

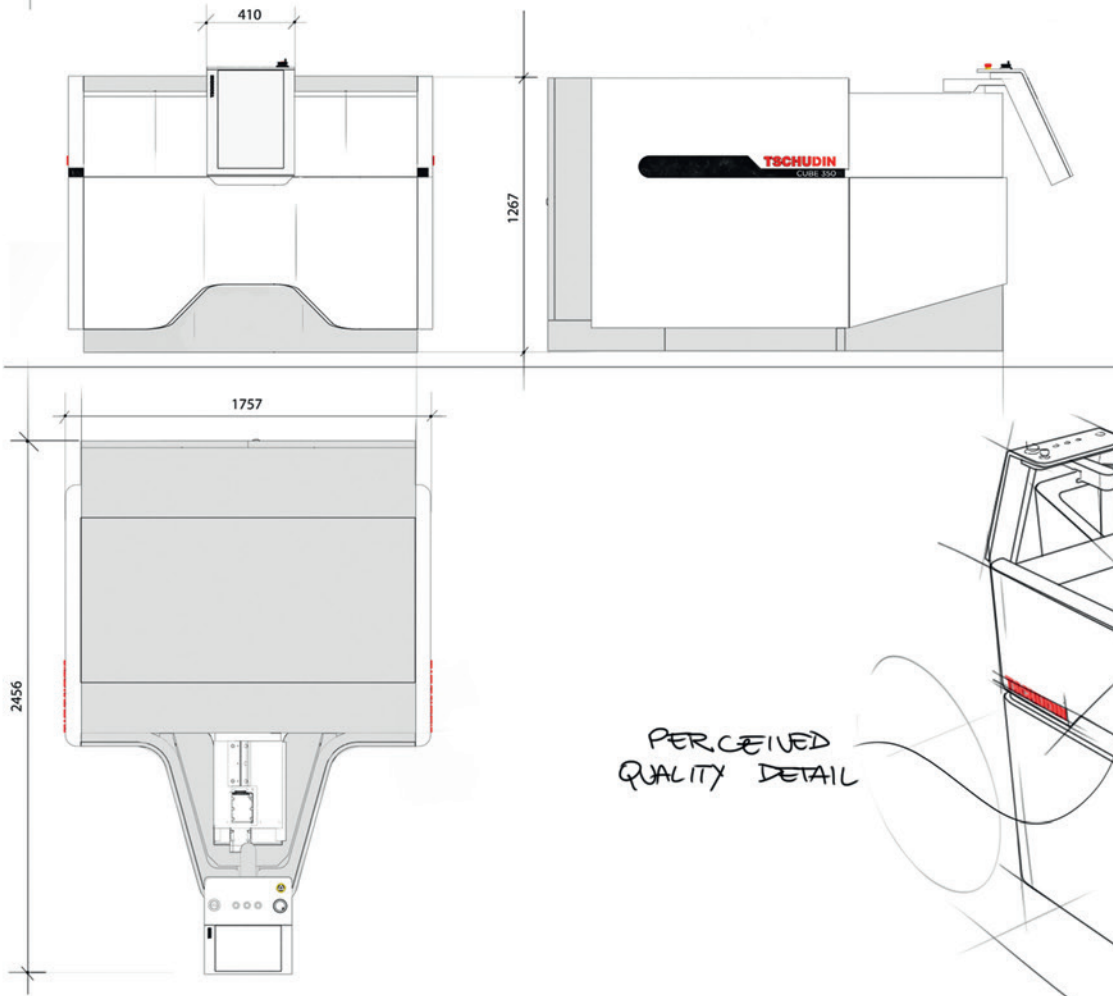
T'SCHUDIN

T'SCHUDIN[®]

