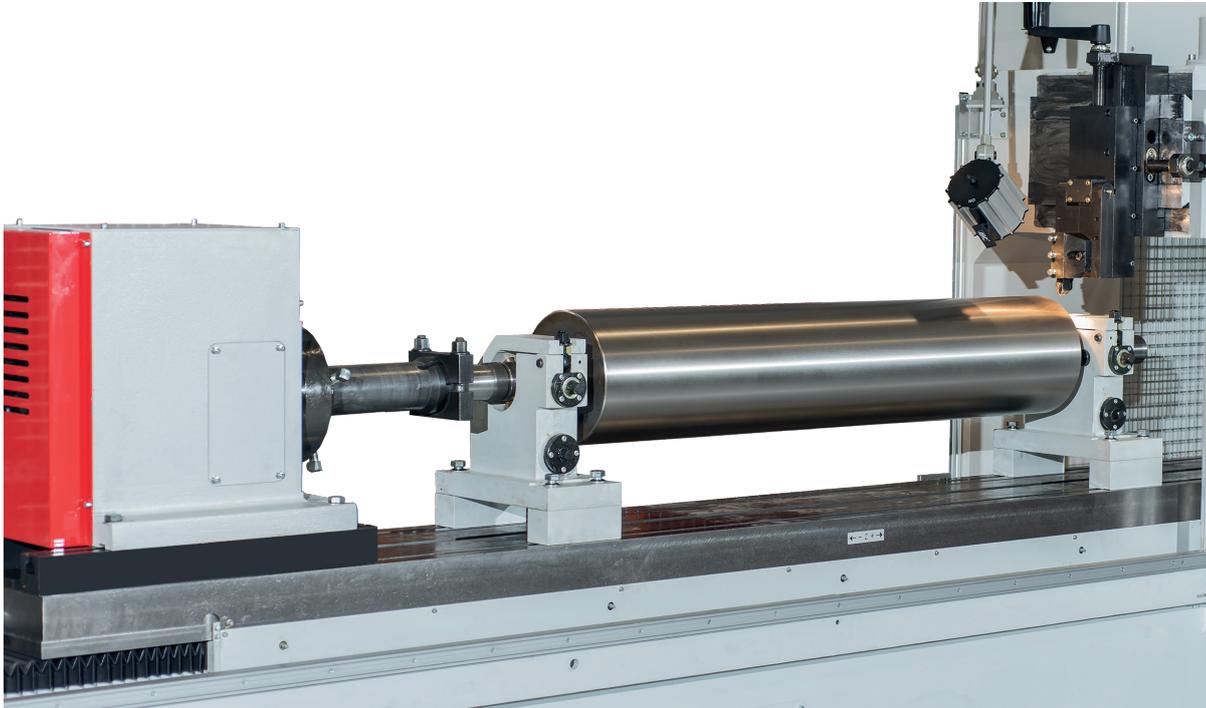




GFA

FLUTING MACHINE



- Setting the fluting data
- Numerical control panel board with handwheel for manual movements
- Monitor with image magnified 10 times for immediate checking of corrugation and consequential tool adjustment
- Machine built-in control panel

Automatic, fast and precise in fluting the grinding rolls.

Ease of use

The numerical control, equipped with liquid crystal (LCD) color monitor able to manage all the functions with the maximum precision and reliability, ensures an easier use of the machine.

All functions are programmable via keyboard and through dedicated menus. Programs are self-driven and easy to read (Italian, English, French and Spanish). Mathematical calculations for required indexing gears are no longer necessary. Rolls can be fluted starting from 10 to 3.000 indexings with a unit increment. Guide for spiral inclination eliminated, thus overcoming a difficult and inaccurate set up operation. Spiral inclination from 0 to 20% with increment of 0,01% either lefthand or righthand. An electronic handwheel allows machine axes to be easily moved during machine set up.

Software

Complete and simple software for the best fluting of any type of roll. Specific functions allow an accurate control of all operations.

A coloured graphic display indicates work progress during fluting. An optical indicator warns the operator that the automatic cycle has ended. By using a specific program, it is possible to calculate the depth of fluting.



