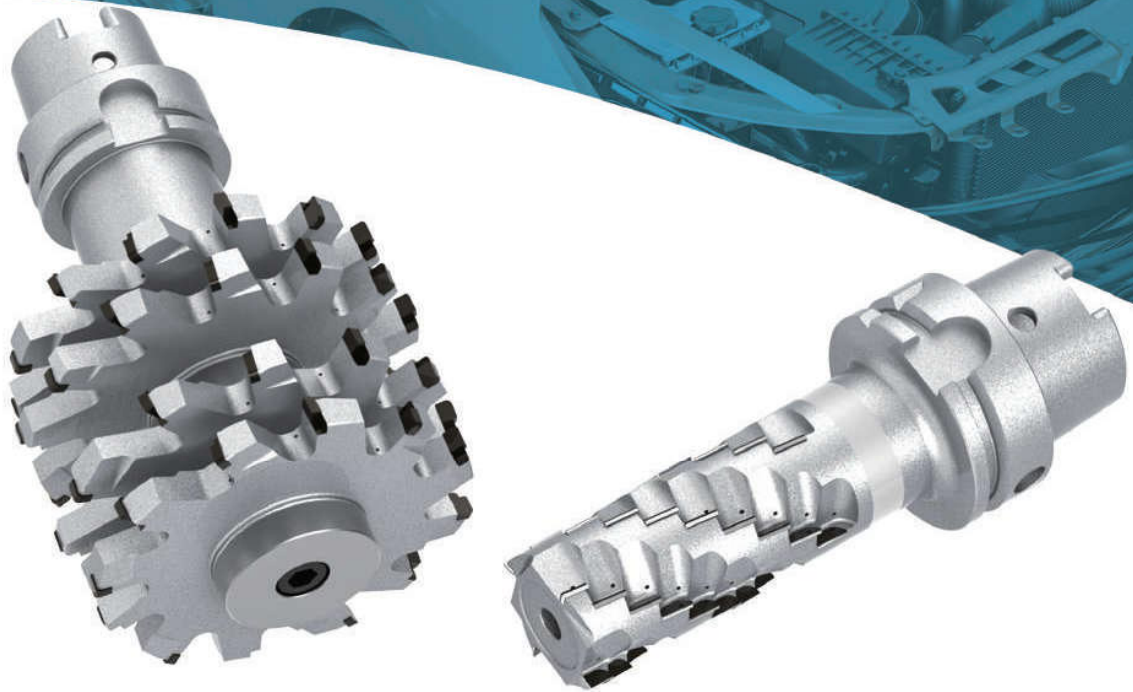
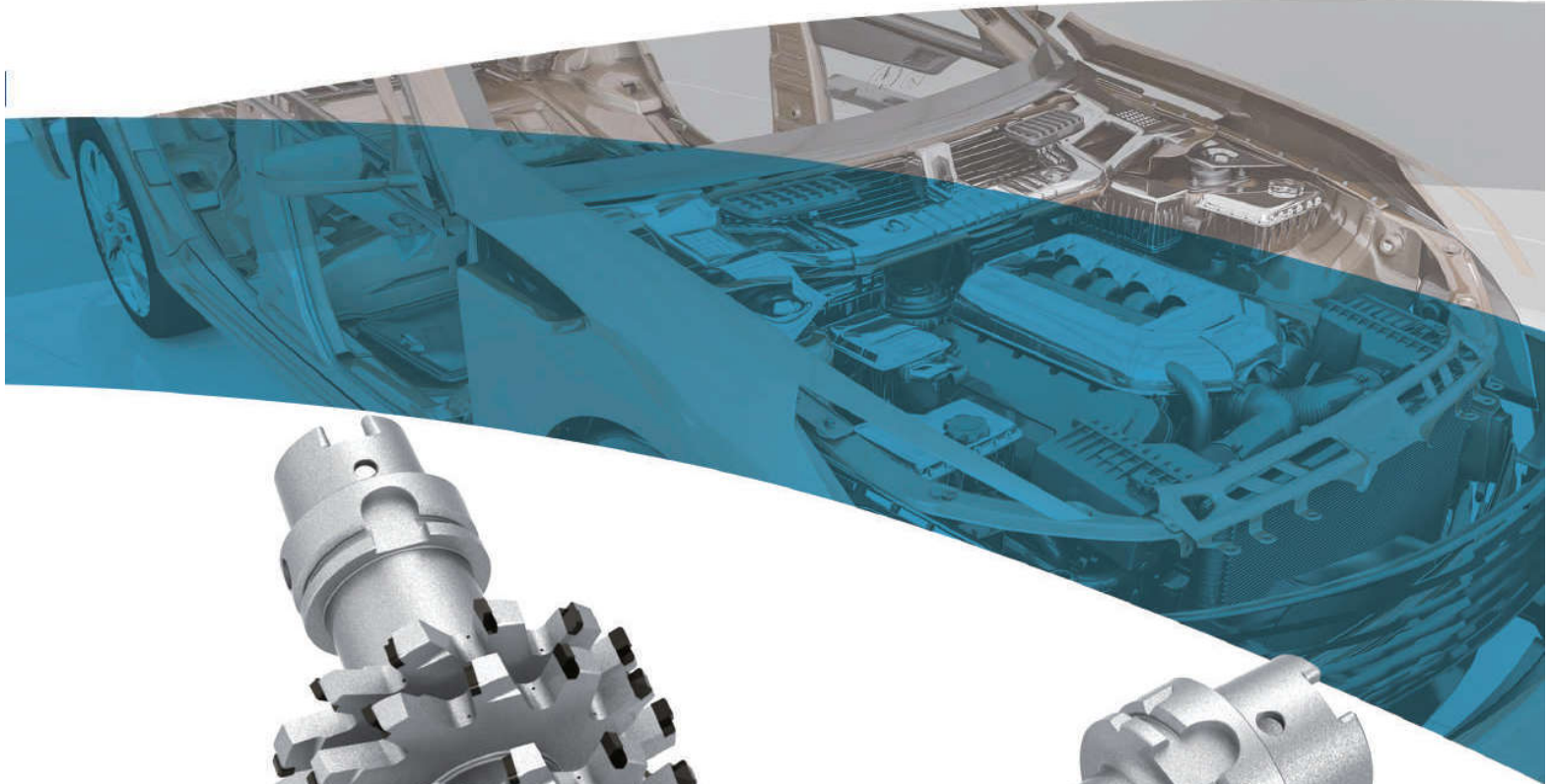


