

# dmc m950 wet

Wet deburring-finishing machine



CMS is part of SCM Group, a technological world leader in processing a wide range of materials: wood, plastic, glass, stone, metal and composites. The Group companies, operating throughout the world, are reliable partners of leading manufacturing industries in various market sectors, including the furniture, construction, automotive, aerospace, ship-building and plastic processing industries. SCM Group coordinates, supports and develops a system of industrial excellence in 3 large highly specialized production centres employing more than 4,000 workers and operating in all 5 continents. SCM Group: the most advanced skills and know-how in the fields of industrial machinery and components.

CMS SpA manufactures machinery and systems for the machining of composite materials, carbon fibre, aluminium, light alloys, plastic, glass, stone and metals. It was established in 1969 by Mr Pietro Aceti with the aim of offering customized and state-of-the-art solutions, based on the in-depth understanding of the customer's production needs. Significant technological innovations, originating from substantial investments in research and development and take-overs of premium companies, have enabled constant growth in the various sectors of reference.



**CMS Metal Technology** is the brand dedicated to the production of metalworking machines and technical articles offering a wide range of complete water-jet cutting systems, pressure intensifiers and dry or wet deburring and satin finishing machines. Since the 90's, thanks to the acquisition of Tecnocut and constant internal developments, **CMS Metal Technology** has been able to gain high international prestige, boasting more than 1,500 installations worldwide. **CMS Metal Technology** is the reliable partner of leading industries in various sectors such as automotive, aerospace, machining, furniture and industrial architecture.



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# APPLICATIONS



furnitures | automotive | aerospace



polishing and finishing | food industry | exterior design



# DMC M950 WET

## TECHNOLOGICAL BENEFITS

### WET DEBURRING-FINISHING MACHINE

DMC has developed a new compact and solid wet deburring-finishing machine. The DMC m950 wet can be equipped up to 6 working units. Those available units are Roller drums (R), Row of 6 Discs (D) and Oscillating barrel brush (B) with abrasive cloth. With the modular structure, it is possible to replace the single operating units or order the machine with empty spaces for the future working units. This feature makes the machine very flexible for future growth and production requirements.

### MAIN EQUIPMENT

- Hydra V-pad control panel with 10.4" touch-screen with 120 working programs
- Air filtering unit on top to clean air containing oil mists (opt.)
- Motors positioned inside the machine structure
- Stainless steel tank
- Drying station: the outfeeded workpieces go through a cleaning and drying station (opt.)
- Fast locking system of the working units
- On/off positioning for the working units
- Working unit motors are driven by inverters (opt.)
- Infeed over thickness detection
- External tank and particle collection equipped with automated TNT filter (opt)



### KEY BUYER BENEFITS

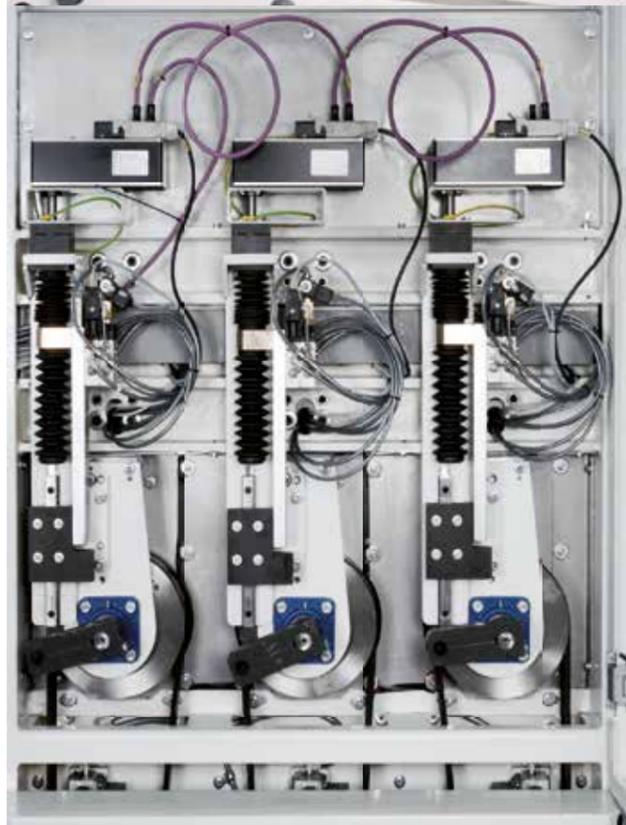
- + **Secure blocking of parts smaller than 100 mm:** fitted with a system of electro-permanent magnets able to hold and secure the position of ferromagnetic parts smaller than 100 mm and with thickness of 2 mm and lower.
- + **Dry hand: machined parts without working residues.** Thanks to an external station fitted with independent turbo blowers, the parts are free from water and oil residues, thus facilitating handling and storage operations.
- + **The best surface finishing.** A system of 17 nozzles, located before and after every working unit, perform a proper cleaning and cooling of both parts and consumables. This also allows to achieve surface finishes up to P2000 grit and longer lifespan of the abrasive belts.
- + **Accurate working positioning up to 0.01 mm.** Fast and precise positioning of the operating units thanks to the possibility to set the abrasive belt consumption directly at the machine control panel.

