

Bar feeder

01

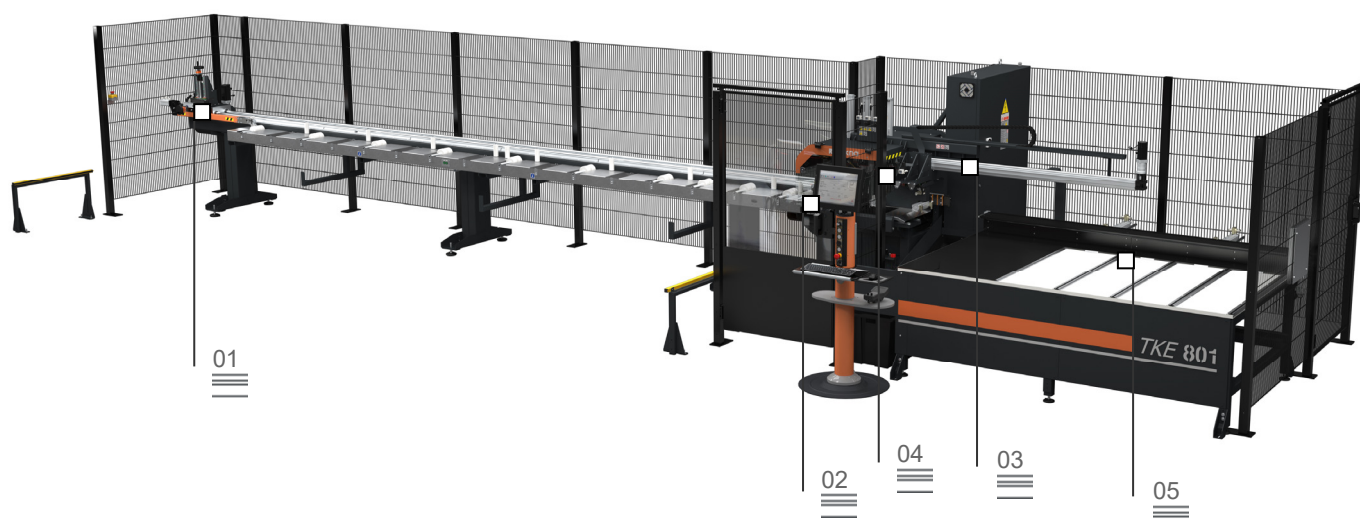


Control

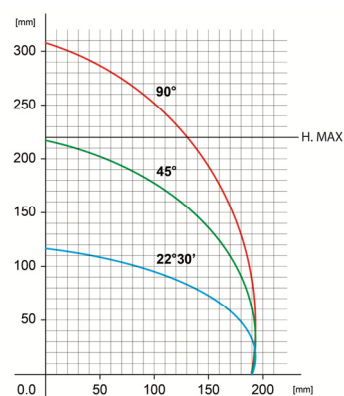
02

## TKE 801

Cutting-off centre



Automatic CNC cutting-off centre with horizontal blade feed, 3 controlled axes, designed for cutting profiles made of aluminium, PVC, light alloys in general. It performs automatic cutting according to predefined and optimized cutting lists. It can perform the bevelled cut on both sides of the profile. This machine is intended to perform cutting at an angle from  $45^{\circ}$  to  $135^{\circ}$ , or from  $22^{\circ}30'$  to  $157^{\circ}30'$ , and manual loading with automatic unloading magazine on the opposite side. It can be fitted with customised horizontal or vertical drilling units for specific automatic machining operations.



Ejector

03



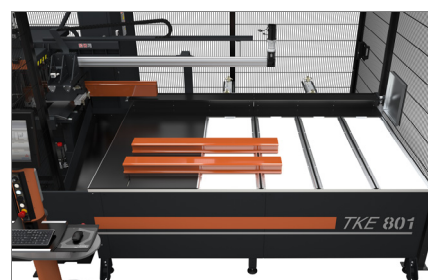
Cutting module

04



Unloading magazine

05



The images are only given for illustrative purposes

# TKE 801

Cutting-off centre

## 01

### Bar feeder

The extremely fast and precise numerical control system (CNC) for bar positioning includes a gripper for clamping the profile and the possibility to manually adjust the position. The movement is transmitted on a rack through a low backlash gearbox to maintain the high standards of precision guaranteed by the CNC. The feeder slides on case-hardened and tempered bars through linear bushings.

## 02

### Control

The operator interface with 15" touchscreen display has a network connection, USB ports and a floppy disk drive for communicating with external devices. It also features a built-in control panel, mouse and keyboard, it is preset for the installation of a label printer and connection to a remote control panel. The control is managed by the Windows operating system under which the Job and Blade software packages are installed: Job is designed for the job editor and optimizing cutting lists; Blade, installed alongside Job, controls the machine's operations and manages the machining processes.

## 03

### Ejector

The ejector controlled by the CNC grips the workpiece during machining and, once completed, shifts it from the cutting area to the unloading magazine, holding it in the same position so as to facilitate the subsequent machining phases. Motion is transmitted by means of a toothed belt and secure gripping of the workpiece is ensured by pneumatic cylinders.

## 04

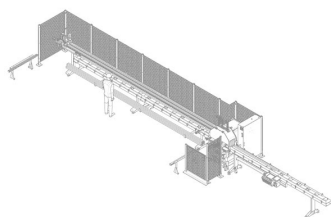
### Cutting module

The cutting module consists of a single-head cutting off machine with hydro-pneumatic blade feed. It is provided with a 550 mm blade featuring wide cutting range: from 45° to 135° (from 22°30' to 157°30' optional). Setting of the cutting angles is fully automatic and is handled by the CNC.

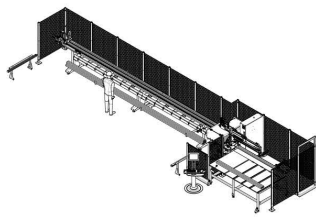
## 05

### Unloading magazine

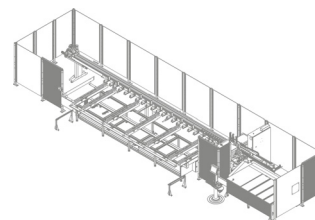
The workpiece unloading magazine has an automatic tilting and moving system that enables machining to be performed continuously, thus reducing the cycle time. In addition, the magazine allows finished workpieces to be stacked while a sensor, which emits a signal when the magazine is full, supervises system operation.



TKE 800



TKE 801



TKE 802

#### AXES TRAVELS

U AXIS (feeder) (mm)	7.500
X AXIS (mm)	1.000
B AXIS (angle of blade)	45° + 135° - 22° + 30° - 157° + 30°

#### WORK AREA

Max. loadable profile length	6.850
Theoretical minimum cutting length (mm)	0
Max. profile length that can be unloaded automatically (mm)	2.500

#### BLADE

Diameter	550
Hydro-pneumatic feed	•

#### CUTTING AREA GUARD

Integral with pneumatic control	•
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#### LUBRICATION SYSTEM

Spray-mist with oil emulsion	•
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#### CLAMPS

Vertical pneumatic clamps	3
Horizontal pneumatic clamps with pressure reducer plus pressure gauge	•
Clamp pressure reduction with pressure gauge	•

#### MOTOR

Power rating (kW), three-phase blade drive motor	3
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#### PRE-SET FOR SWARF EXHAUSTER

MG2-MG4	optional
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