



UW II F

GRINDING CENTER
FOR ECONOMICAL GRINDING



SAACKE PRECISION

in a compact design

Precision & stability

with highest economic efficiency

8-Station wheel changer

for higher flexibility and optimal cooling

Compact automation

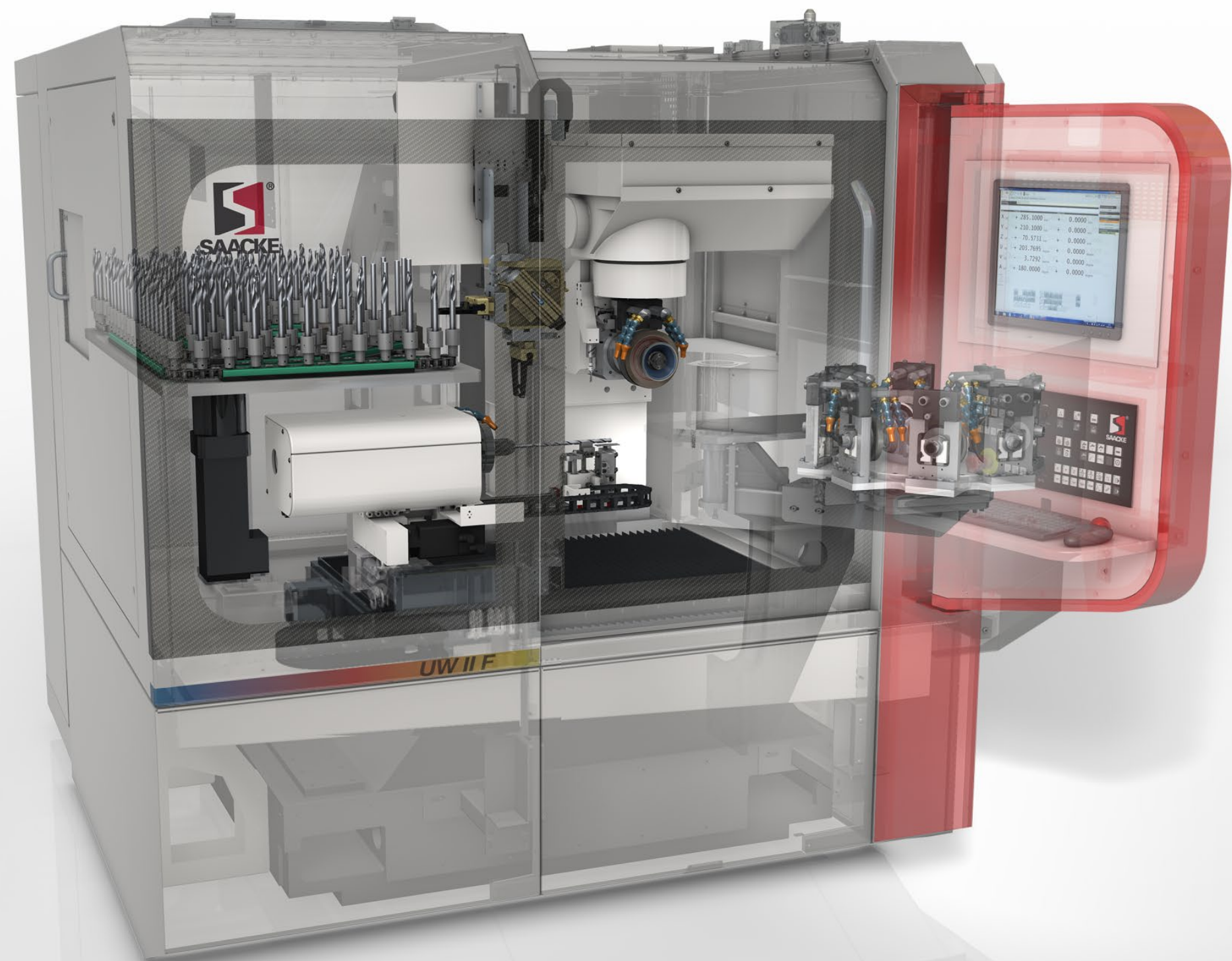
with different loading systems

Precision & stability in small spaces

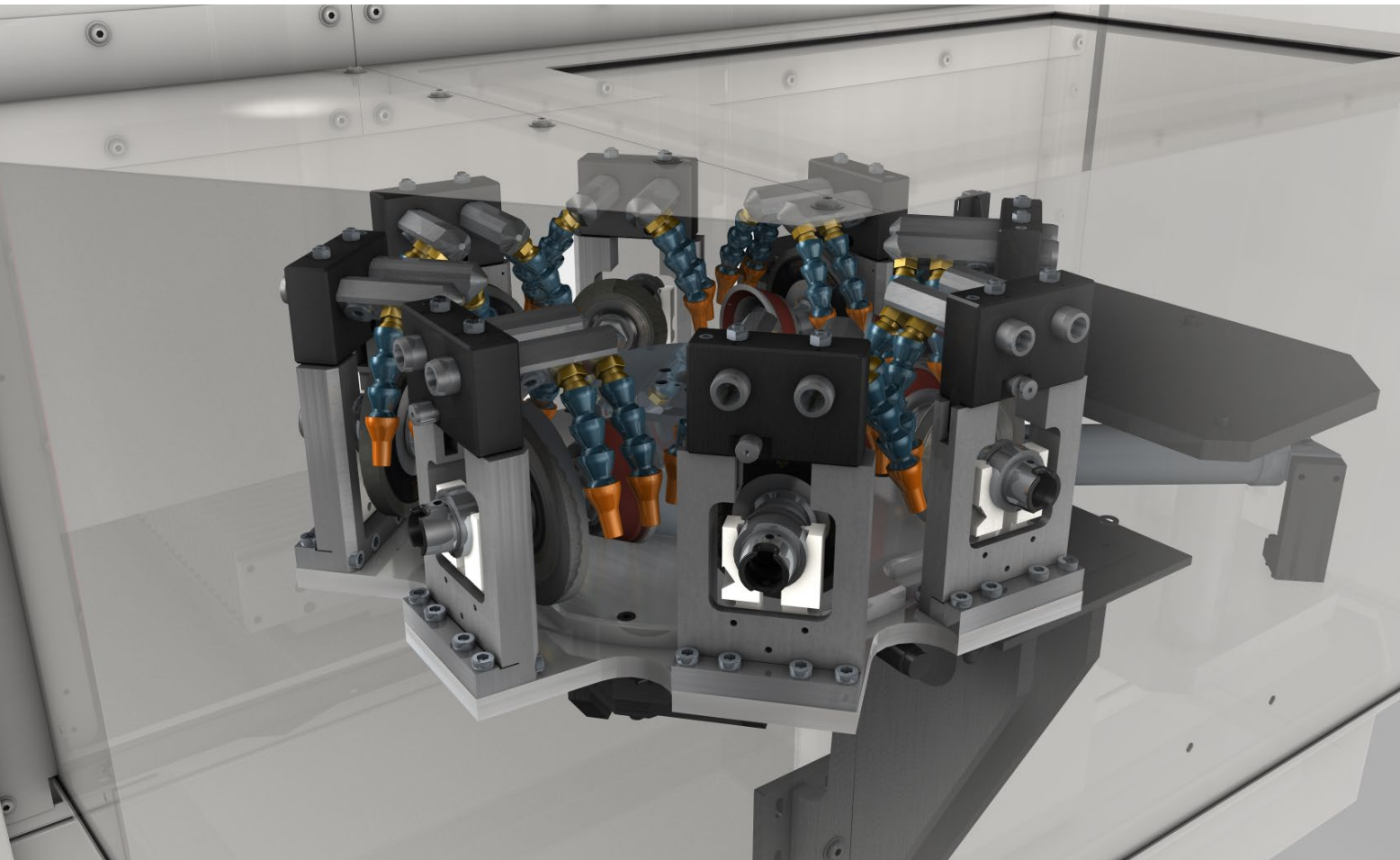
The tool grinding centre model UW II F offers best conditions for highest productivity. Tried and tested kinematics and control, combined with highly efficient expansions, make the UW II F a high-performance all-rounder for all tools with lengths of up to 400 mm and a diameter of 250 mm.

The UW II F can be optionally equipped with a chain loader with up to **320 magazine positions** and a new **8-station grinding wheel changer** with automatically exchangeable cooling nozzle combination. An innovative additional industry 4.0 module called SaaRA that provides information on productivity and machine condition is available as well. This way, the UW II F leads to greatest economic efficiency while taking up very little space.