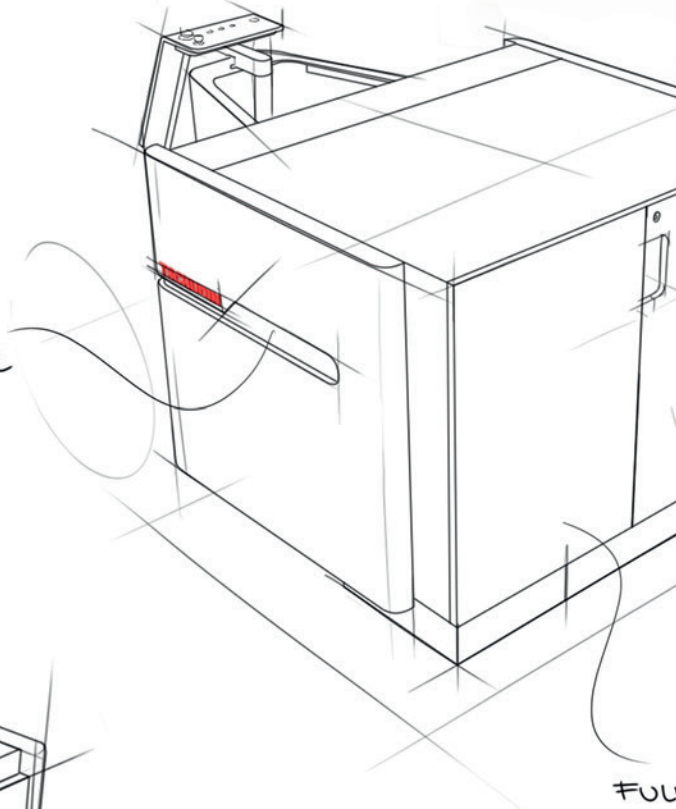
CUBE 350

T'SCHUDIN

FORMULA OF ERGONOMIC INDUSTRIES APPLIED TO CUBE 350



PERCEIVED
QUALITY DETAIL



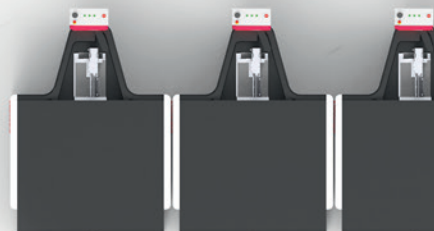
FULL

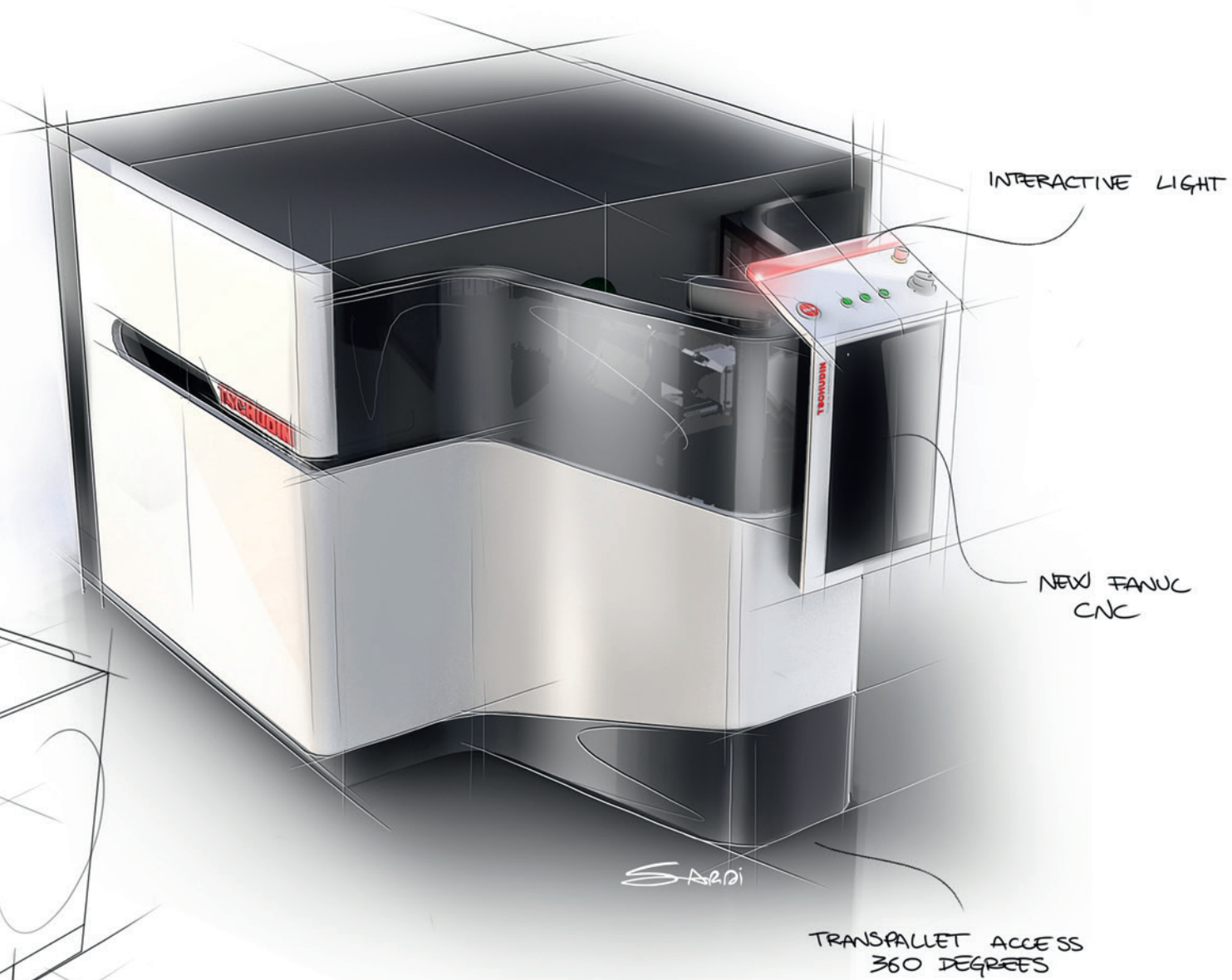
USER CENTERED DESIGN

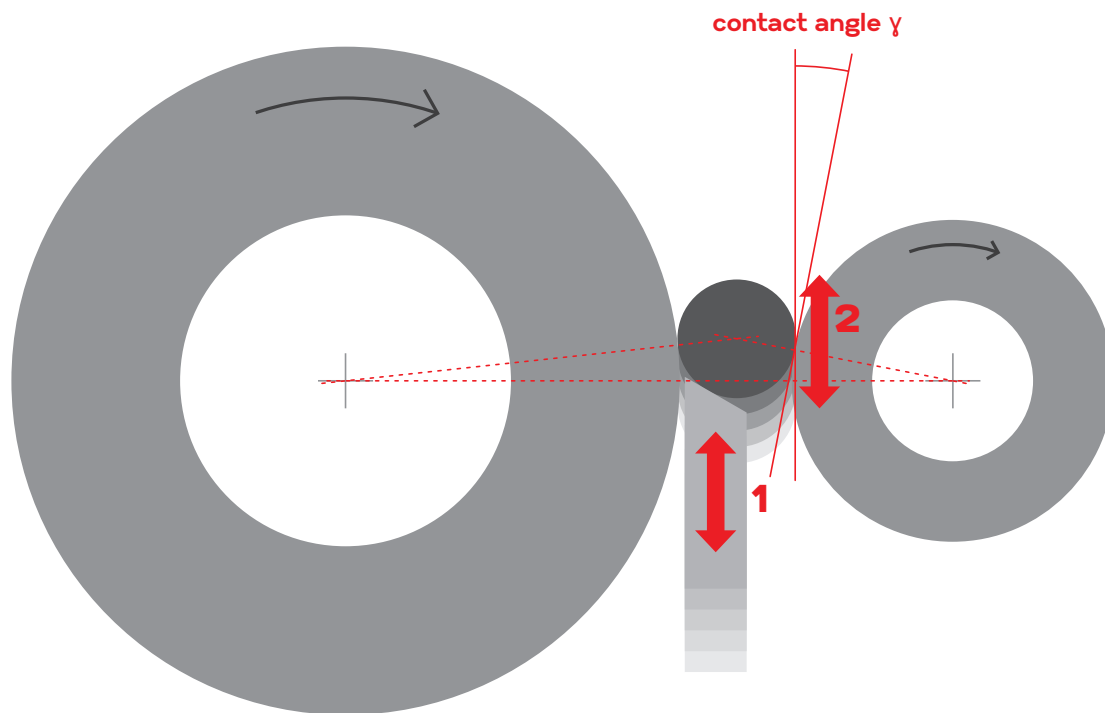
SRI

FOOTPRINT REDUCTION