Wiring system

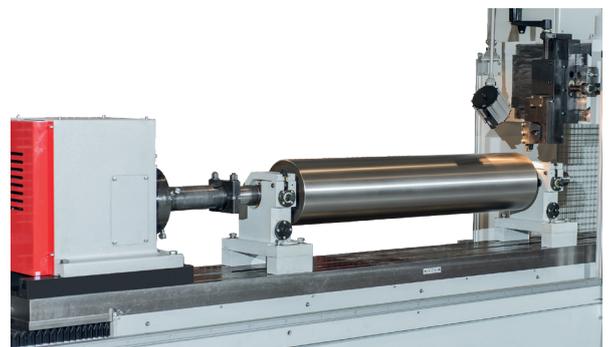
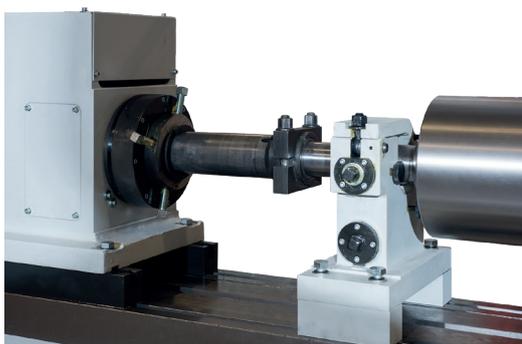
Flexible cables specifically designed for the application. Metallic cable carrier. Built-in electric control panel avoids wiring work during installation and is forced-air cooled.

Maintenance

Maintenance operations and wear substantially reduced. The traditional hardened and ground cast-iron integral guides, requiring constant and careful lubrication, have been superseded by ball screws producing only a rolling friction instead of sliding friction, thus assuring reduced wear and servicing.

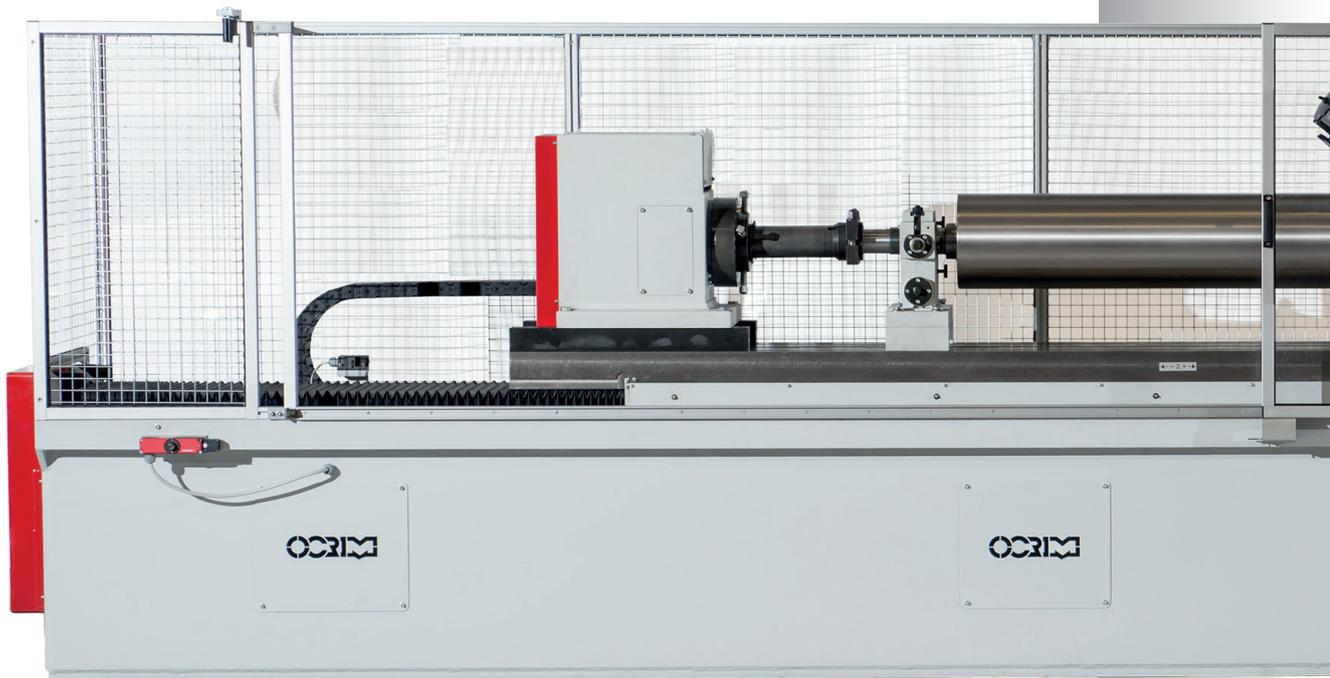
Permanent magnet, brushless servomotors, toothed belt drives and life-lubricated cycloidal reduced drastically cut down servicing costs.