The possibilities are versatile. Step into the future and experience the new UW II F.



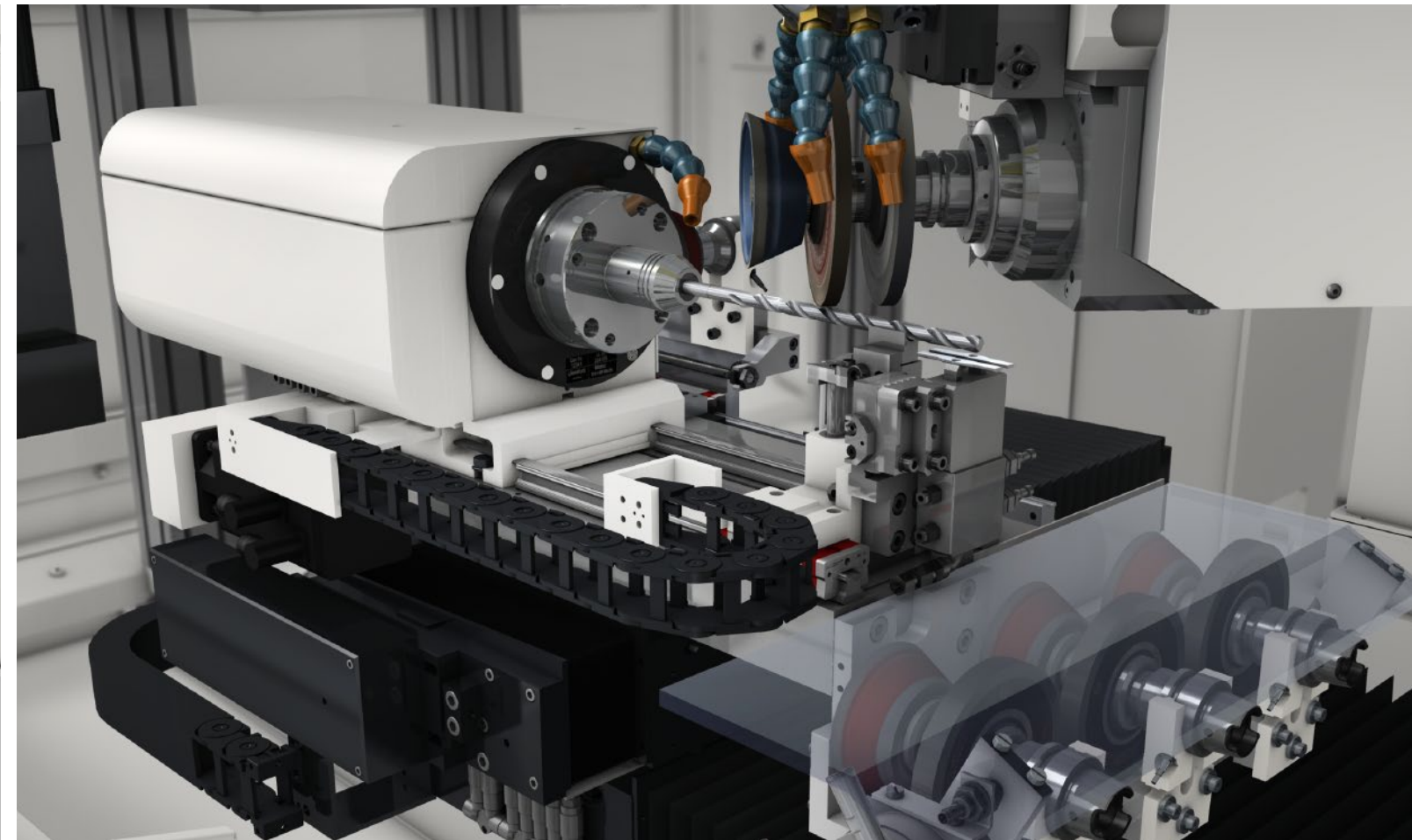
Cutting Edge Technology



All benefits at a glance

- Flexible setup by use of a fully-automatic grinding wheel changer with 3, 4, 6 or 8 package stations
- Higher level of automation through an integrated tool changer
- Highest accuracy by positioning the grinding wheel(s) nearby the rotary centerline of the grinding wheel head
- Digital control and axes drives latency, responsiveness and dynamics for all axes
- Direct-drive work head allows spin grinding up to 600 RPM (1,000 RPM is optional)
- User-friendly software for the complete grinding of metal, woodworking and profile tools

