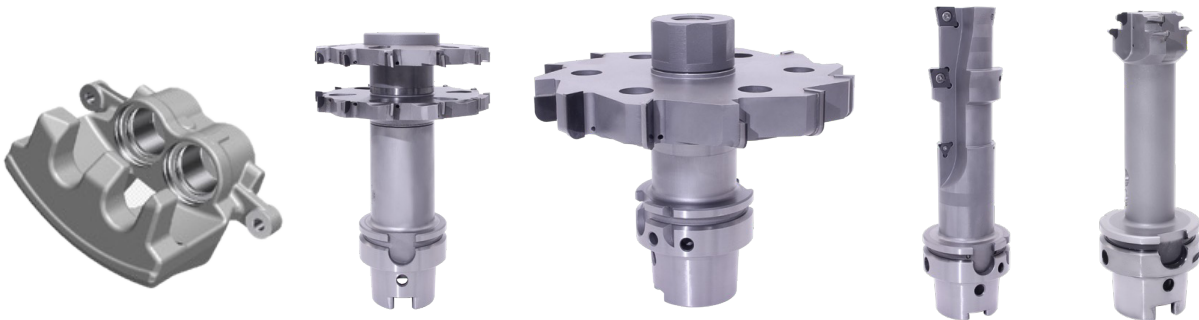
NEW ENERGY VEHICLE INDUSTRY

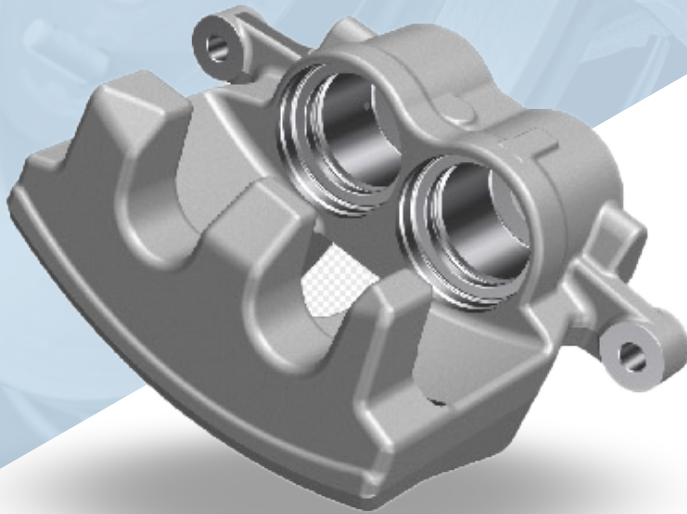
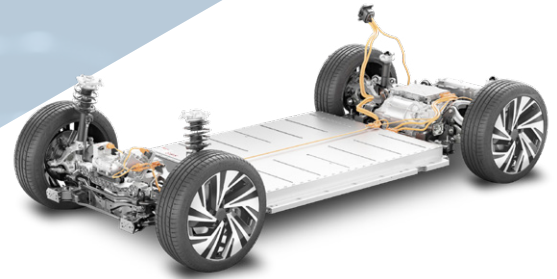
In order to increase the mileage and power, lightweight aluminum alloy material is widely used in the manufacturing process of new energy vehicles. GWT aluminum alloy material processing technology advantages lead in the industry, and many mature solutions accumulated in the field of traditional automobile manufacturing can be transferred and applied in the field of new energy vehicle manufacturing.

