



Deburring / Precision Grinding / Edge Rounding / Polishing / Surface Optimization

Deburring Systems

Precision Machining in Perfection

BD 300-L

Latest Technology as Standard –
for outstanding Performance and Versatility



BD 300-L

Typical applications:



Fine blanked and stamped parts



Precision parts



Burr-Ex® Finishing Unit

Grinding and Deburring System BD 300-L	
Max. workpiece width [mm] (incl. workpiece flip over device)	290 130
Max. workpiece height [mm]	180
Burr-Ex® brush deburring modules [pcs.]	up to 2
• drives [kW]	• 5.5
• brush-speed RPM [min ⁻¹]	• up to 2600
• brush deburring units per module [pcs.]	• 5
• Ø of brushes [mm]	• 150
Controls	SAIA Burgess
Dimensions (H x W x D) [mm]	2400 x 3250 x 1050
Weight [kg]	3100

(Technical data is subject to modification)



View into the working area

PETER WOLTERS: High Precision System Solutions

Ideas – Drive – Flexibility – Commitment. That’s exactly what makes the PETER WOLTERS Group a world leader in the field of manufacturing Single- and Double-Wheel Fine Grinding, Lapping, Polishing, Flat Honing and Deburring Machines for flat workpieces.

PETER WOLTERS meets market requirements with a wide range of new, innovative products, offering its customers trend-setting solutions, since 1804. Products for Today and Tomorrow.

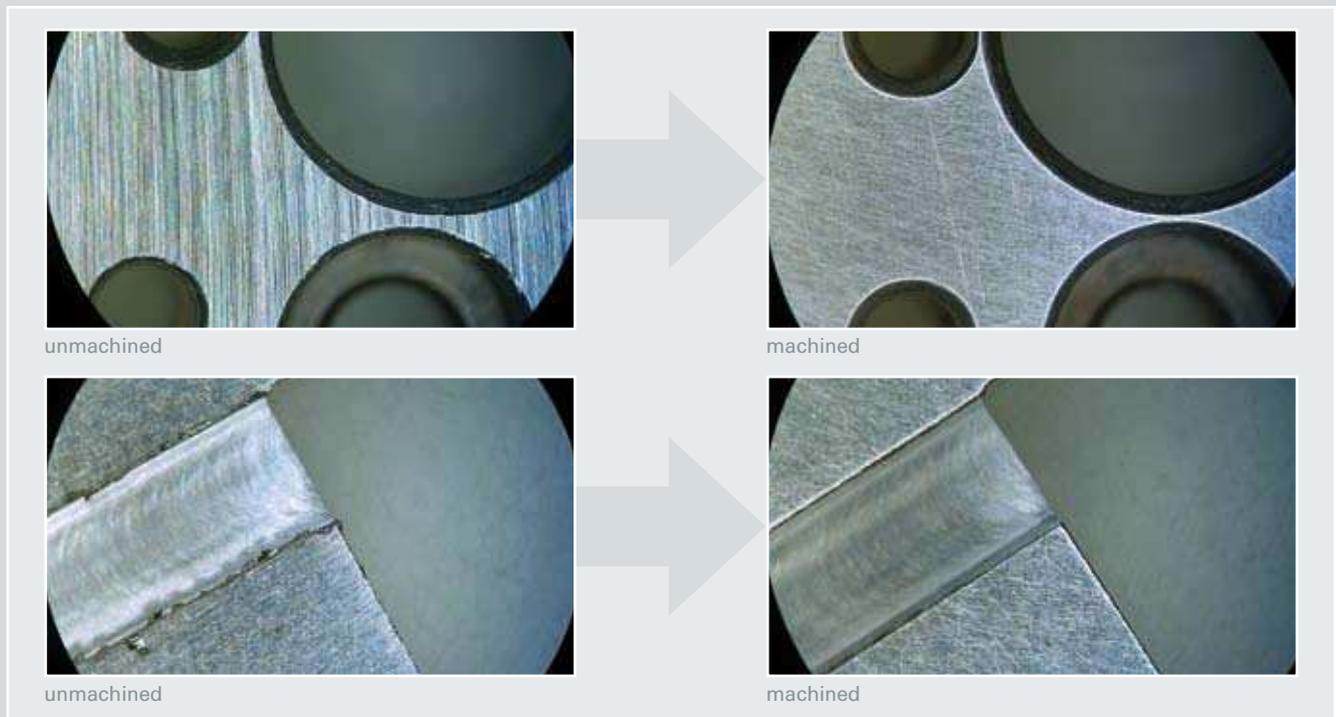
Linear-Finishing-Deburring-System BD 300-L

PETER WOLTERS has impressively demonstrated, with the newly developed Linear-Finishing Deburring system BD 300-L, that it is possible to enter the world of highly

accurate and economic deburring of flat workpieces with reasonable investment costs.