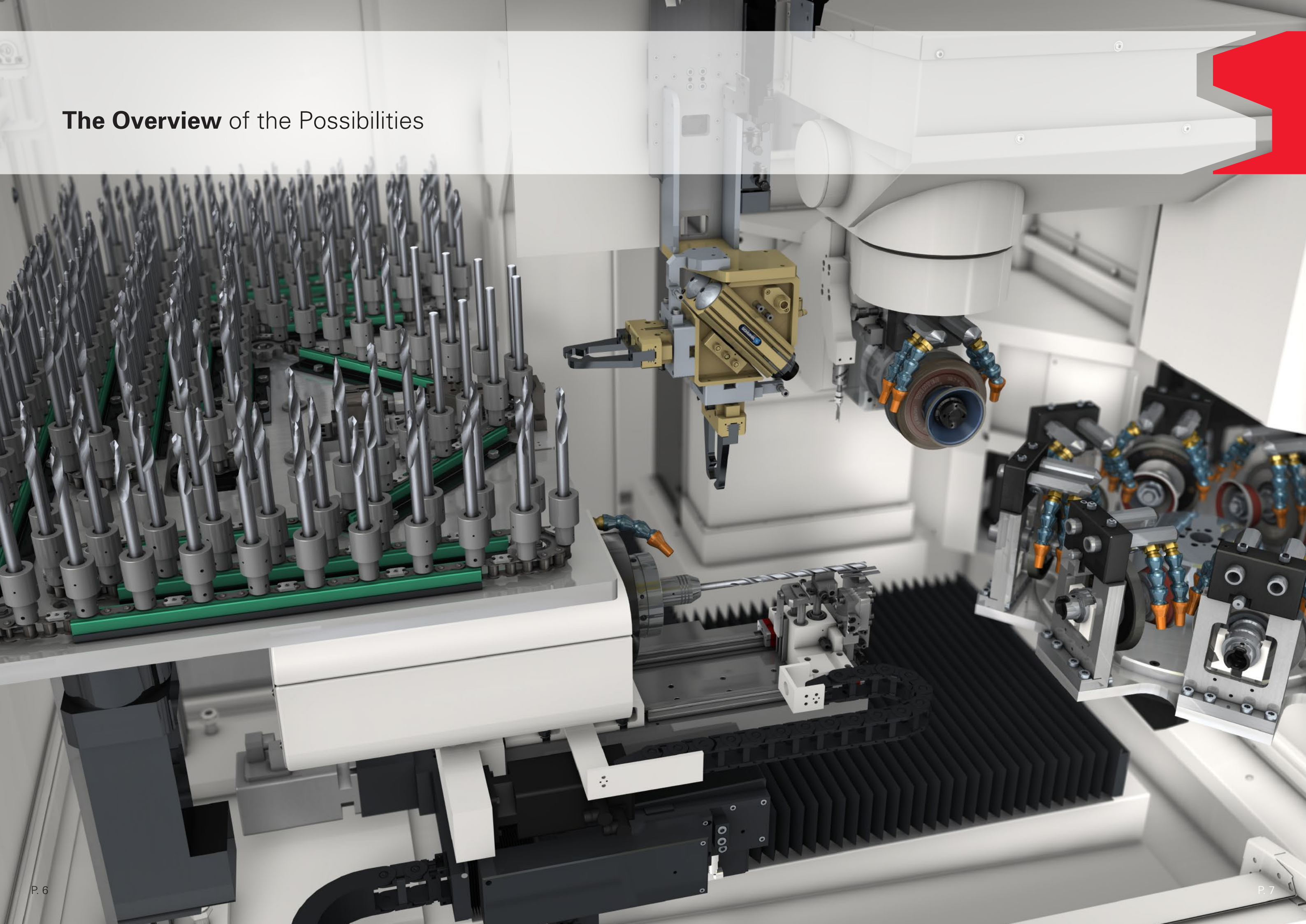
When the tool gets longer



Accelerating your process with a CNC Traveling Tool Support

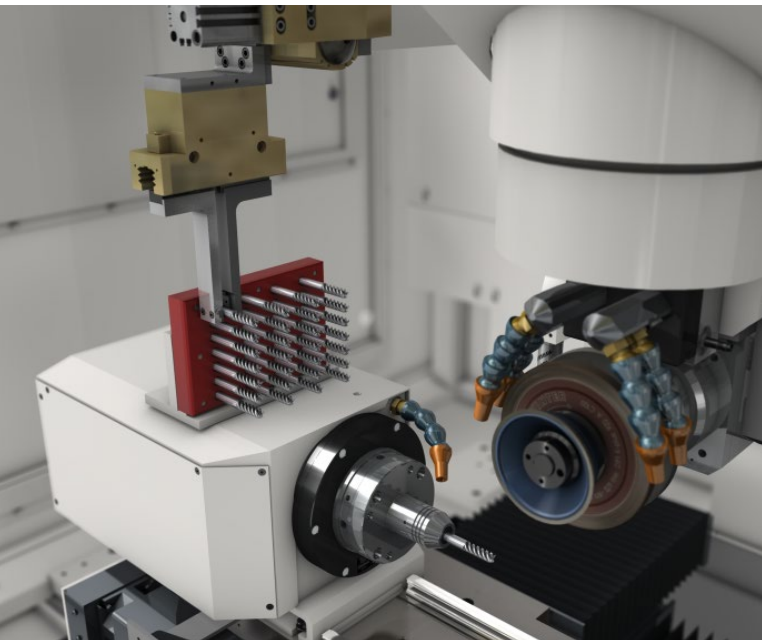
- Comprises a 6th CNC axis on the grinding table
- Equipped with wear-resistant, high-precision linear guides
- Supports the tool while following the grinding wheel along the length of the cut
- Grinding forces are optimized over the entire grind length by a moving and synchronized traveling support
- Supports the tool directly and at the point of the grinding wheel contact
- A sophisticated Adapter System provides many tool supporting possibilities
