



# Surface and Profile Grinding



openLine

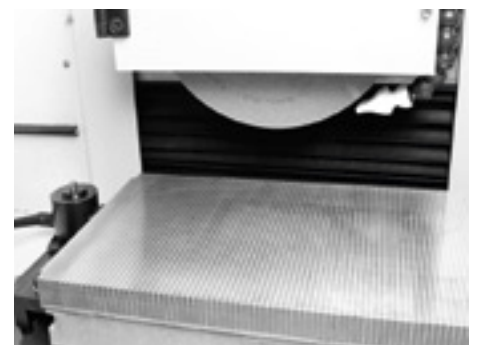
## Experience the openLine

The concept of the openLine follows the ELB-principle of absolute separation of the three machine axes. This principle has been proven a thousand times over and makes this machine perfectly suitable for prototype and small volume production. Highest geometrical precision and an attractive price makes this machine line so appealing. This machine is completely manufactured in Germany and meets the highest quality standards. Quick and uncomplicated manual grinding (adjusting and fitting) is as easy as finish grinding in automatic mode. The complete features of the basic machine as well as the ELB-technology proven over the past 50+ years make the purchase of an openLine machine a very economical investment.



The basic openLine machine is fully equipped with everything required to grind. A coolant filtration unit with a capacity of 80 l/min, flushing system with table rinse hose to clear the work area, a wheel flange, a grinding wheel, an electro-magnetic chuck for work piece clamping and all required media are included.

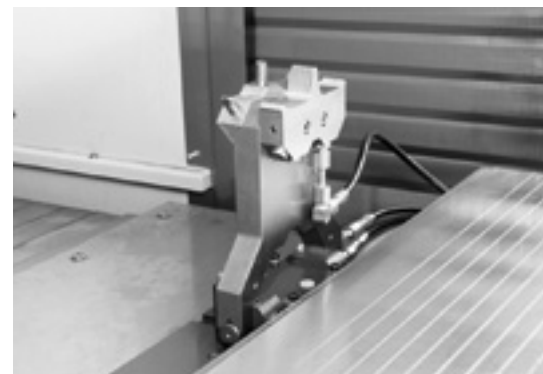
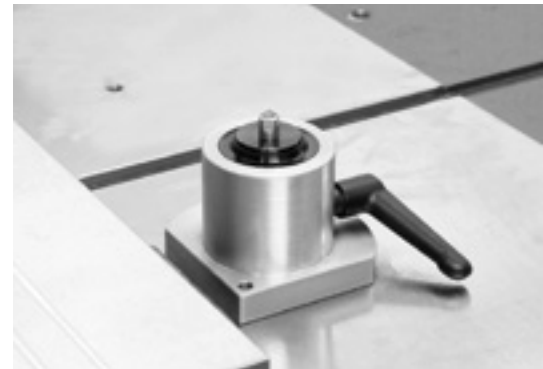
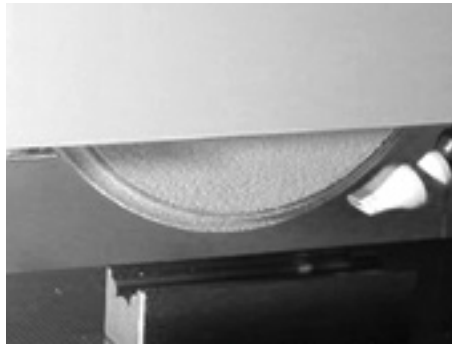
Optionally, this model can be equipped for simple profile grinding tasks.





## Benefit Overview

- Good cost-performance ratio
- Long-term precision
- Comfortable controls
- Easy to operate
- Proven components



## Design Characteristics

### Machine Enclosure

- Open on right side to provide unobstructed view of the work piece
- High-precision machining of the components

### Machine Base and Column made from Microgranit

- Much higher rigidity
- Optimal dampening characteristics
- High thermal stability of machine base
- Environmentally friendly through cold molding process
- Highest precision in the machine construction through alignment of axes before fusing

## Machine Concept

### Two available Table Drive Systems

- Hydraulic Cylinder
- Belt Drive

### Can be combined with

- V/flat guides
- Linear guideways

### Two Controls Options

- xpressCube (SPS-controls for surface grinding)
- xpressCube Pro (entry-level profile grinding)

### Additional Features

- Folding dressing unit
- Head mounted linear dressing unit
- Dual bearing swivel diamond roll dresser

openLine	6	E 6	10	E 10
Table Drive	HYD/ZRT	HYD/ZRT	HYD/ZRT	HYD/ZRT
Grinding Width (mm)	400	600	400	600
Grinding Length (mm)	600	600	1,000	1,000
Distance Spindle Center to Table (mm)	650	650	700	700
Table Velocity (m/min)	35 (45)*	35 (45)*	35 (45)*	35 (45)*
Spindle Power (kW)	5.5 (9)	10 (15)	5.5 (9)	10 (15)
Spindle Cone (mm)	36	60	36	60
Grinding Wheel (mm)	300 x 50 x 76.2	400 x 100 x 127	300 x 50 x 76.2	400 x 100 x 127

### Dimensions / Weight

Length A (mm)	3,300	3,300	4,100	4,100
Width B (mm)	2,105	2,890	2,105	2,890
Height C (mm)	2,260	2,660	2,300	2,660
Weight (kg)	4,700	6,500	5,400	8,000

All values are approximated and may change depending on selected options.  
All information is subject to change.

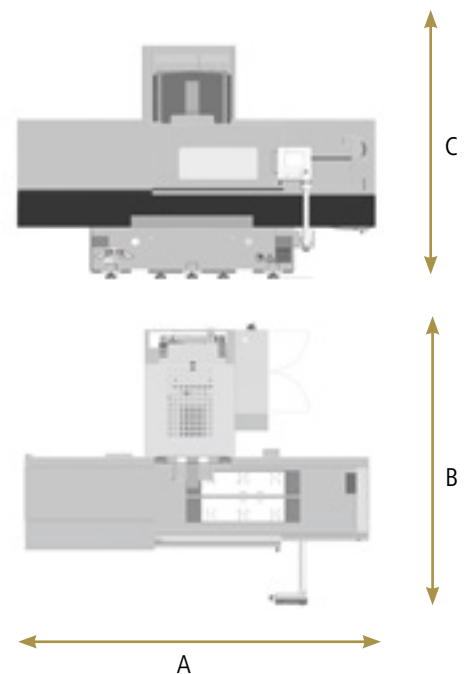
HYD – Hydraulic  
ZRT – Belt Drive  
\*optional with ZRT

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**Grinding Applications  
for a Global Market**