

OEM Health Assessment UVA and LIDKÖPING grinding machines

Maintain required tolerances and production output levels



OEM Health Assessment of your grinding machine

Is your machine optimized to meet your customers' needs?

After years of hard use, it may be difficult for your grinder to hold required tolerances or production output levels. Unidentified production disturbances may occur. Or, quite simply, your production needs may have progressed beyond the capabilities of the machine you originally specified. It may be time to ease your concern by enlisting KMT Precision Grinding's expert inspection capabilities.

Another reason for an OEM (Original Equipment Manufacturer) inspection of your grinding machine is to make a risk assessment, thereby helping your operations to reduce the occurrence of unforeseen downtime.

What KMT can offer

A specialist will give you a thorough and objective evaluation of the current condition of your machine.

After the inspection, you will receive a comprehensive report detailing its findings and suggestions. Following the assessment it is up to you to decide what you would like to do. We will of course be at your disposal to follow up and offer repairs, suggested maintenance, possible upgrades or replacement parts. Under certain circumstances, the Health Assessment made at your machine can be credited if you place further orders for the inspected machines by KMT.

Remember that original parts and services ordered by KMT also may benefit from adhering warranties that can further enhance cost efficiency of your machine fleet.

Detailed description

OEM Health Assessment will include the following steps:

- A specialists' comprehensive assessment of the machine. Test sequences and inspection procedures will be run according to KMT manufacturing standards.
- When the assessment is completed, the Service Engineer will review the conclusive report with your Maintenance Manager and identify priorities on suggested actions.
- During the assessment the KMT engineers will work closely together with your maintenance department to review the machine history and fault logs to further determine if there are any underlying problems that need to be addressed. An evaluation of the critical spare parts inventory should also be considered.





Health Assessment details

Some parts being checked during the Machine Health Assessment

Mechanical

▶ Slides

- Straightness
- Backlash
- Deflection on both axial and lateral movement

▶ Workhead

- Chuck run out
- Alignment
- Vibration profile

▶ Grinding Spindle

- Quill run out
- Connection integrity
- Alignment
- Vibration profile

▶ Loading

- Backlash
- Alignment

▶ Dressing

- Condition of mechanical mounting and diamond

▶ Measuring Station

- Alignment
- Calibration
- Servo repeatability

▶ Overall condition of machine

- Hoses, pipes, fittings
- Gauges
- Safety guarding and interlocks
- Filters and regulators
- Overall condition of wiring, fittings, connections
- Leaks
- General condition of machine and its cleanliness

▶ Hydraulic and Pneumatics Systems

- Cleanliness
- Pumps and delivery
- Filters, gauges, and regulators

Electrical

▶ Main electrical enclosure

- Cleanliness, and sealing
- Relays and filters
- Cooling fans
- I/O Board
- Power supplies and monitors

▶ Circuit breaker

▶ Pneumatic cabinet

- Sensors, valve connections

▶ Electronic control cabinet

- Circuit boards and connections
- Sensors
- Power supply

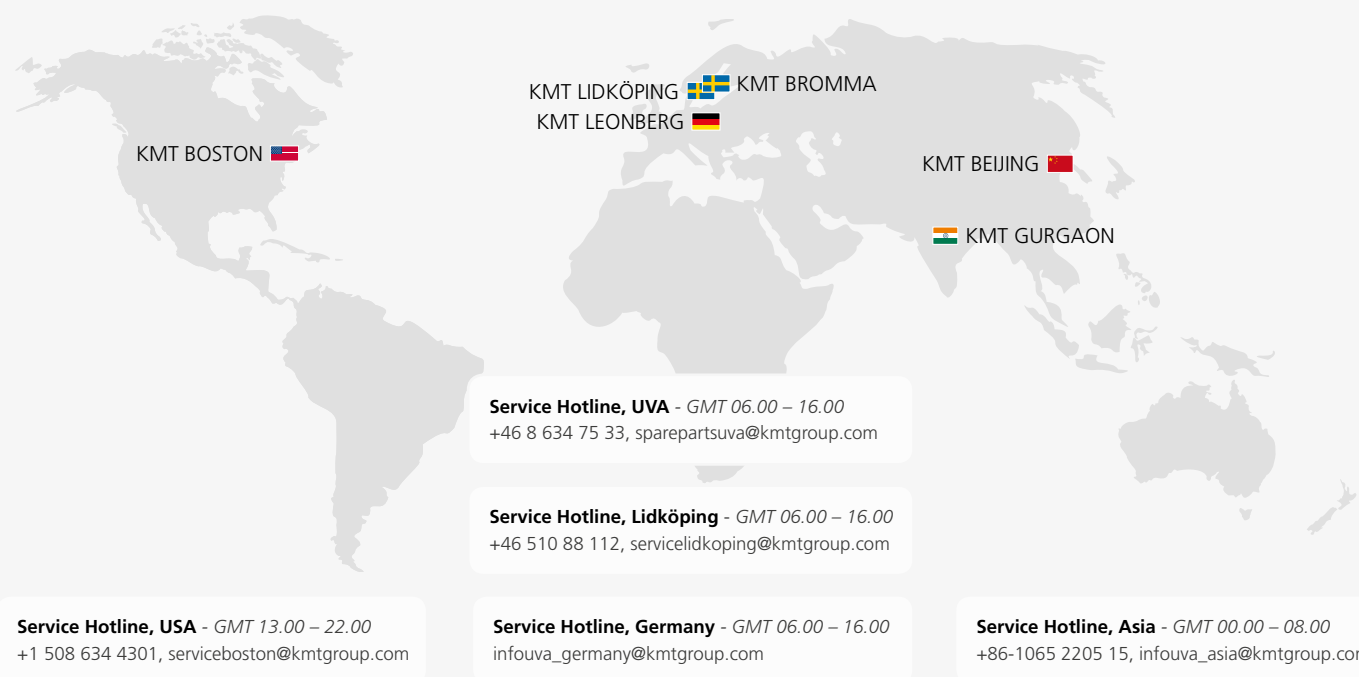
▶ Operator's Panel

- Keyboard and displays
- Voltages
- Push buttons and selector switches

▶ Overall machine

- Terminal connections and enclosures
- Proximity sensors and wiring
- Plugs and lamps
- Motor connections and directions
- Drives and amplifiers

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