

## **DOUBLE SIDE MACHINES**

# FINE GRINDING LAPPING/POLISHING





# ELC

The quality and soundness of "ELC" machines combined with electronic systems allow for highly efficient manufacturing whilst reducing costs:

- Electronic retroactive pressure control by means of a ball screw.
- Easy maintenance for greater efficiency.
- Remote support for "online assistance" over the internet and connection to the company's network.
- Upper grinding wheel automatic stiffening system, antivibration.
- Independent and adjustable drive units: upper grinding wheel-lower grinding wheel-internal ring gear.
- Advanced temperature control systems and relative control of temperature values on the panel.



- > Precision
- > High output
- > Lower costs
- > Safety
- > User-friendly

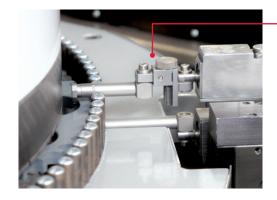
				ELC 500		ELC 900		ELC 1200		1500	ELC 2000
ding Version	Number of carriers		5 (6)		6 (5)		5 (4)		5		5 (4)
	Available diameter	[mm]	160 (124)		254 (305)		430 (510)		520 (650)		720 (800)
	External diameter	[mm]	55	50	860		1220		1500		2000
Grinding wheel	Surface	[cm <sup>2</sup> ]	2000		4500		10000		17000		25000
Features	Size H x W x D	[m]	2,3x1,9x2		2,7x1,5x2,9		3,3x1,7x2,6		3,3x1,9x2,8		4,5x3,4x3,4
	Weight	Kg	2500		6000		10000		12000		35000
	Vertical axis torque	[Nm]	6 8		16		27		36		90
	Grinding wheel motor power	[kW]	3	5,5	15	18,5	22	37	37	45	75
	Max grinding wheel speed	[rpm]	200	350	120	200	100	200	90	130	80
	Max piece size	[mm]	150		230 (280)		400 (480)		495 (620)		690 (750)

The versions reported are standard versions; technical data is meant as a guide and is subject to change. Intermediate versions are available as required, e.g. 650 and 800 on a 900 structure - 1000 with a 1200-FP700 structure (400rpm)



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### > FEATURES



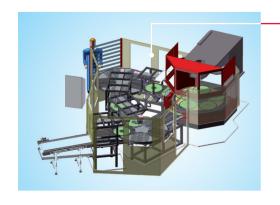
#### > PIECE MEASURING SYSTEM

Contact pieces measured during the process with resolutions of less than 1 micron.

Indirect measurements with no contact.

#### > C-FRAME STRUCTURE

Monolithic structure to ensure the biggest stiffness.



### > AUTOMATIC LOADING AND UNLOADING

Example of a system for carriers (even with the grinding wheel down) Can be connected to washing and brushing systems.

#### > OSCILLATION SYSTEM

Exclusive system that automatically blocks the oscillation of the upper grinding wheel during the various stages of the work cycle.



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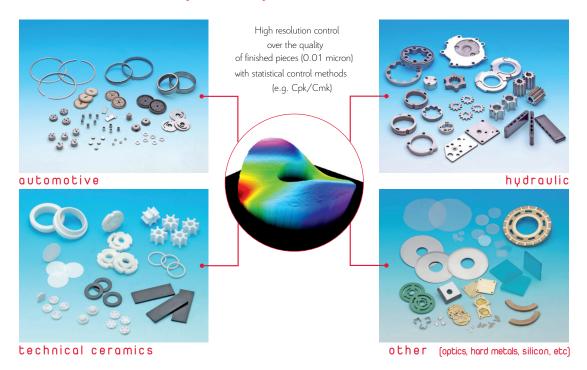
### > Technical and process support

- Experience and technical expertise: option of designing the various stages of the process with the client to optimise the cost of line grinding.
- High-tech test room for an optimal definition of the grinding wheel: option of start-up with subcontracting.
- Programs for preventive maintenance and specific process training.



High stock removal
Low roughness
Tolerances (parallelism/flatness)
less than one micron

### > All-in-one "fine grinding" solutions







#### Melchiorre Srl

Via Raffaello Sanzio, 58 - 20021 BOLLATE (Milan) - ITALY

P. +39 02 66.04.65.22

F. +39 02 66.04.01.11

E. info@melchiorre.net



**PAM** a SpeedFam company



