

INDUSTRY SOLUTIONS

AUTOMOTIVE



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HAINBUCH
WORKHOLDING TECHNOLOGY



AUTOMOTIVE –
ENGINE OF
INNOVATION

HAINBUCH -

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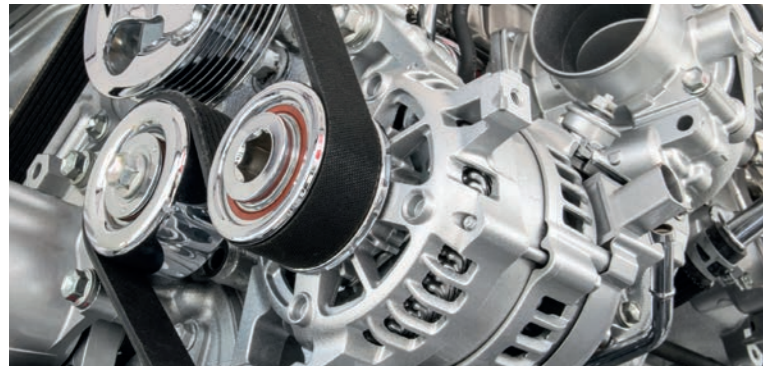
(CFRP)

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Camshaft bush



Cylinder liner



Piston

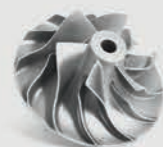


Injector



Camshaft

Combustion engine



Compressor wheel



Diffuser



Turbine shaft wheel

Turbocharger



Switch cam



Gear



Sun shaft



Differential housing

Transmission



Brake disc

Braking system



Hitch

Accessories



Inner race



Ball bearing



Ball cage



CV joint



Axle housing



Bevel gear



Ball pivot

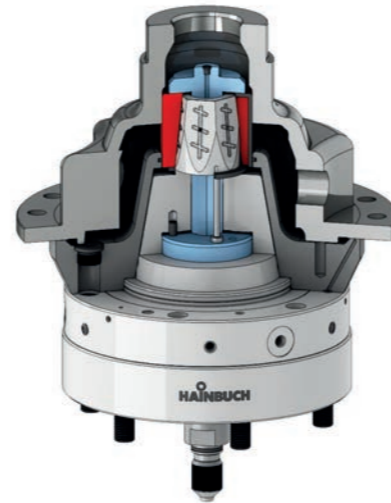
Drivetrain



: TOPlus mandrel

Workholding technology

- Hexagonal mandrel with pull-back effect for high torque transmission and for rigid, vibration-free clamping
- Vulcanized segmented clamping bushing and sealed workpiece end-stop for high chip-safety

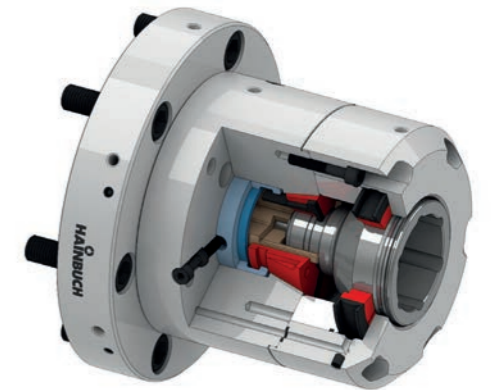


CV

: SPANNTOP chuck with upstream TALEMENT clamping cassette

Workholding technology

- O.D. clamping on the workpiece shaft through a clamping head and additional form-compensating and position-compensating support in the front, unmachined bell area
- Complete solution with all required components [clamping cylinder, media supply, and control unit]

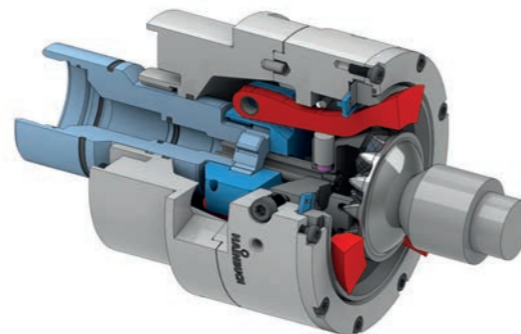


O.D. clamping and axial clamping on the fly in two machining steps on one multi-spindle automatic lathe

: Position-compensating clamping lever chuck

Workholding technology

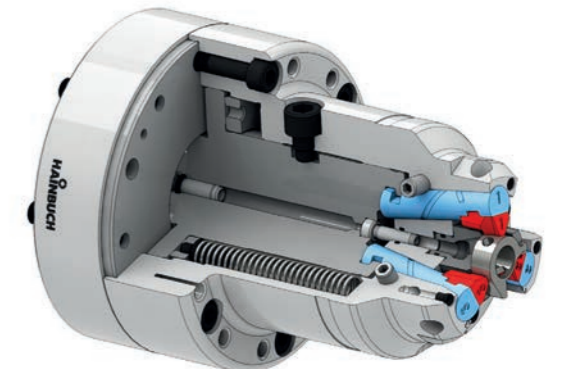
- Workpiece positioning via toothed workpiece end-stop
- Floating clamping taper and convex bearing supported clamping lever ensure position-compensating outside diameter clamping
- By counter-holding one center, the clamping levers can be moved away and the outside diameter of the tothing can be finished



: Bolt chuck

Workholding technology

- Bolt chuck with pull-back effect and tool-optimized interference contour
- Spring activation for reduced clamping force
- Air sensing control for process reliability
- Integrated balancing system



3 locations in Germany | 11 international subsidiaries | more than 40 sales agencies



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HAINBUCH GmbH SPANNENDE TECHNIK

2000/2.17 part no. 80001/0326 Subject to technical changes.

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