

Ultimate solutions for production or resharpening of high quality cutting tools.



STRAUSAK is a well **established Swiss company** with a global footprint that supplies demanding industries with high performance equipment since **100 years**.

As a member of the **Rollomatic Group** we share common **values** – emphasizing our product **quality** and **precision**. Building customer satisfaction is our priority, supporting their success is our mission.



U-Grind Highlights

Compact

Small footprint and fully integrated workshop oriented solutions.

Autonomous

Efficient and reliable tool or wheel loading systems. High capacity storages.

User friendly

Performant programming interface includind smart probing routines Smart solutions for easy tool setup



Stable Surdy cast iron base. High thermal stability.

Ergonomic

Large door and feet clearances.

Multiple workarea access. Adjustable control angle and height.

Highly versatile Full simultaneous 5-axis High-precision tools in single setups

Designed by Experts

STRAUSAK U-Grind series 5 axes CNC-Tool grinders with integrated automation

Easy innovative tooling

unmatched ergonomics smart probing routines

Performant powerfull spindles

efficient coolant delivery optimized stiffness

Accurate

direct measuring systems embedded temperature control

smart process monitoring

Reliable swiss key components

oversized guides and drives efficient protection systems

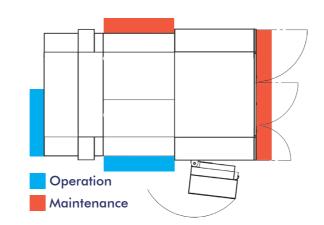
Safe detailled 3D simulation

preventive crash detection secure operating modes

Ergonomics first

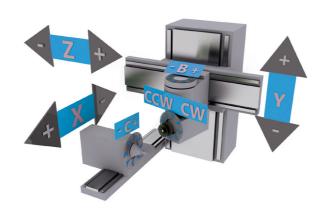
Access from 3 sides and wide open view to the grinding process, enhances operational safety.

Optimized ergonomics provided by the adjustable and control unit guarantees outstanding working comfort.



Smart kinematics

Everything is within easy reach considering the generously proportioned working area. This is the result of a carefully engineered machine design.



Masterpiece Gallery

When cutting tools become Art.



Thread mill

Full solid carbide Mechanical production

- Narrow tolerances
- Sharp wheel geometry
- · Perfect surface finish



Circular milling cutter

Full solid carbide Watch industry

- · Crossed helicoidal teeth
- Small corner radius
- High accurate geometries



Parabolic endmill

Full solid carbide Mold industry

- Smooth shape transitions
- Perfect surface finish



Special die punch

Full solid carbide
Die/Mold industry

- High geometrical accuracy
- Perfect surface finish
- High material removal

Unlimited Programming

NUMROTOplus® – The professional's preferred interface.







Tailored Equipment

Grinding spindles



Main Spindle

- Automatic HSK interface
- High power and high torque
- Made in Switzerland







- Automatic HSK 20 interface
- Up to 60 000 rpm

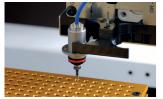


Speed Multiplier

- Up to 35 000 rpm
- · Automatic unit loading

Measuring & Referencing Systems

- Direct measuring systems on each axes
- Tool probing and monitoring
- · Wheel probing and monitoring
- Automatic calibration cycles







Pallet calibration

Linear scales / rotary encoders

Tool probing / monitoring



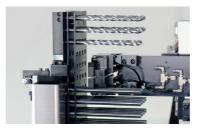
Wheel probing / monitoring



Gripper monitoring

Pick Up Loader

- Reliable loading system
- Cost effective automation
- Tool or collet loading
- Optional tool reverse unit
- Up to 60 tools





Direct Drive Work Head

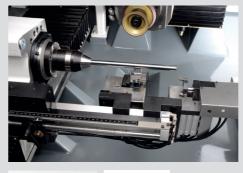
- High dynamic and max rpm
- Versatile clamping interface
- Various tool support unit
- Quick setup system
- **Runout reduction solutions**











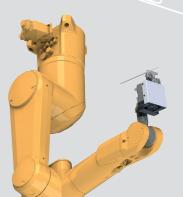


Robot Loader

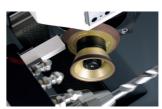
- Fast tool loading
- High autonomy
- Automatic calibration
- Wide tool range capacity
- Tool reverse / tool push-in functions
- Fully integrated
- Up to 1000 tools







Wheel Management





- Wheel plunge cycle
- Wheel oscillation cycle



Wheel Changer 6×

- Compact
- Reliable
- Separated from work area



HSK 63F Wheel Arbor

- High rigidity
- Up to 3 wheels per arbor
- Compatible with HSK 50
- Integrated balancing holes







U-Grind

A compact tool grinder designed for special tool production and resharpening jobs.