INTUITIVE APPROACH



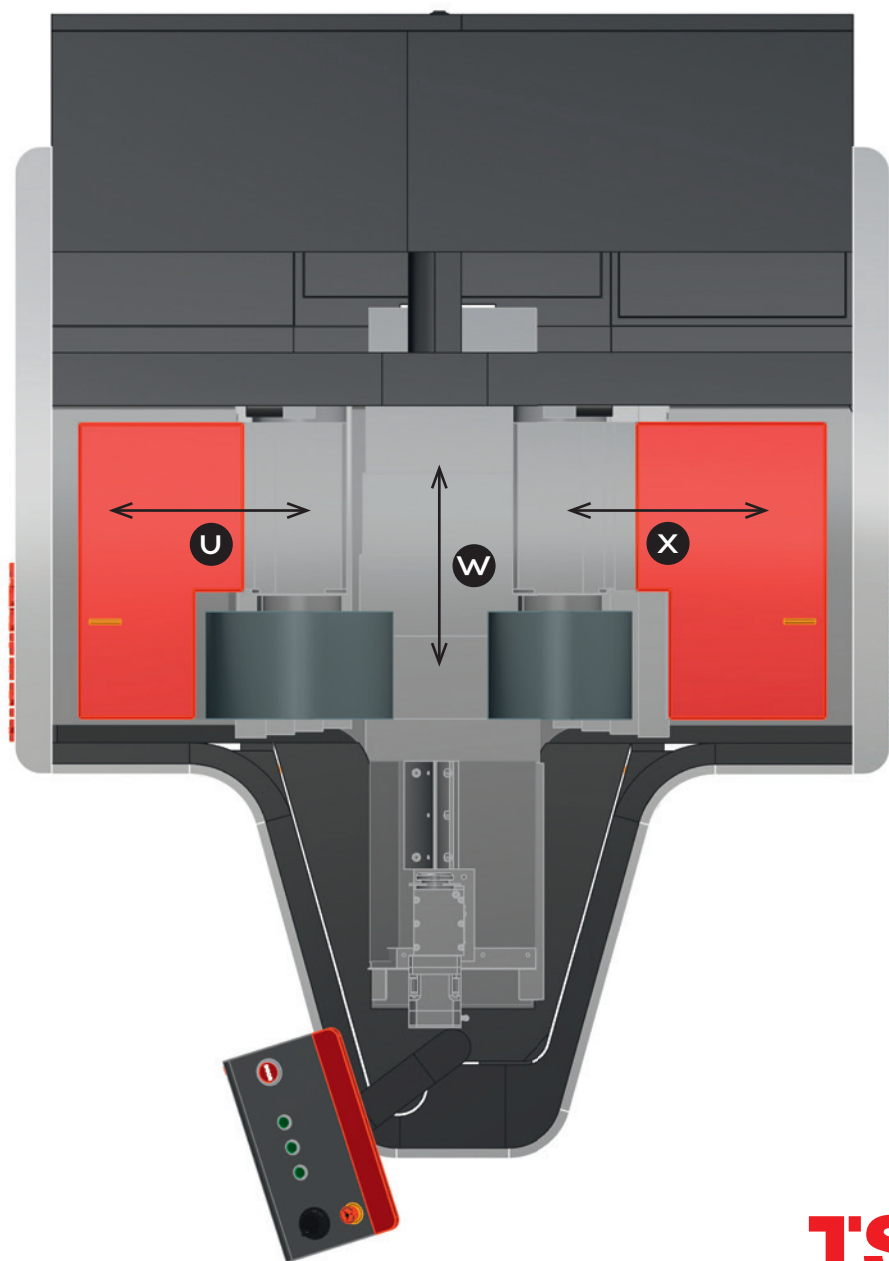




T'SCHUDIN[®] MANUAL ADJUSTMENTS

- 1: workpiece height
- 2: dressing tool height for the regulating wheel

After each dressing cycle the diameter of the grinding and regulating wheels is reduced and therefore the contact angle γ changes. Compensation for this is done manually.



U GRINDING WHEEL

W WORKREST BLADE

X REGULATING WHEEL

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PATENT

- CH 691957
- EP 1330336
- US 7.223.159 B2
- US 9.085.059
- EP 2394783

PLUNGE GRINDING

Manual loading/unloading. Safe in accordance with CE regulations.