- Various adapters (tailstock, guide bushings, 1/2 round bushings and full bushings) are optionally available
- Special solutions allow precise control of tool diameters, even tools with back taper

The Overview of the Possibilities



The World of Automation

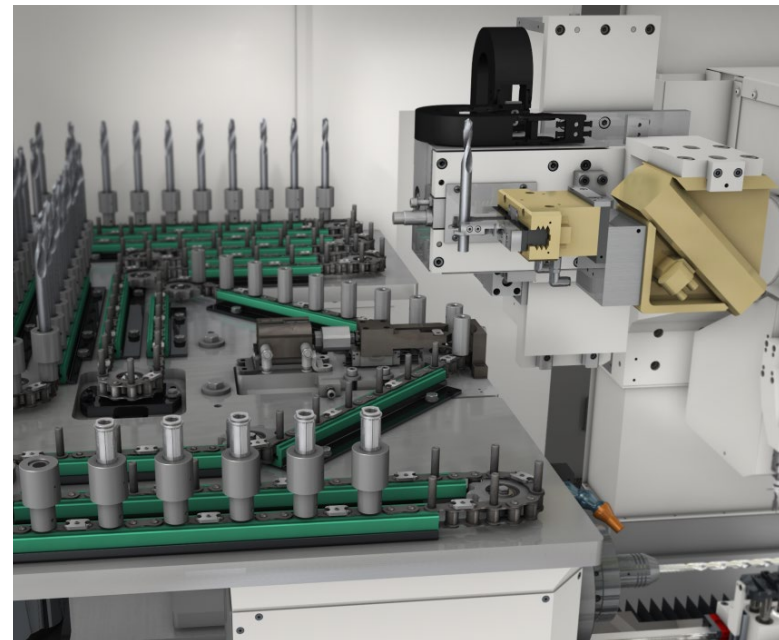
If **Speed and Capacity** count



Pick-Up Loader

Capacity:

- 3.0 to 5.0 mm shank dia. 40 Tools
- 5.1 to 8.0 mm shank dia. 32 Tools
- 8.1 to 11.0 mm shank dia. 28 Tools
- 11.1 to 14.0 mm shank dia. 24 Tools
- 14.1 to 20.0 mm shank dia. 20 Tools