MACHINING SOLUTION

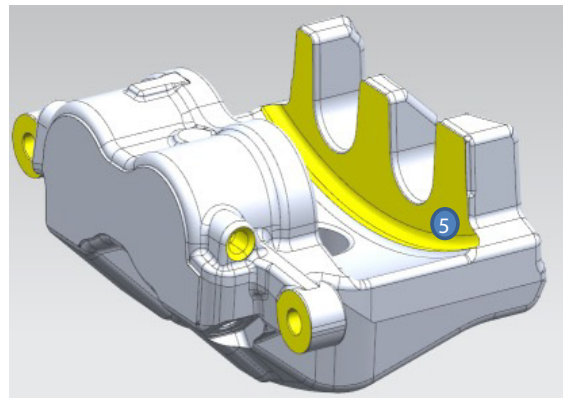
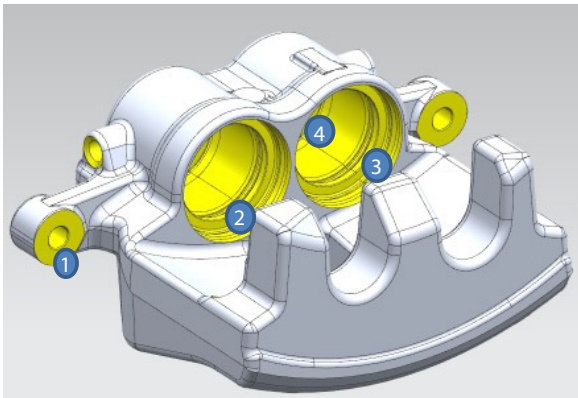


Brake caliper solution





Machining position



T01: Milling 2 sides pins

T02: Machining 2 sides pin holes

T03: Roughing cylinder and sealing hole

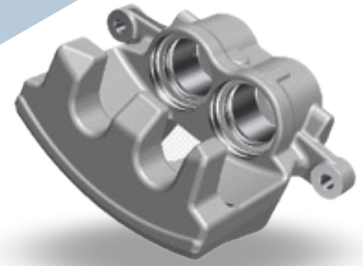
T04: Semi-finished machining cylinder and oil sealing hole

T05: Milling oil sealing slot and sealing slot

T06: Milling bottom circular slot

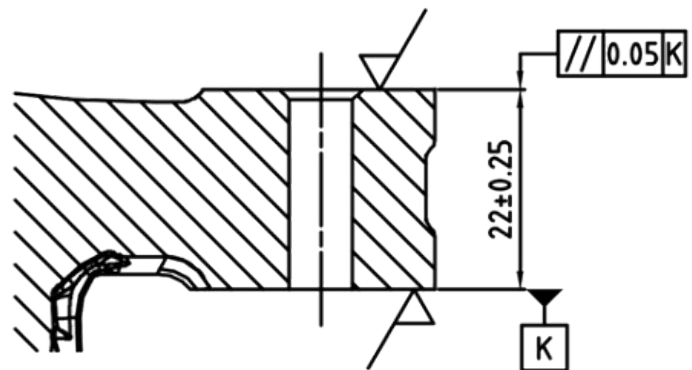
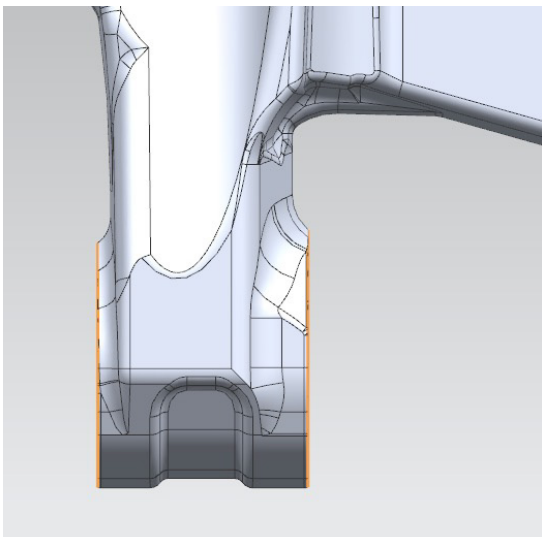
T07: Finished machining cylinder and oil sealing hole

T08: Back milling big R face



Milling 2 sides pins

PCD tool with clockwise
and anti-clockwise milling



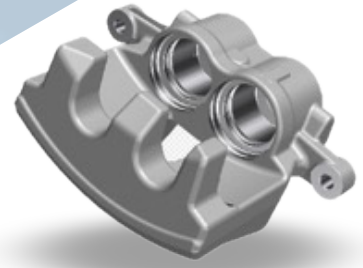
Material: ALSi7Mg0.3

Cutting parameter:

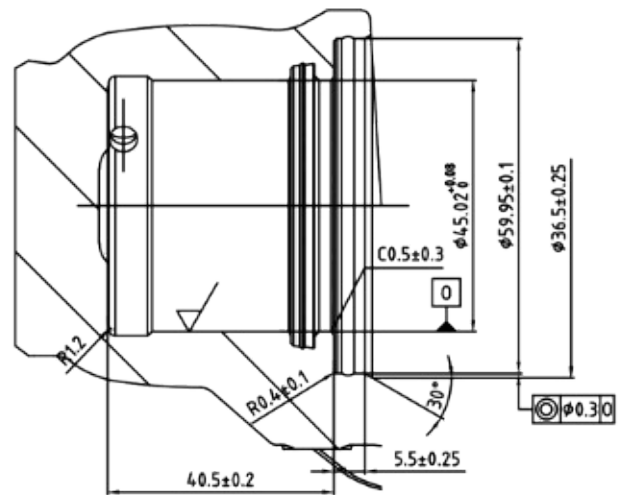
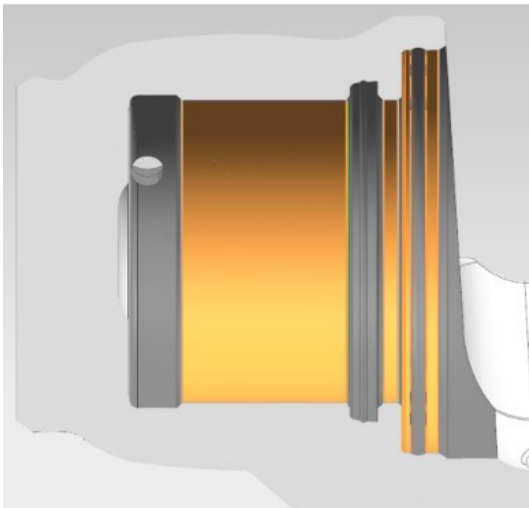
$n = 3820 \text{ rpm/min}$

$vf = 0.1 \text{ mm/r}$

Tool life
30,000



Boring tool for Roughing cylinder and sealing hole



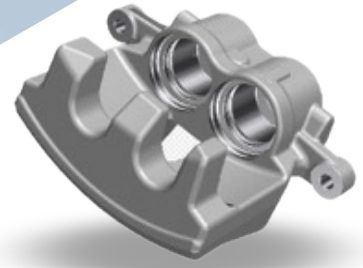
Material: ALSi7Mg0.3

Cutting parameter:

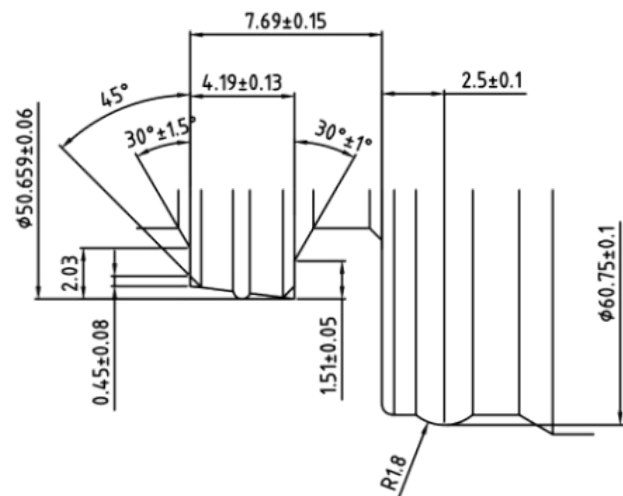
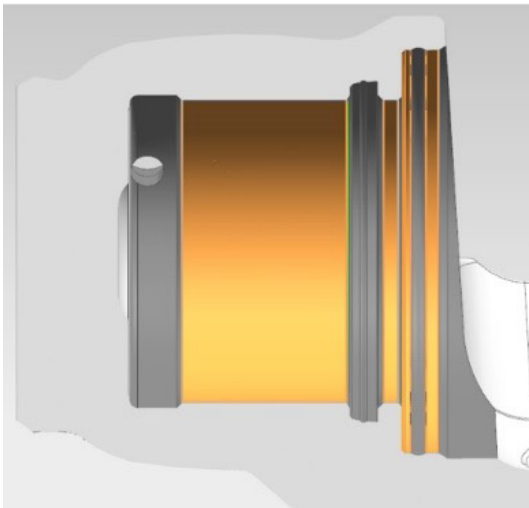
$n = 1463 \text{ rpm/min}$