K-GROUP



PCD Non-standard Tools

Kgroup Cutting Tools
Marketing- & Technology

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KGROUP Specialty Tools Introduction

Products category:

1. Rotating tools: High-precision PCD/PCBN reamers, drill reamers, boring tools, end mills, profile cutters and etc.
2. Interchangeable: Welding/Integrated boring inserts, profile milling inserts, thread Inserts, roller inserts, planer tool;
3. Turning: Profile turning tools, internal/external groove cutters, thread turning tools;
4. Wear-resistant: high-precision PCD supportor, wear-resistant coupling, grinding wheel dresser.

Applications:

1. Processing of related parts and components in the automotive industry such as engines, wheel hubs, and brake disc;
2. Processing of key components in 3C industry, such as mobile phones, notebooks and tablet computers;
3. Processing of cast aluminum/cast iron such as air conditioner compressor housings and drive motors;
4. Processing of composite materials;
5. Processing of non-ferrous products such as resins, rubber, plastics, and semiconductors;
6. Processing of couplings, wear parts and etc. used in the oil drilling industry;
7. Processing of furniture, crafts and other wood-working industry.



Production Equipment



Equipment for specialty tools:

FANUC six-axis high-precision WEDM mainly undertakes the machining of specialty tools such as PCD/PCBN reamers, milling cutters and profile cutters. With the stable performance and reliable accuracy, the machine can keep higher edge and surface quality.

DMG high-precision laser cutting machine mainly undertakes the processing of specialty tools such as PCD/PCBN/CVD, which can ensure high processing precision and good appearance, especially in processing of PCD reamer chip breaker.

The Zoller pre-setting tools can pre-adjust, measure and manage all kinds of cutting tools conveniently and quickly. The equipment is equipped with HEIDENHAIN grating scales. The measurement data is accurate, repeatable and stable in reproducibility.

Z-MIKE laser diameter measuring instrument can collect measurement data automatically, process scientifically, calculate fast with stable measurement accuracy and high efficient measurement.

Haimer balance instrument can carry out single-side and double-side dynamic balance correction on the tool holder. It can achieve the accuracy of micron-level clamping by using laser marking and automatic positioning. The minimum measuring accuracy can be 0.5gmm, the calculation is accurate, and the operation is easy and quick.





