V-Cut
Production system

CNC cutting centre with 3 controlled axes, designed for cutting profiles made of aluminium, PVC, light alloys in general. V-Cut loads the extruded section and cuts it, then unloads the finished part all in fully automatic mode without need for operator attendance.

The powerful and versatile software can handle predefined cutting lists, optimizing them to minimize wastage. The cutting head allows cutting at +/- 22°30’ and intermediate angles.
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Production system

01 Bar positioning
The high speed, precision bar positioning system is complete with gripper for clamping the profile (gripper position adjustment is manual; optionally it can be with CNC).

02 Loading magazine
Loading magazine with automatic bar feeding (pilgrim step mechanism), able to accommodate profiles with max. length 7.2 metres and min. length 3.0 metres. Loading capacity 16 bars with feed pitch 120 mm and 9 bars with feed pitch 200 mm. Max. loadable weight 500 Kg.

03 Cutting module
Single head cutting-off machine with hydropneumatic horizontal blade feed, provided with a 550 mm blade featuring a wide cutting range: from 22°30’ to 157°30’. Setting of the cutting angles is performed fully automatically by the CNC.

04 Brush unit
A cleaning and deburring system is provided for just workpieces cut at 90° using rotary metal wire brushes.

05 Unloader/storage unit
Unloader and storage unit for finished parts, with large capacity, available in two versions: for workpieces up to 4.0 metres in length or, alternatively, for workpieces up to 7.5 metres in length.

<table>
<thead>
<tr>
<th>AXIS TRAVEL</th>
<th>POSITIONING SPEED</th>
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<tbody>
<tr>
<td>U axis (bar positioning)</td>
<td>7000</td>
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<tr>
<td>U axis (rpm)</td>
<td>80</td>
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FUNCTIONS
Cutting and separating the piece directly from the bar

PROFILE POSITIONING
Automatic positioning and unloading

SAFETY DEVICES AND GUARDS
Metal mesh enclosure guard on three sides

CONTROL UNIT
Electrical cabinet with air conditioner
Pneumatic control panel
CNC-PC with Intel® processor
15” LCL-TFT graphic colour monitor
Keyboard
RAM : 256 Mb
Hard disk, min. 20 Gb
3.5” floppy disk drive, 144 Mb
Cd Rom

CUTTING UNIT
Hydro-pneumatic blade feed
Carbide-tipped blade dia. 550 mm