

Deburring-Polishing MACHINES

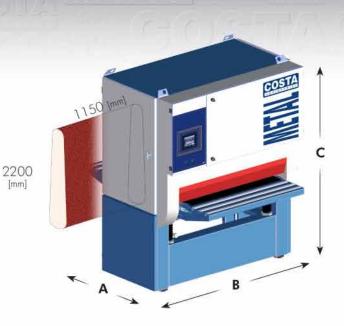


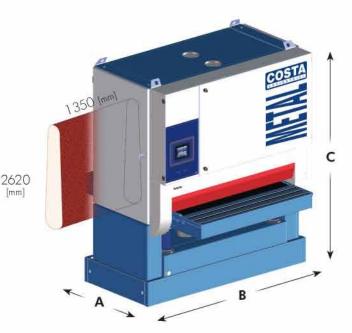


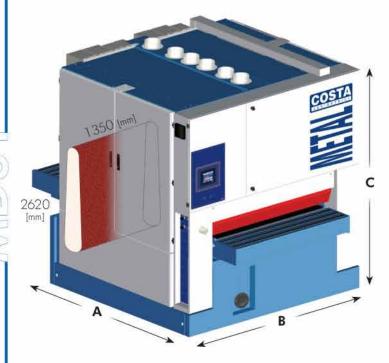




Deburring-polishing machines







Universal working center for deburring and finishing ferrous and non ferrous materials.

These machines are available with variable height, working width of 1150mm, and can process heavy parts of weight up to 300 Kq.

The machine utilizes 2200mm long sanding belts.

Thanks to our modular concept, it is possible to build a custom "working center" by inserting the proper working units required for each application.

The frame is engineered to hold 2-3 internal working units, and one auxiliary unit.

Dimensions	A [mm]	B [mm]	C [mm]
2 working units	1660	1824	2070
3 working units	1921	1824	2070

Universal working center for deburring and finishing ferrous and non ferrous materials.

These machines are available with constant feed height for in-line operation, and to simplify the processing of large parts. They are available with a working width of 1350mm, and can process parts of weight up to 400 Kg.

The machines utilizes 2620mm long abrasive belts that guarantee longer life and a consistent finishing, reducing the consumable costs.

Thanks to our modular concept, it is possible to build a custom "working center" by inserting the proper working units required for each application.

The frame is engineered to hold 2-3 internal working units, and one auxiliary unit.

The high rigidity of the frame and feed table of this machine -combined with the advanced mechanics and electronic features - make of this series a universal working center for deburring and finishing.

Dimensions	A [mm]	B [mm]	C [mm]
2 working units	1864	2020	2305÷2455
3 working units	2204	2020	2305÷2455

Universal working center for deburring and finishing ferrous and non ferrous materials.

These machines are available with constant feed height for in-line operation, and to simplify the processing of large parts. They are available with a working width of 1350mm, and can process parts of weight up to 500 Kg.

The machines utilizes 2620mm long abrasive belts that guarantee longer life and a consistent finishing, reducing the consumable costs.

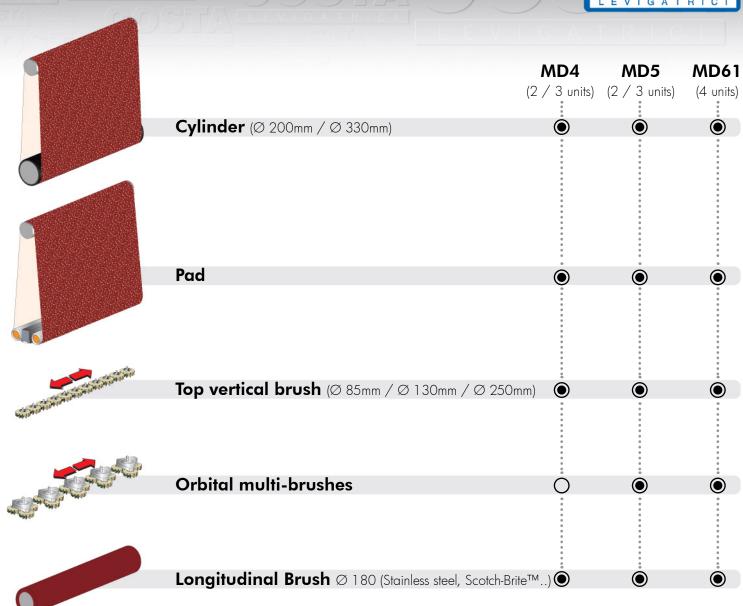
Thanks to our modular concept, it is possible to build a custom "working center" by inserting the proper working units required for each application.