Cylinder Head

PCD SPECIALTY TOOLS
For Auto Parts

Face Milling Cutter

S=12000r/min
fz=0.05mm/z



Side and face milling

S=6000r/min
fz=0.03mm/z



Step Drilling Reamer

S=5500r/min
fz=0.12mm/z



End milling reamer

S=4000r/min
fz=0.03mm/z



Step Reamer

S=5500r/min
fz=0.05mm/z



Step Reamer

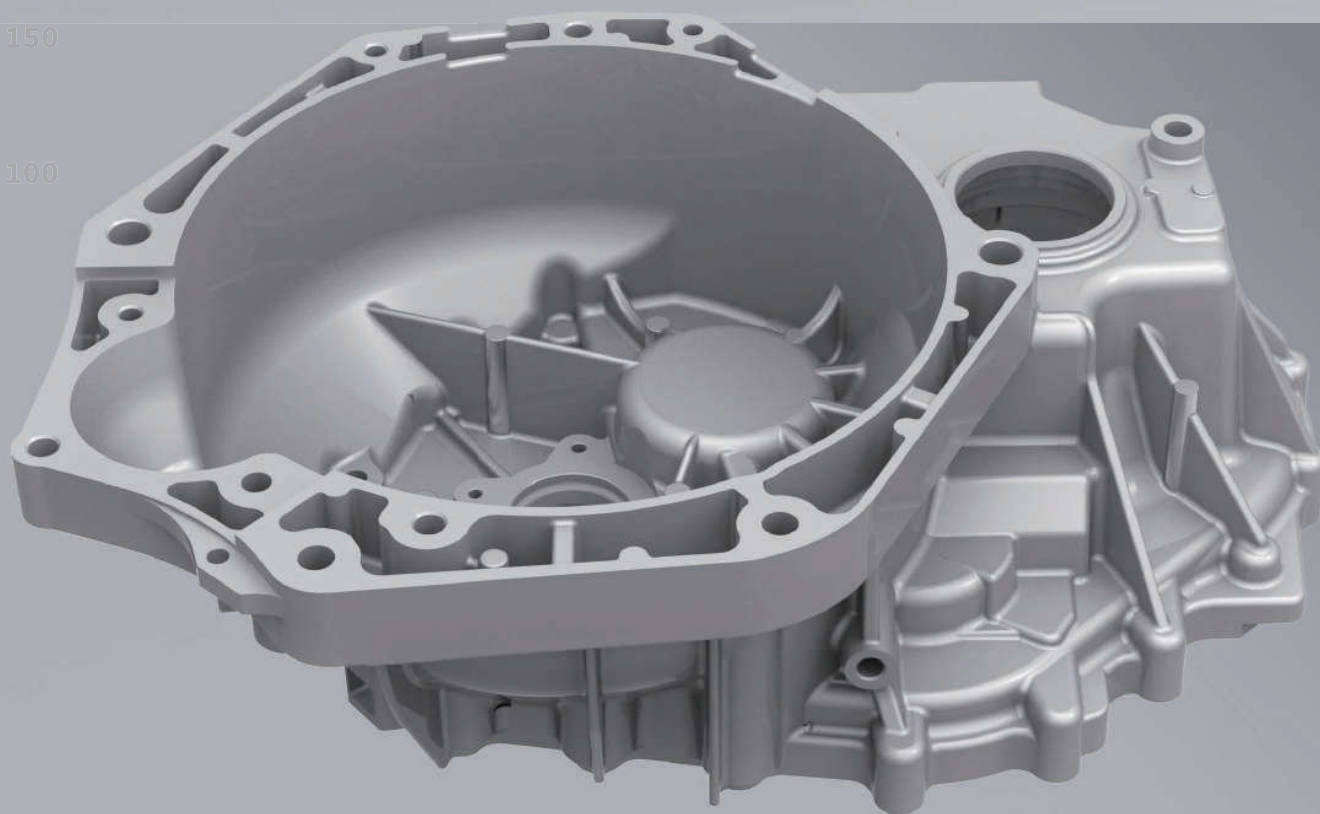
S=3500r/min
fz=0.02mm/z





Clutch Housing

PCD SPECIALTY TOOLS
For Auto Parts



Face Milling Cutter

S=6000r/min
fz=0.03mm/z



Step boring cutter

S=4000r/min
fz=0.10mm/z



Step Reamer

S=5500r/min
fz=0.12mm/z



Guide bar boring cutter

S=2200r/min
fz=0.08mm/z



Forming milling cutter

S=6500r/min
fz=0.15mm/z