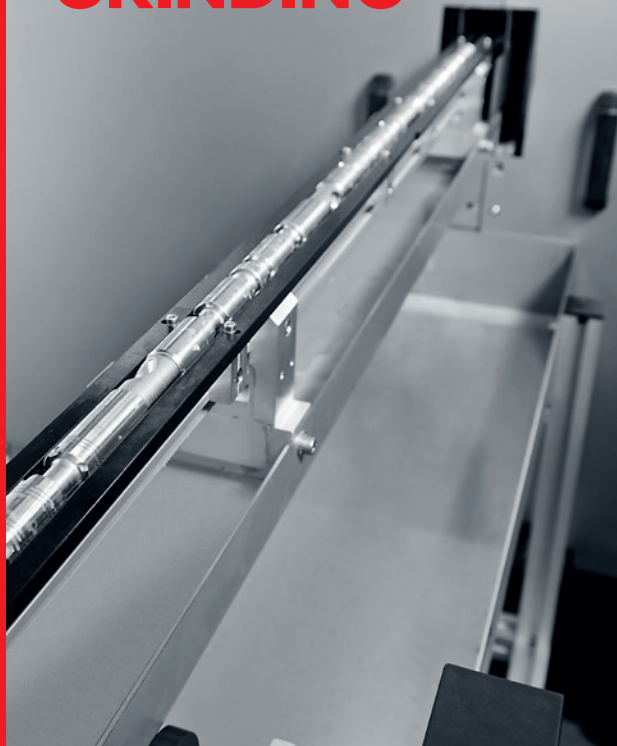
T'SCHUDIN®

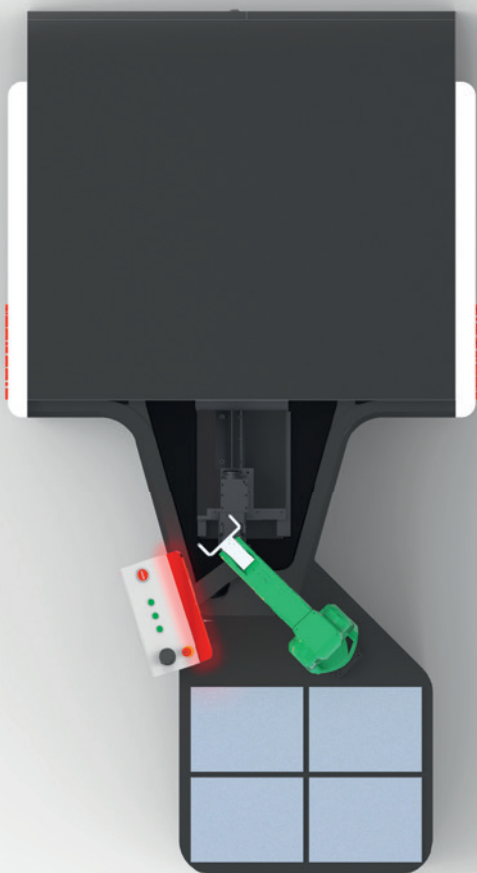
PROCESS CAPABILITY

The machine base and the spindle supports are made from natural granite and master thermal variations thus enabling the highest component tolerances to be met.

The possibility of the CNC controlled, parallel movement of the grinding and regulating wheel significantly simplifies the setting up process.

THROUGH-FEED GRINDING





T'SCHUDIN[®]

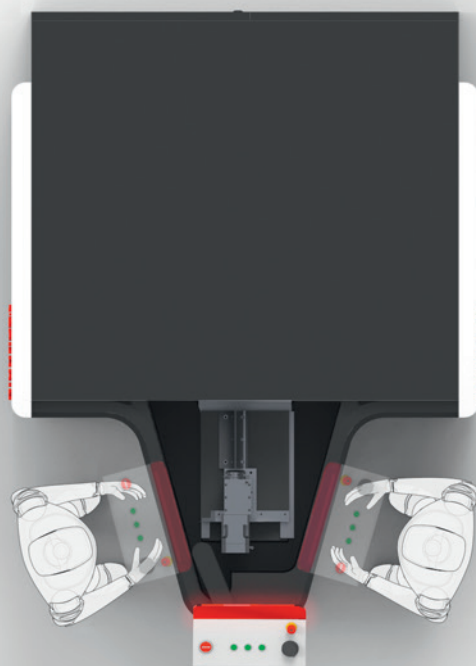
SAFE LOADING / UNLOADING

Loading and unloading of the workpiece outside of the grind zone results in higher reliability. The automation is not within the dirty grinding zone.

