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MACHINE MODEL

VELOX 350 AF-NC 90°

CNC automatic circular machine for aluminium

Short description

Automatic circular saw VELOX 350 AF-NC 90° is a professional working tool developed to cut aluminium, light and non-ferrous materials with high precision and accuracy; the machine is designed to cut only at 0° with a reduced final scrap-end (30 mm). It's available in two version: one has the feeder with piston transmission, the other with belt.

Scan the video

Cutting capacity at 0°	Round: 120mm - Square: 90mm - Rectangular: 200x80mm
Cutting capacity with solids	120mm
Min. scrap-end	35mm
Blade speed	3600rpm
Blade diam.	350mm
Blade Motor	2.2KW (3KW in option)
Feeder stroke	550mm (Option F1200 with belt feeder)
Min. cutting lenght in autom. cycle	15mm
Working table height	930mm
Coolant tank capacity	40l
Weight	607kg
Dimensions	1800x1450x1950mm

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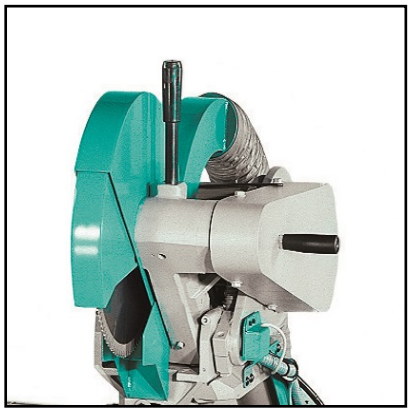
Features



Head in cast-iron

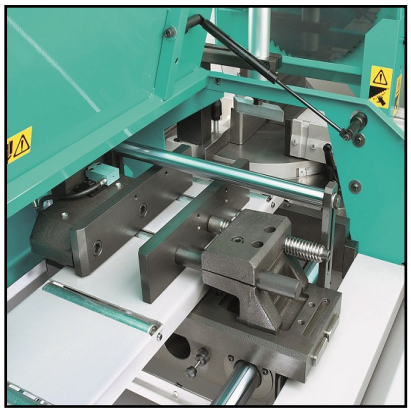
Velox machines have a cast-iron cutting head made in block block that helps to reduce vibration while cutting and avoid slow-downs and bindings; a vertical piston provides to have an easy material blocking with the results to optimize user's working cycle.

Reduced scrap-end

VELOX 350 AF-NC 90° version is designed and optimized for 90° cutting and to reduce scrap-end to 35mm.

7" touch screen display (belt feeder version)

VELOX 350 AF-NC 90° with belt transmission uses a 7" touch screen display with easy to use inteface and possibility to manage all machine parameters with just few clicks to improve and optimize operator's user experience and workflow. The innovative interface allows to set easily many cutting programs and lines on the same bar.



Feeder carriage: version with belt (F500-F1200)

Integrated automatic feeder moved by electric motor with inverter; the transmission in provided by belt with encoder, rack and pignon. Single maximum stroke 550 mm, minimum scrap-end 30 mm. It's available with this version also the longer feeder with 1200mm stroke. Belt version has reduced speed compared to the previous, but it's more functional for users who need to cut many different cutting lengths on the same bar.

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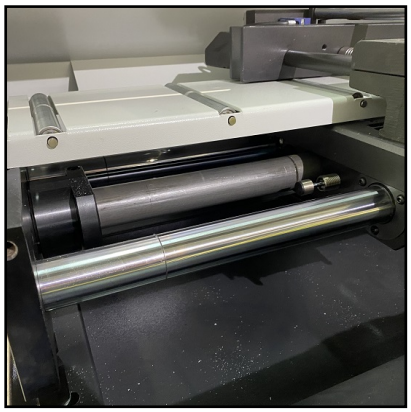
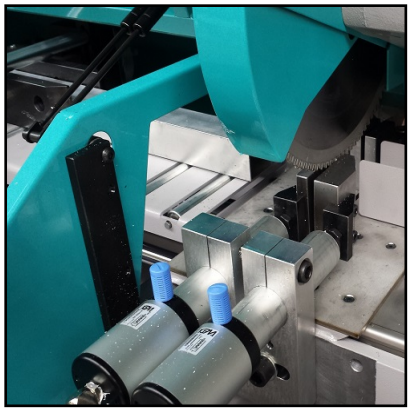
LCD Display (piston version)

This version uses an LCD display with keyboard to control the working cycle and set main operative parameters and programms. The panel control also allows to make self-diagnosis while working, to detect and correct errors that could compromise its functioning and gives an overview over machine status and the program in use.