- + large grinding capacity
- + high accuracy
- + performant spindles
- + smart clamping systems
- + unmatched ergonomics
- + programming on NUMROTO

This configuration is specifically adapted for small batch production of special tools or regrinding jobs. The optional pickup loader allows for limited unattended operation.



U-Grind EVO

A smart grinding center providing autonomy and performance on small footprint.

- + high productivity
- + wide equipment selection
- + efficient automation systems
- + integrated process monitoring

This version proposes a perfect balance between manual and automated production. Compact, efficient and user, the U-Grind EVO supports the versatility necessary to a flexible tool production.



U-Grind EVO+

A fully equipped grinding center designed to meet the demanding expectations of cutting tool manufacturers.

- + adapted to 24/7 unattended production
- + fully integrated high capacity tool loader
- + double gate tool inspection module



In this special configuration the U-Grind EVO+ enables the highest productivity and best performance required for high volume, unattended production. The additional module integrates organizational space for the machine accessories, as well as the separation of the cutting tools from the working area.









Specifications

Grinding Capacity

 Max. tool Ø (production)
 32 mm
 1.26"

 Max. tool Ø (resharpening)
 150 mm
 5.90"

 Max. tool length
 500 mm
 19.70"

 Max. cutting length
 300 mm
 11.80"

Rotary Axes
Range B-axis

Range C-axis
Rotation speed C-axis
Resolution

340° unlimited 2000 rpm 0.0001°

Workpiece Spindle

Clamping/Unclamping mechanical/pneumatic
Attachment ISO 50 SK 50

Linear Axes

 Rapid feed
 15 m/min
 590"/min

 Resolution
 0.0001mm
 0.000004"

Grinding Spindle

Attachment HSK 63F or HSK 50E

Speed Range 500 - 12 000 rpm

Power (S1) 12 kW 16 HP

Torque (S1) 12.3 Nm 9 ft-lbs

Grinding wheel Ø 150 mm 6"

CNC-Control

Type
Control interface

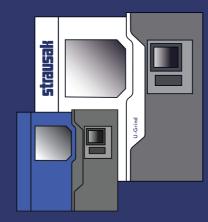
NUM Flexium NUMROTO

Wheel Changer

Capacity Attachment

HSK 63F or HSK 50E

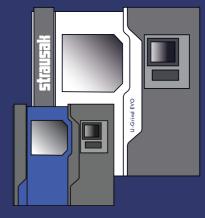
Dimensions



U-Grind
Length × Depth × Height
225 × 220 × 220 cm

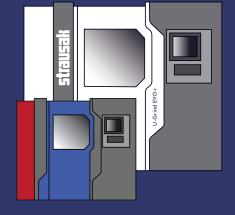
Weight 4150kg 9130lbs

86"×87"×87"



U-Grind EVO
Length × Depth × Height
225 × 220 × 220 cm
86" × 87" × 87"

Weight 4300 kg 9460 lbs



U-Grind EVO+ Length × Depth × Height 275 × 220 × 220 cm

108"×87"×87"

Weight 4600 kg 10120 lbs

Specifications are subject to change without notice.

Our mission is to build the best products and provide excellent services to ensure our customer's full satisfaction at every stage.

As reliable industrial partners, our support activities are essential parts of the solution we supply.



North America

Strausak Inc. 1295 Armour Blvd. Mundelein, IL 60060 USA

Tel.: +1 847 393 2266

sales@strausakusa.com support@strausakusa.com

Europe

Strausak AG Alte Bernstrasse 53 4573 Lohn-Ammannsegg Schweiz

Tel.: +41 32 677 55 55

info@strausak-swiss.ch sales@strausak-swiss.ch support@strausak-swiss.ch

Asia

Strausak Ltd. No. 12-3, Zhuangqian Rd., Shengang Dist., Tachung City 42951 Taiwan

Tel.: +886 4 25610676

sales_asia@strausak-swiss.ch support asia@strausak-swiss.ch