The frame is engineered to hold 4 internal working units, and one auxiliary unit.

Dimensions	A [mm]	$\boldsymbol{B} \text{ [mm]}$	C [mm]
4 working units	2925	2140	2215÷2375

Working units & applications



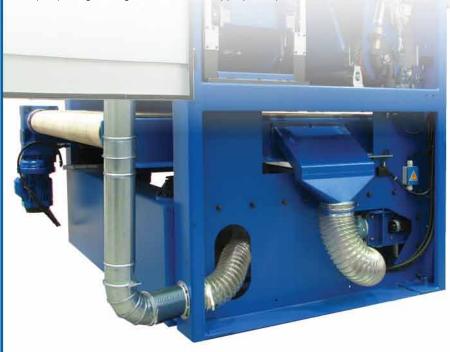


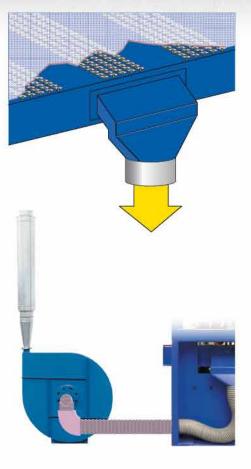


Feed unit

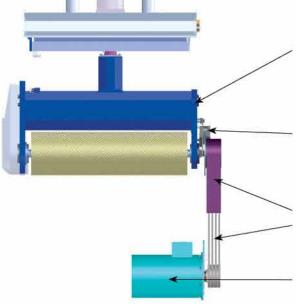
Vacuum hold plant (standard from dust system - optional with electroventilator)

Vacuum hold system from dust extraction plant (providing to have a good air speed). Help improving holding of small and/or slippery work-pieces to the feed belt.





A high speed electroventilator creates a vacuum hold under each working unit to secure the traction of sliding material or of workpieces smaller than distance between the pressure units (opt.)



Heavy-duty rigid supporting beam to sustain the working units and the sanding belt tensioning system. The working units are adjustable from rigth to left to mantain the parallelism with the feed table.

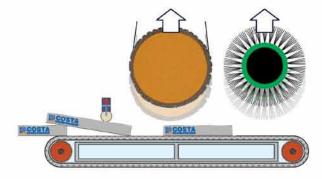
Disk brakes with pneumatic clamps. They are equipped with non ferrous brake pads to avoid sparks.

- Transmission with:
 "Poly V" belt system (optional), with double pneumatic tensioning system;
- "V" belt system (standard) with mechanical / pneumatic tensioning system.

Motors are positioned inside machine frame.

Safety in-feed sensing roller for over thickness limit

Safety device designed to stop the feed and exclude all the working units if the roller detects a work-piece having thickness exceeding the programmed value.



Control panel



09:50:05

Emergency

0.0

Stop

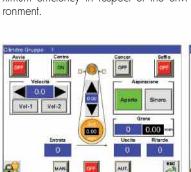
PLC VISION (optional)

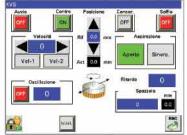
The PLC panel VISION enables the visualization in a touch-screen monitor of the actual setup data and operation of the machine, and to store many complete working programmes.



Power Saving Features

The power saving features (standard), allow the use of the machine with maximum efficiency in respect of the environment.





Spess

Programs

0.0

40.0

Deburring

0.0

N°Prg:



0.0

10.0

mt/m

Vel.

mm

Alarms



Start

Wireless caliper (optional)

Automatic thickness setting by means of Electronic Wireless Caliper; using this Caliper, the operator will be able to measure the work pieces being processed and send the information to the PLC VISION just with a simple click.



