

# AC 1200



## DOUBLE-SIDE HIGH-PRECISION FINE GRINDING MACHINE



PETER WOLTERS AC 1200 double-side batch processing machine has been designed for high-precision series processing work pieces. Due to its modular construction, AC 1200 can be used as a fine grinding, lapping, honing, and polishing machine.

### MACHINE FEATURES

Like all machines of the microLine® series, AC 1200 is based on tried and tested core components such as high-precision, pneumatic pressure system, non-contact micro measuring controller, powerful drive technology, and the PC assisted machine control. Software has been developed by PETER WOLTERS which makes it possible to intuitively operate the machine entirely by menus. Swivel mounted cabinet and frame allow access to the machine interior.

The machine is available with different rotating devices, drive powers and wheel speeds to match

the widest possible range of work pieces. This ensures optimum machine configuration for every application.

AC 1200 is available with well-known, tried and tested accessories such as gap formation, alignment device, and dosing system for fine grinding/lapping or polishing compound.

Accessories such as measuring sensor and post-process measurement provide data for statistical process control and offer process security when processing critical work pieces. "Data Care", the proprietary analysis tool, captures all controller data and thus is the perfect platform for analytic process evaluation, optimization and fault analysis.

AC 1200 can load and process work pieces with a maximum diameter of 400 mm (15.7480") and a maximum thickness of 100 mm (3.9370").

### CUSTOMER BENEFITS

- Adapts easily to customer's application requirements
- High degree of stiffness and precision
- Fast – ergonomic loading and unloading, as well as easy tool changing
- Optimum surface quality, flatness, thickness tolerance and plane parallelism with narrowest tolerances on the work piece
- Extreme temperature stabilization over the tool surface and therefore constant flatness of the working wheels
- Reduced cost per piece, shorter loading, unloading, non-productive times
- Comprehensive, clearly structured screens
- Excellent machining results due to compliance with freely programmable process parameters
- Fast response to load changes (hysteresis-free)
- User friendly, intuitive operation
- Capable of storing 60 or more processing programs
- Low operating costs
- Individual process development, highest productivity
- Easy to maintain

### EQUIPMENT

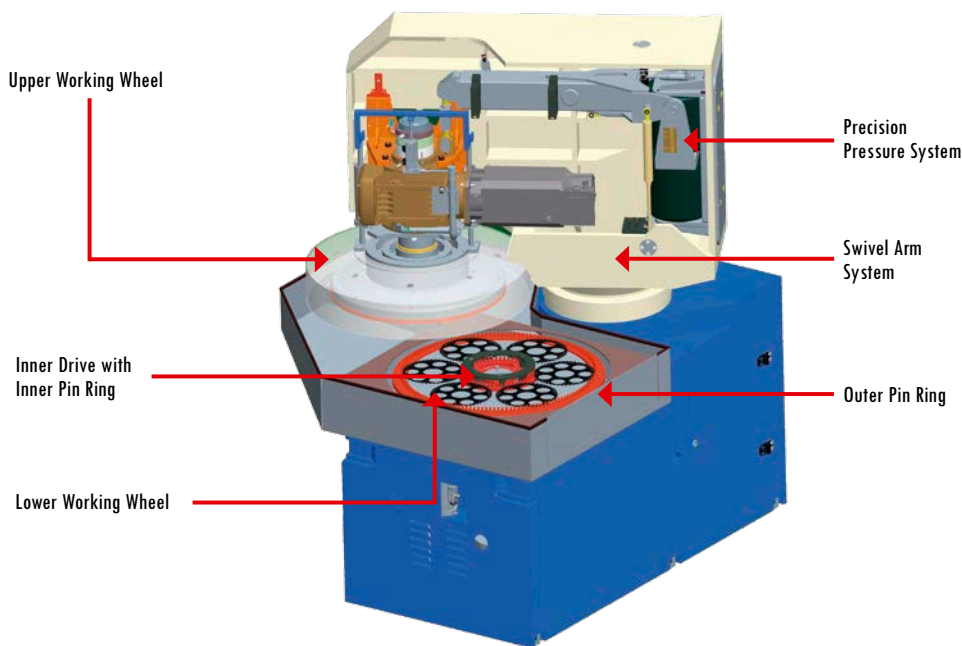
- AC 1200 can be configured to the respective application and is suitable for grinding, lapping, honing and polishing.
- Top variant features constant-torque servo drives.
- Size of the work piece to process is the basis for selecting the optimum rotating device. Several variants to choose from.
- Machine comes with suitable filters and cooling components depending on the application.
- AC 1200 can be linked with manual, semi-automatic or fully automatic loading systems.

## TECHNICAL DATA

## AC 1200

Version	F, H	L, P
Wheel diameter (mm/in)	1160 mm / 1232 mm (45.6692") / (48.5038")	1232 mm (48.5038")
Ring width (mm/in)	341 mm / 396 mm (13.4252") / (15.5905")	396 mm (15.5905")
Max. load pressure (daN)	1800 / 3000	1300
Upper drive power (kW)	26 / 36	12 / 16
Upper drive speed (rpm)	110 / 136 / 160	80 / 60
Lower drive power (kW)	26 / 36	12 / 16
Lower drive speed (rpm)	110 / 136 / 160	80 / 60
Center drive power (kW)	6 / 9	4.5
Center drive speed (rpm)	90 / 120	60
Working wheel cooling	Labyrinth	Labyrinth
Dimensions (H × W × D) (mm/in)	2350 × 3400 × 3280 mm (92.519 × 133.858 × 129.137")	2350 × 3400 × 3280 mm (92.519 × 133.858 × 129.137")
Weight (kg/lbs)	8300 kg / 18298 lbs	8300 kg / 18298 lbs
Max. work piece thickness (mm/in)	100 mm / 3.9370"	100 mm / 3.9370"

## FUNCTIONAL DRAWING OF THE PETER WOLTERS AC MICROLINE® RANGE



## CONTROL



### Process oriented visualization (Human Machine Interface – HMI):

- Detailed graphic display of process data
  - Pressure and geometry
  - Speed (rpm)
  - Torque
  - Temperatures
- Comprehensive, clearly structured adjustment of several machine options, i.e. process control, swivel mounted cabinet and frame, countdown counter, etc.
- Temperature monitoring (working wheel, cooling lubricant)
- Monitoring of the cooling lubricant flow rate
- Language switch-over
- Touch-down monitor of upper working wheel

### Various error diagnostic functions through:

- Text display of error messages
- Error location display
- Error history

### Process-Data-Recording (Data Care)

- Recording of process data (speeds, torques, etc.) and other meta data on external data media.

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