

With new PLC Control



*Completely manufactured
in Germany*

ELB SMART-LINE

HIGH PRECISION – SURFACE GRINDING MACHINE
in classic design for tool and die as well as common
machine manufacturing



Our new “ELB SMART-LINE” is a reasonable priced grinding machine with the proven ELB principal of separating the 3 axes from each other. It is suited for single as well as small lot sizes. This model convinces with a very low cost and the most precise geometry. The machine is completely manufactured in Germany at the highest quality standards. The standard machine is already equipped with work shop accessories

and is ready to run. Even the initial oil filling and the coolant concentrate is included in the delivery content. This machine enables fast uncomplicated grinding, “manually” (fit in/ and adapting) as well as “automatic” grinding to finish size. The standard equipment and the ELB technology, that has proven itself in the daily work process for the past 50 years, makes this machine a very economic investment.

Machine Equipment

- Machine base made of "MICROGRANIT"
- Intelligent, easy to understand user friendly machine control with LCD display
- Fault diagnostics shown directly in display
- Movement of the Y- and Z-axes with variable controlled AC servo drives and precise ball screws
- Measuring of the Y- and Z-axes with incremental encoders
- Electronic hand wheel for Y- and Z-axes (resolution either 0,01 or 0,001 mm)
- Automatic central lubrication with lubrication control via pressure switch
- Electro magnetic chuck with variable holding power and de-magnetising device
- Table mounted dressing unit with single point diamond
- Wet grinding unit with coolant pump
- Universal paper belt filtration unit for coolant cleaning
- Machine lamp
- Grinding wheel flange
- Grinding wheel
- Machine levelling blocks
- Oil filling, coolant concentrate

TECHNICAL DATA

ELB SMART-LINE		6		10		BD10	
Grinding length	mm/inch	600	23.6	1000	39.4	1000	39.4
Grinding width	mm/inch	400	15.7	400	15.7	600	23.6
Grinding height	mm/inch	475	18.7	475	18.7	400	15.7
Table load on magnetic chuck	kg/lbs	400	880	700	1540	1000	2200
Table speed	m/min inch/min	2 - 35	79 - 1383	2 - 35	79 - 1383	2-32	79 - 1264
Vertical stroke	mm/inch	475	18.7	475	18.7	425	16.7
Transversal stroke	mm/inch	370	14.5	370	14.5	560	22
Spindle nose diameter	mm/inch	36	1.42	36	1.42	60	2.36
Grinding spindle motor power	kW/HP	4,3	5.8	4,3	5.8	10	13.6
Grinding wheel dimension	mm/inch	300 x 50 x 76,2	12 x 2 x 3	300 x 50 x 76,2	12 x 2 x 3	400 x 100 x 127	16 x 4 x 5
Machine dimensions							
Length	mm/inch	2750	109	3550	132	3550	140
Width	mm/inch	1900	75	1900	75	2320	92
Height	mm/inch	2700	107	2710	107	2710	107
Machine weight (approx.)	kg/lbs	3800	8360	4800	10560	6300	13860

Additional Optional Accessories

- Electrical straight line dresser (spindle head mounted) with dressing amount compensation
- Variable controllable grinding wheel speed (constant cutting speed)
- Y- and Z-axes measurement with linear glass scales
- Machine cover: work area half high covered or completely enclosed
- Coolant mist collector
- Electronic balancing unit, portable type