Electromechanical panel (standard)

Control panel positioned in front of the machine, with push-buttons for all motors and ampmeter readers of power utilization of the working units. Emergency stop and reset

Range change switch for the variation of the feed speed Diagnostic leds of electric-pneumatic / safety problems





Digital positioner with read-out of the thickness adjustment with decimal accuracy.

Working units: cylinder ø 200 / 330 [mm]



Cylinder covered with special rubber, oil and heat resistant with special high temperature bearings for high cutting speed applications.

To quikly compensate the thickness difference of the various types of abrasive belts, the cylinder is equipped with pneumatic grit-set with 6 position revolver (standard)

Electronic Grit-set Sistem for centesimal positioning of the cylinder height in relation to the abrasive belt grit. Centesimal read out display on the main control panel.



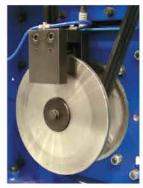
Sanding belt tracking photocell.



Oscillating air jet blowers (optional) for an efficient cleaning of sanding belts, they activate only when the workpiece is being processed.



Each working unit motor is equipped with a **disk brake** to allow the machine to stop in a few seconds in case of emergency.



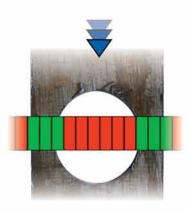
Double pressure rollers with micrometric precision adjustment mounted in the front and rear of each working unit.



Working units: electronic pad



The perimetral deburring unit is composed of an identification system of the geometrical shape of the workpiece to be deburred. It is controlled by a PLC which activates a series of pneumatic sections (with 32 mm or 16 mm definition) that apply the necessary pressure on the abrasive belt on the perimeter of the workpiece only, thus removing the burrs. The advanced system management via PLC allows to vary the amplitude and the pressure of the working area as required.



Shape detecting

infeed sensing bar with rubber covered wheels and inductive sensors. It detects the presence of the workpiece along with its form and size.

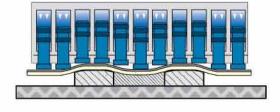


Shape processing

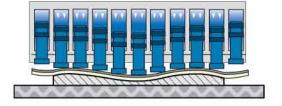
pressing system - acting on each-one section with pneumatic or electromagnetic pressure

Main benefits of this working unit:

- easy **deburring** of **warped workpieces**, thanks to the excursion control of each section of the perimetral unit (up to 6mm)
 • processing of the edges only (with control of width)
- to facilitate the welding operations;
 burrs removing only, without affecting the remaining surface (significant power and sanding belts savings).



Perimetral deburring



Polishing of deformed and/or uneven pieces



Working units: vertical brushes



Ø 85 mm

Ø 130 mm

Ø 250 mm



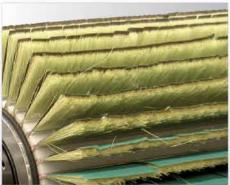
Working units: Longitudinal Brushes ø 180 [mm]

Longitudinal brush unit Ø 180 mm with manual height adjustment and mechanical thickness read-out.

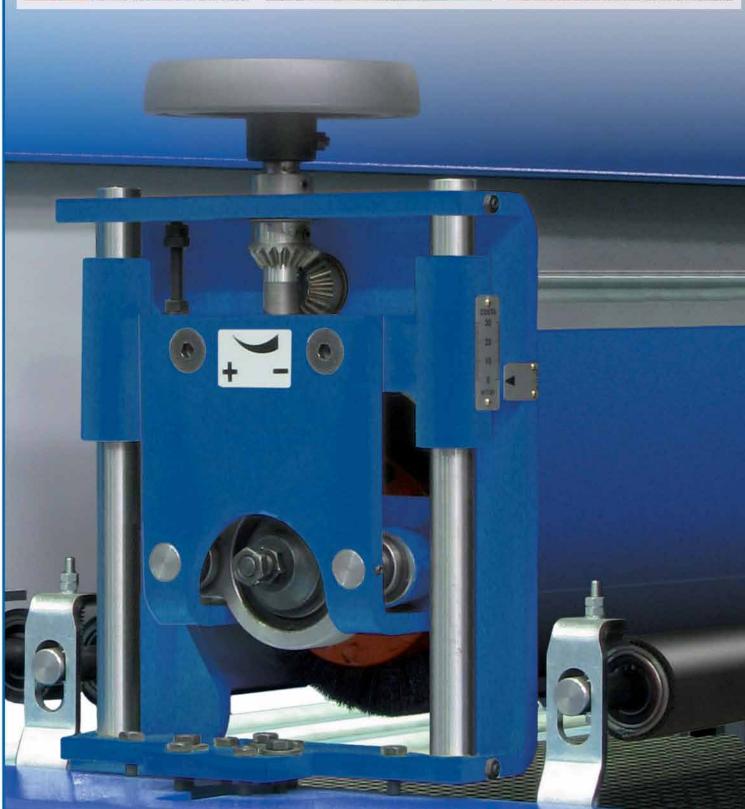
Oscillation system for homogeneous and better finishing

