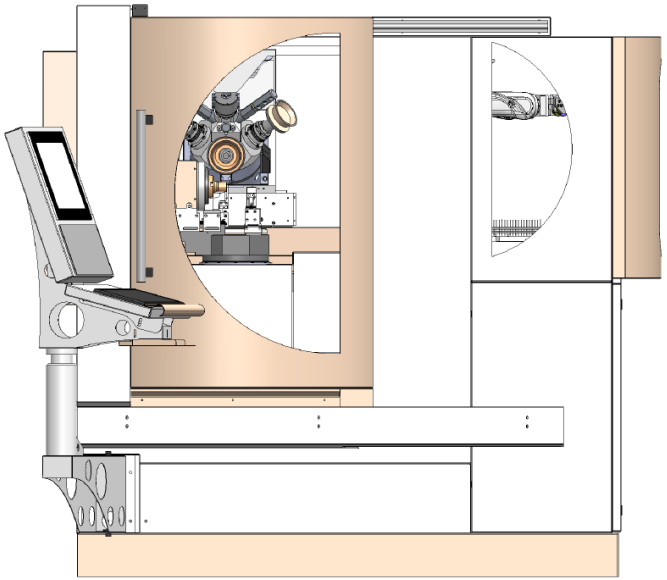
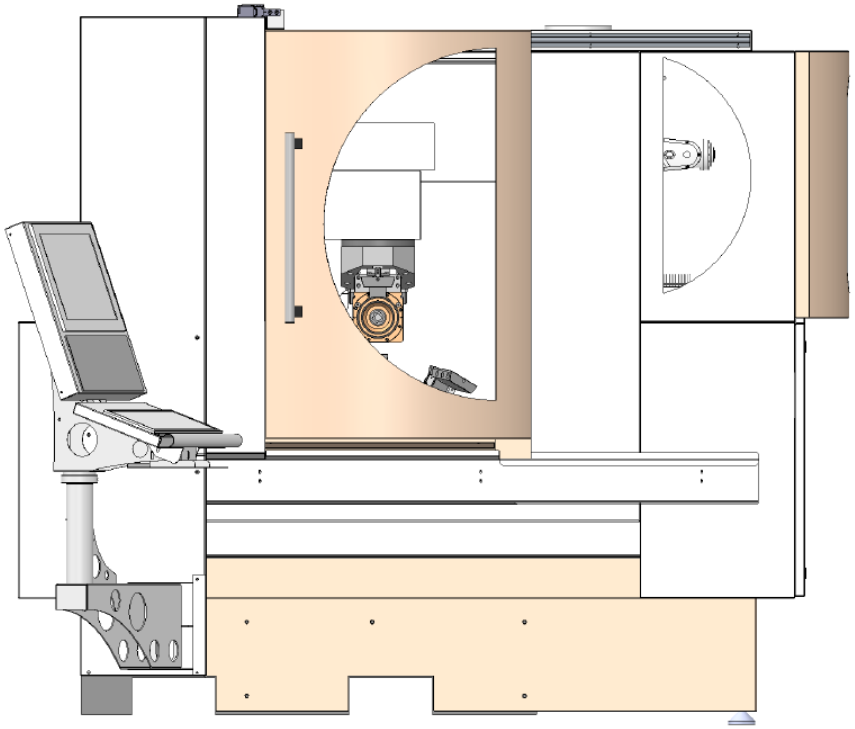