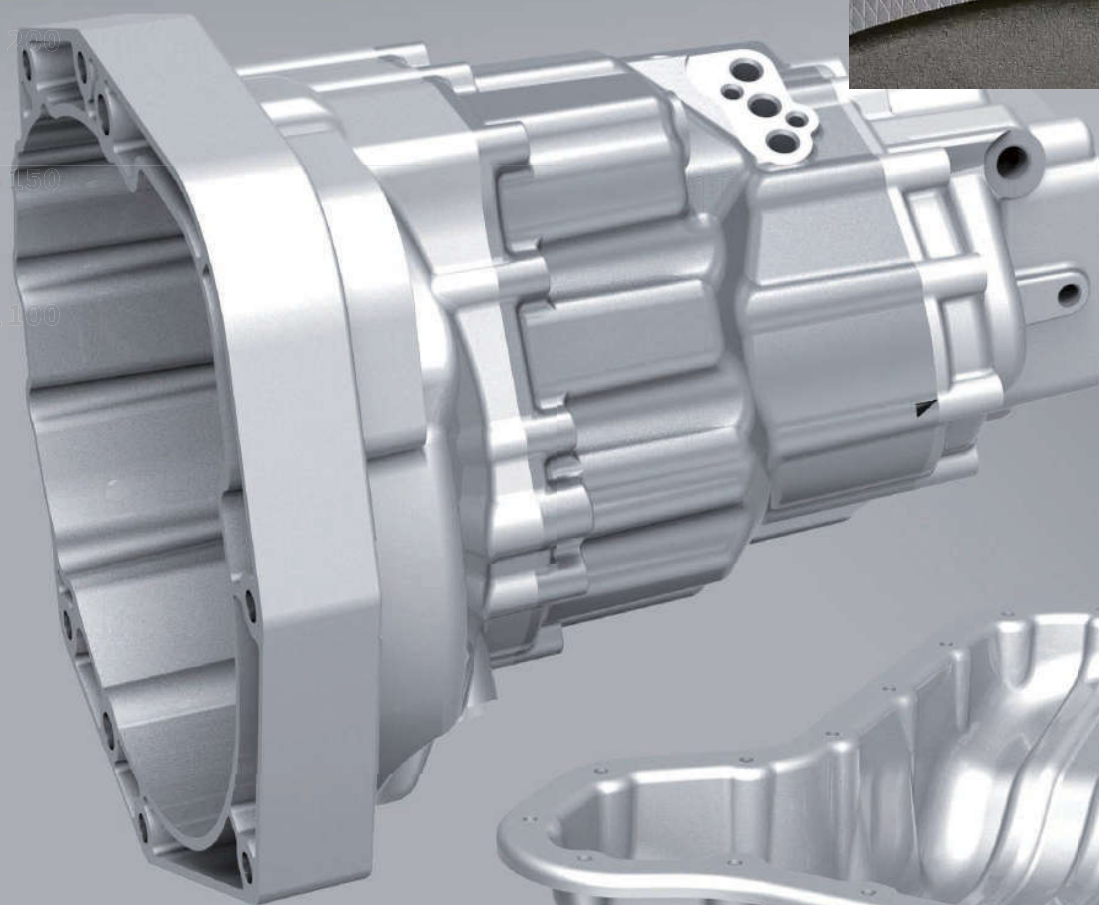
Combination boring cutter

S=3500r/min
fz=0.08mm/z



Gear-box/Oil Pan

PCD SPECIALTY TOOLS
For Auto Parts



Face Milling Cutter

S=6000r/min
fz=0.03mm/z



Step reamer

S=12000r/min
fz=0.05mm/z



Shell milling reamers

S=3500r/min
fz=0.02mm/z



Step reamer

S=4000r/min
fz=0.04mm/z



Multi-Edge End Mill

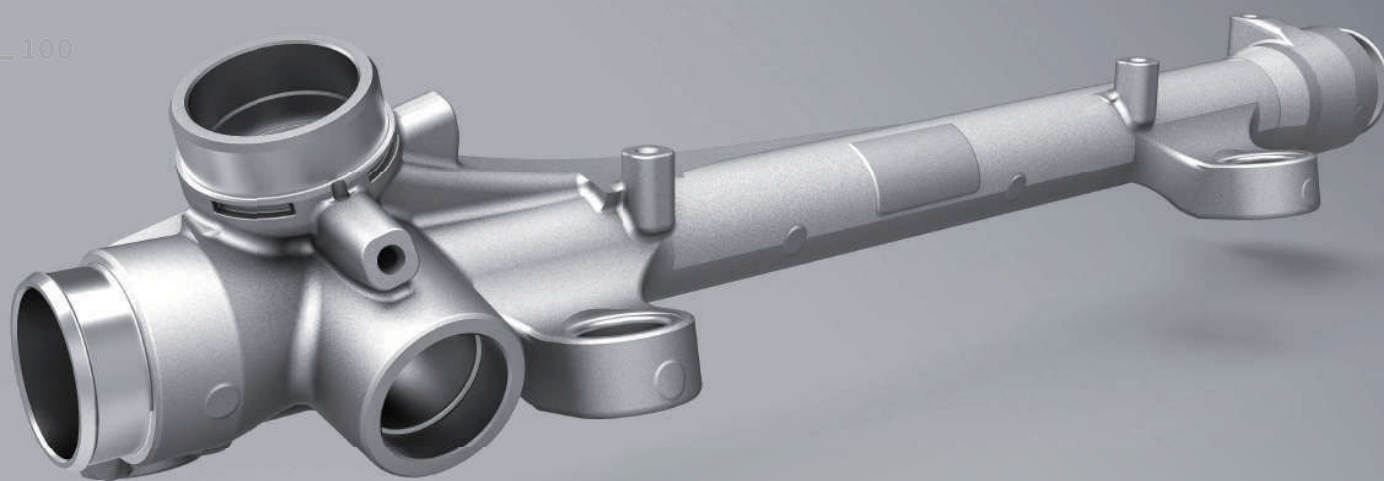
S=5500r/min
fz=0.05mm/z





Steering Gear

PCD SPECIALTY TOOLS
For Auto Parts



Step Drilling Reamer

S=4500r/min
fz=0.03mm/z



Multi step reamer

S=4000r/min
fz=0.08mm/z



Reverse chamfering milling cutter

S=3500r/min
fz=0.06mm/z



Multi step grooving milling cutter

S=3500r/min