Our brushes are available in various materials: steel, stainless steel, scotch brite, with interchangeable inserts and many others.











Panel cleaning units (optional)

Are positioned in the rear side of the machine, normally we can insert: • 1 unit S14 (brush \varnothing 140 mm) or

- 1 JR unit (rotary cleaning blowers) or JL (oscillation cleaning blowers)

With the option "rear feed table extension" we can add up-to 2 of the following units:

- Ø 180 Brush;
 Ø 180 Scotch-brite™ unit;
 Ø 180 Extractable brush SE18 unit;
- Rotary cleaning blowers or JL (oscillation cleaning blowers)









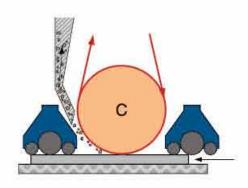


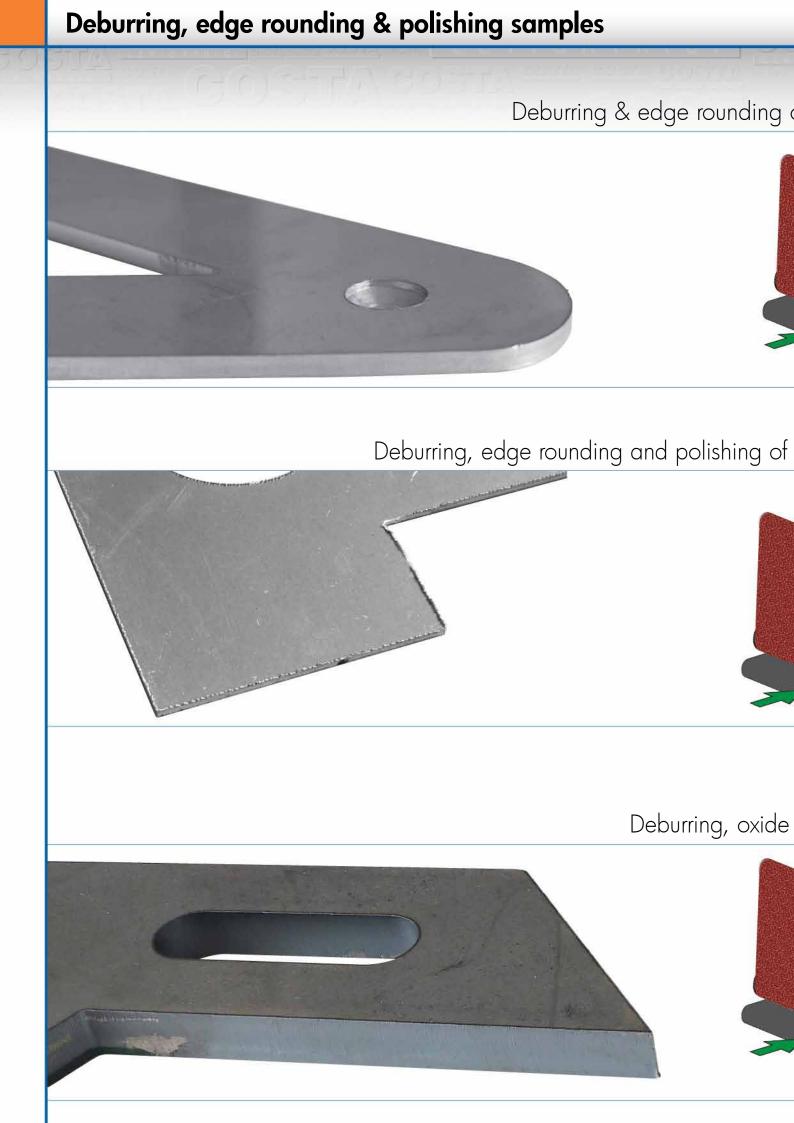




Air treatment system

The dust generated by the process is removed through an exhaust hood and conveyed to the suction filter (optional) for the collection.



