

AC 470

LAPMASTER® WOLTERS

DOUBLE-SIDE HIGH-PRECISION FINE GRINDING MACHINE



PETER WOLTERS AC 470 double-side batch processing machine has been designed for high-precision series processing work pieces. Due to its modular construction, AC 470 can be used as a fine grinding, lapping, honing, and polishing machine.

MACHINE FEATURES

Like all machines of the microLine® series, the AC 470 is based on proven and tested components such as a high precision working head, a pneumatic pressure system, micro measuring control and a control panel, to adjust different process parameters. 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 470 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.

AC 470 can load and process work pieces with a maximum diameter of 140 mm (5.512") and a maximum thickness of 30 mm (1.1811").

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 control panel
- Excellent machining results due to compliance with freely adjustable process parameters
- Fast response to load changes
- User friendly, intuitive operation
- Low operating costs
- Individual process development, highest productivity
- Easy to maintain

EQUIPMENT

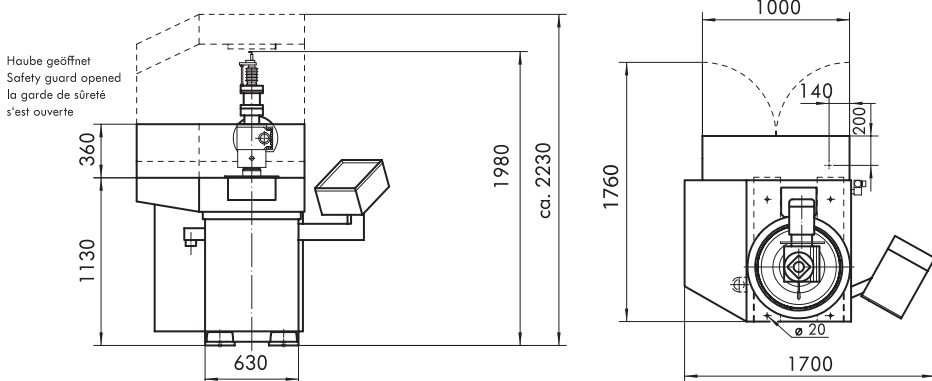
- AC 470 can be configured to the respective application and is suitable for grinding, lapping, honing and polishing.
- Size of the work piece to process is the basis for selecting the optimum rotating device. Several variants to choose from.
- Machine comes with suitable filters and cooling components depending on the application.
- AC 470 can be linked with manual or semi-automatic loading systems.

TECHNICAL DATA

AC 470

Version	F	L, P
Wheel diameter (mm/in)	445 mm / 475 mm (17.5196") / (18.7007")	445 mm / 475 mm (17.5196") / (18.7007")
Ring width (mm/in)	120 mm / 150 mm (4.7244") / (5.9055")	120 mm / 150 mm (4.7244") / (5.9055")
Max. load pressure (daN)	250	250
Upper drive power (kW)	3.0	2.0
Upper drive speed (rpm)	50–275	20–100
Lower drive power (kW)	3.0	2.0
Lower drive speed (rpm)	50–275	20–100
Center drive power (kW)	1.4	1.4
Center drive speed (rpm)	20–70	20–70
Working wheel cooling	optional	optional
Dimensions (H × W × D) (mm/in)	1900 × 1900 × 1700 mm (74.803 × 74.803 × 66.929")	1900 × 1900 × 1700 mm (74.803 × 74.803 × 66.929")
Weight (kg/lbs)	800 kg / 1764 lbs	800 kg / 1764 lbs
Max. work piece thickness (mm/in)	30 mm / 1.1811"	30 mm / 1.1811"

FLOOR PLAN OF THE PETER WOLTERS AC 470



CONTROL PANEL



- Display of the electronic measuring control. The electronic measuring control measures, during processing, the amount of material removed from the work pieces and the working wheels. It switches off the processing or switches from main to post load when a pre-set stock removal value is reached.
- Potentiometer to adjust
 - Upper drive speed
 - Lower drive speed
 - Center drive speed
- Digital display for pre, main and post load
- Special timer for
 - Pre load duration
 - Main load duration
 - Post load duration
- Selector switch for
 - Time mode operation
 - Measuring control operation

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