

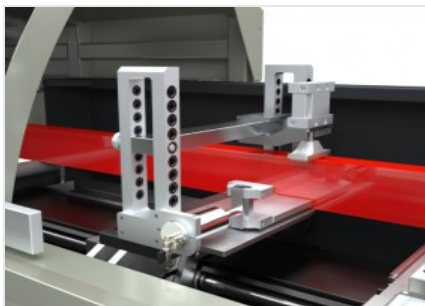


Automatica ER

Single head cutting-off
machines

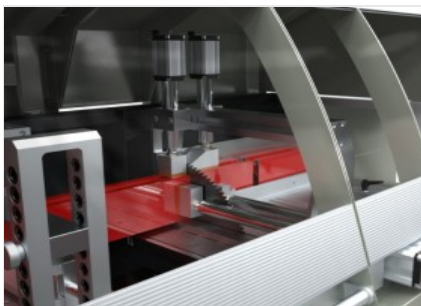


Single head, rising blade cutting-off machine with automatic cycle, for 90° cutting, equipped with N/C bar feeder. It can be set up with four different diameter blades, the blade feed is N/C electrical driven. For cutting needs that require a perfect finish, a pneumatic system for the automatic separation of the cut piece, in order to avoid the traces commonly left when the blade comes back in this cutting mode, is optionally available. It can be also provided with inverter, to control the blade rotation speed for the best adjustment to the cutting profile. It can also be equipped with an automatic bar loading magazine and with custom drilling units for particular needs.



Feeder with bridge vices

Bar feed system obtained through the use of a controlled axis ensuring, through the use of a recirculating ball screw, high positioning accuracy. It can be set from the "PC" on-board the machine.



Cutting zone with bridge vices

To enable maximum utilization of the large cutting capacity, which ensures the machinability of large profiles, the cutting zone features a sturdy structure designed to ensure maximum precision. This is with regard to both the horizontal plane and the vertical square.



Orientable vices (Optional)

Optionally, both bridge vices can be equipped with adjustable hold-down devices, with adjustable pressure angle. This is an accessory that enables the proper clamping and cutting of profiles with irregular geometry, ensuring maximum rigidity and the maintenance of precision, a distinctive feature of the machine itself. The use of this system is also characterised by simplicity and quick set-up.



Sliding protections

Integral work area protection ensures maximum safety during cutting cycles. It consists of two separate protective covers, one for the workpiece clamping and transport area and one for the clamping, cutting and separation area. The two covers have a large scratch-resistant polycarbonate window to follow the machining in full brightness and visibility.



Control

The ergonomic state-of-the-art control panel features a 10.4" touchscreen display and fully customised software and is packed with functions developed in the Microsoft Windows® environment specifically for this machine. The machining cycle can be optimised by creating cutting lists, thereby reducing scrap and cycle times for workpieces loading-unloading.

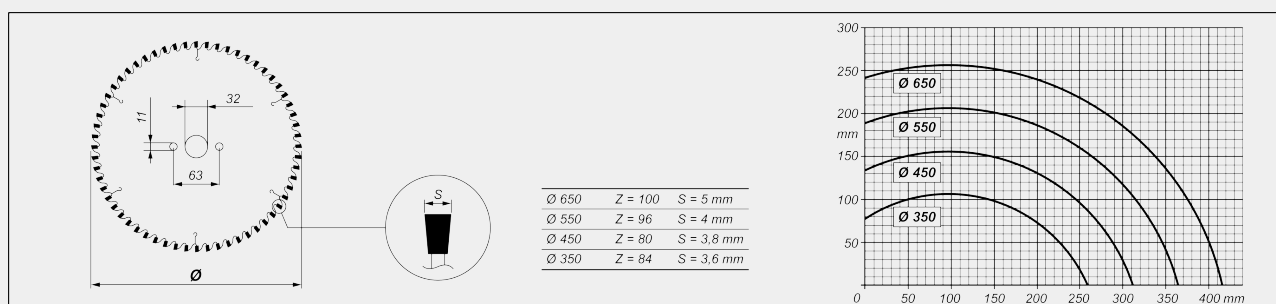


Label printer (Optional)

The industrial label printer allows each cut profile to be identified with identifying features from the cutting list. In addition, barcode printing enables easy identification of the profile itself, which is particularly useful for subsequent machining steps on Machining Centres or assisted assembly lines.


AUTOMATICA ER / SINGLE HEAD CUTTING-OFF MACHINES
MACHINE CHARACTERISTICS

Electronic control of the X axis	●
X axis stroke (mm)	1.000
X axis positioning speed (m/min)	20
Absolute encoder positioning	●
Positioning tolerance (mm)	± 0,1
Bar minimum length (remaining bar) (mm)	110
Y axis electronic control (blade feed)	●
Widia blade	●
Blade diameter (mm)	650 ; 550 ; 450 ; 350
Separating system for cut workpiece	○
Automatic bar loading magazine	○
Drilling unit	○
Work area lighting	○

CUTTING DIAGRAM

BLADE MOTOR

Three-phase brakemotor	●
Power rating (kW), three-phase drive motor	5,5
Peripheral speed of 50Hz (m/s)	Ø650 - 77 ; Ø550 - 83 ; Ø450 - 68 ; Ø350 - 53
Brake intervention time (s)	10
Motor with inverter (optional) (kW)	9,6

SAFETY DEVICES AND PROTECTIONS

Manually controlled complete sliding guard	●
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**LUBRICATION AND SUCTION**

Minimal oil diffusion lubrication system ●

Preparation for automatic start-up of external exhauster ●

PROFILE POSITIONING AND CLAMPING

Bridge structure in cutting area with two pairs of vertical and horizontal vices with pressure reducer equipped with a pressure gauge ●

Bridge structure in feeder area with two pairs of vertical and horizontal vices with pressure reducer equipped with a pressure gauge ●

Feeder and cutting area adjustable bridge vices ○

Included ● Available ○