Alloy steel 1.7131 | 16MnCr5

Alloy Steel 16MnCr5 is a case-hardening grade for gears and shafts.

Mechanical properties

Ultimate tensile strength	470 - 530 MPa
Yield strength	220 MPa
Young's modulus (modulus of elasticity)	190 – 210 GPa
Elongation at break	21 %

Post treatments

Anodizing compatibility	Not suitable

Common applications

Ideal for the manufacturing of worms	
Bushings and other machine components	

Alloy Steel 16MnCr5 (1.7131) CNC Machining Applications & Parts

Alloy Steel 16MnCr5 (1.7131) is a case-hardening steel known for its excellent core toughness and good wear resistance after carburizing. We precision machine this material to create durable components that are subsequently heat-treated for enhanced surface properties.

Typical Parts We Machine from Alloy Steel 16MnCr5:

- **Automotive Transmissions:** Gears, pinions, shafts, synchronizer hubs
- **Power Tools & Machinery:** Drive spindles, camshafts, heavy-duty fasteners
- **Industrial Equipment:** Bushings, rollers, clutch components

Our Machining Advantage:

We expertly machine 16MnCr5 in its annealed state, achieving tight tolerances and fine surface finishes that are ideal for the subsequent carburizing and hardening processes.

Get an Instant Quote for your custom Alloy Steel 16MnCr5 parts today.