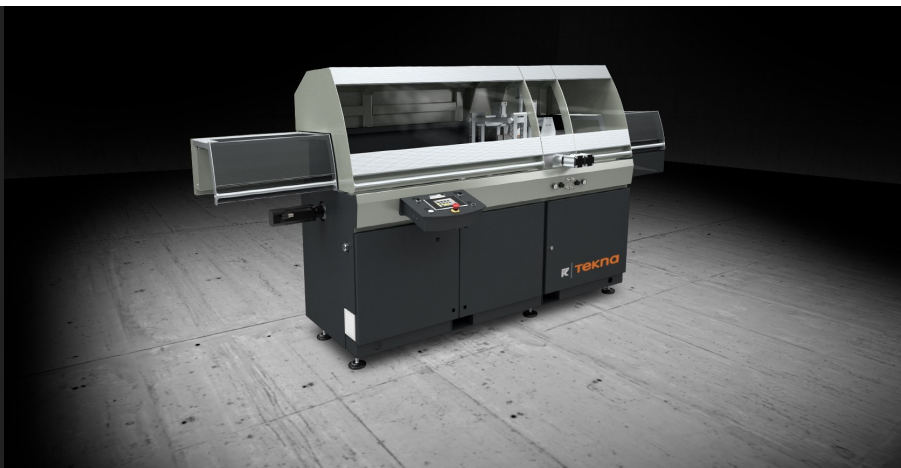


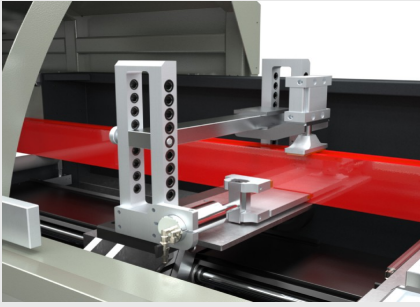


TKE 305 EA

Single Head Cutting-Off Machines

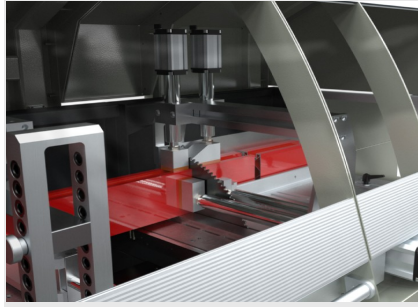


Single head, rising blade cutting-off machine with automatic cycle, for 90° cutting, equipped with N/C bar feeder. It can be set up with four different diameter blades, the blade feed is N/C electrical driven. The machine is provided with a pneumatic system for automatic separation of the cut piece in order to ensure maximum quality of the cut surface. 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. Equipped with a bridge vice system, which allows the extreme versatility of clamping toward a wide variety of profile geometries, while maintaining rapidity in setting up the workpiece clamping cylinders.



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 control area features a control console equipped with a PLC with an integrated 5.7" QVGA 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 PC. Using connection via USB port or LAN connection, programmed lists can be used remotely.



Printer preparation (Optional)

The machine is prepared for the installation of a printer that can be selected from compatible models. The set-up includes software enabling for the label printing function, mechanical support elements for positioning on the machine, wiring and preparation for electrical connection, and a folding cover to protect the printer from shocks and possible entry of swarfs.



TKE 305 EA / SINGLE HEAD CUTTING-OFF MACHINES

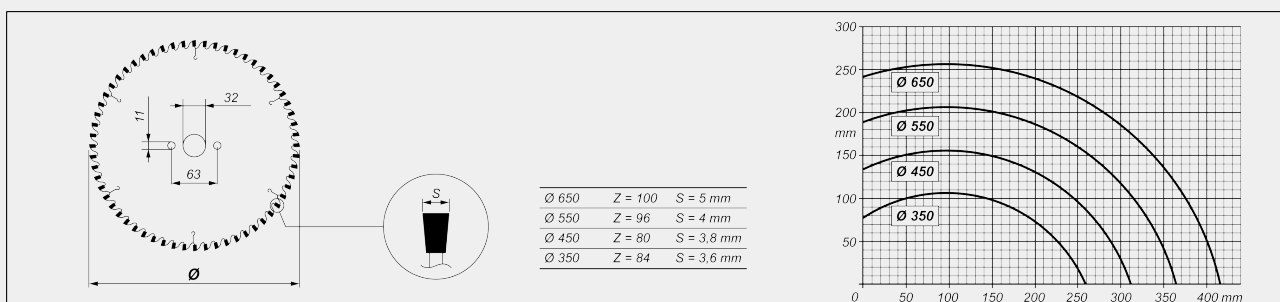
MACHINE CHARACTERISTICS

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
Electronic control of blade feed axis Y	●
Widia blade	●
Blade diameter (mm)	650 ; 550 ; 450 ; 350
Separating system for cut workpiece	○
Automatic bar loading magazine	○
Drilling unit	○
Work area lighting	○

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

CUTTING DIAGRAM



**SAFETY DEVICES AND PROTECTIONS**

Manually controlled complete sliding guard

**LUBRICATION AND SUCTION**

Minimal oil diffusion lubrication system



Preparation for automatic start-up of external exhauster



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 ○