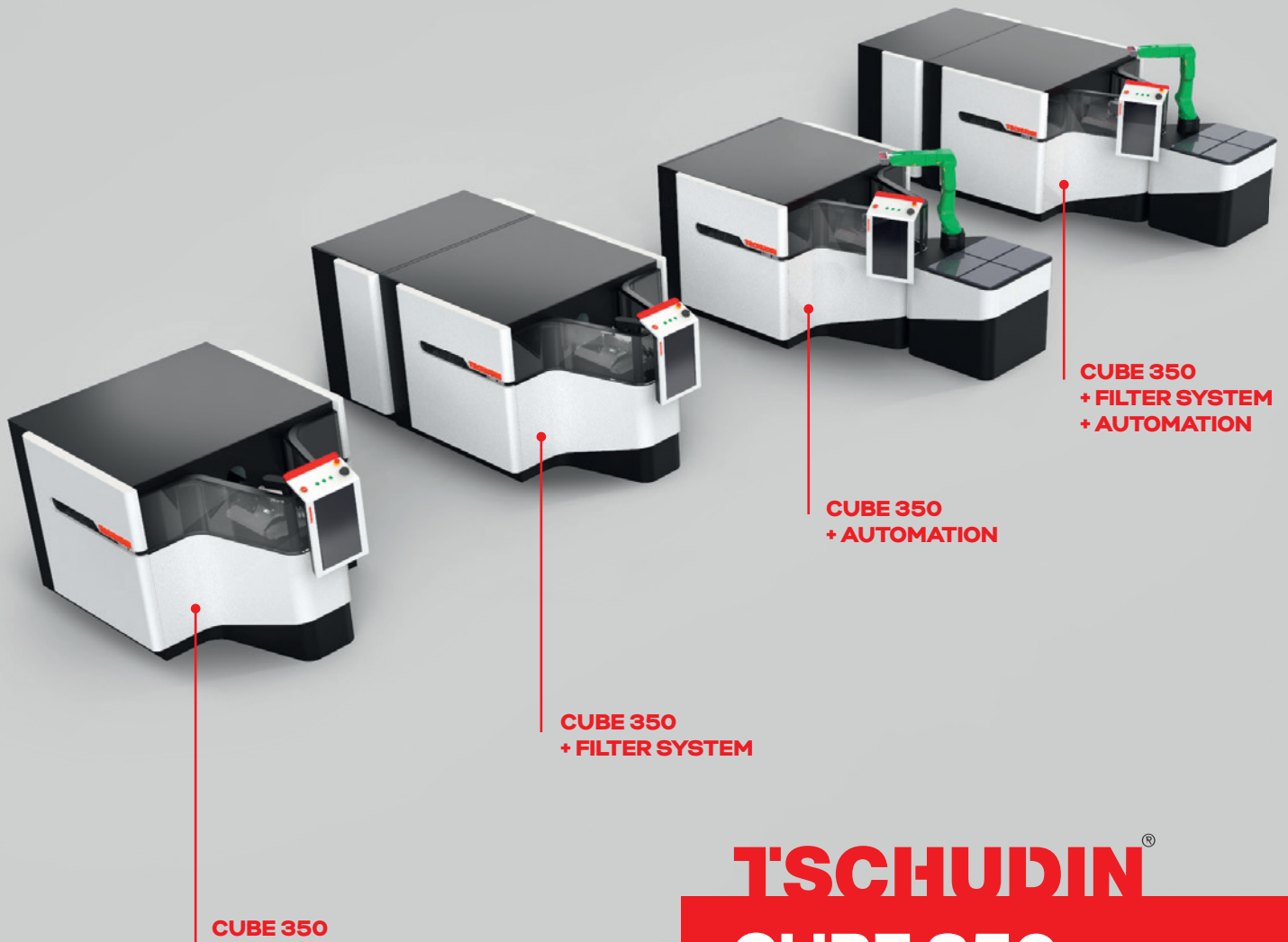
T'SCHUDIN[®]

ERGONOMIE, FUNCTION AND DESIGN

- Ergonomic operations for left- and right-handed users (patent pending)
- Simple and convenient handling (software T'SCHUDIN «easy»)
- Best accessibility and maintenance



