

Products for Machine Tools

You have to use the best lubricants on modern machine tools due to the increasing demands on the machine. Each machine component esp. the bearings must perform higher in terms of higher rotational speeds and accuracy.

A modern machine tool must demonstrate extreme accuracy, high rotational speed, quiet and smooth running, minimum friction and controlled rigidity.

Designed for the most challenging need of the modern machineries, our products exceed your expectations. Here below is a discussion on the offerings we have for various applications on the machine tools.

Applications:

1. High Speed Grease for:
 - a. CNC Machine Spindles
 - b. Head-stock/ Dressing spindle bearings of the Turning Center.
2. High Performance Grease for the Ball Screws & LM Guide ways.
3. Chuck Pastes.
5. Anti-seize paste for Grub screws of the toolings.
6. Metal working fluids
7. Corrosion Protection Products

High Speed Greases:

Offerings available for Machine Spindles, Head-stock spindle bearings & dressing spindles. Greases have DN values of upto 1,750,000 making these suitable for applications discussed above. The grease have extremely high adherence and very high oxidation stability apart from being stable against water and coolant wash. These offer very low start resistance and have low internal friction.



Products:

- ✓ SYN-setral-DTR-2
- ✓ SYN-setral-HSP

Integrated Technology

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Chuck Pastes:

Machine tool chucks need lubrication to maintain high and a constant clamping force on Work-pieces or tools. Lubricants used must also resist high rotational speeds of the chucks, as much as the coolant wash; providing a stable and continuous lubrication even in face of these adverse conditions. These must provide adequate lubrication preventing temperature rises as number of clamping operations increase. Inadequate lubrication means build-up of friction and thus a corresponding loss of the gripping force which results in ovality of the components and loss of machining dimensions.

Salient Features of Setral Chuck Pastes

- Resistant to coolant wash.
- Excellent Anti-fretting lubricant
- Provide low & a constant coefficient of friction; ensuring thus a high and constant clamping force.
- Longre-lubrication intervals
- High adhesion; consequently only low grease losses at high chuck speeds.
- Very low drop in clamping force, even with complex chuck designs.

Products:

- ✓ MI-setral-5B
- ✓ SYN-setral-6B

High Performance Greases for the LM guide-ways and Ball-screws

Accurate straightness and evenness of all components is pre-requisite of their correct performance. And so are the other crucial factors like the lubricants used!!

Greases must not only withstand the coolant wash; these should provide low friction and long-term performance while protecting against wear.

Products:

- ✓ Setral-EL 961

Anti-seize Compounds:

These are designed for easy removal of the grub screws and fasteners used to hold the tool bits in the tool holder which are otherwise prone to seizure owing to continuous exposure of the coolant wash.

Products:

- ✓ MI-setral-CU-P
- ✓ SYN-setral-1200 HPP S

Metal working Fluids:

A large range of metal working fluids are available for grinding, heavy metal removal and nearly all type of machining operations for ferrous and non-ferrous machining. Designed to perform in extreme conditions, we possess excellent competencies in this business with many of our products in use in high technology areas like aircraft building.

Our products last longer and help achieve better surface finish while improving the life of the cutting tools. These also protect machine against corrosion.

Products:

- ✓ Cool-setral-2/1
- ✓ Cut-setral-CST
- ✓ Cut-setral-SSZ 221

Corrosion Protection Fluids/Coatings for storage and transport.

Products for short/long term protection of components in WIP, storage or transport. These are removable, dry or wet coatings, although they need not be removed as they are functionally lubricating in nature and thin.

Products:

- ✓ PRO-setral-11X
- ✓ PRO-setral-WVR