The future begins now

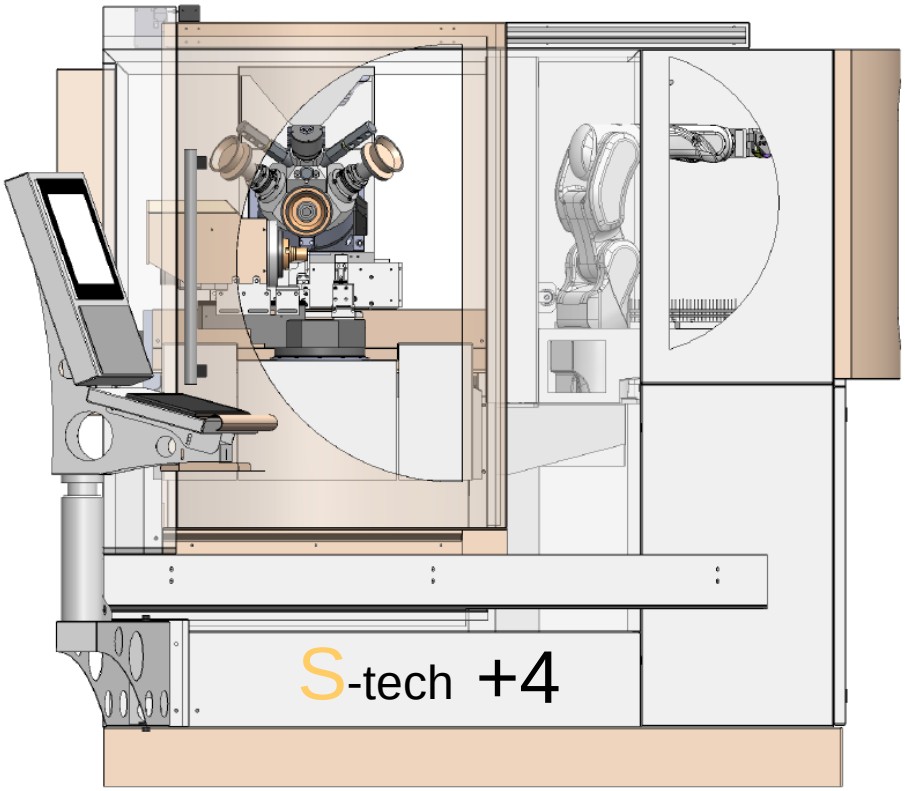
JOERG S-tech +



www.s-techplus.com

5 Axis Tool Grinding machine
The perfect solution for your standard tools

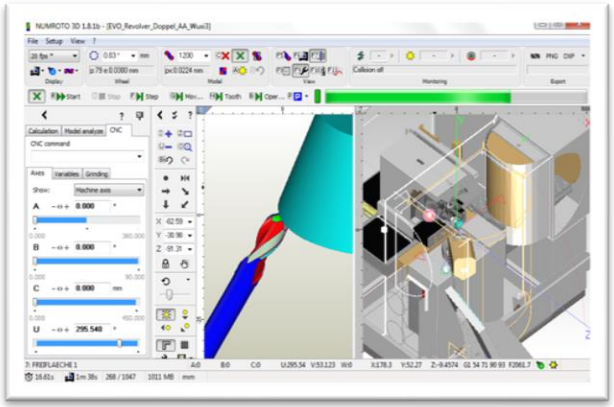
S-tech +4

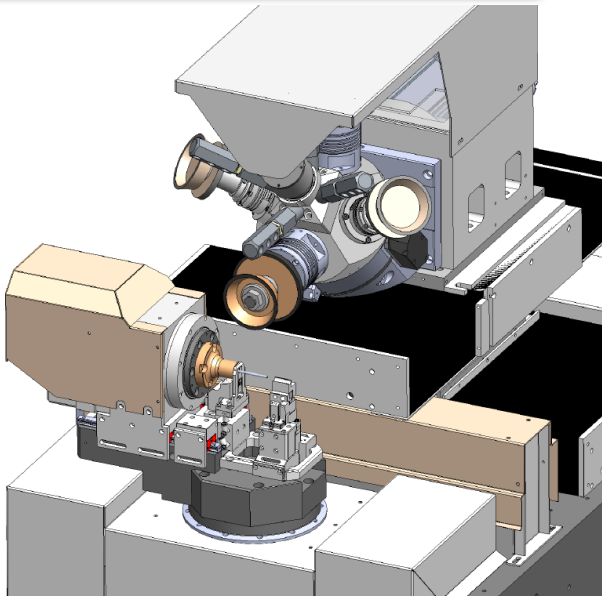


NUM Control Flexium +68
NUMROTO plus grinding software

num CNC HighEnd Applications

numroto Total solution for tool grinding





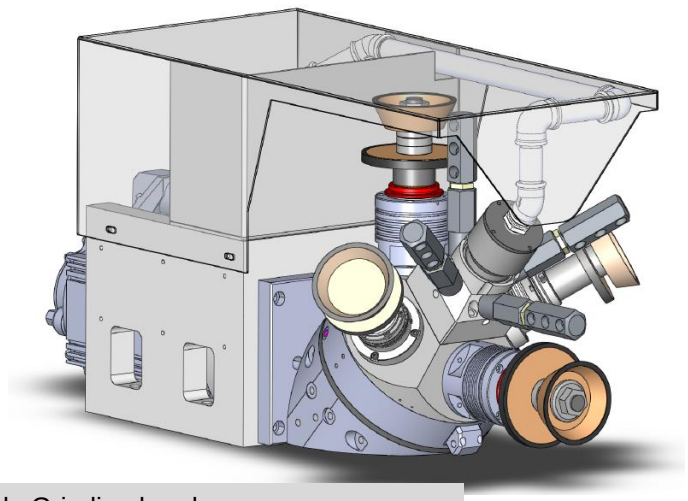
Technology on the highest level
5 Axis Tool grinding machine with linear motors in X,Y and Z
Direct drive in all rotary axis A und B
Hydraulic balance system in the vertical axis ensure the motor current and precision.

The heart of the machine is the grinding head turret with 4 grinding spindles. and one spindle motor.

The turret allows a wheel change in less than 6 sec.

Technical Information
Turret head wheel changing time 6 sec

S-tech +4



Flexible Grinding head
gives the possibility to add up a high frequency spindle
Maximum Grinding wheel diameter125mm

Machine: L1,7 x W1,5 x H 1,85m
approx. 3000Kg

Machine base and axis components made of nature stone for high precision

Turret with up to 4 Grinding spindles
Free selection of HSK adaption 32,40 or 50.
3 Grinding wheels per wheel adapter
Perfect coolant in the process through simultaneous rotation together with the wheel

External Coolant device for Linear and torque motors

Technical Data:

Tool diameter
0.2mm to 16mm

Tool length:
Up to 120mm

Autom. Clamping
Schaublin W Type
NANN
GDS
Schunk

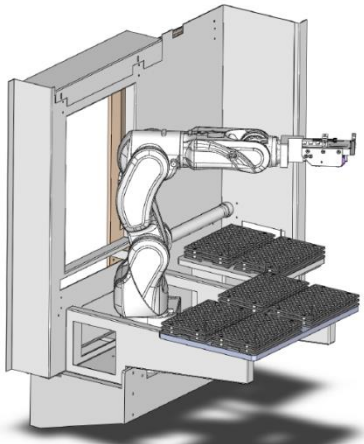
X Linear Motor	340mm
Y Linear Motor	185mm
Z Linear Motor	285mm
(Y weight balance)	
B Direct drive	210 Grad
A Direct drive	2000 rpm

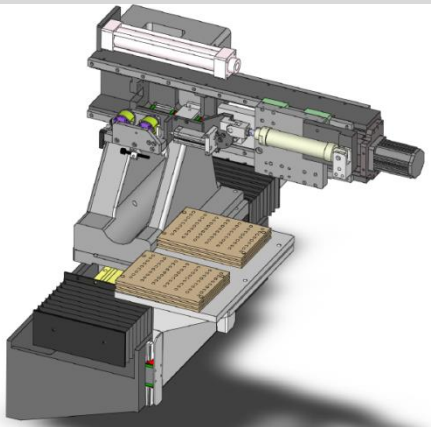
Spindle Motor: 10kW
10.000 rpm

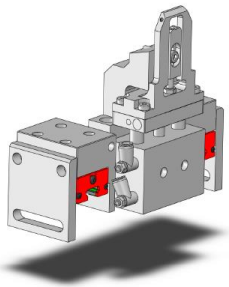
Marposs/ Renishaw 3D:
Tool and wheel probe