The BD 300-L offers an excellent performance never before reached in this price-performance class. Examples of this are the two machining stations, each equipped with five BOTECH brush tools. An ideal transformation ratio between brushes and head ensures constant and optimal deburring results.

In the area of flexible single-part production and production of small to medium series, the BD 300-L is optimally suited for cost-effective machining of, for example, punched and precision cut parts, valve plates and precision workpieces.



Detail view of workpiece surface quality compared before and after machining with the BD 300-L

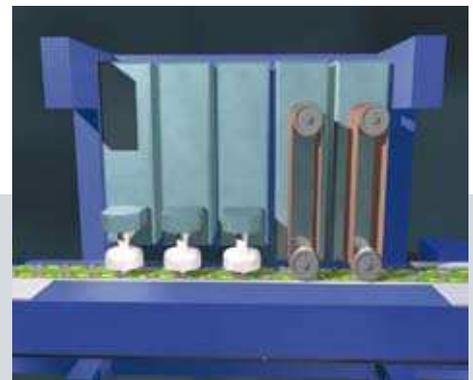
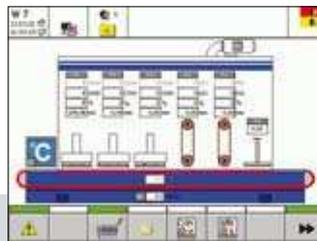
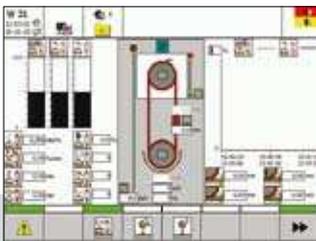
Machine Features	Customer Benefits
Modern and stable welded structure of base and working stations	High stiffness and process precision, long machine life, excellent vibration damping
Steel elements in wet room are coated, further components in non-corrosive materials	High up-time, low operating cost
Special machine bed design that enables fast exchange of main transport conveyor-belt	Efficient, ergonomical machine design
Modern, ergonomic construction	Very good accessibility, very easy to service, safe and simple operation
Easy to access, low maintenance design	Low operating costs
Market-leading PETER WOLTERS process- and technology-know-how	Individual process development ensures highest productivity

FE 700-L

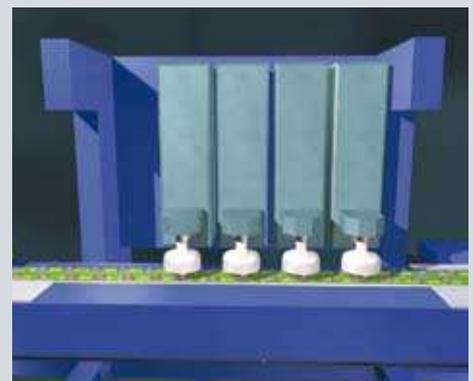
Fast – highly precise – easy to use:
High Precision Surface Finishing in Perfection



FE 700-L



Application for fine blanked and stamped parts (belt grinding and **Burr-Ex**[®]-brush deburring modules)



Application for precision deburring with defined edge rounding (**Burr-Ex**[®]-brush deburring modules)

Grinding and Deburring System FE 700-L

Max. workpiece width [mm] (incl. workpiece flip over device)	280 140
Max. workpiece height [mm]	150
Belt grinding modules [pcs.]	up to 5
• drives [kW]	• 7.1
• grinding belt speed [m/s]	• up to 28
• grinding belt dimensions (L x W) [mm]	• 2500 x 300
Burr-Ex [®] brush deburring modules [pcs.]	up to 5
• drives [kW]	• 3
• brush-speed RPM [min ⁻¹]	• up to 2000
• brush deburring units per module [pcs.]	• 4
• Ø of brushes [mm]	• 150
Controls	Siemens SPS S7-300
Dimensions (H x W x D) [mm]	2500 x 4100 x 1450
Weight [kg]	5500

(Technical data is subject to modification)

The PETER WOLTERS FE 700-L is a linear grinding and deburring system with trend-setting innovations for most flexible applications. With this standard-setting model PETER WOLTERS is again demonstrating its leadership in precision surface machining.