$vf = 0.1 \text{ mm/r}$

Tool life
5,000



Milling tool for oil sealing slot and sealing slot



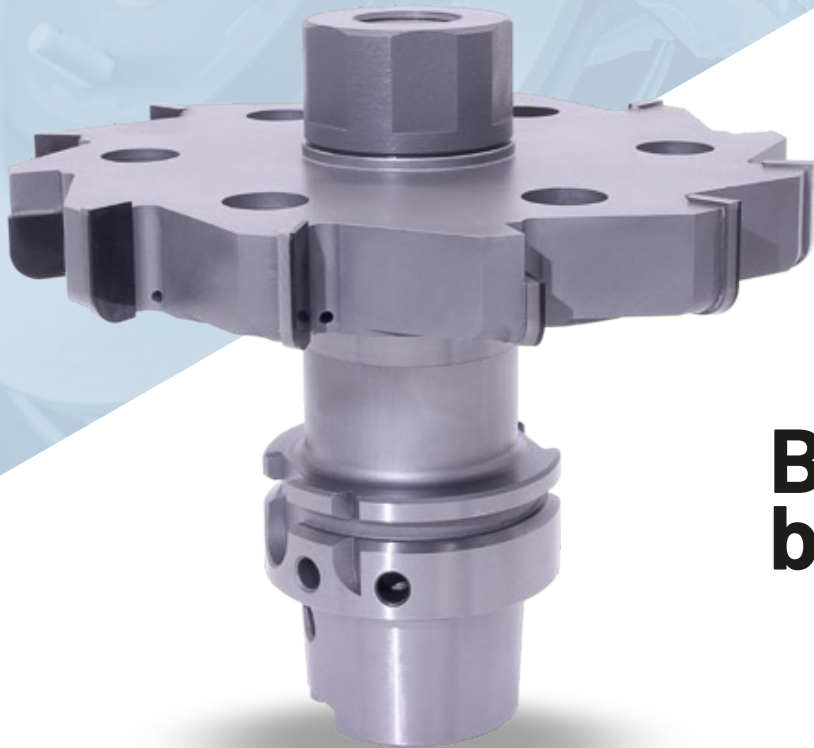
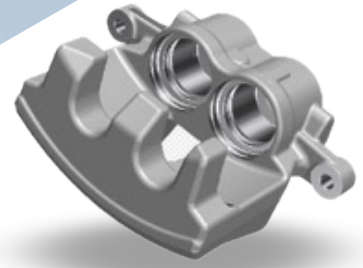
Material: ALSi7Mg0.3

Cutting parameter:

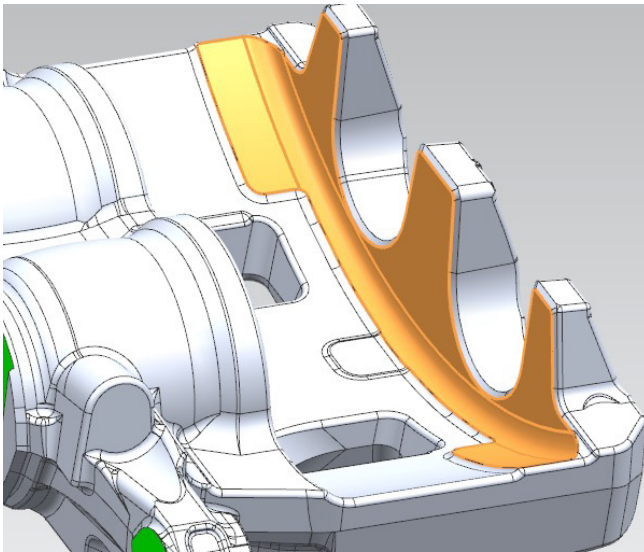
$n = 5196 \text{ rpm/min}$

$vf = 0.08 \text{ mm/r}$

Tool life
30,000pcs



Back milling big R face



Material: ALSi7Mg0.3

Cutting parameter:

$n = 2801 \text{ rpm/min}$

$vf = 0.1 \text{ mm/r}$

Tool life
30,000 pcs



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