Heidenhain measuring system all axis

Tool loading:
3 Axis handling; 6 Axis Nachi robot

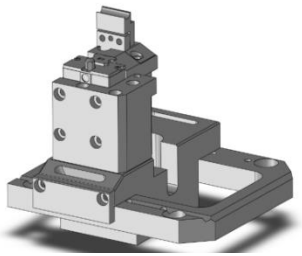






V Prism for perfect runout of the blanks

Support in different execution and length



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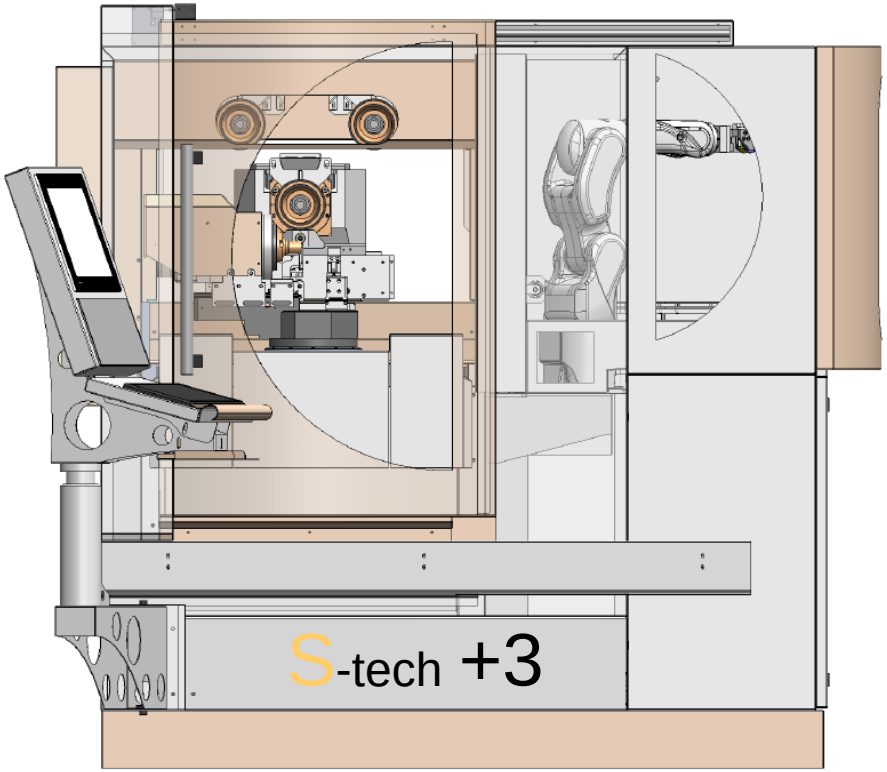
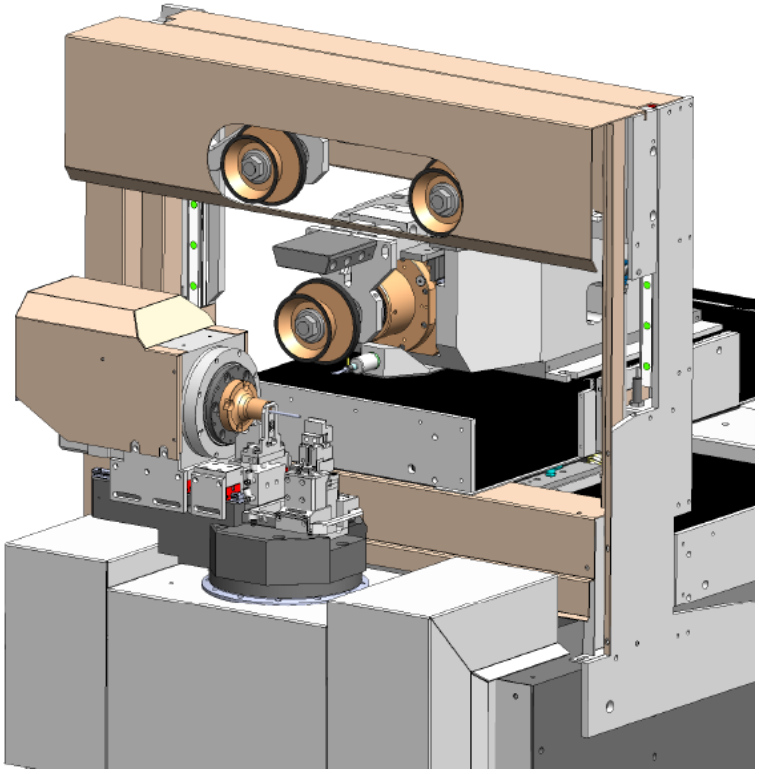
5 Axis Tool Grinding machine
The perfect solution for your standard and special tools

S-tech +3



NUM Control Flexium +68
NUMROTO plus grinding software

num CNC HighEnd Applications
numroto Total solution for tool grinding



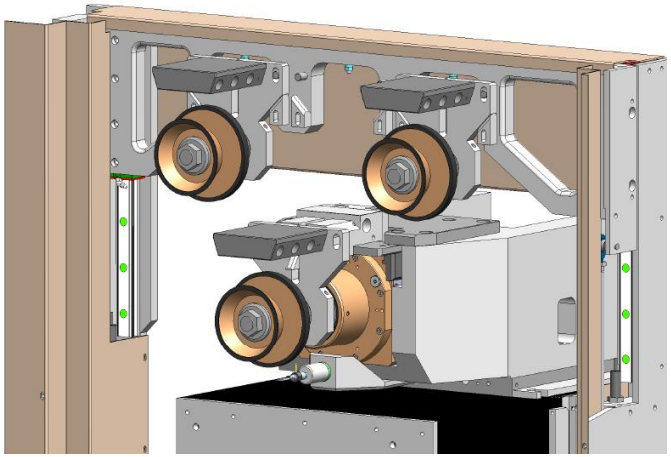
Technology on the highest level
5 Axis Tool grinding machine with linear motors in X,Y and Z
Direct drive in all rotary axis A und B
Hydraulic balance system in the vertical axis ensure the motor current and precision.