fz=0.03mm/z



One step reamer

S=3500r/min
fz=0.1mm/z



Shell Milling Cutter

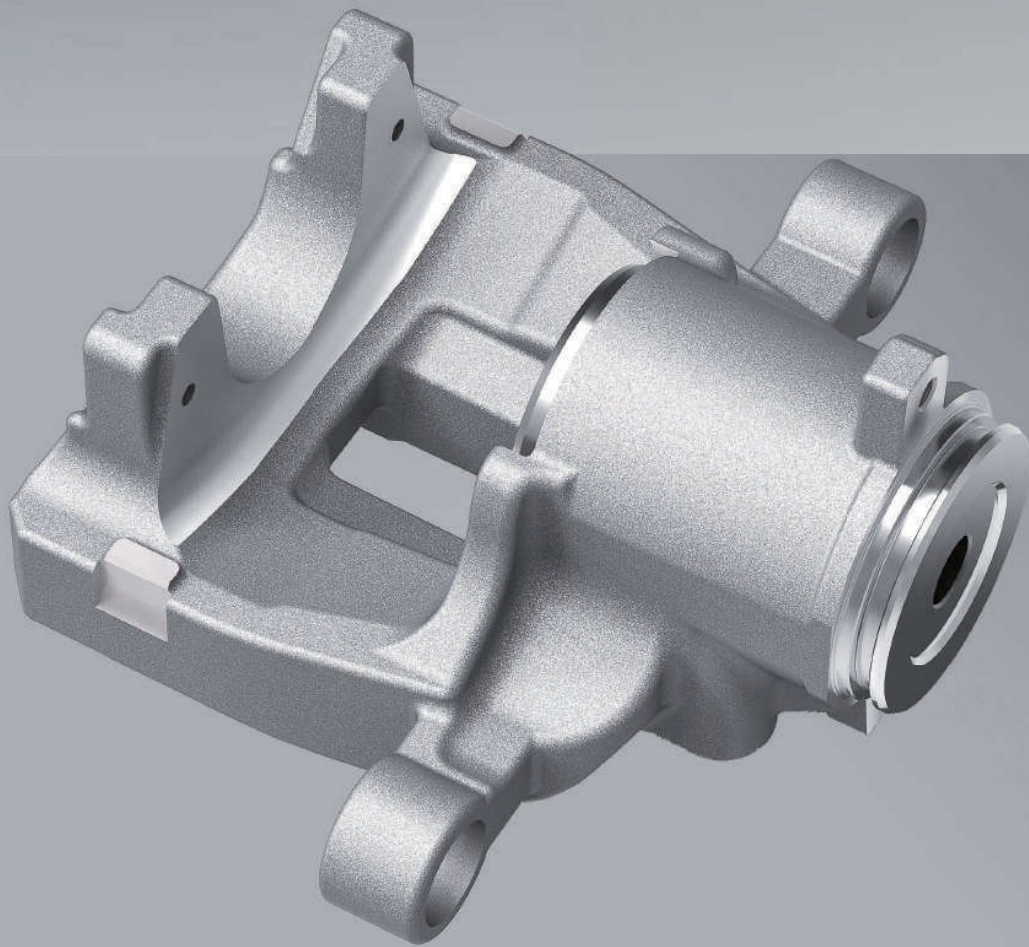
S=3500r/min
fz=0.055mm/z





Brake Caliper

PCD SPECIALTY TOOLS
For Auto Parts



Side and face milling cutter

S=4500r/min
fz=0.035mm/z



Grooving cutter

S=6500r/min
fz=0.045mm/z



Shell milling grooving cutter

S=6000r/min
fz=0.05mm/z





Throttle Valve

PCD SPECIALTY TOOLS
For Auto Parts

Forming milling cutter

S=3500r/min
fz=0.045mm/z



Step Drilling Reamer

S=3600r/min
fz=0.015mm/z



Side milling cutter

S=4000r/min
fz=0.055mm/z



Step Drilling Reamer

S=3750r/min
fz=0.025mm/z



Step Reamer

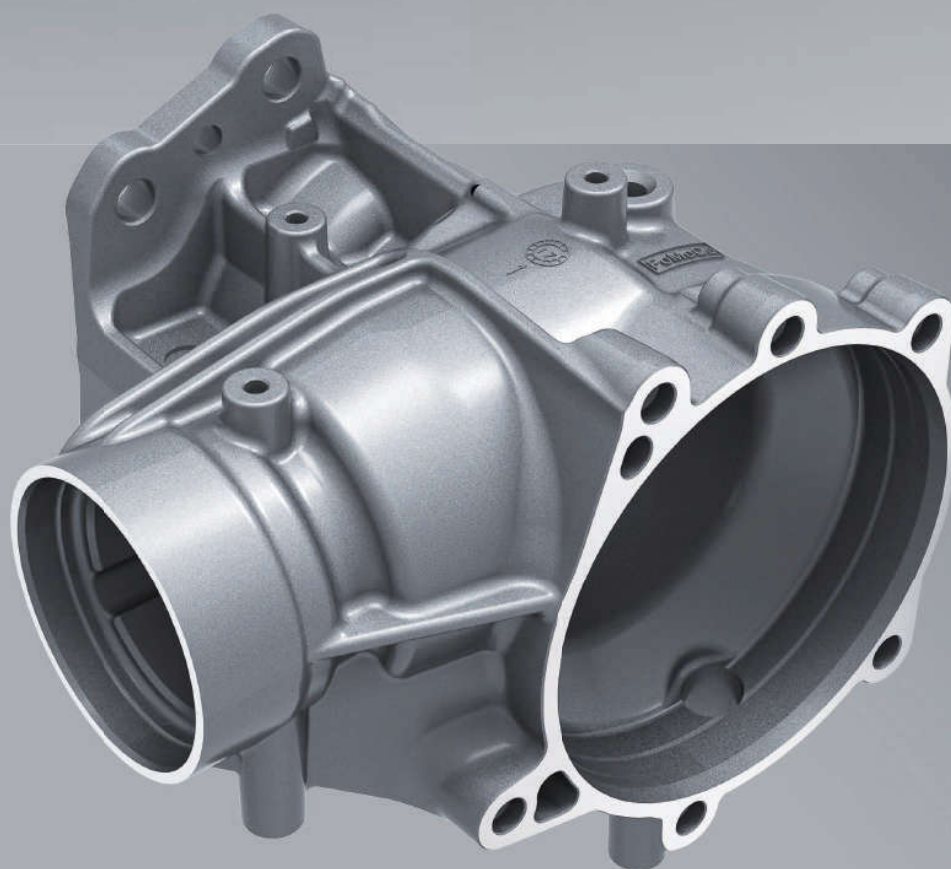
