

AC 400

LAPMASTER[®] WOLTERS

DOUBLE-SIDE HIGH-PRECISION MACHINE



PETER WOLTERS AC 400 double-side batch processing machine has been designed for high-precision series processing work pieces. Due to its modular construction, AC 400 can be used as a fine grinding, lapping, honing, deburring, and polishing machine.

MACHINE FEATURES

Like all machines of the AC microLine[®] series, AC 400 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 PLC control. Software has been developed by PETER WOLTERS which makes it possible to intuitively operate the machine entirely by menus. The upper wheel moves approx. 500 mm upwards. This and the design of the entire machine base allow comfortable access from three sides to the process area.

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 400 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. DataCare[®], the proprietary analysis tool, captures all controller data and thus is the perfect platform for analytic process evaluation, optimization and fault analysis. AC 400 can load and process work pieces with a maximum diameter of 100 mm and a maximum thickness of 50 mm.

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

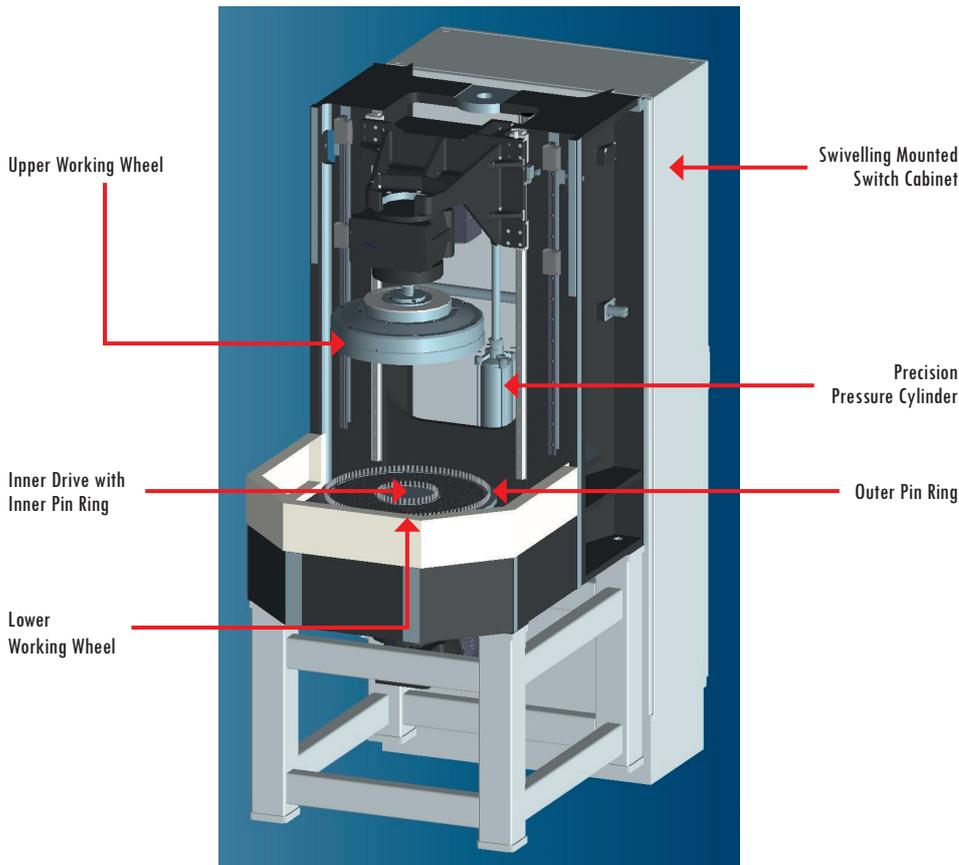
EQUIPMENT

- AC 400 can be configured to the respective application and is suitable for grinding, lapping, honing, deburring, and polishing
- 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
- Remote maintenance solution RangeCare[®] via mobile communications or VPN

TECHNICAL DATA

AC 400

Version	F, P	L, P, D
Wheel diameter (mm)	425 / 445 / 475	425 / 445 / 475
Ring width (mm)	120 / 150	120 / 150
Max. load pressure (daN)	300 / 500	300 / 500
Upper drive power (kW)	3 / 4	2 / 3
Upper drive speed (rpm)	175 / 320	100 / 175
Lower drive power (kW)	3 / 4	2 / 3
Lower drive speed (rpm)	175 / 320	100 / 175
Center drive power (kW)	1.2	1.2
Center drive speed (rpm)	100	100
Working wheel cooling	without / Labyrinth	without / Labyrinth
Dimensions (H × W × D) (mm)	2200 × 800 × 1545	2200 × 800 × 1545
Weight (kg)	1500	1500
Max. work piece thickness (mm)	50	50



PLC CONTROL



Process oriented visualization (Human Machine Interface – HMI):

- Detailed graphic display of process data
 - Pressure and stock removal
 - 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 (DataCare®)

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

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