TKE 158 S

Copy Router

Single-head manual-control copy router with pneumatic locking system and head traversing movement controlled by an indirect lever. Ability to work steel up to 2 mm and stainless steel (optional) up to 2 mm. Equipped with a rotating surface clamp table system, the machine works 4 profile faces without releasing the clamp or carrying out machining passing, performing a rotation of 270° to 90° sectors Four pneumatic stops ensure locking. Pneumatic protection of the work area. The rotation device makes it possible to increase the processing speed and the level of precision, use shorter tools, eliminate passing machining and reduce vibrations and noise.

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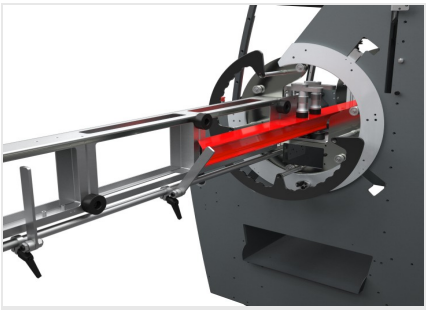
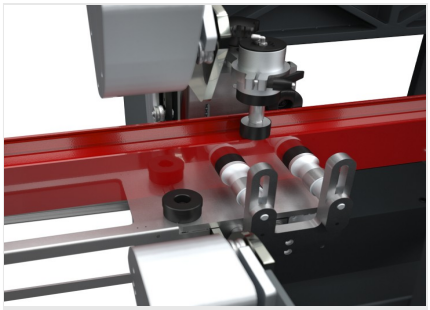


Workpiece rotation

Via the release control on the console, the slewing ring with rotary movement can be moved manually and blocked in 4 preset positions by pneumatic stops, for processing to be performed on the other sides of the profile.

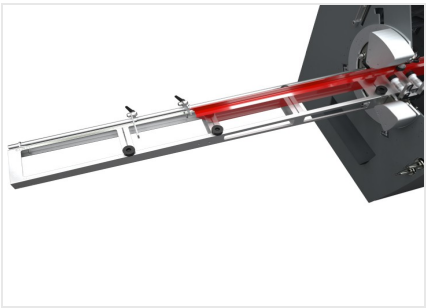
Control joystick

The lever allows performing the vertical movement of the milling unit. A motor starter button is found on the joystick. The electrospindle has a tool holder with an ISO 30 quick coupling; there are 4 housings on the sides of the machine for 4 toolholders.



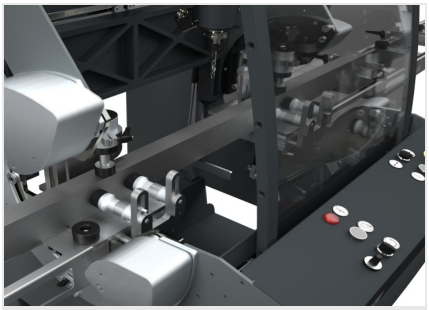
Vices

The machine has pneumatically-controlled horizontal and vertical vices with low pressure device and can be regulated manually, which assure the correct blocking of the profile in the machine.



Stop devices and roller conveyors

The roller conveyors positioned on the right and left support the machining of the very long profiles. Moreover, a system of manually-regulated stop devices, also on the right and left, allows positioning the workpiece in the machine correctly, taking it to the work area.



Control with inverter

The control panel allows the machine to be activated, the motor to be switched on and the vices to be opened and closed. The presence of the inverter allows the motor revs to be changed by means of a potentiometer on the console. An optional air-cooling system at -20°C allows stainless steel to be processed up to a thickness of 2 mm.

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TKE 158 S / COPY ROUTER

CHARACTERISTICS

Motor with inverter (kW)	1,1
Tool speed (rpm)	1.000 ÷ 10.000
Travel (X-Y-Z) (mm)	380 – 150 – 250
Vices capacity at 90° (mm)	140 x 120
Horizontal vices with dual hold-down and low pressure device	2
Vertical vices with low pressure device	2
Pair of vertical vices with low pressure device on side brackets	○
Rapid tool change	ISO 30
Max. tool diameter (mm)	10
Max. tool length (mm)	95
PVC adjustable vice jaws	●
One tooth end-mill (mm)	Ø = 5 - 10
Mill-holder collet complete with lock-nut (mm)	Ø = 5/6 – 9/10
Indirect head translation lever	●
4-diameter sensor	Ø = 5 - 6 - 8 - 10
Tool speed adjustment potentiometer	●
Micro-mist lubrication system with water and oil emulsion	●
Injection lubrication system	○
Air refrigeration system (temperature reduction of 30°C at 6 bar compared to the inlet air temperature) and lubrication with 1 injection nozzle, for applications with dry machining tools	○
Laser pointer	○
Template with standard figures	●
Right and Left profile-supporting shelves with 4 excludable stops	●
Central stop that slides along linear guides	●
Tool holder storage built into the base, holds 4 tools	●
Head movement along precision linear guides	●

Included ● Available ○

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