The FE 700-L is the perfect system for fully automatic mechanical machining of fine blanked and stamped workpieces, metal fittings, cutting tools, gear box components, sintered parts, valve plates and other precision

workpieces. Surface machining of up to now unknown quality and precision is now available. The Grinding and Deburring System FE 700-L can be used as fully automated version or stand-alone-solution. Furthermore it is possible to link the FE 700-L with a finegrinding system of the AC *microLine*® range. This will set you up for new markets and profits.

Low cost of ownership is also supported by extended service-intervals and reduced maintenance requirements.

Machine Features	Customer Benefits
Hardware	
Flexible, modular system	Ideal adoption of the machine to customer process
Solid cast iron frame and module components	High stiffness and process precision, long machine life, excellent vibration damping
Steel and cast elements in wet room are PUR-coated, further components in non-corrosive materials	High up-time, low operating cost
Easy to access, low-maintenance design, via separation of wet room from drive- and control components	High up-time, low operating cost
Special machine bed design that enables fast exchange of main transport conveyor-belt	Efficient, ergonomical machine design
Optimal separation of machining modules via moving separators	Reduced cross-termination, optimal low splashguard
Fully automatic workstation referencing to required workpiece thickness	Quick adoption to new workpieces
10" colour display	User friendly, self-explanatory operation and programming
High precision positioning of workstations (1:100 mm steps)	Flexible process control for high precision requirements
Automatic compensation- and pressure control	Direct transmission of drive loads to the PLC-control, non-delay reaction (closed loop circuit), best process safety
Tool ware display	Process-/quality-control
Workpiece flipping device with height adjusting according to workpiece thickness	Automatic 2-side processing, no manual adoption for no workpiece dimensions
Software	
Process-oriented visualization (Human Machine Interface – HMI): <ul style="list-style-type: none"> • Detailed graphic display of process data <ul style="list-style-type: none"> – Workpiece surfaces – Brush-speed RPM – Torque • Various, clear PLC-options to adjust machine parameters, i.e. tool movement, immersion depth of tools, traverse speed etc. • Flow control of coolant / honing oil • Change of language 	Ergonomic, intuitive operation
Stop at maximum tool ware, grinding-belt-tearing-control, air-pressure control	Securing tool and workpieces
Various error diagnostic functions through: <ul style="list-style-type: none"> • Text-display of error messages 	Time-saving, efficient diagnosis
Other Features	
Easy to access, low maintenance design	Low operating costs
Market-leading process- and technology-know-how	Individual process development ensures highest productivity

FE 700-R

Fast – highly precise – easy to use:
High Precision Surface Finishing in Perfection



FE 700-R
with flip over device

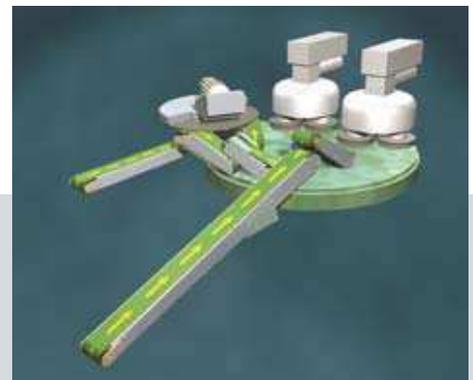
Typical applications:



Fine blanked and stamped parts



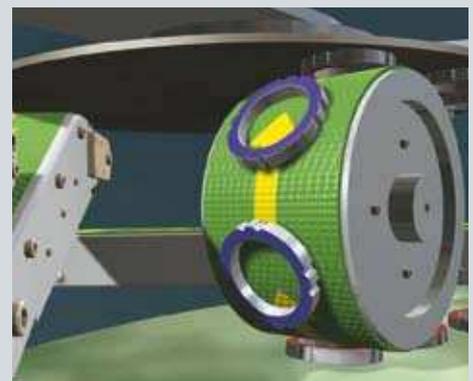
Precision parts



Functional drawing FE 700-R
with flip over device

Grinding and Deburring System FE 700-R	
Max. workpiece width [mm] (incl. workpiece flip over device)	250 90
Max. workpiece height [mm]	100
Burr-Ex® brush deburring modules [pcs.]	up to 2
• drives [kW]	• 3.0
• brush-speed RPM [min ⁻¹]	• bis zu 2000
• brush deburring units per module [pcs.]	• 4
• Ø of brushes [mm]	• 150
Controls	Siemens SPS S7-300
Dimensions (H x W x D) [mm]	2360 x 1900 x 2000
Weight [kg]	2500

