



TKE 554

Twin Head Cutting-Off Machines



Twin-head cutting-off machine with 3 controlled axes with automatic movement of the mobile head and electronic control of every angular setting within the range 45° (internal) to 22°30' (external). The feeding of the two 550 mm blades is driven by hydro-pneumatic cylinders. Available with a useful cut of 5 m in length. Industry 4.0 ready.



Profile clamping

The profile to be cut is clamped by two horizontal hold-down devices with extreme precision and in absolute safety. For vertical clamping, particularly for special cuts, the machine can be equipped with a patented system of horizontal hold-down devices. When two considerable lengths are cut, the profile is supported by a manually positioned intermediate support.



Load and unload

The cutting-off machine is equipped with a roller conveyor on a mobile head for standard loading and unloading procedures. The roller conveyor can be optionally fitted with an extra vice to immobilise the residual profile and an electronic machined profile thickness meter for automatic cutting positions correction in accordance with the real profile dimensions, with the associated surface treatments tolerance.



Control

The control panel, installed on a support sliding on bearings along the front side of the machine, allows correct mobile heads positioning in accordance with the required cutting schedule. The interface uses a 7" touch-screen and fully personalised software and is packed with bespoke functions that are unique to this machine. The machining cycle can be optimised by creating cutting lists, thereby reducing scrap and cycle times for parts loading-unloading.



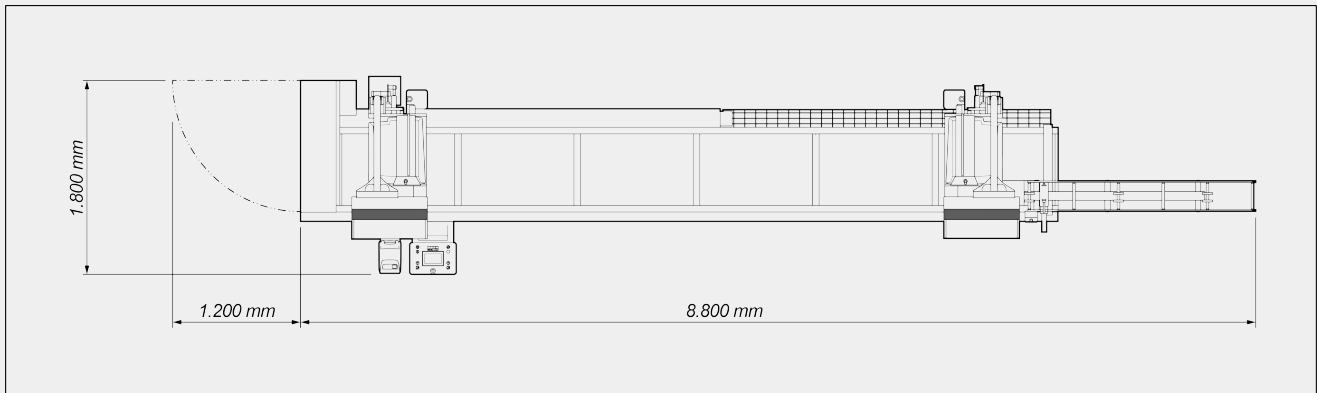
Heads tilting

Servomotors with encoders provide the tilting of the mobile units, and the relevant positioning is electronically managed and parameterised by the control, which features a simple and intuitive operator interface.



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 554 / TWIN HEAD CUTTING-OFF MACHINES****LAYOUT**