1 Grinding spindle HSK50 with 3 station wheel changer include coolant change

JOERG

Technical Information
3 Station wheel changer

S-tech +3



Machine: L1,7 x W1,5 x H 1,85m
approx. 3000Kg

Machine base and axis components made of nature stone for high precision

Power full direct driven spindle motor with automatic clamping

3 Grinding wheels per wheel adapter plus perfect coolant on each wheel

External Coolant device for Linear and torque motors

Technical Data:

Tool diameter
0.2mm to 16mm

Tool length:
Up to 120mm

Autom. Clamping
Schaublin W Type
NANN
GDS
Schunk

3 Stationer Wheel changer include coolant block
Maximum Grinding wheel diameter 125mm

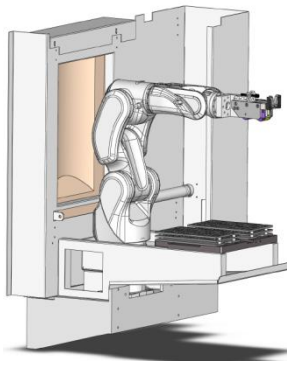
Tool loading:
3 Axis handling
6 axis Nachi robot

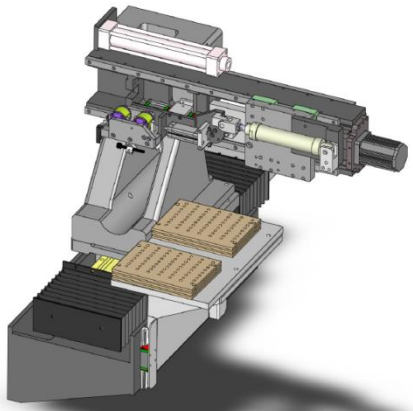
X Linear Motor	340mm
Y Linear Motor	185mm
Z Linear Motor	285mm
(Y weight balance)	
B Direct drive	210 Grad
A Direct drive	2000 rpm

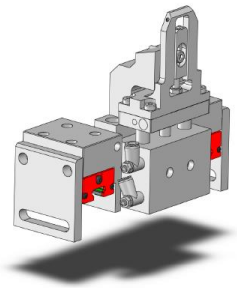
Spindle Motor: 10kW
10.000 rpm

Marposs/ Renishaw 3D:
Tool and wheel probe

Heidenhain measuring system all axis

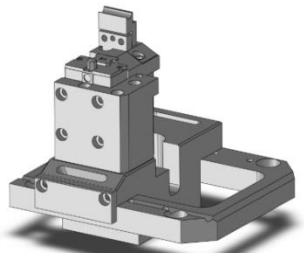






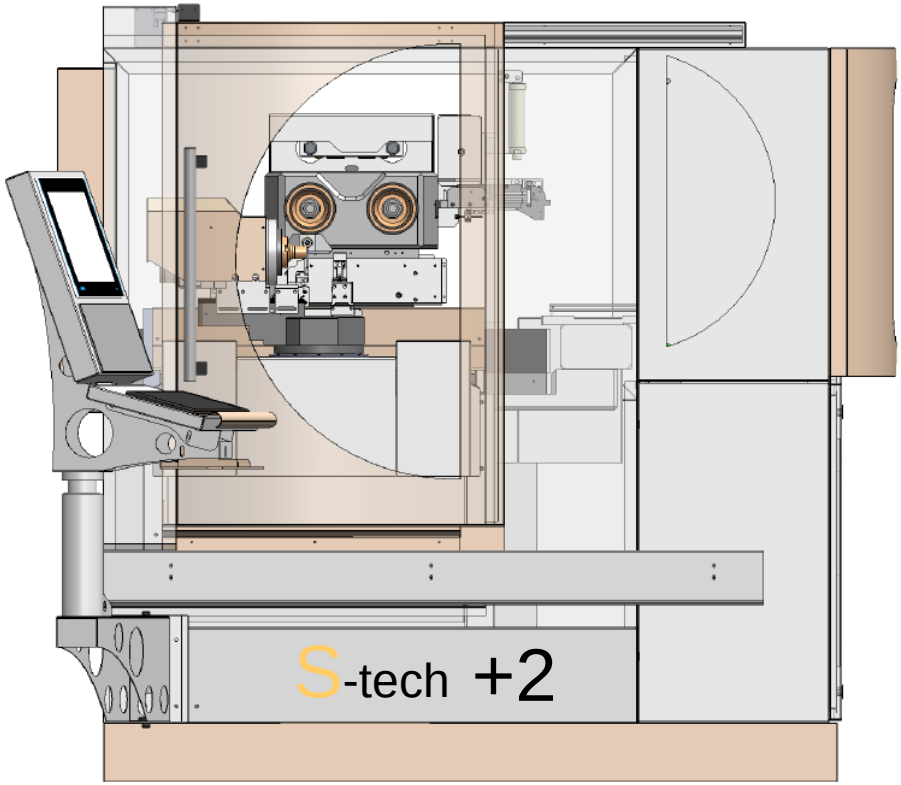
V Prism for perfect runout of the blanks

Support in different execution and length



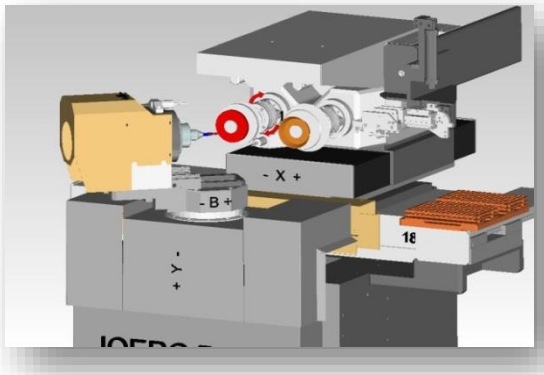
5 Axis Tool Grinding machine
The perfect solution for your standard tools

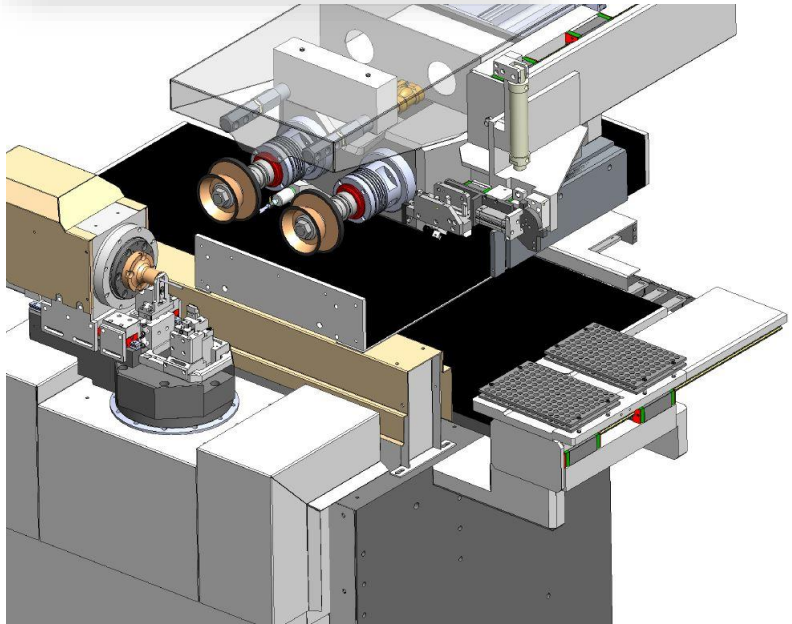
S-tech +2



NUM Control Flexium +68
NUMROTO plus grinding software

num CNC HighEnd Applications
numroto Total solution for tool grinding





Technology on the highest level
5 Axis Tool grinding machine with linear motors in X,Y and Z
Direct drive in all rotary axis A und B
Hydraulic balance system in the vertical axis ensure the motor current and precision.

