Vegamatic

CNC cutting centres



A semiautomatic version cutting centre with 2 controlled axes, manual loading/unloading on opposite sides of the machine, with front CNC blade, dedicated to cutting Aluminium and PVC profiles and light alloys in general. It performs predefined and optimised cutting lists in automatic. Designed to execute cutting at angles ranging from 45° to 135° or from 22°30' to 157°30'. Configurable with horizontal or vertical drilling units that can be personalised for specific automatic machining.

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The right to make technical alterations is reserved.



Bar feeder

The extremely fast and precise CNC numerical control system 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.



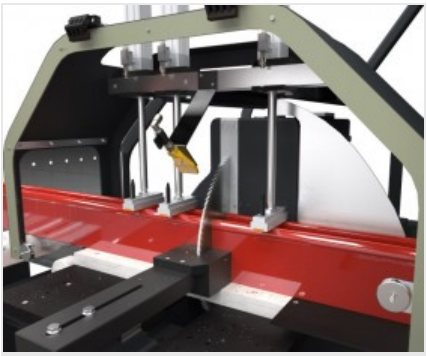
Profile offset

Vegamatic features an automatic profile offset device, which allows the profiles to be detached from the references during translation, so as to prevent damage or scoring of the profiles.



Loading/unloading roller conveyor

Vegamatic loads and unloads the profiles on the right roller conveyor with a great advantage for operational convenience: the feeder retrieves the bar directly from the loading/unloading roller conveyor by overtaking the cutting module and moves it overhead to the left roller conveyor. At this point it begins to perform machining, returning the finished parts directly to the loading/unloading roller conveyor. The rollers are covered with PVC.



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: ffrom 45° to 135° or from 22°30’ to 157°30’ (based on model). Setting of the cutting angles is fully automatic and is handled by the CNC.



Control

The operator interface with colour LCD screen is equipped with network connection and USB ports. It also features a built-in control panel, keyboard and mouse. Possibility to install the label printer. 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.



Label printer (Optional)

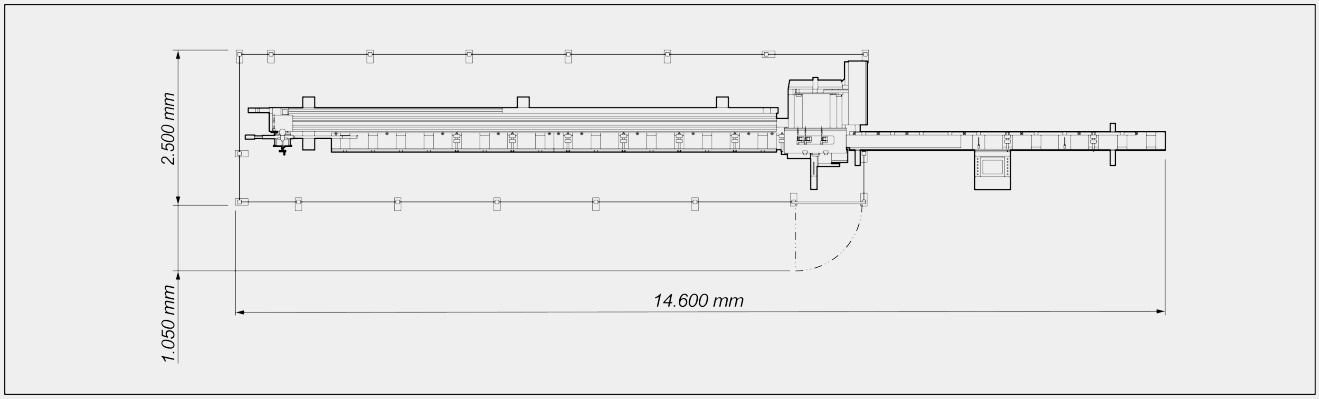
The industrial label printer allows each cut profile to be identified with identifying features from the cutting list. In addition, barcode printing enables easy identification of the profile itself, which is particularly useful for subsequent machining steps on Machining Centres or assisted assembly lines.

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LAYOUT



The overall dimensions may vary depending on the product configuration.

