AUTOMATICA 700

AUTOMATIC SAWS

Automatic single-head cutting-off machine with upstroke movement for 90° cuts, fitted with Ø 700 mm blade with electric feed. The machine can be configured to use blades with different diameters. The setup requires a very simple operation, after which the software automatically prepares for the correct setting appropriate to the installed blade. Bar feeding is powered by an electric CNC bar advancement system. For cutting needs requiring a perfect finish, it features, as an optional, a pneumatic system for the automatic separation of the cut piece, which avoids the presence of traces -commonly left by the blade when it moves back - in machines that use this cutting mode. It can be customised with drilling and milling units for specific needs. The motor with inverter allows to change the blade rotation speed, adapting it to the profile to be cut.

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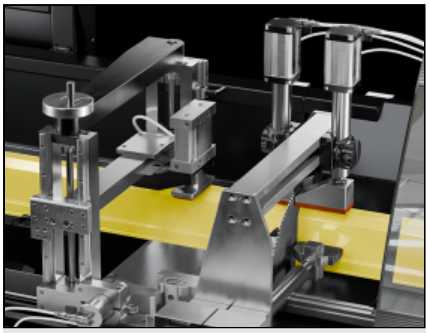
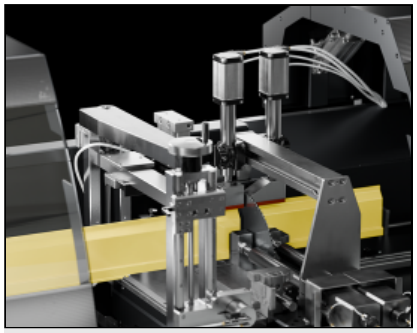
The right to make technical alterations is reserved.



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.

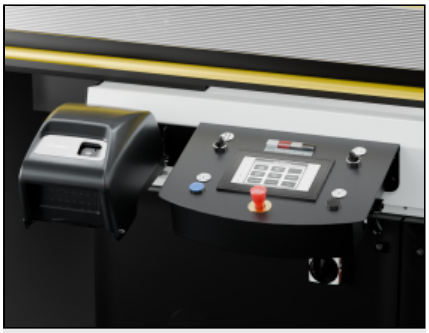


Cutting zone with bridge vices

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.

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 control area features a control console equipped with a PLC with an integrated 7" colour TFT graphical display and fully customised, feature-rich software designed specifically for this machine. Single cuts or cuts from list can be programmed locally through the PLC. Using connection via USB port or LAN connection, programmed lists can be used remotely.

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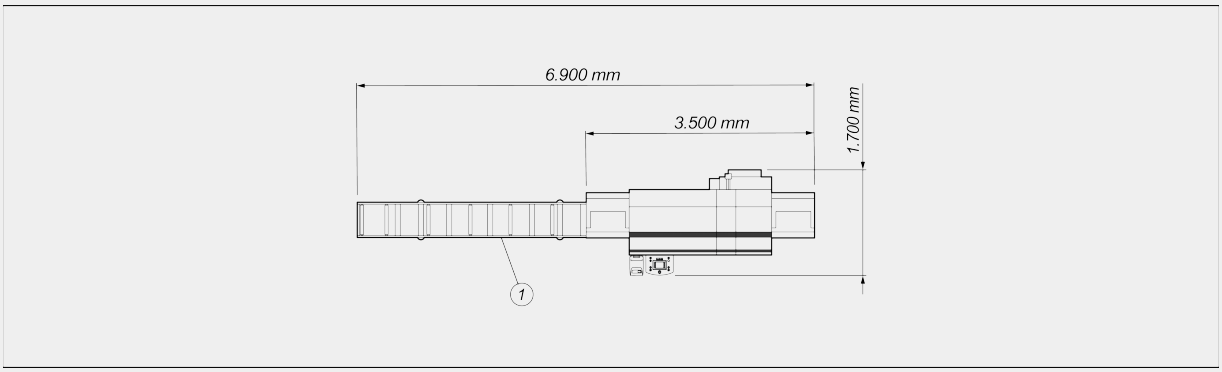
LAYOUT



1. Infeed roller conveyor (supplied separately)

The overall dimensions may vary depending on the product configuration.

MACHINE CHARACTERISTICS

Electronic control of the X axis	●
X axis stroke (mm)	1.000
X axis positioning speed (m/min)	20
Absolute encoder positioning	●
Bar minimum length (remaining bar) (mm)	110
Y axis electronic control (blade feed)	●
Cemented carbide blade	●
Standard blade diameter (mm)	700
Standard blade thickness (mm)	5,5
Standard blade teeth no. (mm)	110
550 mm Ø blade	○
450 mm Ø blade	○
Swarf conveyor for blade	●
Separating system for cut workpiece	○
Drilling unit	○
Work area lighting	○

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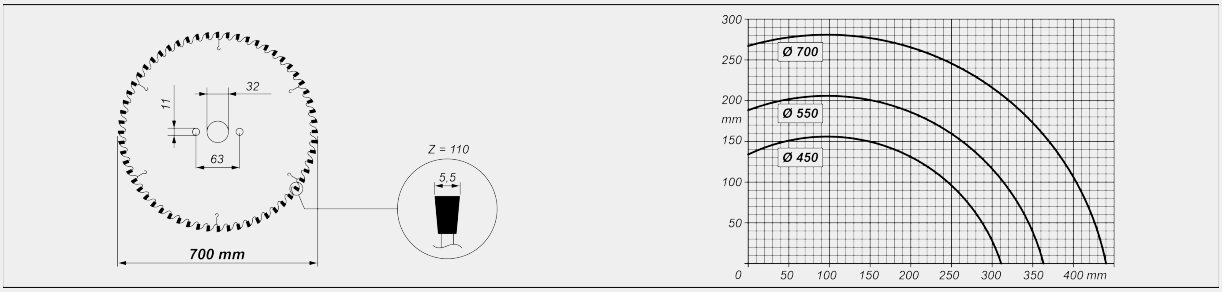
CUTTING DIAGRAM



BLADE MOTOR

Three-phase brake motor with inverter	●
Power rating (kW), three-phase drive motor	9,6
Standard blade peripheral speed (m/s)	66 ÷ 80,6
Ø 550 mm blade peripheral speed (m/s)	51,8 ÷ 63,3
Ø 450 mm blade peripheral speed (m/s)	42,4 ÷ 51,8
Brake intervention time (s)	10

SAFETY DEVICES AND PROTECTIONS

Manually controlled complete sliding guard	●
Side protection tunnels	●

LUBRICATION AND SUCTION

Minimal oil diffusion lubrication system	●
Pre-setting for automatic exhauster start	●
Group of 4 positionable blowers with magnetic support for work surface cleaning	○

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 ○

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