

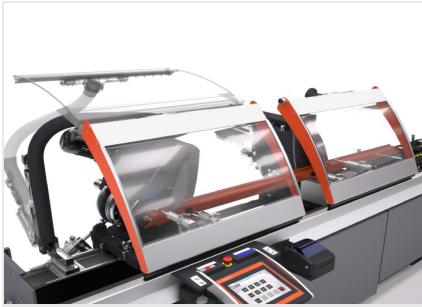


## **TKE 551**

### **Twin Head Cutting-Off Machines**

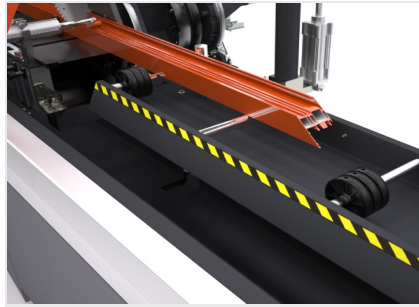


The 551 model is positioned as “entry level” , although guaranteeing innovation and advanced performance. It is simplified but only where necessary, all for the benefit of pricing/competitiveness in the market. The inclination of each head, up to 22°30' outwards, takes place via two circular guides positioned on four pairs of steel rollers. This solution, subject to patent, allows you to eliminate any cutting area obstruction, with the advantage of positioning and blocking the profile and offers greater rigidity to traditional systems. Positioning via absolute magnetic band eliminates the necessity of the axes reference and connected cycle times.



### Head protections

Automatic local head protections, made of scratch-resistant polycarbonate, are operated by a pneumatic cylinder with an anti-crushing device that resets the pneumatic load to zero when closing. They are mounted on a laterally sliding system to better shelter the operator in any cutting operation.



### 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.



### Cutting units inclination virtual axis

Inclination of each head, up to 22°30' outwards for both the aluminium and PVC machine versions, is achieved on two circular guides mounted on four pairs of steel rollers. This patented solution makes it possible to eliminate obstructions in the cutting area, all to the benefit of profile positioning and clamping, while also offering greater rigidity than traditional systems.



### Profile clamping

Making use of the ample space provided by the use of the virtual axis, clamping of the profile to be cut is performed 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.



### Control

The intuitively designed control panel allows correct mobile heads positioning in accordance with the required cutting schedule. The interface uses a 5.7" touch-screen and fully personalised software and is packed with bespoke functions that are unique to this machine. The control panel can be optionally installed on bearings sliding on a rail that spans the entire front of the machine.

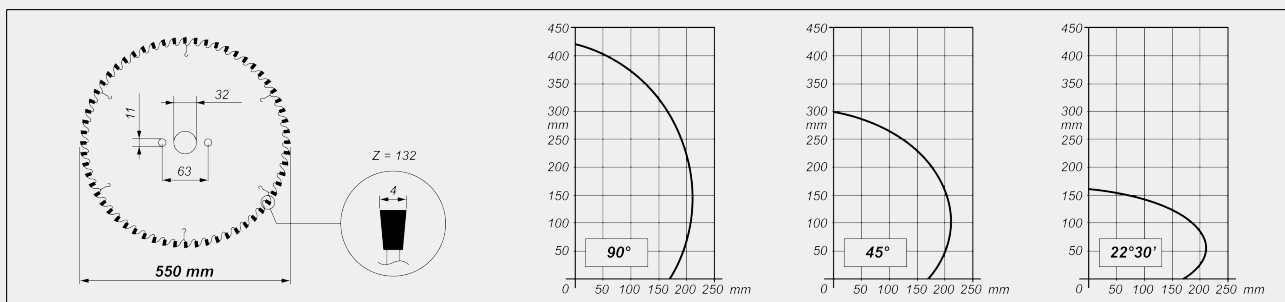


### Printer preparation (Optional)

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 551 / TWIN HEAD CUTTING-OFF MACHINES****MACHINE CHARACTERISTICS**

Electronic control of the X axis	●
X axis positioning speed (m/min)	25
Mechanical adjustment of intermediate angles	●
Mobile head position reading with absolute magnetic strip direct measuring system	●
Maximum external inclination	22°30'
Hydropneumatic blade feed	●
Effective cut, according to model (mm)	4.000 / 5.000
Cemented carbide blade	2
Blade diameter (mm)	550
Blade motor power (kW)	2,2
Electronic profile thickness gauge	○

**CUTTING DIAGRAM****CUTTING UNIT TILTING**

Mechanical 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 ●

Pair of horizontal vertical vices ○

Pair of horizontal offset vices for cut &lt;45° ○

Intermediate mechanical profile supports 3

Roller conveyor on mobile head (mm)

1.850

**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 ●

**FUNCTIONS**

Perform single cuts ●

Execution of intermediate angles cuts ●

Execution of cyclical cuts from cutting lists ○

Special cut function PRO (longer, shorter, chamfered and wedge cut) ○

Semi-automatic cut function SLICE (thrust cut) ○

Cutting lists import ○

Included ● Available ○