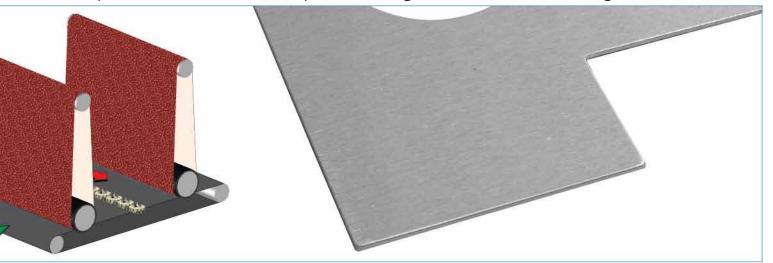




of punched, sheared, or laser-cut parts, using a machine in configuration "CV"



laser-cut, punched, or sheared parts, using a machine in configuration "CVC"



removal & edge rounding of laser-cut, using a machine in configuration "CVV"



Deburring, edge rounding & polishing samples

Deburring & edge







Deburring and polishing (cosmetic grinding) of hot/cold rolled stainless steel, alum



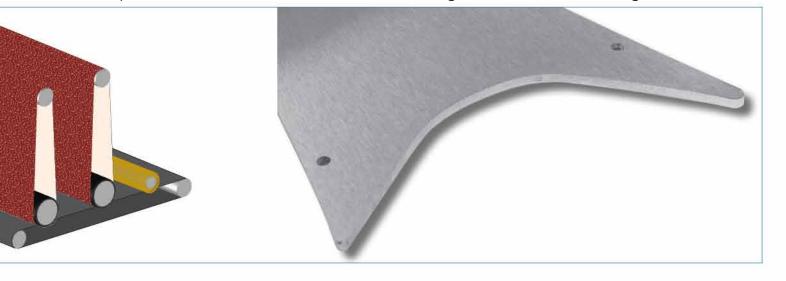




rounding of oxy and plasma cut parts, using a machine in configuration "CCR"



inium, for Duplo finish and/or Scotch-Brite $^{\mathsf{TM}}$, using a machine in configuration " CCS "



Location: Italy - Veneto



Airports

Venezia: 90 Km - 1 h drive Treviso: 75 Km - 1,5 h drive Verona: 65 Km - 45 min drive Bologna: 160 Km - 2 h drive

Train Station

Vicenza: 30 km - 30 min drive

Car Directions

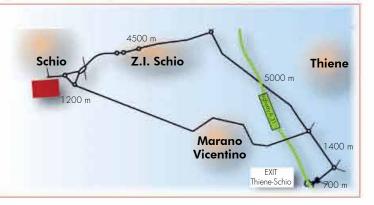
To the Factories in Sandrigo Highway A31 - Exit Dueville - 3,5 km

To the Main Office in Schio Highway A31 - Exit Thiene-Schio - 13 Km



Headquarter of Schio Via Venezia, 144 - 36015 Schio

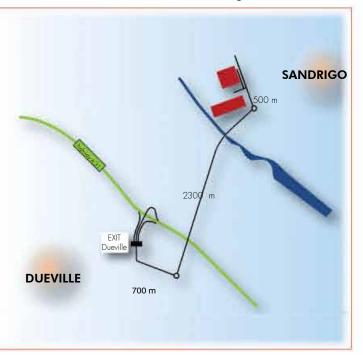




Factory of Sandrigo 2 / Sandrigo 3 Via G.Galilei, 5 / Via Galvani, 3-5 - 36066 Sandrigo







We reserve the right to change features without any notice

