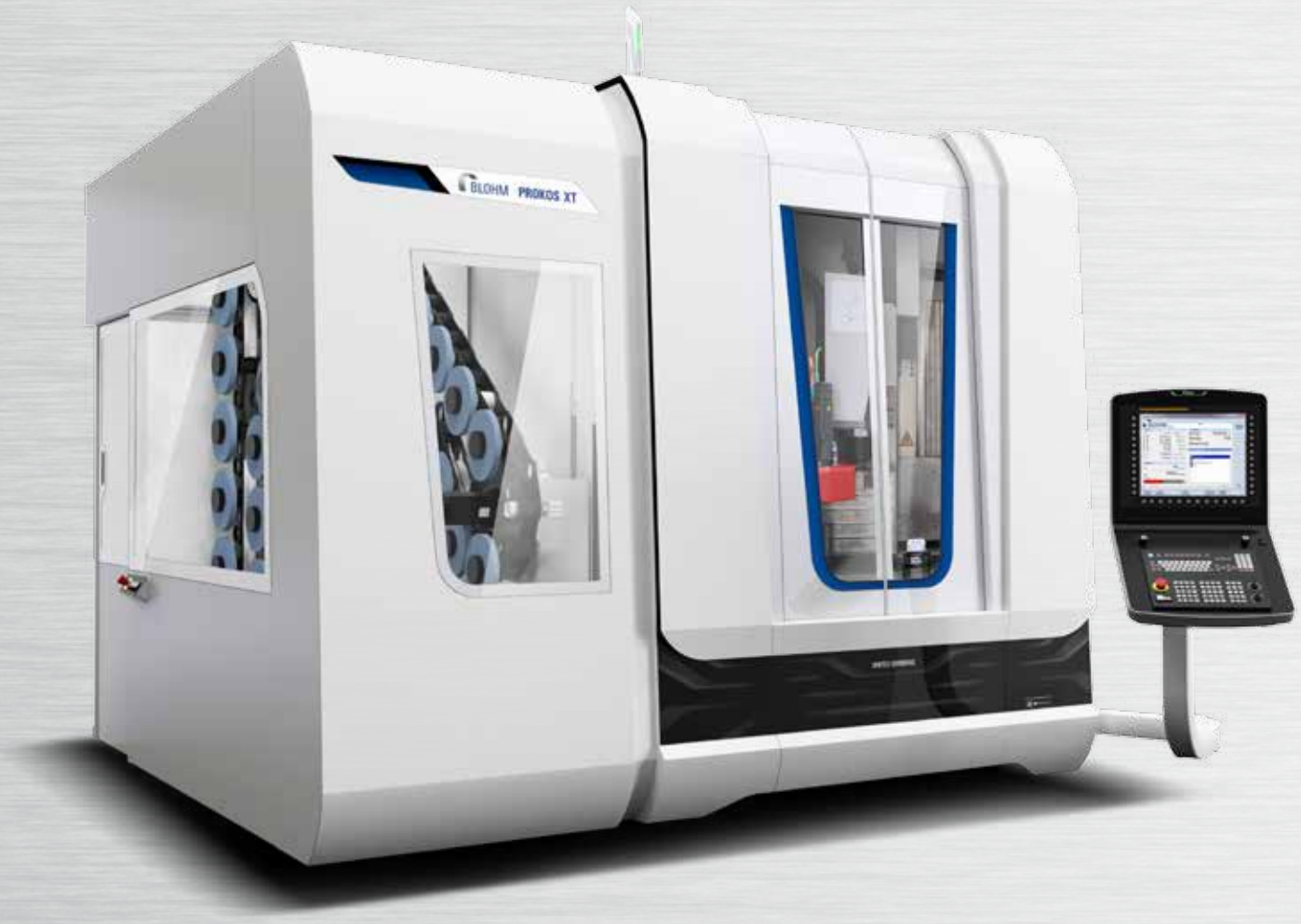
# PROKOS XT

Grinding the Change




## Key data

Multiple-axis grinding center for high speed grinding and complete machining of complex workpieces

Grinding, drilling and milling operations possible in a single clamping

SmartCAM

BLOHM
KÖRBER SOLUTIONS

## PROKOS XT

The PROKOS XT is the ideal grinding machine for the automated machining of complex workpieces. From the machine design through to the production process, the PROKOS XT is designed for productivity, efficiency and quality.

## Complete machining

The PROKOS XT has been systematically developed as a machine tool for grinding, drilling and milling. This results in significant advantages for workpiece quality and process sequences:

- Considerably reduced processing times
- Increased accuracy
- Greater process reliability
- High precision drilling and milling thanks to laser system for calibration of tools (length correction and cutting edge monitoring)
- Suitable for tools with internal cooling

## Speed stroke grinding

This modern grinding method offers many advantages for your production:

- Highest productivity thanks to extremely high feed rates and accelerations
- Low thermal loading of the workpiece
- Low tool costs thanks to reduced wear of the grinding wheel

## Tool changer

The tool changer of the PROKOS XT has been specifically tailored to the requirements of flexible and efficient production:

- 24 positions for tools up to a diameter of 300 mm
- Short tool change times
- High flexibility through mounting of: grinding wheels, cutters, drills or measuring probes
- Tool change during operation by means of external set-up station

## SmartCAM

An early and integrated consideration of process sequences is becoming increasingly important, particularly when programming 5 or 6-axis machining operations.
For this reason BLOHM has developed a new software, which is perfectly suited to the grinding machine: SmartCAM.

- Reduced planning times
- Greater reliability
- Optimum machining process
- Collision testing through prior simulation
- Complete CAD consistency
- Avoidance of machine downtimes
- Higher productivity
- The necessary degree of flexibility during the grinding process is maintained

# Technical data

| | | |
|---|---|---|
| Workpiece dimensions | mm | 300 x 300 x 300 |
| X-axis, machine table | mm | 450 |
| Feed rate | mm/min | 120,000 |
| Y-axis, wheel head vertical travel | mm | 450 |
| Feed rate | mm/min | 20,000 |
| Z-axis, wheel head cross travel | mm | 900 |
| Feed rate | mm/min | 50,000 |
| Grinding spindle drive, AC motor, variable speed | kW/ rpm | 35/4,300 |
| $n_{max.}$ | rpm | 12,000 |
| A-axis, tilting grinding spindle | degrees | 130 |
| Indexing speed, $n_{max.}$ | rpm | 20 |
| B-axis, table mounted indexer | degrees | ∞ |
| Indexing speed, $n_{max.}$ | rpm | 140 |
| Grinding wheels (d x w x bore), max. | mm | 300 x 50 x 76.2 |
| Machine size, width x depth x height (without coolant device) | mm | 3540 x 4500 x 2830 |
| Weight (machine without electrical cabinet and tool changer system) | kg | 10,000 |

Subject to technical modifications