S=4200r/min
fz=0.015mm/z





Throttle Valve

PCD SPECIALTY TOOLS
For Auto Parts



Dense-tooth multi step reamer

S=8000r/min
fz=0.05mm/z



Deep-hole drilling reamer

S=3500r/min
fz=0.012mm/z



Adjustable precision boring cutter

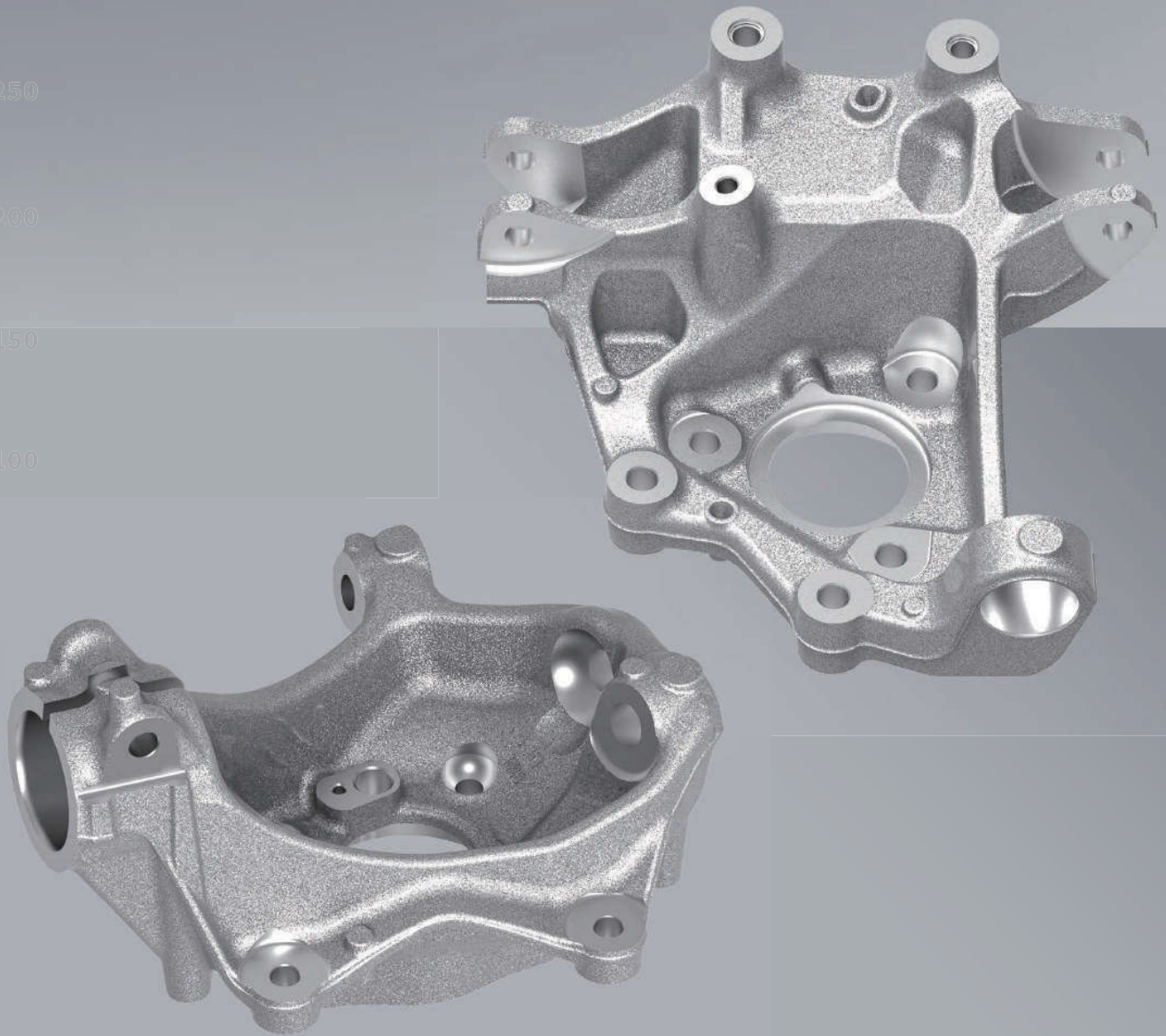
S=5500r/min
fz=0.05mm/z





Steering Knuckles

PCD SPECIALTY TOOLS
For Auto Parts



Rough&finish drilling Reamer

S=5500r/min
fz=0.09mm/z



Step finish boring cutter

S=2500r/min
fz=0.10mm/z



Interchangeable rough boring cutter

S=1800r/min
fz=0.15mm/z



Contour milling cutter

S=3300r/min
fz=0.05mm/z



Step Reamer

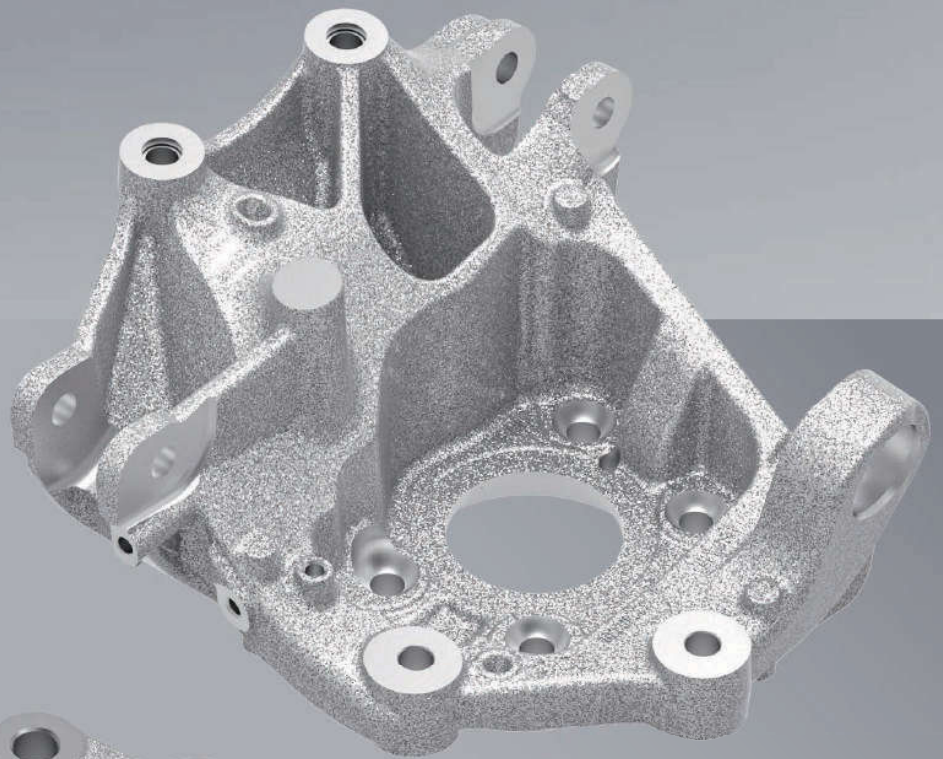
S=4200r/min