2 Grinding spindle HSK50, 40 or 32 with manual clamping bring you a lot advantage in precision
Flexibility from the software allows you to grind right or left side of the wheels on any spindle

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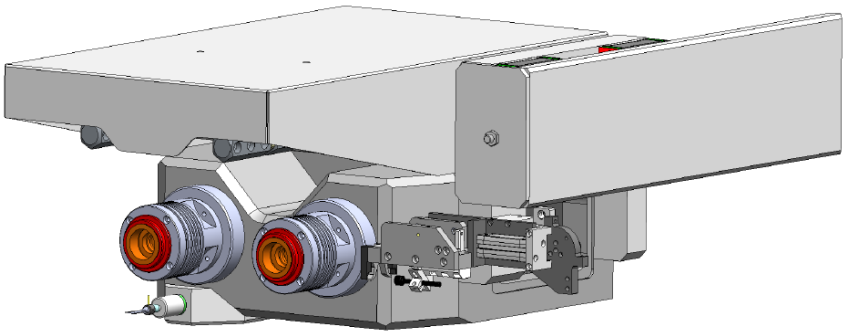
Technical Information
2 Spindle grinding head

S-tech +2



Machine: L1,7 x W1,5 x H 1,85m
approx. 3000Kg

Machine base and axis components made of nature stone for high precision

Power full spindle motor with HSK selection

3 Grinding wheels per wheel adapter plus perfect coolant on each wheel

External Coolant device for Linear and torque motors

Technical Data:

Tool diameter
0.2mm to 16mm

Tool length:
Up to 120mm

Autom. Clamping
Schaublin W Type
NANN
GDS
Schunk

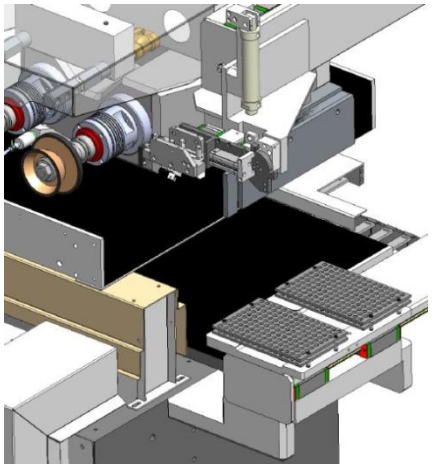
Select your spindle HSK 50, 40 or 32
2 Grinding spindle for your standard or special tools

X Linear Motor	560mm
Y Linear Motor	185mm
Z Linear Motor	285mm
(Y weight balance)	
B Direct drive	210 Grad
A Direct drive	2000 rpm

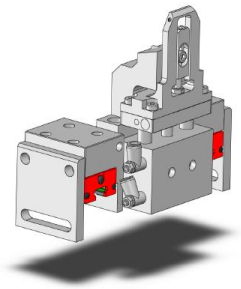
Spindle Motor: 10kW
10.000 rpm

Marposs/ Renishaw 3D
Tool and wheel probe

Heidenhain measuring system all axis

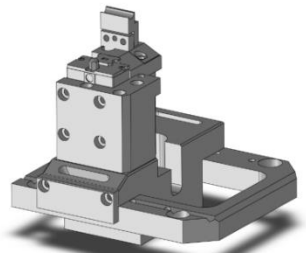


Tool loading:
Pick up
3 axis Handling
6 axis Nachi robot



V Prism for perfect runout of the blanks

Support in different execution and length



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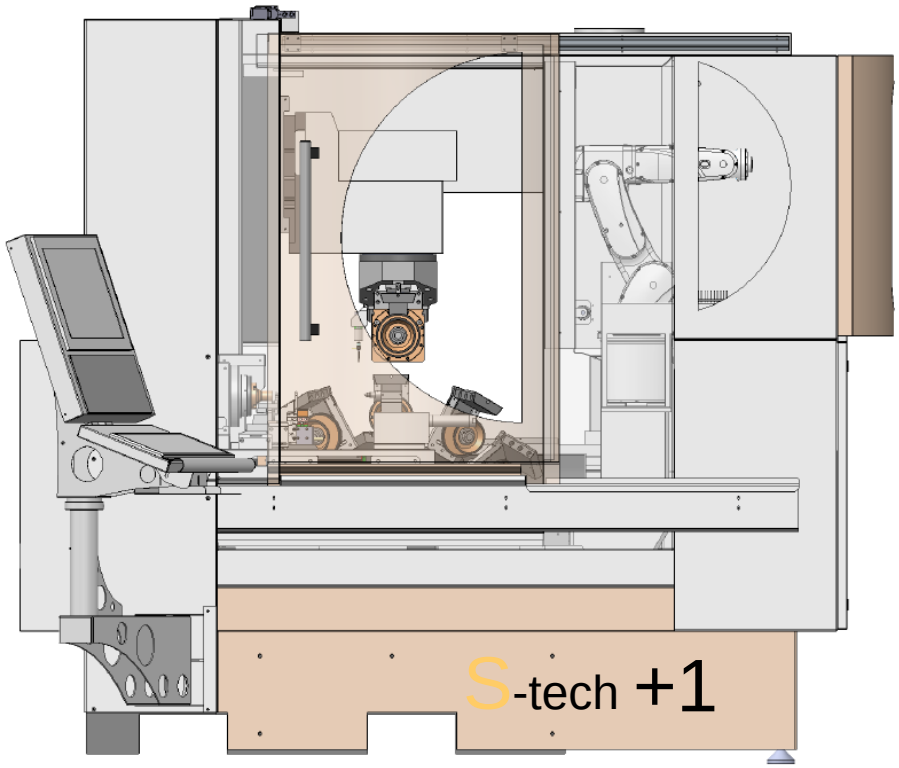
5 Axis Tool Grinding machine
The talent for many different type tools

