

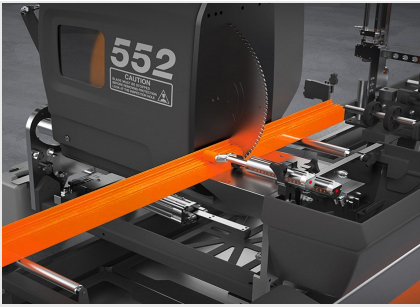


TKE 552

Twin Head Cutting-Off Machines



Twin-head cutting-off machine with automatic mobile head movement driven by an NC-controlled brushless motor. Pneumatic tilting of cutting units from 90° to 22°30' (outward) in two fixed positions or with optional mechanical adjustment system for intermediate angles. Hydro-pneumatic blade feed.



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.



Head Guards

The machining zone is protected by two automatically positioned local guards installed on the cutting units. The guards are made of scratch-proof polycarbonate and they are opened/closed automatically by a pneumatic cylinder at the appropriate points of the cutting cycle.



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.



Intermediate tilting adjustment (Optional)

The standard version allows performing cuts at 45° and 22°30' by mechanically presetting the end stops. An optional system is provided for tilting manual adjustment of cutting units to any intermediate angles by means of a manual handwheel, which is particularly useful when performing out-of-square cuts.



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. The mechanical set-up for installation may vary according to the machine models.



**TKE 552 / TWIN HEAD CUTTING-OFF MACHINES****MACHINE CHARACTERISTICS**

Electronic control of the X axis	<input checked="" type="checkbox"/>
X axis positioning speed (m/min)	25
Mobile head position reading with absolute magnetic strip direct measuring system	<input checked="" type="checkbox"/>
Pneumatic head tilting	<input checked="" type="checkbox"/>
External tilting	45° / 22°30'
Mechanical adjustment of intermediate angles	<input type="checkbox"/>
Hydropneumatic blade feed	<input checked="" type="checkbox"/>
Adjustable blade feed rate	<input checked="" type="checkbox"/>
Effective cut, according to model (mm)	5.000
Cemented carbide blade	2
Blade diameter	550
Blade motor power (kW)	2,2
Electronic profile thickness gauge	<input type="checkbox"/>

SAFETY DEVICES AND PROTECTIONS

Pneumatically-operated front local protection	<input checked="" type="checkbox"/>
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PROFILE POSITIONING AND CLAMPING

Pair of horizontal pneumatic vices with "low pressure" device	<input checked="" type="checkbox"/>
Pair of horizontal vertical vices	<input type="checkbox"/>
Pair of additional horizontal vices	<input type="checkbox"/>
Manually positioned profile intermediate supports	1
Roller conveyor on mobile head (mm)	2.000
Additional vice for profile support on roller conveyor	<input type="checkbox"/>

LUBRICATION AND SUCTION

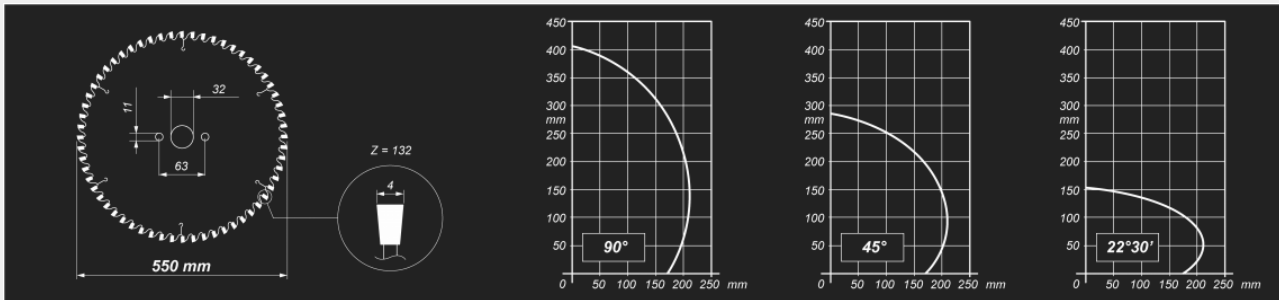
Micro-mist lubrication system with water and oil emulsion	<input checked="" type="checkbox"/>
Preparation for automatic start-up of external exhauster	<input checked="" type="checkbox"/>
Removable swarf and short cut collection drawers	6
Dredging system for swarf discharge	<input type="checkbox"/>



FUNCTIONS

- Perform single cuts
- Execution of intermediate angles cuts
- Execution of cyclical cuts from cutting lists
- Special cut function PRO (longer, shorter, chamfered or wedge cut)
- Semi-automatic cut function SLICE (thrust cut)
- Cutting lists import

CUTTING DIAGRAM



Included ● Available ○