Vegamatic Pusher TC
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° to 135°. Automatic belt loading magazine or, optionally, with back-step system; automatic unloading magazine on the opposite side. It can be fitted with customised horizontal or vertical drilling units for specific automatic machining operations.
The machine can feature a back-step or belt loading magazine with automatic bar positioning, which can house profiles having a maximum length of 7.5 metres. The back-step magazine is especially suitable for loading profiles having a section which makes it difficult to keep a stable position during transport. In case of stable profiles, the belt loading magazine allows maximum flexibility and capacity.

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 has a built-in control panel, mouse and keyboard, and is preset for iButton for the installation of a label printer and connection to a remote control panel. The control is managed by the Windows 2000 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.

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.

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°. Setting of the cutting angles is fully automatic and is handled by the CNC.

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.