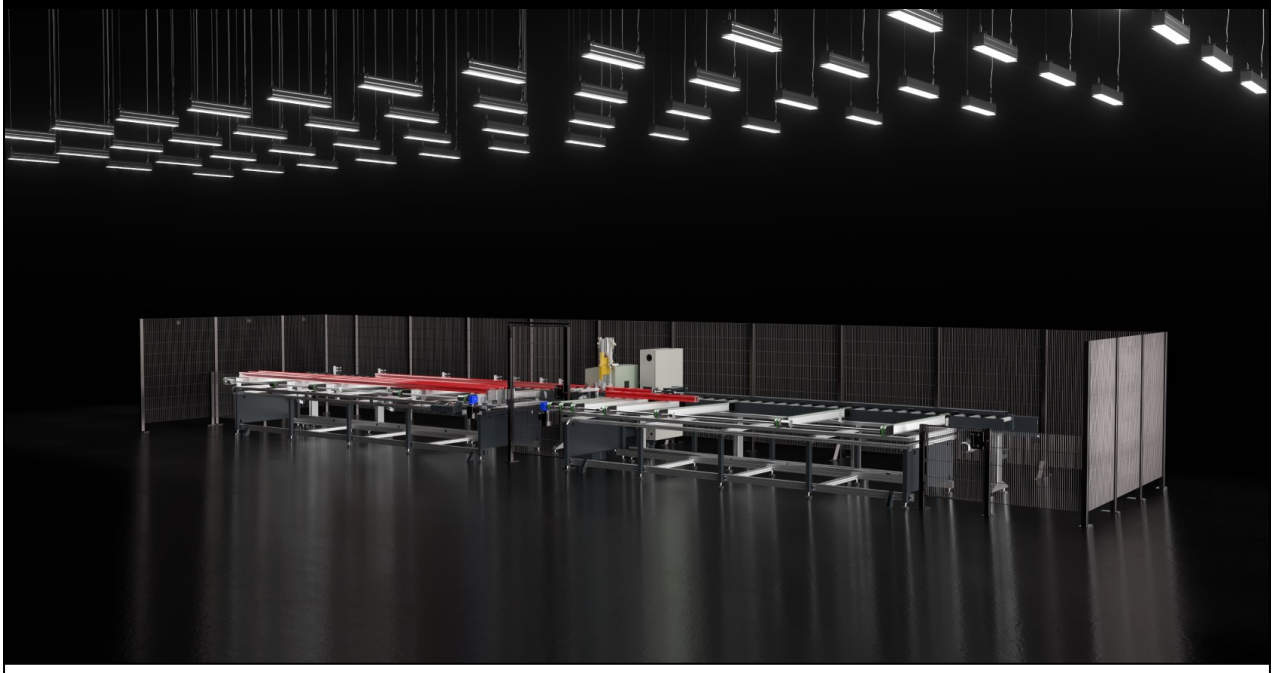
VEGAPACK

THROUGH FEED SAWING CENTERS

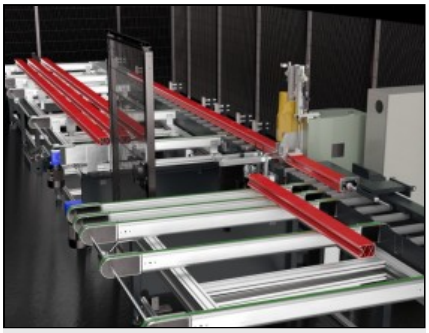


A 90° cutting centre built exclusively to cut aluminium profile bundles. The centre is composed of several interconnected units which allow a single operator to manage the entire work cycle, from the loading to the unloading phase of the custom-cut bundles. Aided by an optional copy router lift, the operator places the bundles on the step-by-step accumulation-operated loader bench (max. 4-5 bundles). A motor-driven roller then brings the bundle onto the cutting unit, which carries out an initial trimming of the bundle and then the subsequent customised cutting (work cycle set by software). Cutting swarf is discharged automatically by displacement of the central roller conveyor applied to the cutting unit. The pieces cut off from the bundle are evacuated from the cutting zone by the unloading table roller and picked up by belts to be unloaded manually by the operator.

