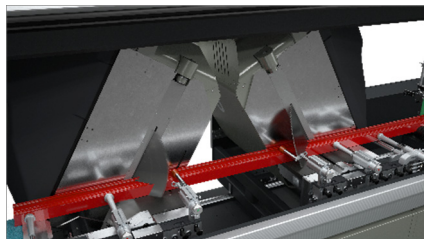


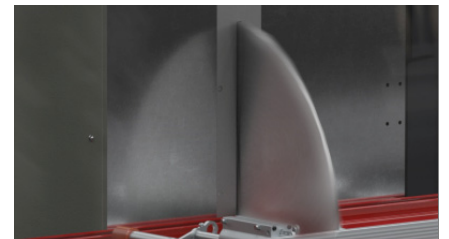
Compound Cut

electronic twin-head cutting-off machine with horizontal blade for compound cut



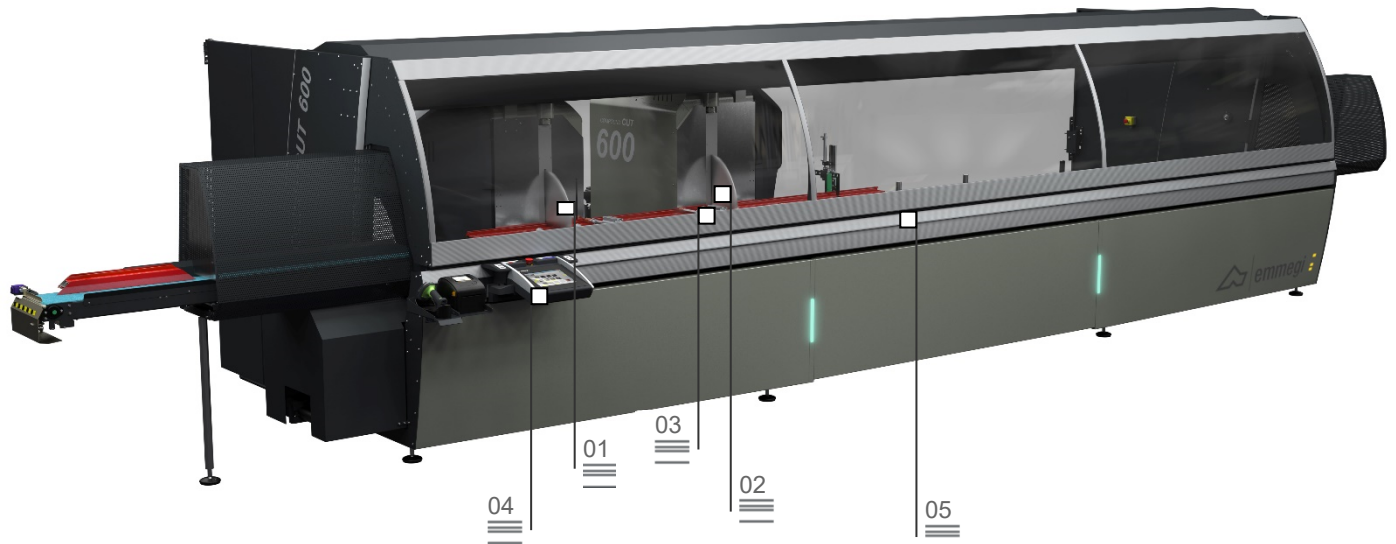
Combined cut

01



Blade feed on 2 axes

02



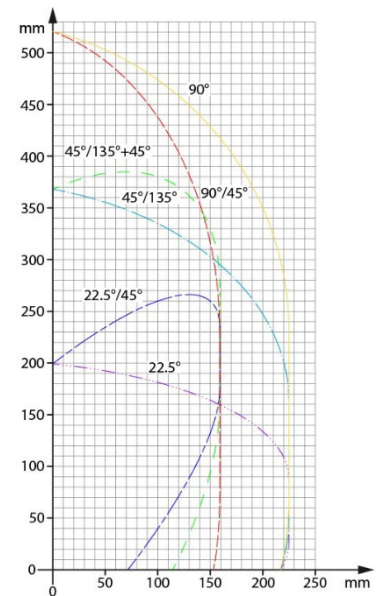
Twin-head cutting-off machine with 9 controlled axes which include the automatic movement of the mobile head, electronic management of two rotation axes of the cutting units, blade feed and vertical translation of the cutting units to maximise the work area.

