

Honing oil

● Performance Overview

Maxtop honing oil is a special lubricating oil specially developed for the honing process in metal precision machining. It aims to significantly enhance processing efficiency and workpiece quality by optimizing lubrication, cooling and cleaning functions. During the honing process, its lubricating performance effectively reduces the friction between the grinding tool and the workpiece, protects the tool and extends its service life. The cooling feature can quickly remove the heat generated during processing, prevent the workpiece from deforming due to high temperature, and ensure dimensional accuracy.

● Features

01

The unique extreme pressure anti-wear formula significantly reduces the friction coefficient between the grinding tool and the workpiece, decreases the wear of the grinding stone, and extends the service life of the tool.

02

Ensure that a stable oil film is formed during the processing to avoid scratching the surface of the workpiece.

03

Quickly remove the heat generated during honing, prevent the workpiece from deforming due to high temperature, and ensure the dimensional accuracy of the processing.

04

The low-viscosity formula can quickly wash the processing area, effectively remove metal debris and abrasive residue, and keep the processing surface clean.



● Application Scenario

- 1: Automobile manufacturing industry
Precision honing processing of key components such as engine blocks, cylinder liners and piston rings.
- 2: Aerospace field
Surface finishing processing of high-precision hydraulic components, landing gear parts and turbine blades.
- 3: Mold and Machinery Manufacturing
The final processing of high-demand workpieces such as precision mold cavities, gears, and bearings.
- 4: Hydraulic and Pneumatic components:
The fine honing of the inner walls of the hydraulic cylinder barrel, valve body and pump body ensures sealing and durability.
- 5: Other fields:
Surface treatment of ultra-precision metal components such as medical devices and optical instruments.

Performance indicators of honing oil

Project	Quality indicators
Appearance	Brown transparent liquid
Kinematic viscosity, 40°C, mm ² /s	17 ~ 20
Pour point, °C	- 20
Flash point (open), °C greater than or equal to	180
Moisture	no
Maximum no-jamming load (PB), N	830
Corrosion test: Cu at 100°C for 3 hours	Qualified
PH value	Neutral

Maxtop[®]