T'SCHUDIN

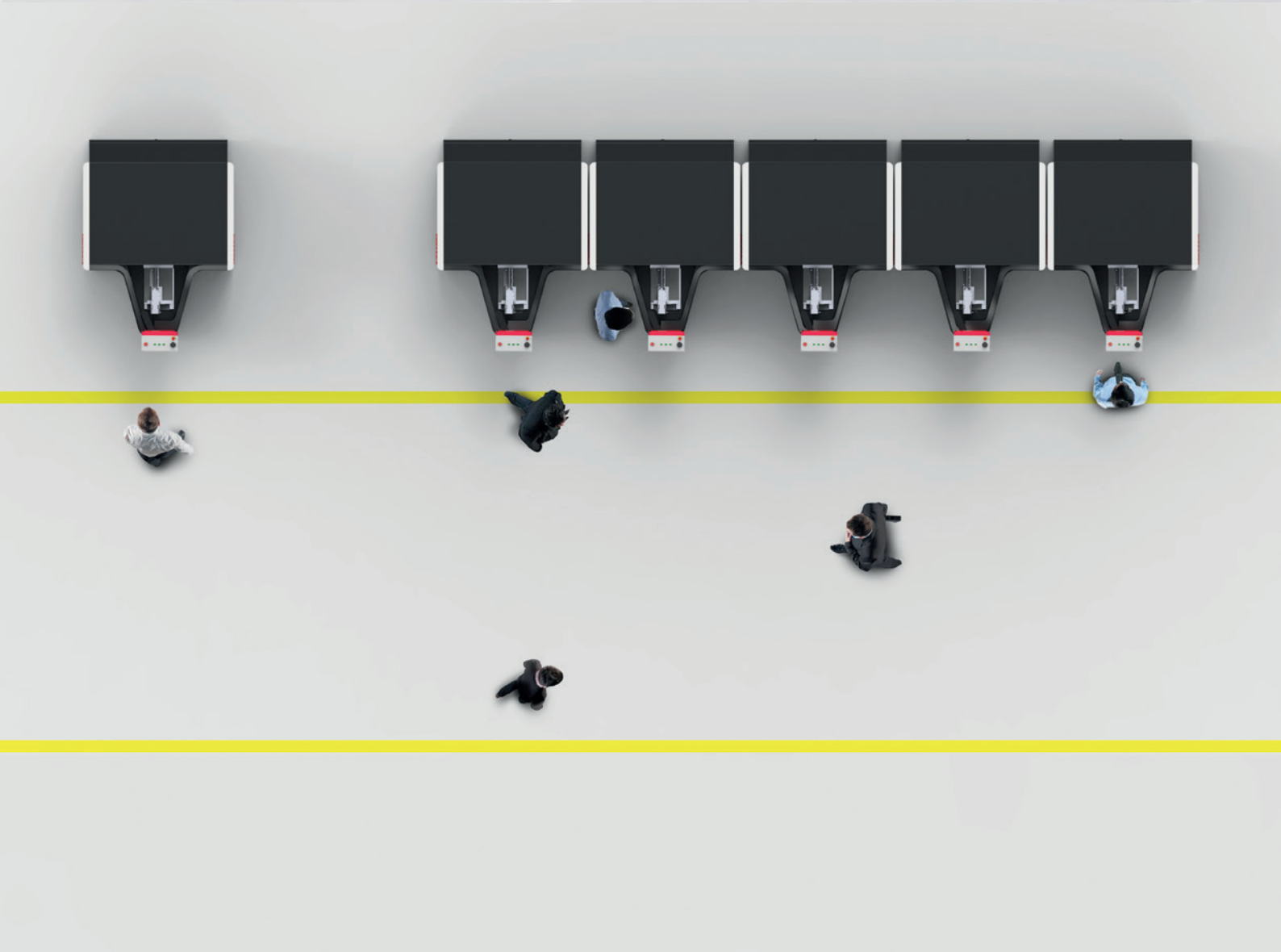


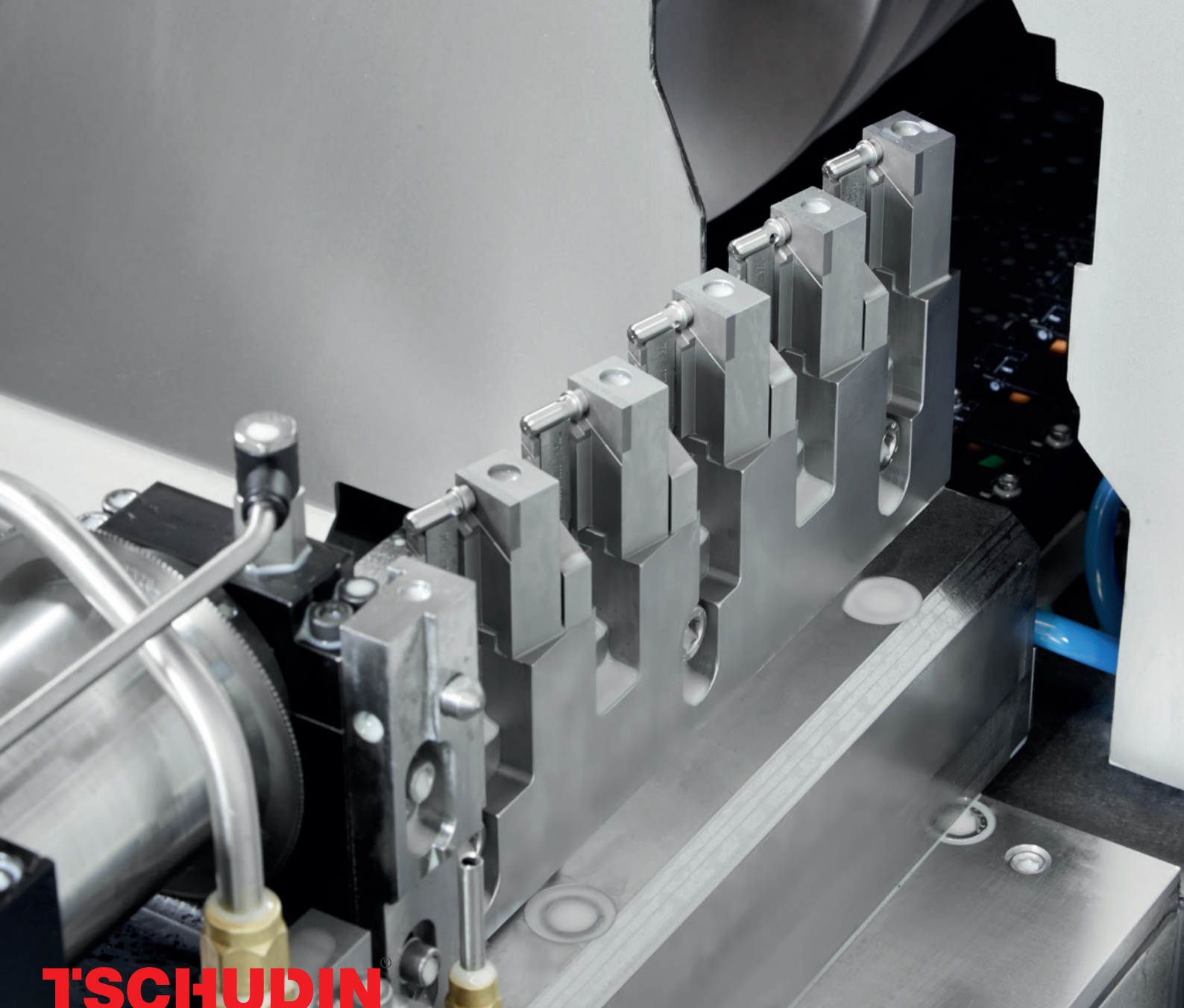
T'SCHUDIN[®] CUBE 350

- The latest generation of centerless grinding machine with an automated digital setup of the machine and the grinding process
- Machine bed and slider made of thermo-stable natural granite
- Linear drives on the X, U and W axes
- Simple, low-maintenance machine construction
- Retrofittable automation solutions and optimized peripherals
- Integrated pumping station for coolant with dry running function



T'SCHUDIN





T'SCHUDIN[®]

NEW PROCESSES

The patented movable workrest axis (W-Axis) allows additional process possibilities.

- Roughing and finishing in a double cycle
- Grinding of sharp edges
- Controlled dressing of taper and radius



APPLICATIONS

Automotive



Electric Motor



Hydraulic



Bearings



Medical



Various



T'SCHUDIN[®] APPLICATIONS

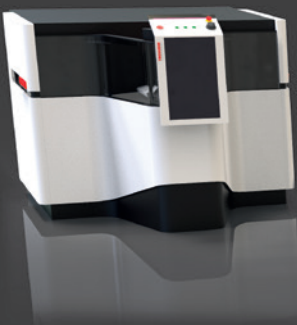
The T'SCHUDIN Cube 350 is used for various applications for example:

- Sub-contract work / small batch sizes
- In automotive for mass production

Various materials can be ground from steel to aluminium, glass, titanium, carbon, ceramic, germanium, silicon, etc

www.tschudin.swiss

TSCHUDIN CUBE 350



TSCHUDIN 400 ecoLine / proLine



TSCHUDIN 600 ecoLine / proLine



TECHNICAL SPECIFICATIONS

PROCESS	TSCHUDIN CUBE 350
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Through feed grinding Grinding area Ø	0.1-20 mm
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Plunge grinding Grinding area Ø	0.1-20 mm
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Grinding wheel width / Grinding length Plunge grinding	150 mm (optional 205)
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Grinding wheels Ø Bore diameter	350 mm 203.2 mm
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Regulating wheels Ø Bore diameter	275 mm 175 mm
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Drive power grinding spindle	7.5 / 12 kW
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Peripheral speed grinding wheel (V-constant)	max. 63 m/s
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Speed regulating wheel (infinitely variable)	5-1000/min
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CNC control	Fanuc Oi
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Resolution	0.1 µ
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Dimensions L x T x H	2558 x 1735 x 1320 mm
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Weight	4 t
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Technical data are subject to changes and amendments in the context of ongoing improvements and/or errors.