It allows reaching angles from 45° (internally) to 22°30' (externally) on horizontal axis and from 0 to 45° on vertical axis with decimal cutting precision.

The feed of 600 mm width blades can be carried out on two axes, optimising the cutting chart in the vertical direction, to cut profiles more than 500 mm in height and ensure an optimal adjustment of blade exit speed and stroke.

The HS (High Speed) version has a higher speed X axis and all the protections required for automatic machining operations, also with the machine unattended.

Cutting chart



Profile clamping

03

Control

04



HS – High Speed

05



Compound Cut

electronic twin-head cutting-off machine with horizontal blade for compound cut

01

Combined cut

The inclination of each head, up to 22°30' outwards, is obtained by means of a mechanical transmission with high-precision gear motor and brushless motor with absolute encoder. The tilting is performed by means of an electric actuator with recirculating ball screw and brushless motor. To ensure an optimal positioning, the positioning accuracy is checked upstream of the kinematic transmission chain, through a rotary absolute encoder.

02

Blade feed on 2 axes

The blade feed is carried out on two axes. The vertical translation, associated with the blade exit movement, increases the cutting chart height dimension significantly, allowing for maximum use of the large diameter of the blade. The tool trajectory is managed by the software based on the cutting program, on the profile and on the head inclination.

03

Profile clamping

The machine is equipped with a system with clamps that swings horizontally and, by means of horizontal hold-down devices, clamps the profile for an extremely precise cut. For vertical clamping, particularly for special cuts, the machine can be equipped with a patented system of horizontal hold-down devices. Compound Cut is equipped with a roller conveyor on the mobile head, for standard loading and unloading and intermediate pneumatic supports of the bar.

04

Control

The ergonomic state-of-the-art control panel features a 10.4" touchscreen display and fully customised software and is packed with functions developed in the Microsoft Windows® environment specifically for this machine. The machining cycle can be optimised by creating cutting lists, thereby reducing scrap and cycle times for parts loading-unloading.

05

HS – High Speed

The HS – High Speed version is equipped with a faster X axis (mobile head positioning), and features an integral protection on the sides and at the back, to operate in complete safety, increasing productivity. The safety characteristics of this version, fully inaccessible during operation, allow using automatic cutting cycles, even not supervised, at maximum operational performance.

MACHINE CHARACTERISTICS

Electronic control of the X axis	•
Standard X axis positioning speed (m/min)	20
HS version X axis positioning speed (standard) (m/min)	30
Mobile head position reading with absolute magnetic strip direct measuring system	•
Cutting unit inclination detection with absolute encoder	•
Electronic control of intermediate angles	•
Maximum internal inclination	45°
Maximum external inclination	22°30'
Max internal tilting angle	45°
Effective cut, according to model (m)	5 / 6
Maximum profile width that can be clamped (mm)	225
Maximum profile height that can be clamped (mm)	180
Standard minimum cut with 2 heads at 90° (mm)	530
Standard minimum cut with 2 heads at 45° internally (mm)	1,270
Standard minimum cut with 2 heads at 45° externally (mm)	560
Standard minimum cut with 2 heads at 22°30' externally (mm)	640
Minimum cut with PRO software with 2 heads at 90° (mm)	340
Minimum cut with PRO software with 2 heads at 45° internal (mm)	1,130
Minimum cut with PRO software with 2 heads at 45° externally (mm)	370
Minimum cut with PRO software with 2 heads at 22°30' externally (mm)	450
Maximum theoretical profile height with 90° standard cut (mm)	520
Maximum theoretical profile height with 45° standard cut (mm)	365
Cemented carbide blade	2
Blade diameter	600
Blade motor power (kW)	3.6
Electronic profile thickness gauge	○

SAFETY DEVICES AND PROTECTIONS

Electrically operated fully enclosed front guarding	•
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PROFILE POSITIONING AND CLAMPING

Pair of horizontal pneumatic clamps with "low pressure" device	3
Pair of horizontal vertical clamps	○
Pair of additional horizontal clamps	○
Pair of horizontal offset clamps for cut <45°	•
Stop blade on fixed head for minimum cut	•
Additional clamp for profile support on roller conveyor	○
Roller conveyor on the mobile head with servo-controlled pneumatically operated profile supports	•
Conveyor belt for step-by-step or automatic cut (HS version only)	•
Auxiliary support surface on mobile head	•
Auxiliary support surface on fixed head	•

• included ○ available