

# LCR

## SPECIAL POLISHING MACHINES FOR FLAT EDGES

Pencil Round (max thickness 4 cm)

Chamfers (max thickness 6 cm)

LCR is a special, linear polisher for flat edges. Indeed, compared to other machines of the same kind, it can round and polish the two corners of a flat edge, besides chamfering them at 45° as all other machines can normally do.

Flat edge at 90° with the rounding of the two corners is a kind of processing more and more required, especially in certain markets. So far just torus polishers, both with belt and stationary bench, have carried out this kind of processing. However those machines are rather slow as for this kind of profile (much slower compared than flat edge with chamfering or completely rounded edges).

On the contrary LCR can perform the above profile as fast as polishing machines for flat edge can do, and better than torus polishers, even on "difficult" materials, such as agglomerates.

Besides the facing-polishing mandrels, LCR is also supplied with two units of three counter-oscillating mandrels each, that carry out travels of about 90° through an original and innovative mechanism planned by MM. That mechanism generates a natural, harmonious motion. It makes the masses of the two oscillating units balance out each other (and the reversing stresses compensate), thus allowing high oscillating frequencies. Alternatively, the two units of mandrels can be used in a static way (opposed at 45°), thus performing "classic" chamfering.

LCR can be supplied with all the attachments available for other edge-polishing machines.

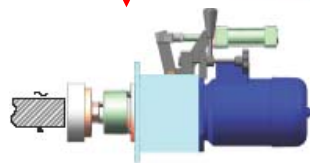
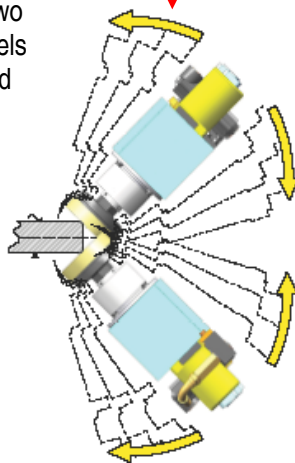
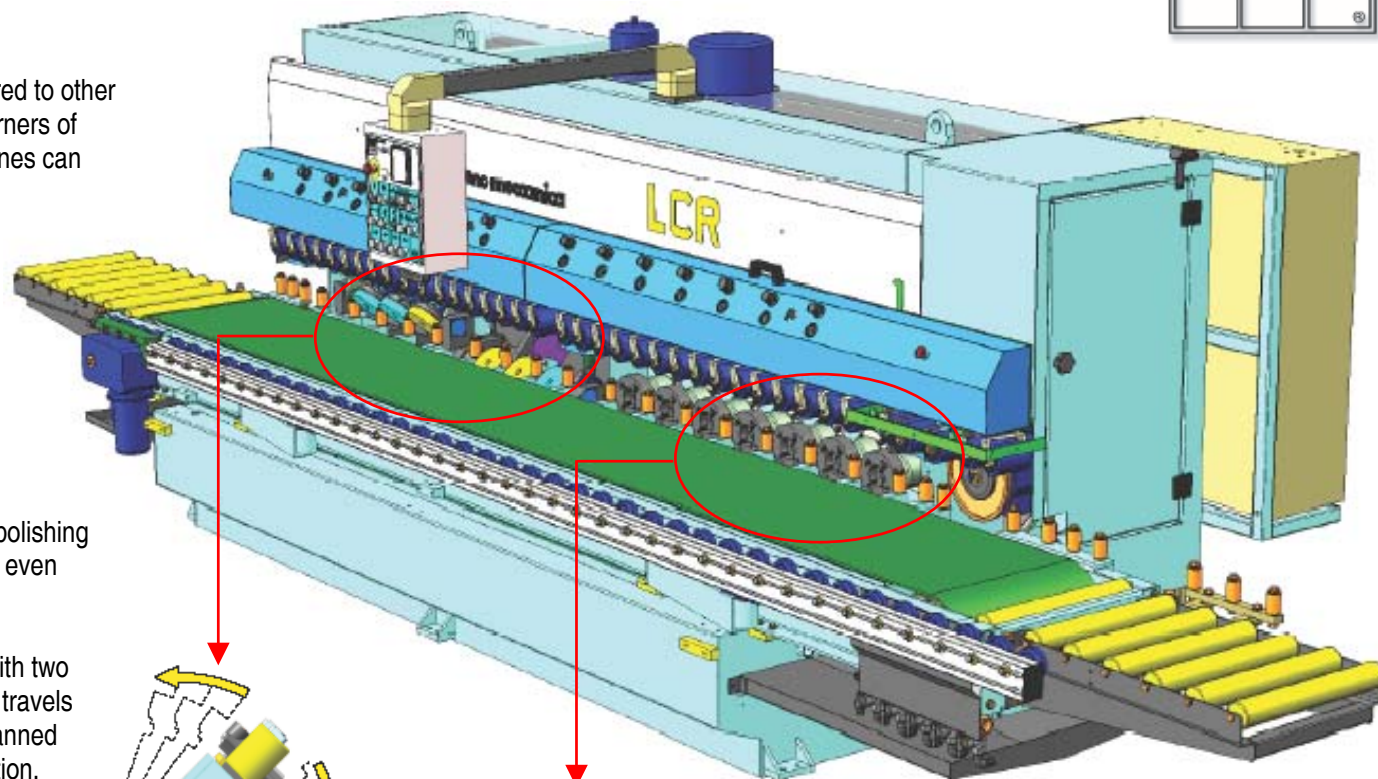