Conveniently positioned lubricating points



Sliding systems

Movement along the machine axis is controlled by large-diameter ball screws with preloaded lead nut. Smooth sliding by means of linear recirculating ball guides and rails.



Machine bed

In stabilized electrowelded steel. Solid, ribbed construction providing dependable service. Initial geometry is maintained unaltered under continuous operation.

To the basement there are fixed the safety guards and the electrical panel, in order to minimize the times for installation and start-up of the machine.

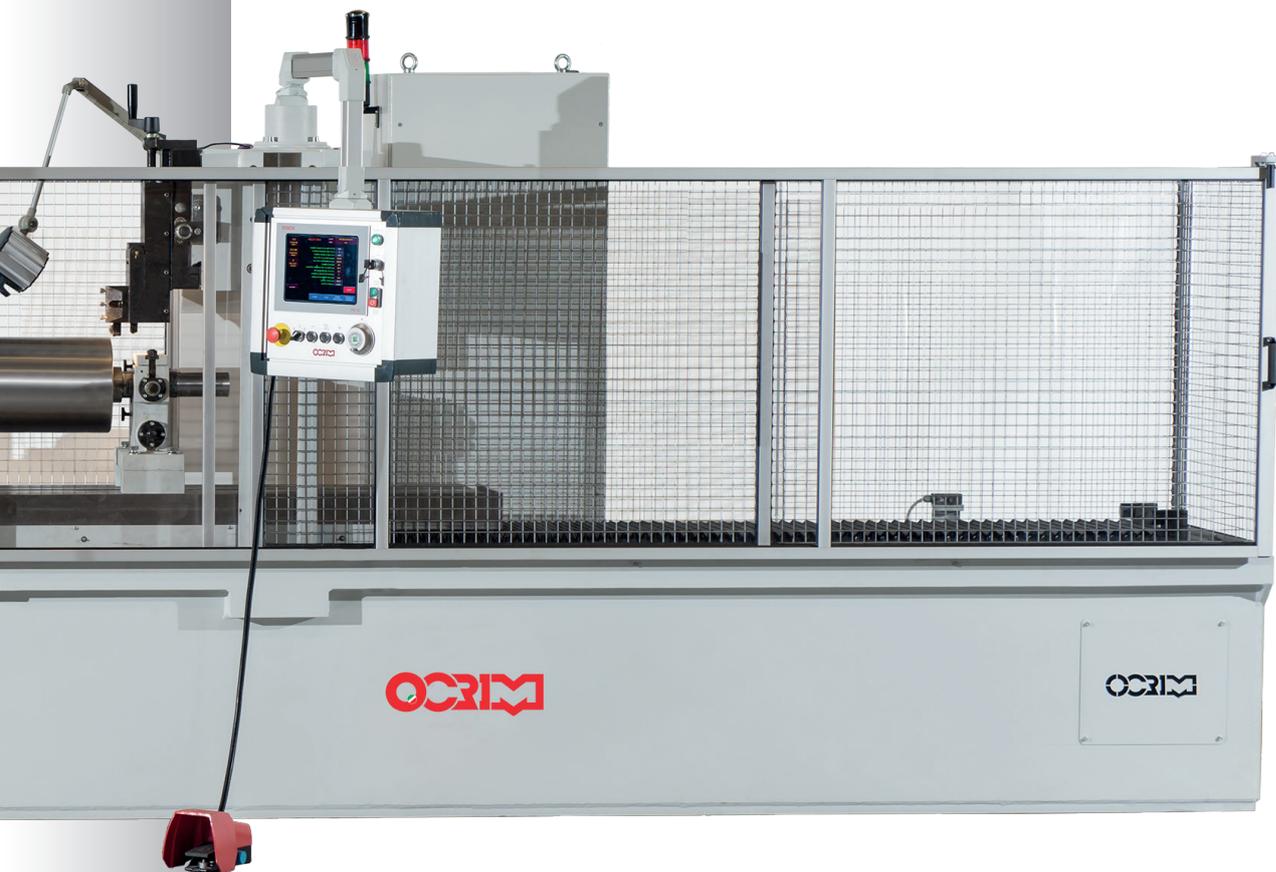
Fluting head

Housing in lamellar cast iron. Bearing-mounted spindle. Precision mechanical coupling featuring high torsion rigidity and capable to take up radial and angular misalignments. Cycloidal reducer assuring great precision coupled by toothed belt to the brushless motor complete with optical encoder.

Toolhead

In stabilized electrowelded steel.