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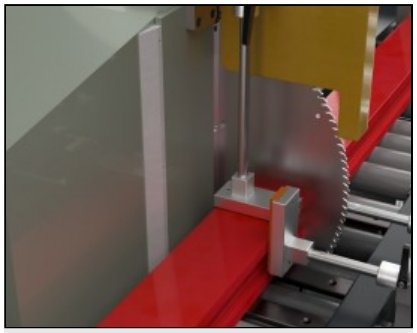
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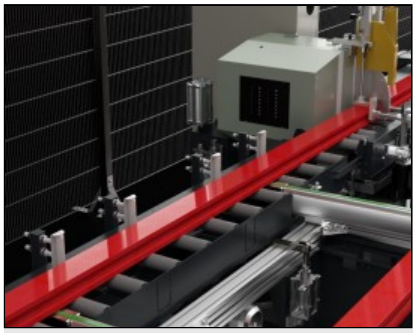
Loading/unloading magazine

The workpiece loading and unloading magazine is equipped with an automatic belt-driven translation system with sensor-regulated step-by-step accumulation operation. This enables continuous machining, reducing cycle time.



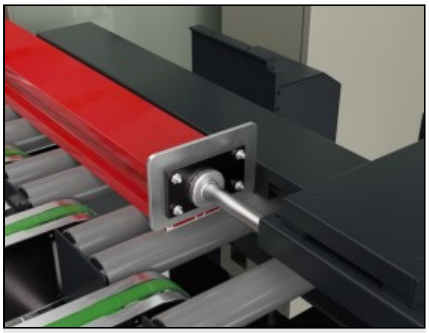
Cutting unit

The cutting unit consists of a single-headed, front-mounted, hydro-pneumatically actuated cutting-off machine, equipped with a 550 mm Widia blade with a 90° cut. The machining cycle can be optimised by creating cutting lists, thereby reducing scrap and cycle times for workpieces loading-unloading.



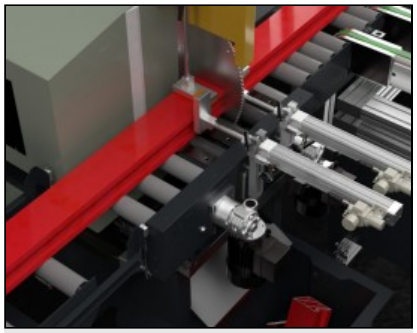
Motorised roller conveyor

A motorised roller conveyor, controlled by sensors, enables the movement of the bundles from the loading magazine to the cutting unit and finally to the unloading of the cut workpieces. In the basic version of the machine, without a loading magazine, the roller conveyor is the loading area for the profile bundle.



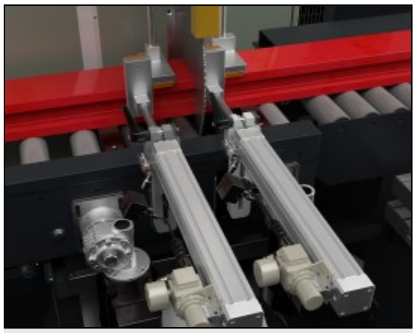
Reference stop

The reference stop is mounted on a carriage with numerically controlled (CNC) positioning. The material being processed is pulled over by motorised rollers and clamped with horizontal and vertical vices to make the cut to size.



Automatic swarfs unloading

Cutting swarfs are automatically evacuated by the special central roller conveyor, located between the loading and unloading areas, attached to the cutting unit. At the time of unloading the workpieces, the roller conveyor slides off, dropping the waste material into a container below. In case the blank is too long, it is evacuated regularly to the unloading magazine.



Vices

The machine has pneumatically-controlled horizontal and vertical vices with pressure measurement to adjust and check the correct pressure on the profile. Vices can be manually positioned to ensure that the profile is correctly clamped in the machine.