# ACCESSORI STANDARD



## GRIT SET

Individual and fully automated adjustment of working units, through brushless motors, are able to ensure accurate and quick positioning. The actual thickness of the abrasive belt can be programmed in the control panel, in order to adjust to the belt wearing out or being in need of replacement, to always keep a steady working load on the surface of the material to be processed.



## STAINLESS STEEL TANK

Stainless steel tank for sludge collection and recirculation of water/oil emulsion. The sturdiness of the structure ensures performance that lasts over time under any working conditions.



## ABRASIVE BELT CENTRING SYSTEM

Mechanically controlled by a ceramic covered probe, that works in proximity with the abrasive belt. This device allows for continuous centring of any kind of abrasive sanding or cloth belt with thickness up to 5 mm, while guaranteeing a specific lifespan in an environment featuring water/oil emulsion.

# DMC M950 WET SOFTWARE

All the machine management software is proprietary, developed specifically by CMS engineers and perfected with feedback provided by its customers. The result is an extremely simple and reliable user interface, able to perfectly fulfill the requirements of the most demanding operators.

## HYDRA CONTROL MAIN FEATURES:

- Management of working thickness
- Speed management of conveyor belt, abrasive belts and brushes rotation
- Working height adjustment of the disc units
- Cascade automatic starting of main motors
- Timed activation of cleaning blowers for abrasive belts and unloaded workpieces
- Operational report (working hours / running hours)
- Machine trouble-shooting and fault diagnosis of the electronic boards
- Histograms graphics for tracking abrasive belt wear (opt)



## HYDRA V-PAD CONTROL PANEL, STANDARD DEVICE ON THE MACHINE:

The Hydra V-Pad control is used to set all the operating parameters on the touch screen.

### Features:

- touch screen standard 10.4"
- 120 configurable working programs by the operator
- real time monitoring of correct machine operation

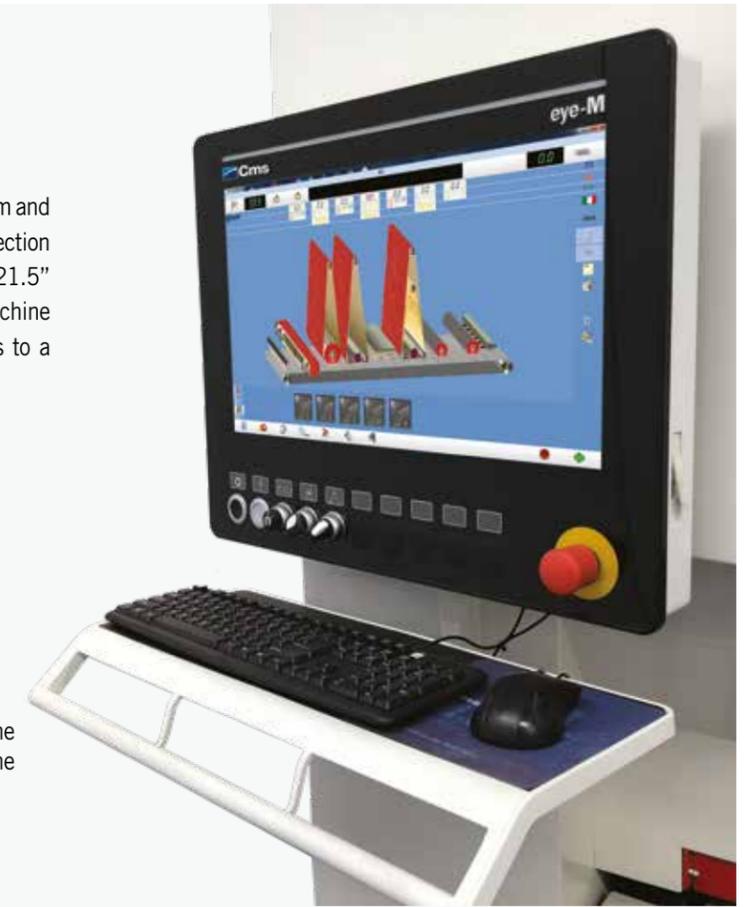
## CONSOLE WITH INTEGRATED PC "EYE-M" AND HYDRA-PC MONITORING (OPTION)

Device connected to the machine with adjustable gluing arm and fitted with fanless Industrial PC (PC Panel) and IP53 protection rating to withstand the more onerous environments. The 21.5" touch colour display ensures advanced control of the machine parameters and a simplified interfacing outwards thanks to a LAN network connection.