fz=0.015mm/z





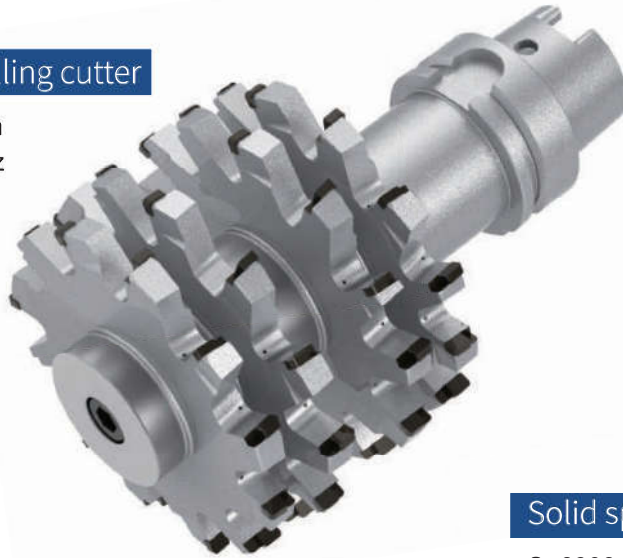
Steering Knuckles

PCD SPECIALTY TOOLS
For Auto Parts



4-layer milling cutter

S=3500r/min
fz=0.16mm/z



Solid spherical concave milling cutter

S=6000r/min
fz=0.10mm/z



side and face milling cutter

S=2600r/min
fz=0.08mm/z



End mill

S=6500r/min
fz=0.08mm/z





Turbocharger

PCD SPECIALTY TOOLS
For Auto Parts



Profile contour milling cutter

S=8000r/min
fz=0.15mm/z



Taper milling cutter

S=6000r/min
fz=0.08mm/z



Forming drill

S=4500r/min
fz=0.10mm/z



Forming shell milling cutter

S=4200r/min
fz=0.13mm/z



Step drilling r

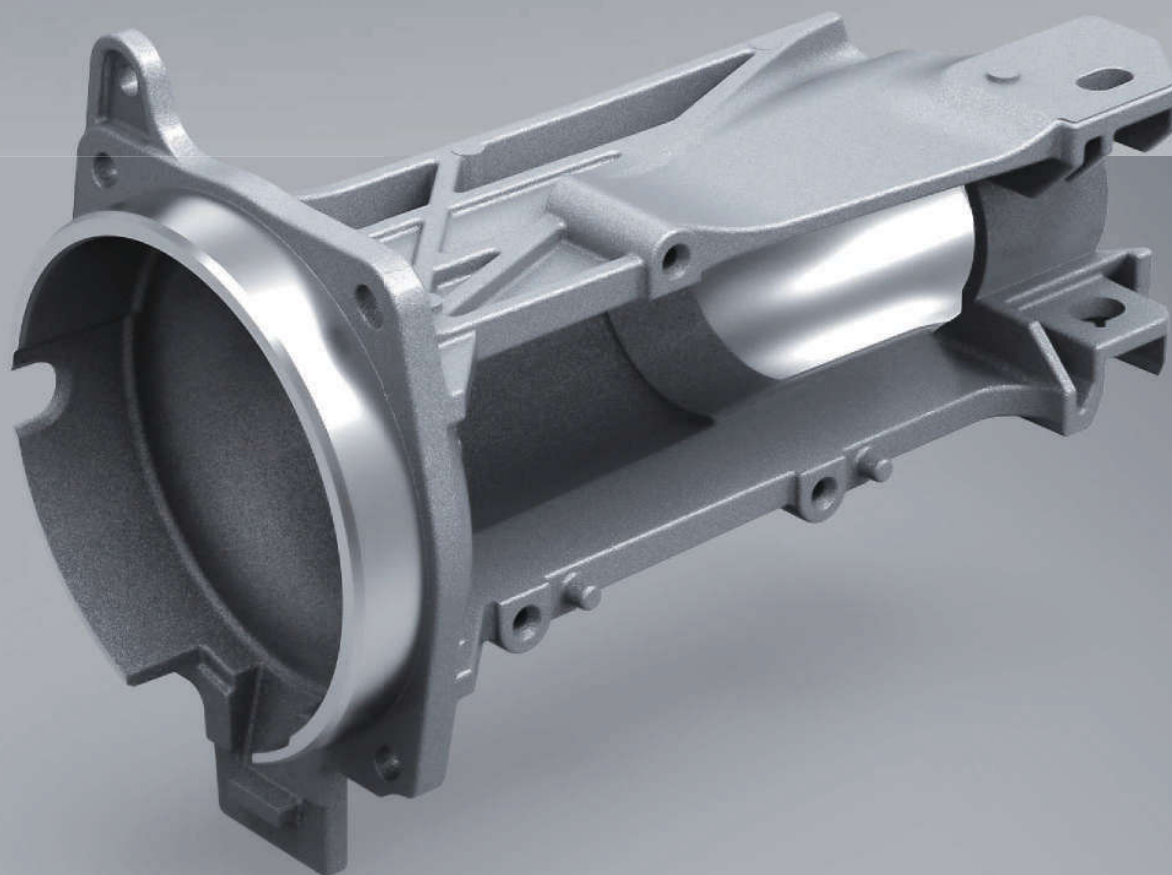
S=4000r/min
fz=0.10mm/z