S-tech +1

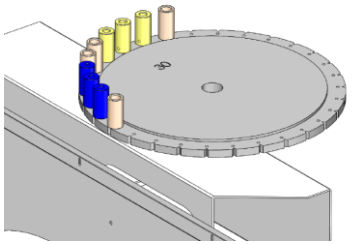


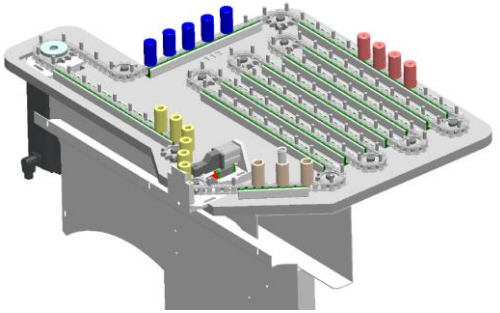
NUM Control Flexium +68

J+ TM / NUMROTO plus grinding software

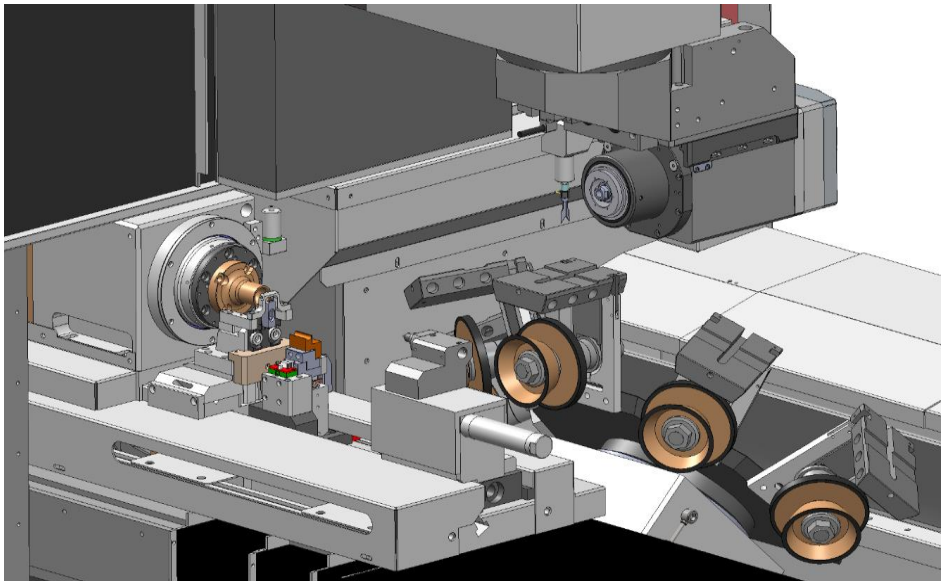
num CNC HighEnd Applications

numroto Total solution for tool grinding





Tool loading:
6 axis Nachi robot
Flexible chain loader
Flexible/ Blank disk loader

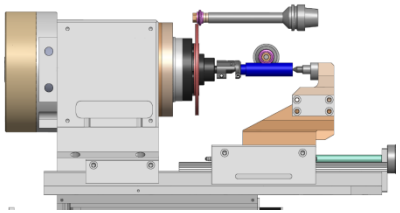


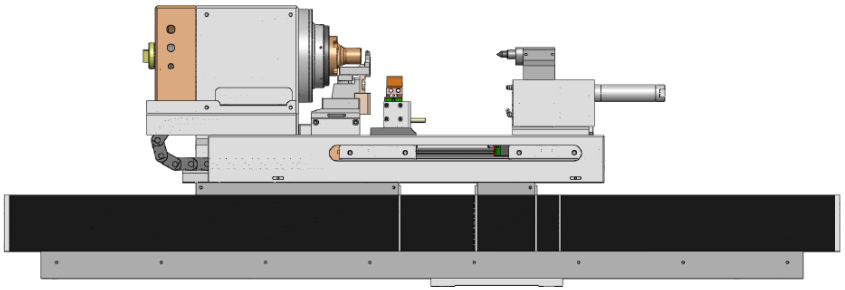
Technology on the highest level
5 Axis Tool grinding machine with linear motors in X,Y and Z
Direct drive in all rotary axis A und B
Hydraulic balance system in the vertical axis ensure the motor current and precision.

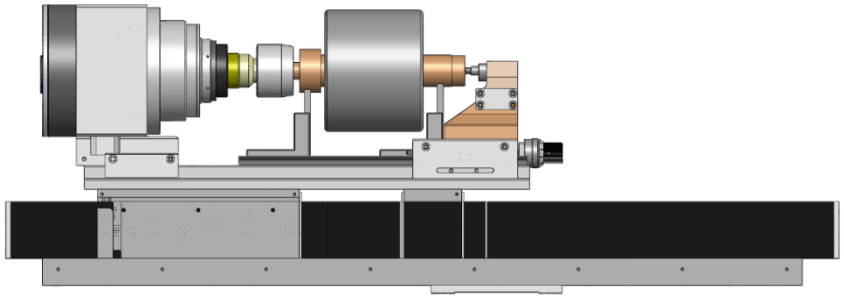
The talent for different type tools:
Milling cutter, Drills, Step drills, Reamer, Form cutter, Inserts, Shaper cutter, Hobs and a lot others.

Technical Information
Different components and option

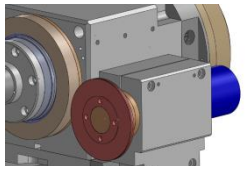
S-tech +1







Dressing spindle



Machine: L2,15 x W1,55 x H2,08m
approx. 4500 - 5800Kg

Machine base and axis components made of nature stone for high precision

Flexible kit:

Grinding spindle	(Single / Double)
Wheel changer	(3 / 5 Position)
Table	(Short / Long)
Support	(Manual / CNC)

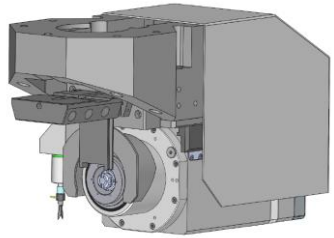
X Linear Motor 500mm (+ Option)
Y Linear Motor 245mm
Z Linear Motor 460mm
(Y Weight balance)