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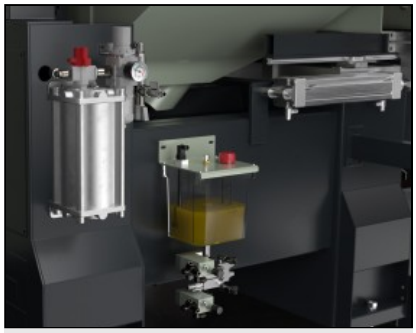
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Control

The control console has been designed to manage the machine operational functions through an efficient, simple and intuitive interface. The use of the machine by the operator is guided and facilitated through light signals and messages on the 6” touchscreen colour graphic display. The console is equipped with an Ethernet port for network connection and a USB port for local data transfer.



Lubrica lubrication system

Lubrication system with minimal diffusion of cutting fluid that ensures proper lubrication and heat dissipation on the tool being machined. The frequency of the pumping pulses is manually adjusted by means of a timer; the flow rate of each pulse, visible by means of a graduated rod, can be set by manually acting on the knurled nut of each individual pump.

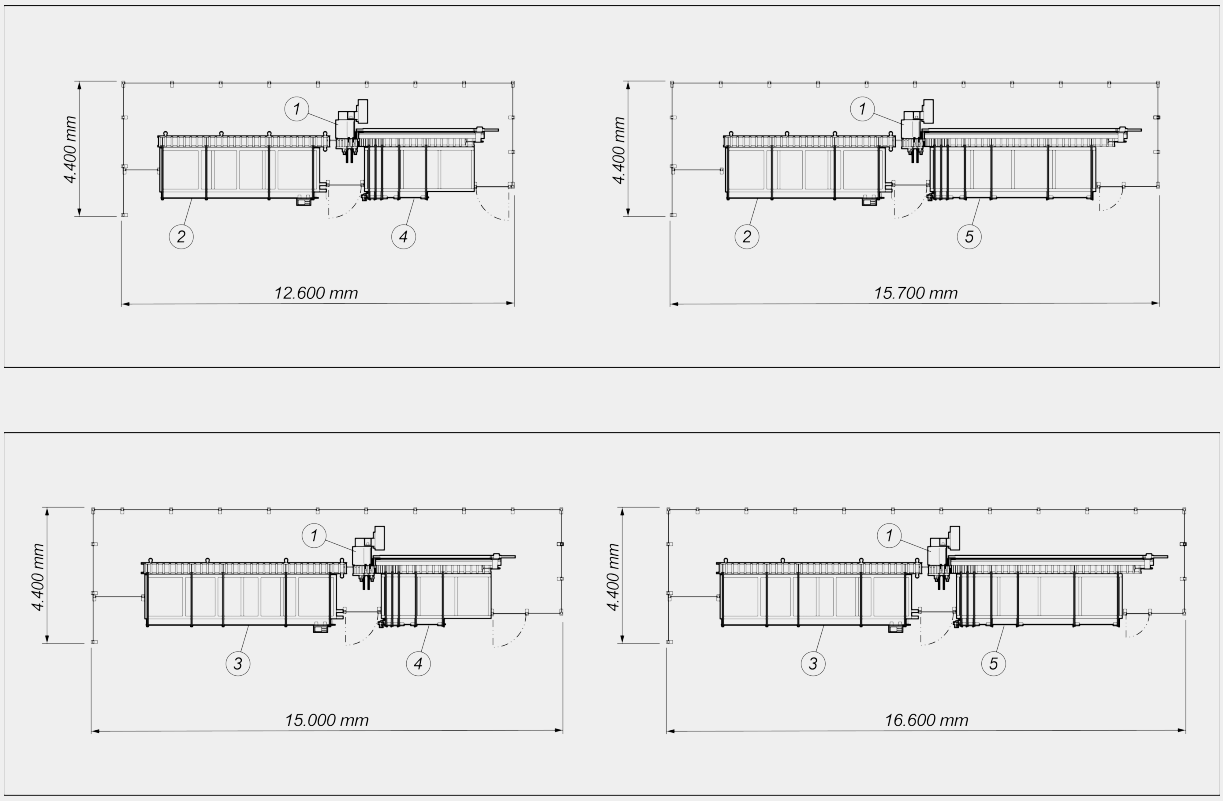
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VEGAPACK / THROUGH FEED SAWING CENTERS