Structure is strictly symmetric and designed for optimal stress distribution as well as uniform reaction to temperature changes. Fitted with one toolholder. Micrometer adjustment of tool in vertical and horizontal direction. Provision for rack-shaped cutters (optional).



Worktable

In one-piece lamellar cast iron, capable to dampen all typical fluting vibrations. Brushless motor with optical encoder, coupled to the ball screw by toothed belt. Working and reverse speeds can easily be varied.

Rolls support

Body and cover in lamellar cast iron. Anti-friction bearings. Micrometer adjustment of supports in two directions (vertical and horizontal). Correct and fast opening and closing through the hinged upper part (cover)

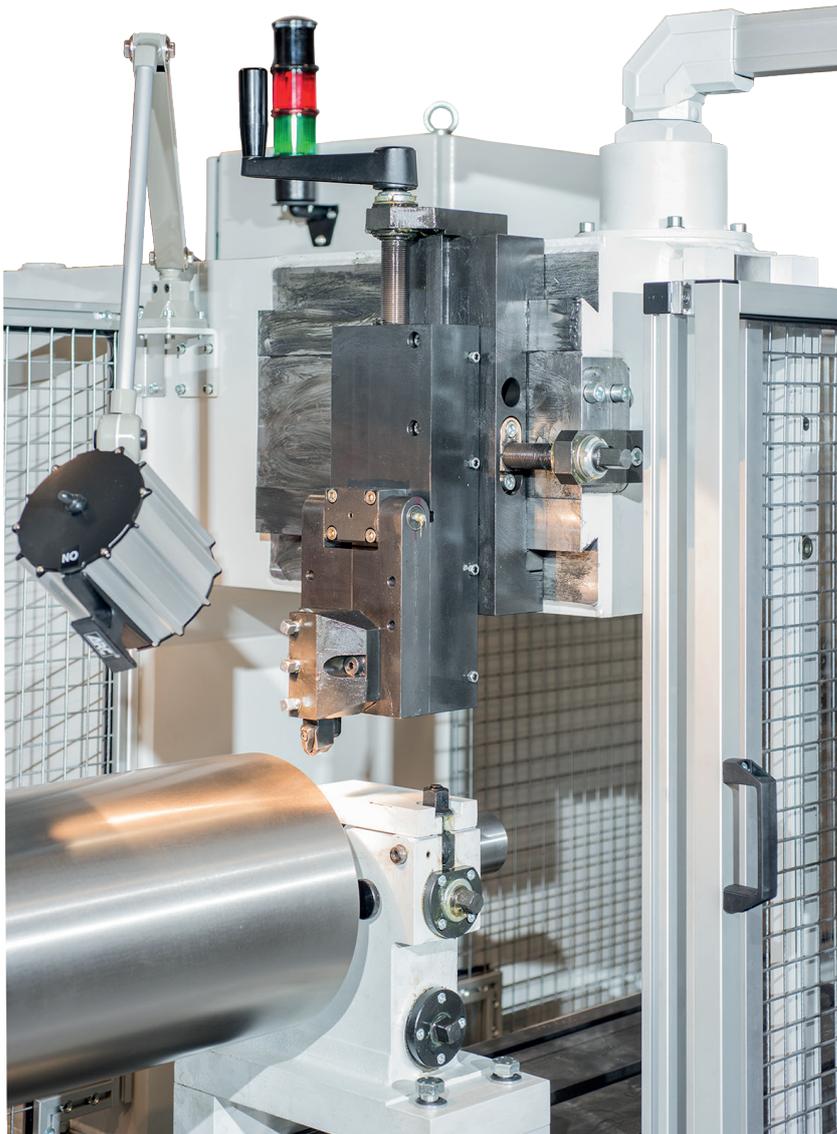


Fluting speed

A substantial time saving is realized on the two fronts of simplicity of preparation and rapidity of work. It is sufficient to position the tool and its roll on the machine to proceed with fluting operation. Formerly, it was necessary to position the tool, to change the indexing gears and incline the spiral guide.