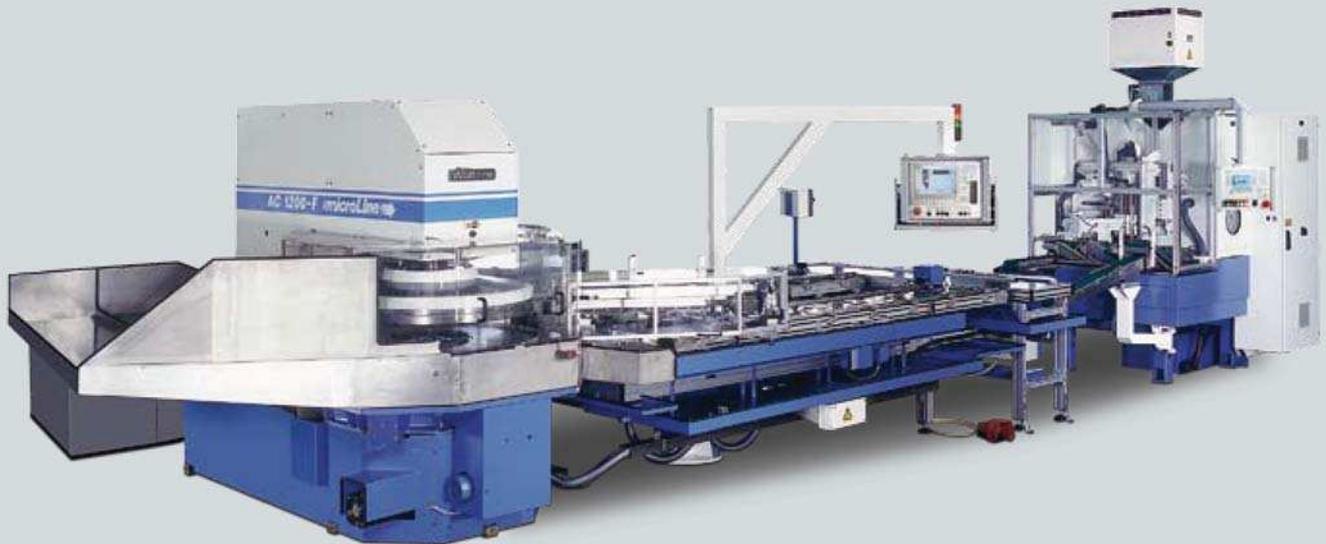
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Functional drawing
of the flip over device

The FE 700-R, a round table finishing system, which has been developed for high precision deburring and additional surface optimization of fineground precision workpieces. Same as the FE 700-L, the FE 700-R can be used as fully automated version or stand-alone-solution.

The wet working area of both systems is sealed and kept separate from the motors and drives. This helps protect the drive system, sensors and the steering of cooling lubricant against contamination, corrosion or abrasive means. This fact guarantees a minimization of repair and maintenance costs and time.



AC 1200-F with semiautomation and FE 700-R

Machine Features	Customer Benefits
Hardware	
Various applications (for high precision workpieces)	Ideal adoption of the machine to application requirement
Easy to access, low-maintenance design, via separation of wet room from drive- and control components	High uptime, low operating costs
Special machine bed design that enables fast exchange of main transport plate	Efficient, ergonomical machine design
Colour display	Extensive, self-explanatory operation
Compensation- and pressure steering	Direct transmission of drive loads to the PLC-control, best process safety
Workpiece flipping device with height adjusting according to workpiece thickness	Automatic 2-side processing, no manual adoption for no workpiece dimensions
Software	
Process-oriented visualization (Human Machine Interface – HMI): <ul style="list-style-type: none"> • Detailed graphic display of process data <ul style="list-style-type: none"> – Workpiece surfaces – Brush-speed RPM – Torque • Various, clear PLC-options to adjust machine parameters, i.e. tool movement, immersion depth of tools, traverse speed etc. • Flow control of coolant / honing oil • Change of language 	Ergonomic, intuitive operation
Stop at maximum tool wear, grinding-belt-tearing-control, air-pressure control	Securing tool and workpieces
Various error diagnostic functions through: <ul style="list-style-type: none"> • Text-display of error messages 	Time-saving, efficient diagnosis
Other Features	
Easy to access, low maintenance design	Low operating costs
Market-leading process- and technology-know-how	Individual process development ensures highest productivity



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