... concreteness above all



SPA

marmo meccanica





## LCR BASIC SPECIFICATIONS

### FACING-POLISHING MANDRELS

- No. 7 in the basic configuration (other 2 can be added on request).
- Pneumatic starting. The first mandrel has an adjustable, mechanical limit switch allowing the use of metal, diamond wheels.
- Power of each mandrel (direct, electrical motor): 1.5 KW.
- Rotation speed: 1400 RPM.
- Available tools: \* "cup-shaped", abrasive wheels, 120-150 mm Ø, and standard, right, spiral connection.

### UNITS OF MANDRELS FOR UPPER AND LOWER RADIATION OR CHAMFERING

- No. 2 units composed of No. 3 mandrels each.
- Pneumatic starting. The first mandrel of each unit has an adjustable, mechanical limit switch allowing the use of metal, diamond wheels.
- Power of the oscillation motor: 0.75 KW.
- Total power of the mandrels (No. 6 mandrels with direct, hydraulic motors): 9.5 KW.
- Rotation speed: 850 RPM.
- Available tools: \* "cup-shaped", abrasive wheels, 120-130 mm Ø, and standard, right, spiral connection; \* "cup-shaped", diamond wheels, 120-130 mm Ø (total height: 80 mm; connection: M24x3 (x37) right thread).

## LCR GENERAL SPECIFICATIONS

- WORKING DIRECTION: on request.
- DIMENSIONS OF SLABS:
  - \* Thickness: a) with chamfering: 10-60 mm; b) with radiation: 10-40 mm.
  - \* Width: 80 mm-no limits.
  - \* Length: 270 mm (single slab)-no limits.
- WIDTH OF THE CONVEYOR BELT: 500 mm (max. width with the supporting bar: 1400 mm).
- standard POWER SUPPLY: Three phases, 400 V/50 HZ (other supplies on request).

### PARTICULAR SPECIFICATIONS

OTHER MODELS	LCR 733	LCR 733-SE	LCR 733-SU	LCR 733-SE/SU
CALIBR./DRIP-SIZING UNIT	0	1	0	1
SHAPING/DRIP-SIZING UNIT	0	0	1	1
WATER TOT. CONSUMPTION	55 l/min.	62 l/min.	62 l/min.	69 l/min.
INSTALLED TOTAL POWER	22 KW	25.5 KW	27.5 KW	31 KW
MACHINE DIMENSIONS	mm	mm	mm	mm
	4120x1735	4710x1735	4420x1735	5295x1735
	x (H) 1896	x (H) 1896	x (H) 1896	x (H) 1896

## LCR ADDITIONAL SPECIFICATIONS

### INGOING CALIBRATING/DRIP-SIZING UNIT

- Available (manual) adjustments: vertical, horizontal, and 0°-90° rotation.
- Motor power: 3.5 KW.
- Rotation speed: 1400 RPM.
- Diameter of the discs: 250 mm (hole: 50 mm).
- CALIBRATION: \* 0-60 mm thickness; \* max. width: 60 mm.
- DRIP-SIZING CUT: \*from the upper part of slabs.

### OUTGOING SHAPING/DRIP-SIZING UNIT

- Available (manual) adjustments: vertical, horizontal, and 0°-90° rotation.
- Motor power: 5.25 KW.
- Rotation speed: 2800 RPM.
- Diameter of the tools: 250 mm (hole: 50 mm).
- SHAPING: \*max. thickness of the wheels: 50 mm.
- DRIP-SIZING CUT: \* from the upper part slabs.

### UNIT FACING THE UPPER PART OF SLABS OR WITH A ROTOBUSHHAMMERING WHEEL FOR THE NONSLIP FUNCTION

- Available (manual) adjustments: vertical and horizontal.
- Motor power: 2.0 KW.
- Rotation speed: 1400 RPM.
- Available tools: \* "cup-shaped", abrasive wheels, 120-130 mm Ø, and standard right spiral connection; \* "cup-shaped", rotobushhammering wheels, 120 mm Ø (total height: 80 mm; connection: M24x3 (x37) right thread).

### ROLLER EXTENSIONS

Ingoing and outgoing extensions: 830 mm lengthx500 mm (other dimensions on request).