LAYOUT



1. Cutting unit
2. Loading magazine L=6.000 mm (standard)
3. Loading magazine L=7.000 mm (optional)
4. Unloading magazine L=3.600 mm (standard)
5. Unloading magazine L=6.000 mm (optional)

The overall dimensions may vary depending on the product configuration.

AXIS STROKES

X AXIS (striker carriage) (according to version) (mm)	3.600 / 6.000

POSITIONING SPEED

X AXIS (striker carriage) (according to version) (m/min)	30
Loading roller conveyor (m/min)	13

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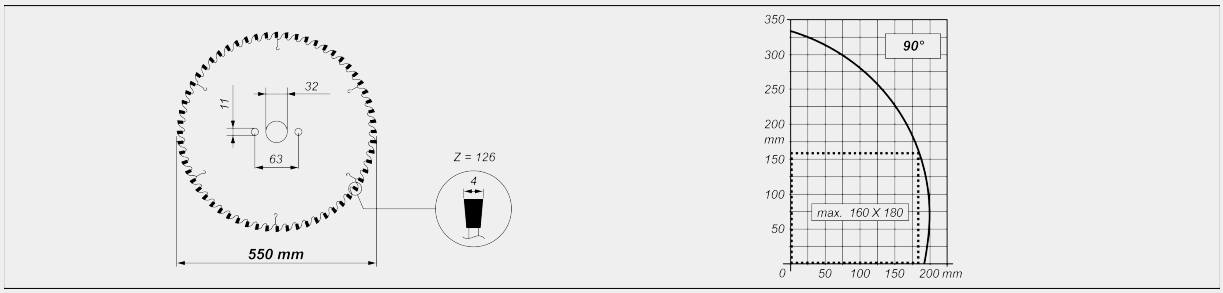
WORK AREA

Min. automatic cutting length (mm)	250
Min. loadable length (mm)	1.500
Max. loadable length (according to version) (mm)	6.000 / 7.000
Max. automatic cutting length (according to version) (mm)	3.600 / 6.000

CUTTING UNIT

Power rating (kW), “three-phase” blade drive motor	4
Blade shaft diameter (mm)	32
Blade diameter at carbide-tipped (mm)	Ø = 550
Hydro-pneumatic blade feed	●

CUTTING DIAGRAM



SAFETY DEVICES AND PROTECTIONS

Wall connection RH and LH metal fence	●
Local guarding of the pneumatic cutting area	●

WORKPIECE LOCKING

Horizontal pneumatic vices with pressure reducer plus pressure gauge	2
Vertical pneumatic vices with pressure reducer plus pressure gauge	2

LOADING UNIT

Belt loading magazine for up to 5 bundles of material	●
Motorised roller infeed roller conveyor	●
Maximum bar bundle weight (kg/m)	15

Included ● Available ○

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UNLOADING UNIT

Belt unloading magazine for up to 5 bundles of material	●

SWARF EVACUATION

Provision for swarf exhauster system	●
Required negative pressure (mbar)	30
Required capacity (m³/h)	1.400
Suction inlet diameter (mm)	70 / 100
Recommended swarf exhauster model	MG4-VP
Extraction kit	Ø 70 + Ø 100

COMMAND AND CONTROL UNIT

Ventilated electrical cabinet	●
Pneumatic panel	●
PLC with Intel® compatible 100 MHz processor	●
6” LCD-TFT graphic colour touch screen	●
64 MB RAM memory	●
64 MB Compact Flash	●
USB ports	1
RJ45 network card	●

Included ● Available ○

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