Aluminium Products

PCD SPECIALTY TOOLS
For Auto Parts



Reverse milling cutter

S=8000r/min
fz=0.05mm/z



Adjustable precision boring cutter

S=8000r/min
fz=0.035mm/z



Side and face milling cutter

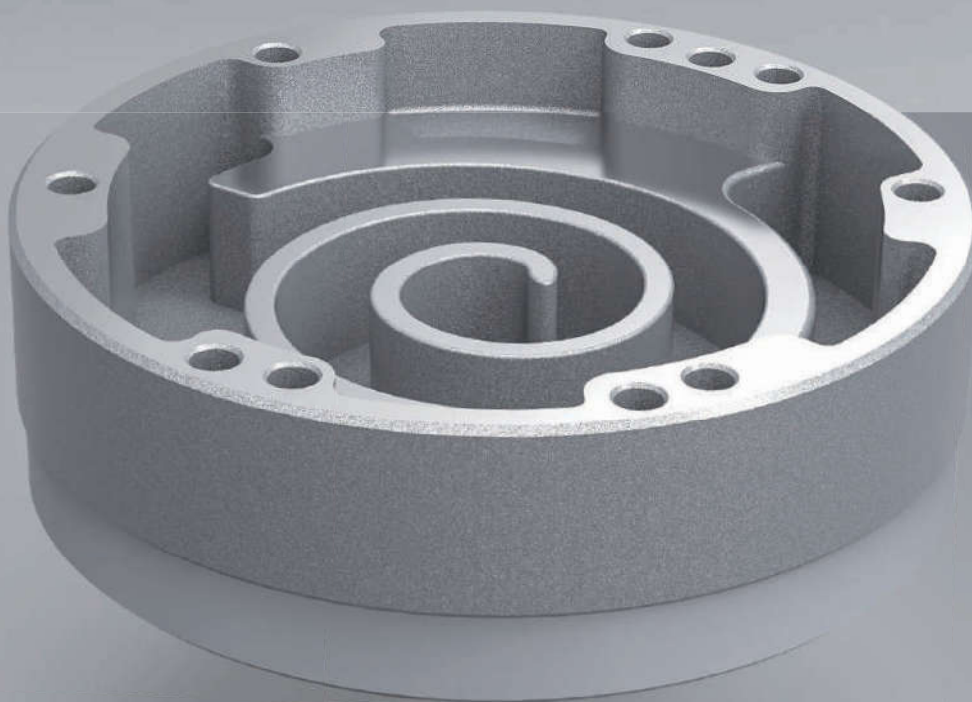
S=8000r/min
fz=0.065mm/z





Scroll Plate

PCD SPECIALTY TOOLS
For Auto Parts



Drilling Reamer

S=4500r/min
fz=0.05mm/z



Side milling cutter

S=39800r/min
fz=0.10mm/z



Helical milling cutter

S=39800r/min
fz=0.05mm/z



Helical milling cutter Milling Cutter

PCD SPECIALTY TOOLS For Auto Parts

Slotted helical milling cutter

S=6000r/min
fz=0.15mm/z



Slotless helical milling cutter

S=8000r/min
fz=0.12mm/z