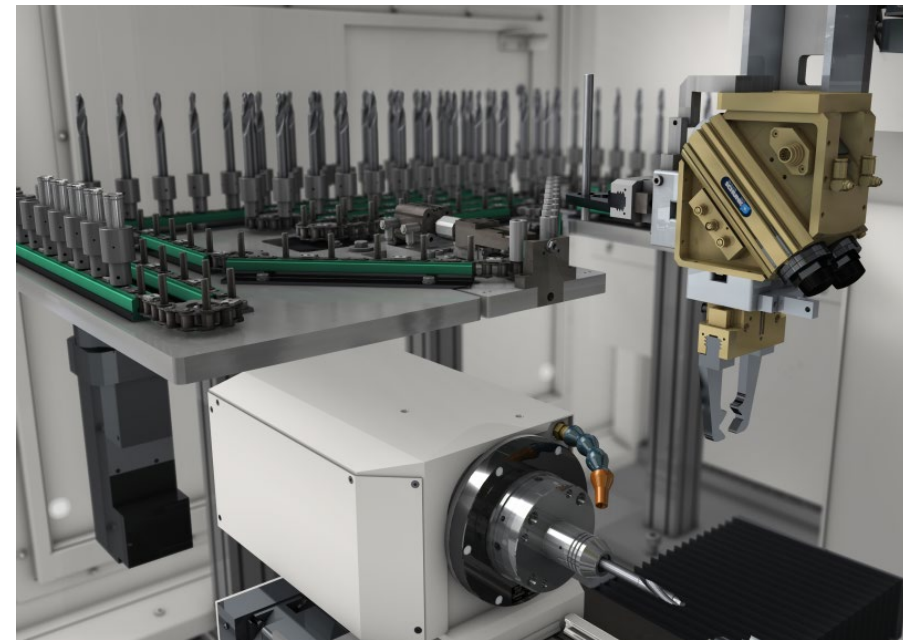
Chain Loader

Capacity:

max. 320 Tools

- includes the gripper unit
- for new production and regrinding

Chaotic magazine loading achieved by automatically changing of the collet(s).



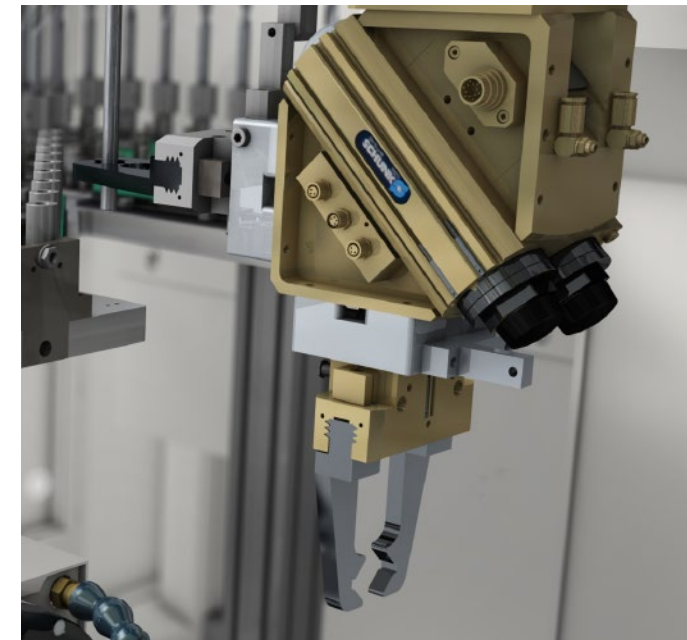
Chain Loader with double gripper unit

Capacity:

max. 320 Tools

- including double gripper unit
- handling system independent of the machine axes

Faster exchange times due to double gripper.