Feeder carriage: piston version (F500) OPTIONAL

Material feeding is provided by an air cylinder with length stop by electric motor with brake and encoder. Single maximum stroke 550 mm, minimum scrap-end 30 mm and possibility set different cutting length. This version has a high feeding and stroke repetition speed and it's strongly recommended for users who, on the same bar, need to do a high amount of pieces but with just few different cutting lengths.



Safety

The opening system of the guard cover is delayed to guarantee maximum operator safety There is an integral protection of the blade and the conveyor for the suction of the chips with cover fixed on the unloading side.

3kw blade motor and speed inverter (Option) OPTIONAL

Art. A-0061

To optimize cutting performances with non-ferrous materials like brass, bronze and copper, the machine can be configurated with this optionals that includes: 3kw motoreducer and speed variator with inverter to have speed 1000-3600rpm.

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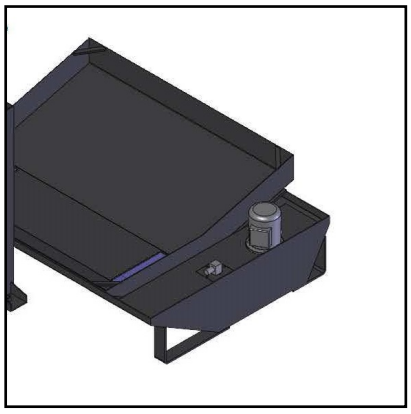

Lubrification and supplemenary tank (Optional) OPTIONAL

In order to have perfect cleaning and working cyucle, when cutting bronze, brass and copper the machine must be also configured with a dedicated lubrification system with cooland liquid, blowers and additional collection tank.

Industry 4.0 Ready - SAWFACTORY (Optional) OPTIONAL

Art. 918644-02

IMET automatic machines can be connected to the company network and be used remotely thanks SAWFACTORY and modem. SAWFACTORY is a dedicated software which allows to manage the cutting process from the office desk by setting cutting programs and monitoring the workflow thanks to the dedicated web app. The software also allows to also receive assistance by our technicians remotely. Discover SAWFACTORY: https://bit.ly/2RuxHuX

Chips suction plant (Optional) OPTIONAL

Art. 000921

Chips suction plant complete of magnetothermic switch and flexible tube 1,5KW.

Barloader SLB3000 (Optional) OPTIONAL

Art. 000935-03

Barloader for VELOX 350 AF-NC 90°: suitable for tubes (20mm-90mm), square (80x80mm), for solids (max 50mm). The structure in metal profiles, the front protection in tubular and perforated sheet guarantees maximum protection for the operator. Fully automatic, the management system allows you to optimize user workflow. Length 3m.

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Barloader SLB6000 (Optional) OPTIONAL

Art. 000935

Barloader for VELOX 350 AF-NC 90°: suitable for tubes (20mm-90mm), square (80x80mm), for solids (max 50mm). The structure in metal profiles, the front protection in tubular and perforated sheet guarantees maximum protection for the operator. Fully automatic, the management system allows you to optimize user workflow. Length 6m.

Loading/Unloading roller tables 1st unit (Optional) OPTIONAL

Art. RTSAPRW30

1st unit of roller conveyor compatible for both the loading and unloading sides. Length 2m, 140kg. loading capacity 140kg.

Loading/Unloading roller tables follow.unit (Optional) OPTIONAL

Art. RTSASEW30

Following unit of roller conveyor compatible for both the loading and unloading sides. Length:2m, loading capacity:120kg. This element include only one leg (instead first element PR have two legs)

PVC V rollers (Optional) OPTIONAL

Art. RVAW30

Pairs of V rollers made in PVC for tubes, max 6 pairs per each element 2 m long, to be used on machines with V jaws, without rollers cover (only for RTS) (not available together with RI-W30) Pair of containment vertical rollers 300 mm made in steel, max 2 pairs for each element

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PVC vertical rollers (Optional) OPTIONAL

Art. RIAW30

Pair of containment vertical rollers 300 mm made in PVC, max 2 pairs for each element 2 m long; to use without rollers cover (only for RTS) (not available together with RV-W30)

Bundle barloader (Optional) OPTIONAL

The bundle loader allows you to load a bundle from 48mm to 90mm max. by chain transmission Managed by CNC numerical control, it is compatible with CNC automatic disc machines and allows to load up to 3 tons of bars with a length of 6m.