Dependability

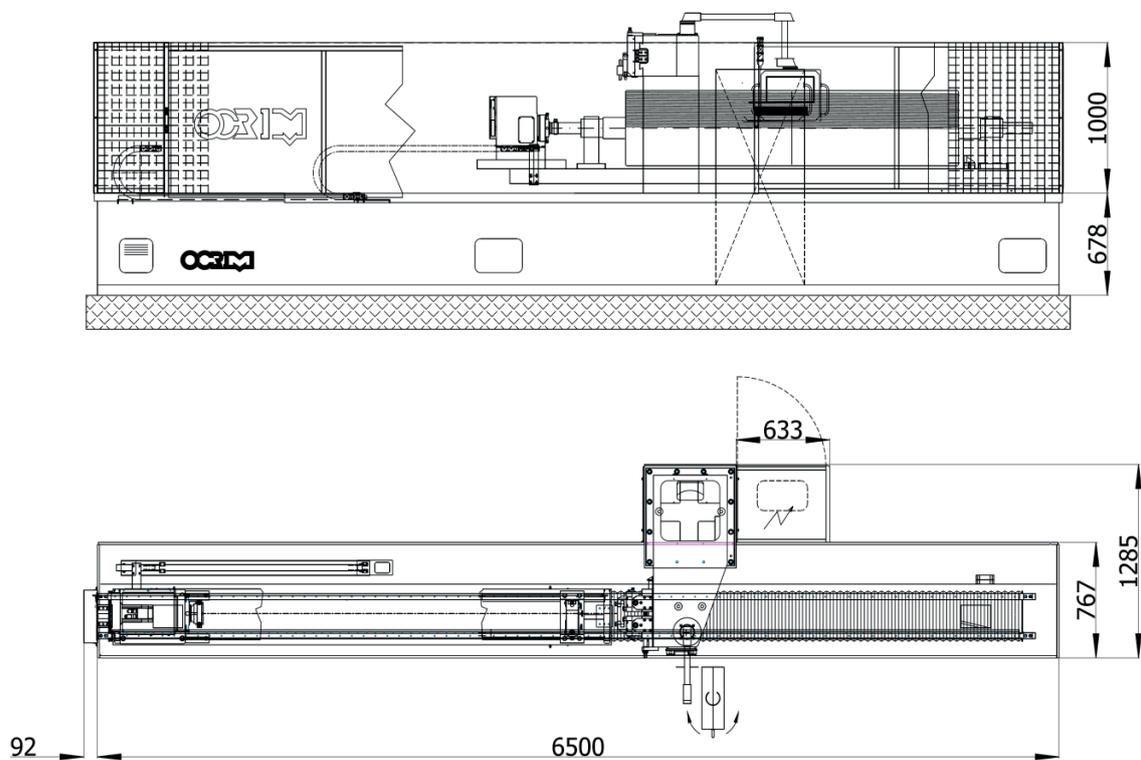
This machine is the result of Ocrim's experience combined with the state-of-the-art technology in machine tools manufacturing.



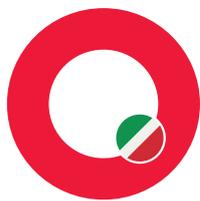
Technical information

Model	Roll size (mm)		Working characteristics of fluting		Total installed power (kW)	Net weight (Kg)	Shipping volume (m ³)
	Diameter	Length	Cutting speed (m/min)	Roll flutes (n°)			
GFA 20R	200 ÷ 460	2250	18	10 ÷ 3000	10	5500	20

Technical features of the equipment can be modified without any obligation of notice. Data may be not fully in accordance with the market versions.



OCRIM



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