B Direct drive 240Grad
A Direct drive 1500 rpm

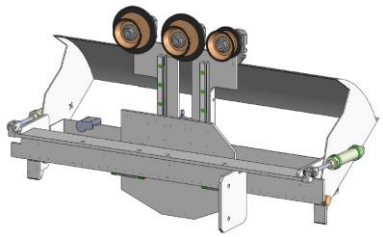
Heidenhain measuring system all axis

Marposs/ Renishaw 3D:
Tool and wheel probe

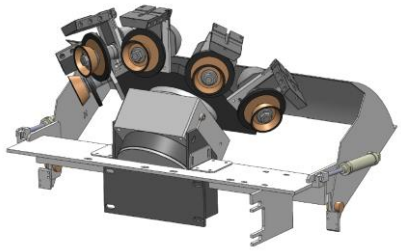
Motor spindle HSK F63/22kW



3 Station wheel changer



5 Station wheel changer

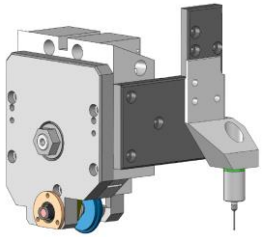


Base plate of nature stone allows us to design your table length you need

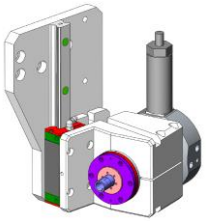
The flexible design can adapt several options

Manual / CNC supports in combination with Arobotec or normal bushes

Hob relief grind adapter



HF grinding spindle



Technical Data:

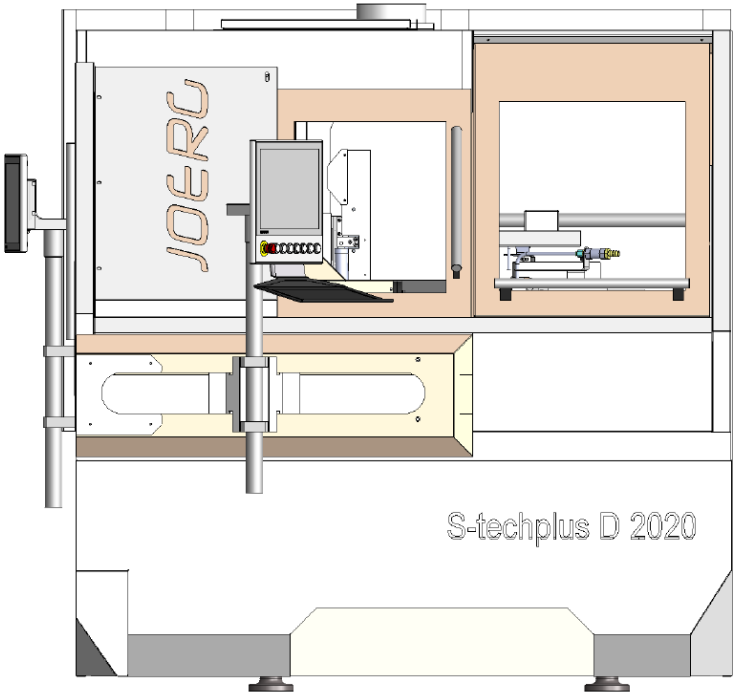
Tool diameter
0.5mm to 20 / 160mm

Tool length:
Standard 330mm (+ Option)

Autom. Clamping
Schaublin W Type; GDS;
NANN
Schunk ISO / HSK 63

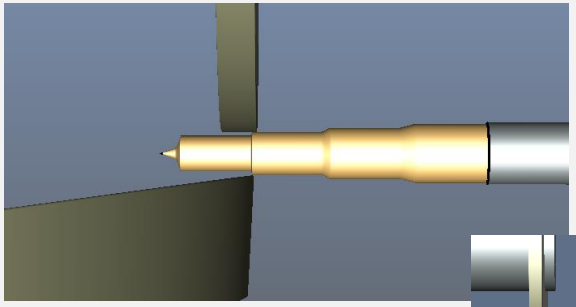
5 Axis cylindrical grinding machine for perfect diameter and sure faces

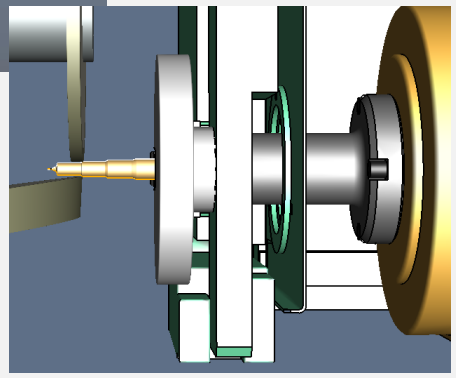
S-tech +D 2020



Beckhoff or Syntec control

J+ TMOD / MTS





3D Tool simulation
Simple data input for your blanks

Precision:

