



TKE 552

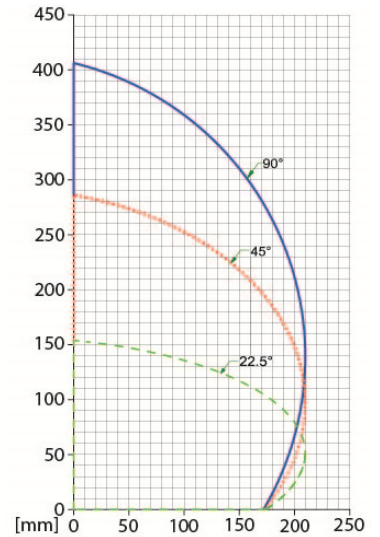
twin-head electronic horizontal blade cutting-off machine

Profile Clamping 01

Head Guards 02



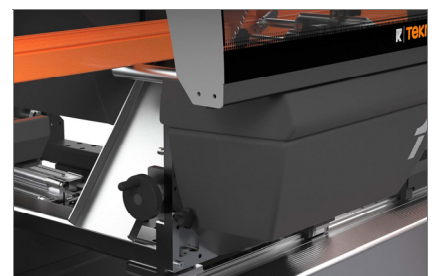
Twin-head cutting-off machine with automatic mobile head movement driven by an NC-controlled brushless motor. Pneumatic tilting of cutting units from 90° to 22°30' (outward) in two fixed positions or with optional mechanical adjustment system for intermediate angles. Hydro-pneumatic blade feed



Control 03

Load and unload 04

Mechanical adjustment of intermediate angles (optional) 05



The images are only given for illustrative purposes

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Twin-head horizontal blade cutting-off machine

01 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.

02 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.

03 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.

04 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 clamp 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.

05 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.

MACHINE CHARACTERISTICS

Electronic control of the X axis	•
X axis positioning speed	25 m/min
Mobile head position reading with absolute magnetic strip direct measuring system	•
Mechanical adjustment of intermediate angles	○
External tilting	45° / 22°30'
Pneumatic head tilting	•
Adjustable blade feed rate	•
Hydropneumatic blade feed	•
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	○
Frontally sliding control panel on guides	•
SAFETY DEVICES AND PROTECTIONS	
Pneumatically-operated front local protection	•
PROFILE POSITIONING AND CLAMPING	
Pair of horizontal pneumatic clamps with "low pressure" device	•
Pair of horizontal vertical clamps	○
Pair of additional horizontal clamps	○
Manually positioned profile intermediate supports	1
Roller conveyor on mobile head (2,000 mm)	•
Additional clamp for profile support on roller conveyor	○
LUBRICATION AND SUCTION	
Micro-mist lubrication system with water and oil emulsion	•
Minimal oil diffusion lubrication system	○
Preparation for automatic start-up of external exhauster	•

• included