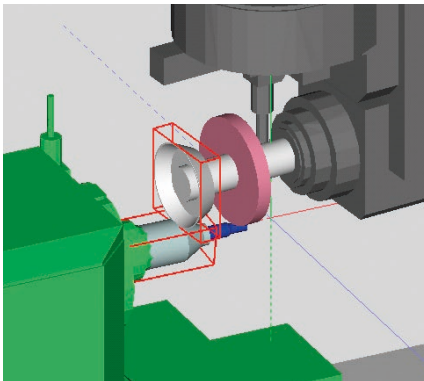


Huge diversity with maximum precision

Technical Data

NUMROTOplus® Software

- The flexible and multifunctional NUMROTOplus® Software is perfect to program special tools in a short amount of time
- An exceptional variety of programs with a built-in database for tools, technology and grinding wheel packages
- Straightforward and easy to install Software updates are available over the complete machine life
- 3D collision monitoring and machine simulation
- The software is compatible with a commercially available and standard PC; from your local PC supplier



Cylindrical and Tapered Cutters

Drills and Stepdrills



Profile Inserts

Form Tools



Deep-hole Drills

Disc type Milling Cutters

Shaper Cutters

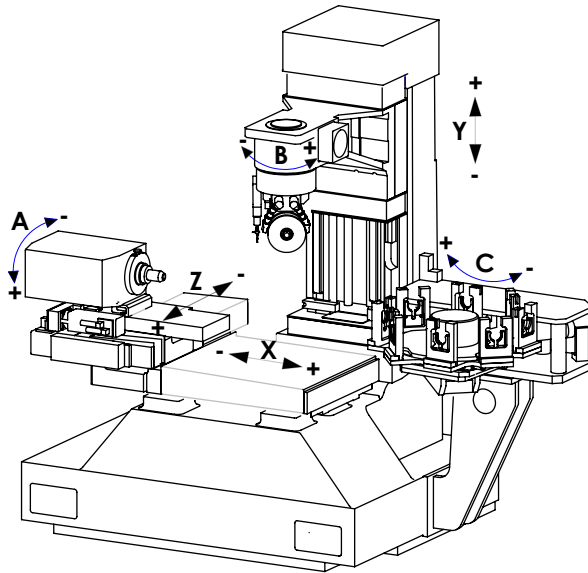
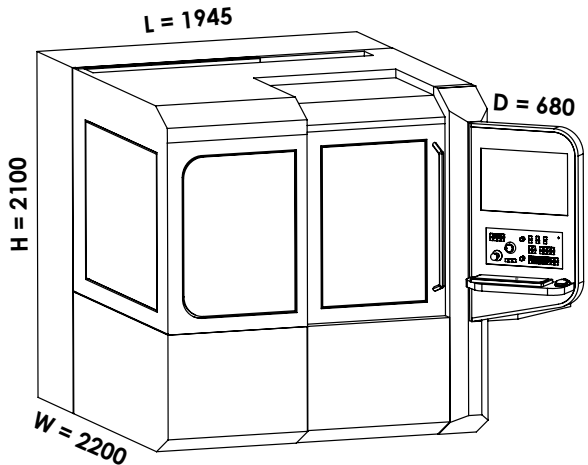
Burr Tools

Taps

Inserts

Tool data	
Max. Diameter	250 mm
Max. Tool Length for Complete Grinding from work-head face	360 mm (optional 400 mm)
Longitudinal X-axis	
Travel Length	530 mm
Feedrate range	0 – 15 m/min
Useful table for Tool Supports	245 x 140 mm
Transverse Z-axis	
Travel Length	320 mm
Feedrate range	0 – 15 m/min
Vertical Y-axis	
Travel Length	400 mm
Feedrate range	0 – 15 m/min
Grinding Head B-axis	
Rotary Travel	245 deg.
Grinding Spindle equipped with Quick Chucking	HSK-C / E50
Spindle Speed Range	2,000 – 12,000 RPM (optional 20,000 RPM)
Max. Grinding Wheel Diameter	150 mm
Grinding Wheel Changer	
No. of Magazine Stations	3 (optional 4, 6, 8)
Workhead A-axis equipped with Direct-Drive	
Type of work holding interface	Plane face (ISO 50)
Indexing Accuracy	+/- 15"
Max. Rotation Speed	600 RPM (optional 1,000 RPM)
Motor Power Ratings	
Spindle Motor Peak Power	16 kW (optional 26 kW)
Longitudinal X-axis motor	2 kW
Workhead A-axis motor	3 kW
Transverse Z-axis motor	2 kW
Vertical Y-axis motor	3 kW
Grinding Wheel Head B-axis motor	2 kW
Weight (approx.)	
	4,500 kg

*Saacke reserves the right to update or amend specifications without prior notice.



UW II F



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