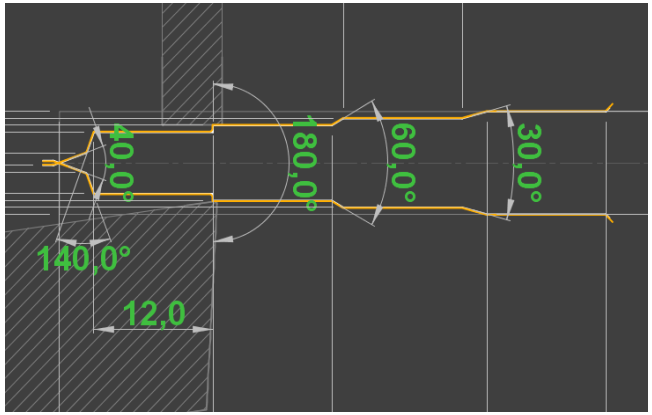
Diameter: 0.0020mm
Runout: 0.0018mm

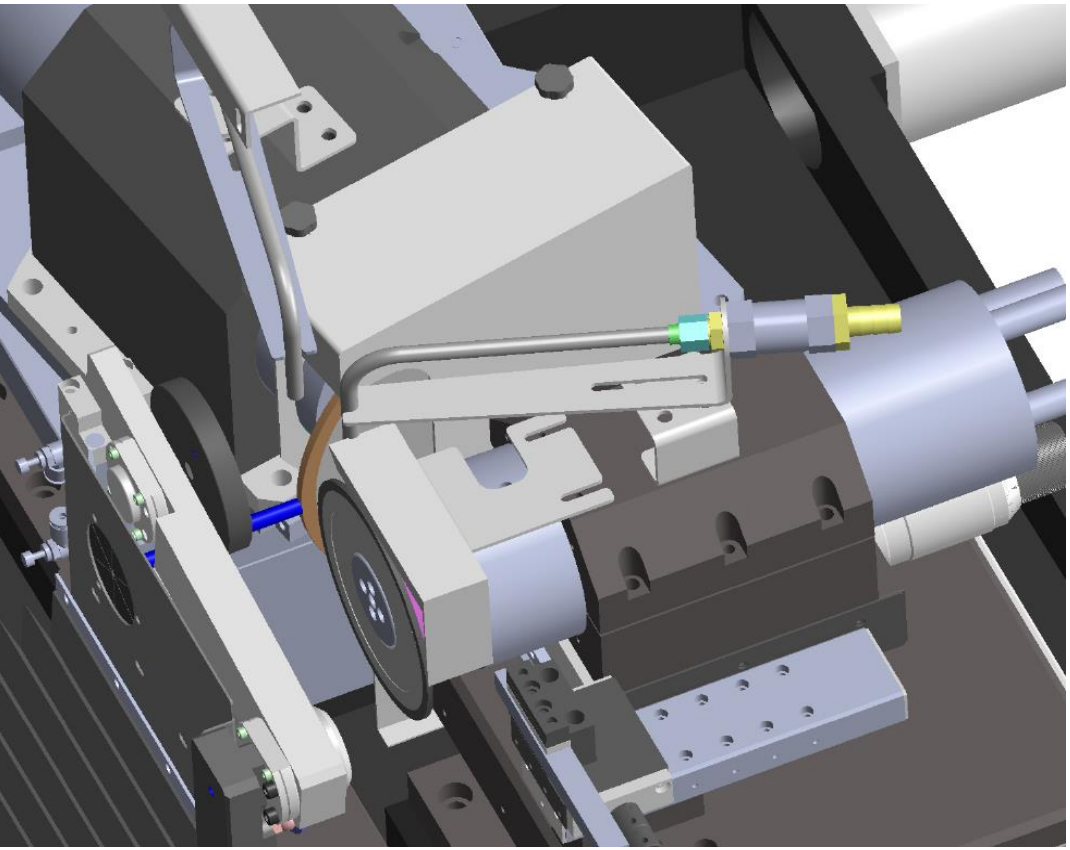
Controller:	Beckhoff (Syntec)
Drives:	Ball screw / Beckhoff -Yaskawa
CNC Axis:	
Y Axis	300mm
X/V Axis	30mm
Z Axis	100mm
Rotation	0-3000 rpm (option direct drive)
Chuck	W20 /25

V Prism with hydraulic pressure roller

Technology on the highest level

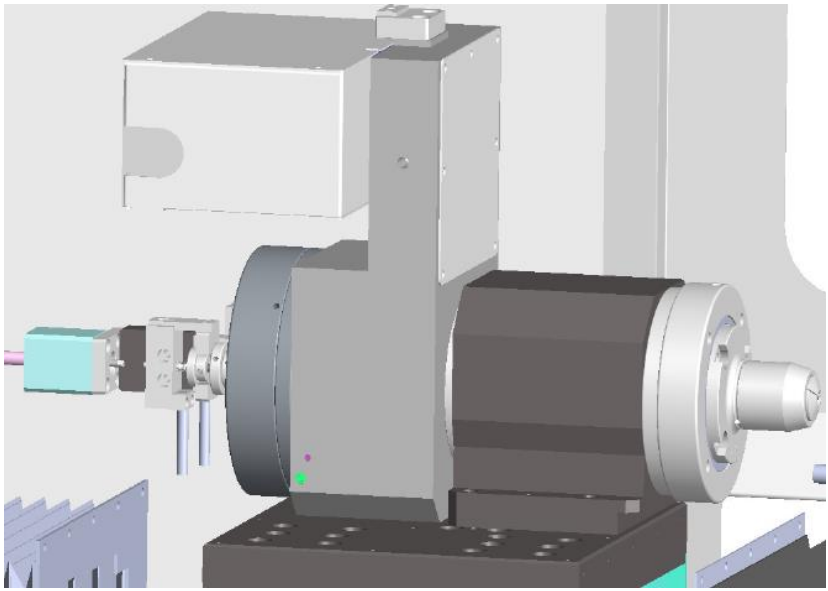
Cylindrical grinder for:
Cylindrical diameter, Step tools,
Punch, Forms, Conical tools,
Ball end face, drill point angle,
Spade and Weldorn





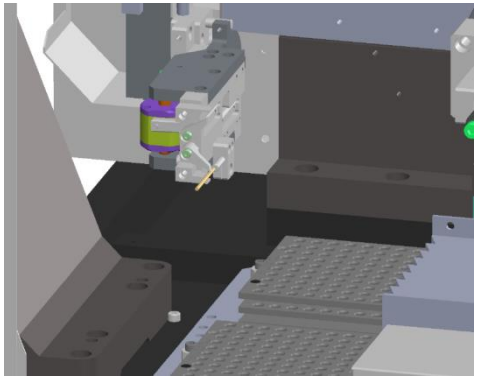
Diameter grinder with rough and finishing
grinding process in same operation

The pneumatic operated pressure roller
keep the tool perfect with high precision in the V Block



Grinding spindles:	
Roughing	10/20kW
Rotation speed	10000 rpm
Finishing	5 kW
Rotation speed	12000 rpm

L1,9 x W2,0 x H1,95m
approx. 3000Kg



Work piece rotation A axis:	
Rotation speed	0- 3000 rpm
Chuck	W20/25
Tool loading:	
3 Axis robot	
Diameter work piece	1-16/25
Max- length work piece	50-250mm
Pallets	2-3

Contact and Company info

JOERG Shanghai Company works together with a local grinding machine manufacturer who has more than 25 years experience in grinding machine building.

We are new on the market but we know how to build perfect high class grinding machines.
With our world wide suppliers we can reach the German TÜV Rheinland CE certificate for best quality and safety standard.

Suppliers:
Num, Schneider, Numroto, Bosch, Hansa, Hiwin, INA / FAG, Heidenhain, Pibomulti, Festo, Mapal, Hema, Euchner, Marposs, Renishaw, Rittal, SMC, usw.

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Deviation in color and shape from the illustrations, errors and misprints excepted

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