AXIS STROKES

B AXIS (angle of blade) (according to version)	45° ÷ 135° ; 22°30’ ÷ 157°30’
U AXIS (feeder) (mm)	7.500

LOADING UNIT: PROFILE POSITIONING

Infeed roller conveyor	●
Max. loadable profile length (mm)	7.200
Max. loadable profile width (mm)	190
Theoretical minimum cutting length (mm)	0
Minimum machinable profile section (mm)	30 x 30

CUTTING UNIT

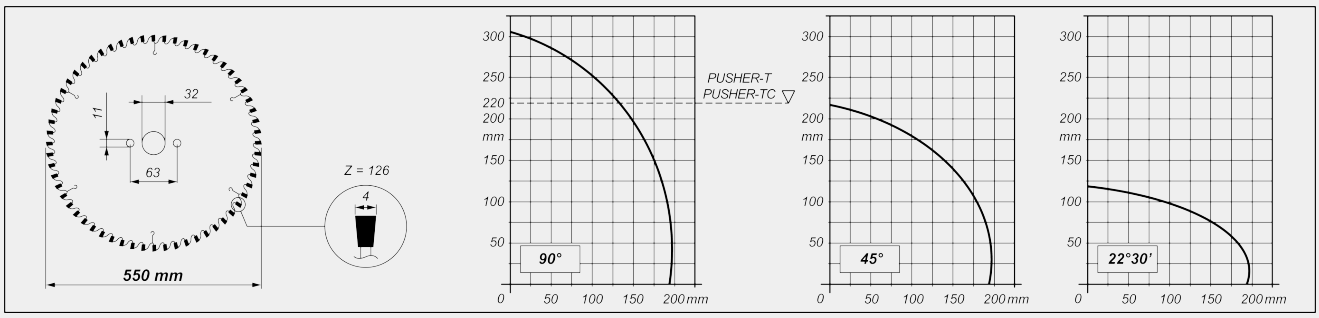
Blade diameter at carbide-tipped (mm)	Ø = 550
Hydro-pneumatic blade feed	●
Minimal oil diffusion lubrication system	●
Power rating (kW), “three-phase” blade drive motor	3
Pre-set for swarf exhauster	●

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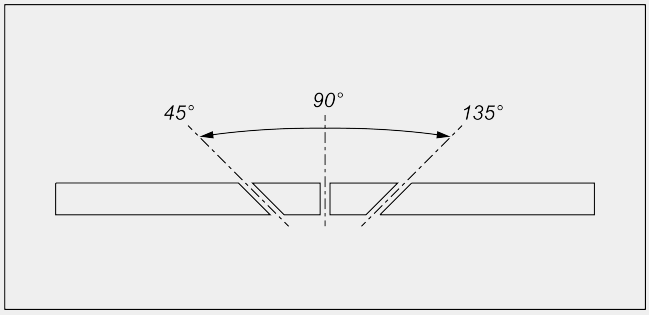
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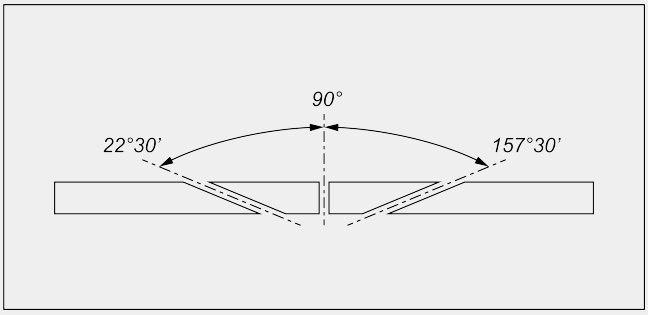
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CUTTING DIAGRAM



CUTTING UNIT TILTING





Electronic adjustment of intermediate angles

UNLOADING UNIT

Unloading on infeed roller conveyor	●

SAFETY DEVICES AND PROTECTIONS

Cutting area pneumatically-controlled integral protection	●

WORKPIECE LOCKING

Vertical pneumatic vices	3
Pair of horizontal pneumatic vices with pressure reducer plus pressure gauge	●
Vice pressure reduction with pressure gauge	●

Included ● Available ○

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