



Surface, Profile and Creep-Feed Grinding



smartLine Kombi

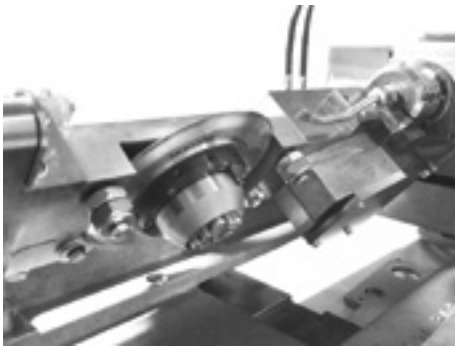
Experience the smartLine Kombi

The smartLine covers the entire spectrum of travelling table grinding machines. From simple reciprocation surface grinding through speed-stroke, slot and profile grinding all the way to creep-feed grinding. This machine concept solves every grinding task. The machine's versatile building block system is designed to allow almost any combination of components to solve your specific grinding task.

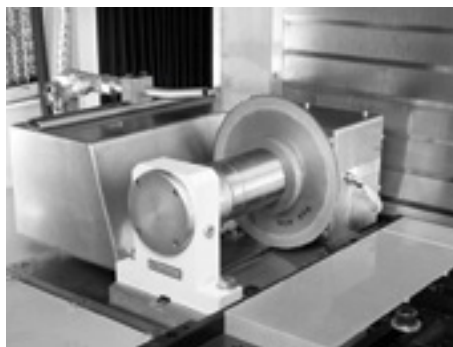


The Kombi-version of the smartLine allows individual configurations all the way up to a complex creep-feed grinding machine. Grinding width, grinding height, type of drive and spindle power as well as all variations of dressing units from simple table-mounted dressing diamond to CD-grinding with a head-mounted roll dressing unit can be selected to meet specific requirements. The same standard dimensions for grinding lengths are available as for the pre-configured machines. It is possible to combine the grinding width of the N-line with the upgraded column of the BD-line. This includes the respective features as well.





CNC swivel dresser with disc



Profile dressing unit

Benefit Overview

- Good cost-performance ratio
- High-powered spindle
- Roll dressing units on spindle head
- Flexible process guidance
- Multi-axes machining

Design Characteristics

Separate Front and Rear Base with fused Joint

- High-precision machining of components
- Highest precision in the machine through exact alignment of the axes before fusing of the base components

Machine Base and Column made from Microgranit

- Much higher rigidity
- Optimal dampening characteristics
- High thermal stability of machine base
- Environmentally friendly through cold casting process

Multi-axes machining

- Up to 10 CNC-axes

Machine Concept

Selection of four Table Drive Systems

- Hydraulic cylinder
- Belt drive
- Ball screw
- Hydrostatic leadscrew

Can be combined with

- V/flat guides
- Linear guideways

Three Controls Packages

- xpressCube (SPS-control for surface grinding)
- xpressCube Pro (entry-level profile grinding)
- Sinumerik 840D



Head-mounted roll dressing unit

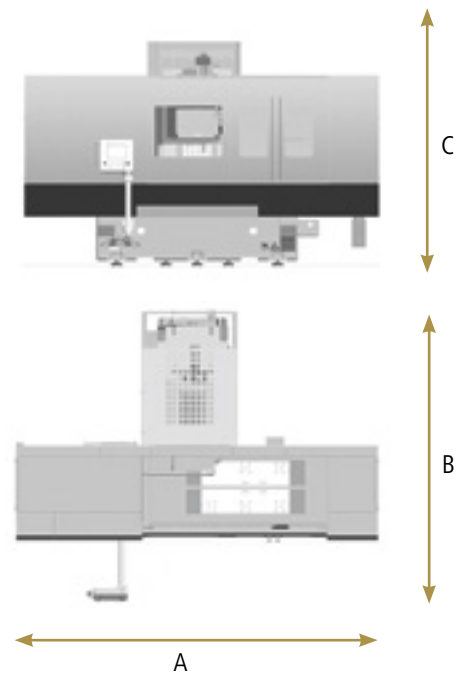
smartLine Kombi	Kombi N	Kombi BD	Kombi BL
Grinding Width (mm)	400	600	750
Grinding Length (mm)	600/1,000/1,500	600/1,000/1,500/2,000*	1,000/1,500/2,000*
Distance Spindle Center to Table (mm)	970/900/1,150	700/900/1,150/1,400	700/900/1,150/1,400
Spindle Power (kW)	10 - 52	10 - 52	10 - 52
Spindle Cone (mm)	60/75*/90*	60/75*/90*	60/75*/90*
Grinding Wheel (mm)	400 x 100 x 127 500 x 100 x 203.2	400 x 100 x 127 500 x 100 x 203.2	400 x 100 x 127 500 x 100 x 203.2

Dimensions / Weight

Length A (mm)	3,300/4,100/5,200	3,300/4,100/5,200/6,100	4,100/5,200/6,100
Width B (mm)	2,105	2,685	2,960
Height C (mm)	2,650	2,650	2,650
Weight (kg)	4,700/5,400/6,200	6,500/8,000/9,200/11,500	8,500/10,000/12,500

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

*Grinding Wheel 500 x 100 x 203.2



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**Grinding Applications
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