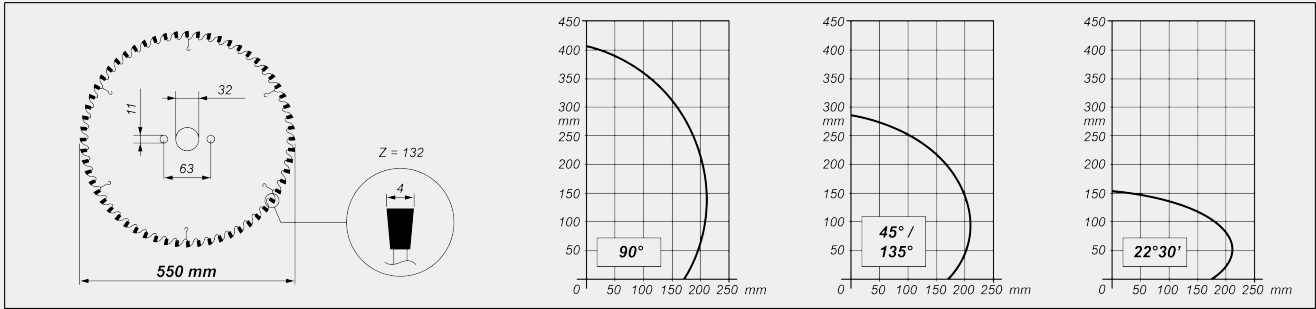
The overall dimensions may vary depending on the product configuration.

MACHINE CHARACTERISTICS

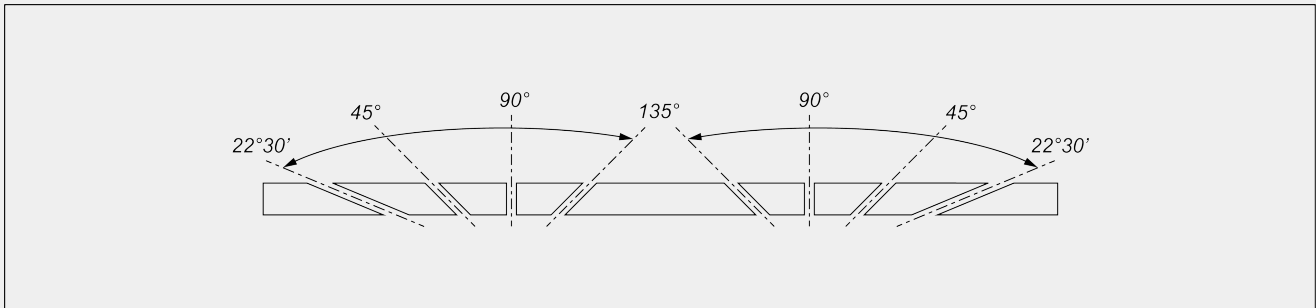
Electronic control of the X axis	●
X axis positioning speed (m/min)	25
Mobile head position reading with absolute magnetic strip direct measuring system	●
Electronic head tilting	●
Electronic control of intermediate angles	●
Detection of cutting unit tilting through direct measurement system with absolute magnetic strip	●
Maximum internal inclination	45°
Maximum external inclination	22°30'
Hydropneumatic blade feed	●
Adjustable blade feed rate	●
Cemented carbide blade	2
Blade diameter (mm)	550
Blade motor power (kW)	2,2
Electronic profile thickness gauge	○



CUTTING DIAGRAM



CUTTING UNIT TILTING



Electronic adjustment of intermediate angles

SAFETY DEVICES AND PROTECTIONS

Pneumatically-operated front local protection

PROFILE POSITIONING AND CLAMPING

- Pair of horizontal pneumatic vices with "low pressure" device
- Vertical gripping system for push cutting with horizontal clamp
- Pair of horizontal vertical vices
- Pair of additional horizontal vices
- Manually positioned profile intermediate supports **1**
- Roller conveyor on mobile head (mm) **2.000**
- Additional vice for profile support on roller conveyor



LUBRICATION AND SUCTION

Micro-mist lubrication system with water and oil emulsion	<input checked="" type="radio"/>
Preparation for automatic start-up of external exhauster	<input checked="" type="radio"/>
Swarf and short cuts extractable drawers without scraper system for swarf removal	6
Dredging system for swarf discharge	<input type="radio"/>
Swarf and short cuts extractable drawers with scraper system for swarf removal	2

FUNCTIONS

Perform single cuts	<input checked="" type="radio"/>
Execution of intermediate angles cuts	<input type="radio"/>
Execution of cyclical cuts from cutting lists	<input type="radio"/>
Special cut function PRO (longer, shorter and chamfered)	<input type="radio"/>
Semi-automatic cut function SLICE (thrust cut)	<input type="radio"/>
Cutting lists import	<input type="radio"/>

Included ● Available ○