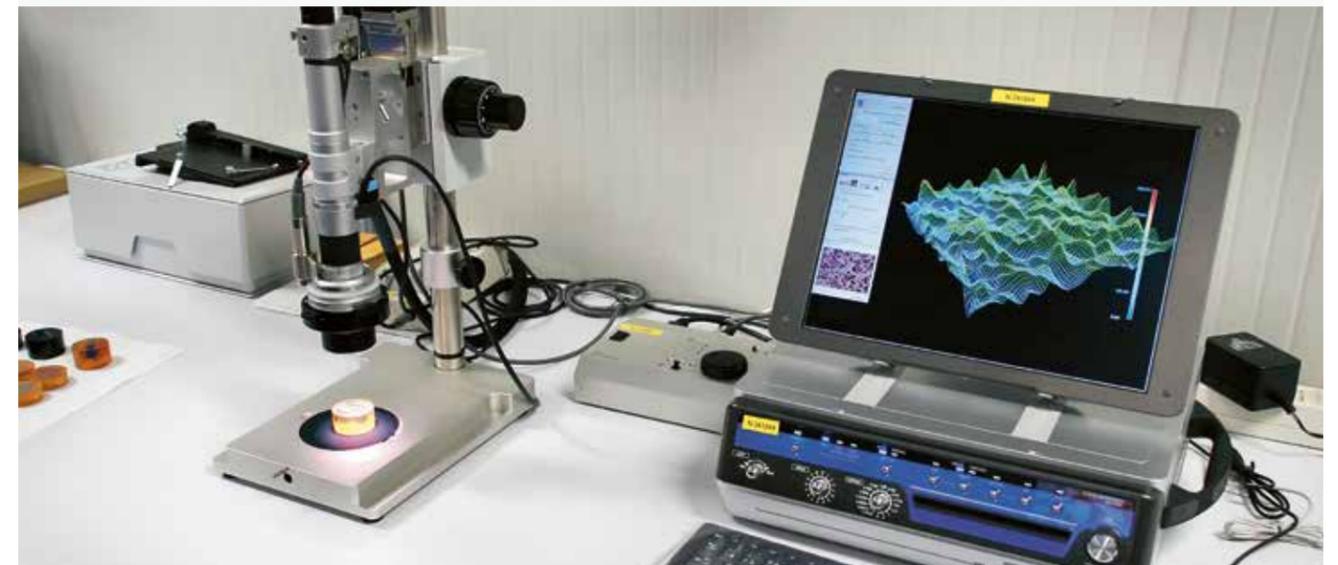
### KEY SPECIFICATIONS:

- storage of up to 1999 work programs
- production report
- machine alarms management and fault diagnosis
- with integrated manual for easy identification
- integrated digital instructions and maintenance
- manual
- LAN network connection.

In conjunction with the remote customer service, the device offers an industrial and advanced solution in line with industry 4.0 technological requirements.



Excellent structure designed to carry out research on abrasive materials and materials processed by flexible abrasive machines, but also for finishings on innovative materials like Corian®, inert materials, quartz, polyurethanes, mineral wools, and fibre-cement etc. The operating unit is run by highly qualified personnel and is equipped with sophisticated instruments for capable of analysing the materials to be processed and the various types of abrasive. Thanks to the numerous demonstration machines, it can carry out any process testing to rapidly provide customers with detailed information on the best way to tackle any problem concerning a process in which a flexible abrasive machine is used, and achieve the new finishes requested by the market.



# DMC M950 WET

## TECHNICAL DATA



### DMC M950 WET: TECHNICAL DATA

NUMBER OF OPERATING UNITS	3 - 6
WORKING WIDTH	950 mm
MIN / MAX STANDARD WORKING THICKNESS (FIXED WORKTABLE)	0,5 ÷ 200 mm
SANDING BELT DIMENSIONS	950 x 2620 mm
FIXED HEIGHT FROM THE GROUND	930 mm
CONVEYOR BELT SPEED	0,5 ÷ 10 m/min

The technical data can vary according to the requested machine composition. In this catalogue, machines are shown with options. The company reserves the right to modify technical specifications without prior notice; the modifications do not influence the safety foreseen by the CE Norms.



LMaximum noise levels measured according to the operating conditions established by EN 1870-13:2012  
 Acoustic pressure in process 89 dbA (measured according to EN ISO 11202:2010, uncertainty K = 4 dB)  
 Acoustic power in process 103 dbA (measured according to EN ISO 3746:2010, uncertainty K = 4 dB)

Even if there is a correlation between above mentioned "conventional" noise emission values and average levels of personal exposure over eight hours of operators, these last also depend on the real operating conditions, duration of exposure, acoustic conditions of the working environment and presence of further noise sources, this means the number of machines and other adjacent processes.

# THE RANGE OF CMS METAL TECHNOLOGY

# FOR METAL AND TECHNICAL ARTICLES PROCESSING

## WATERJET CUTTING MACHINES



**TECNOCUT SMARTLINE**



**TECNOCUT EASYLINE**



**TECNOCUT MILESTONE S**



**TECNOCUT PROLINE**



**TECNOCUT AQUATEC**



**TECNOCUT WATERSPEEDY S**

## PRESSURE INTENSIFIERS



**TECNOCUT EASYPUMP**



**TECNOCUT JETPOWER EVO**



**TECNOCUT GREENJET EVO**

## DRY DEBURRING-FINISHING MACHINES



**DMC M950**



**DMC EUROSYSTEM MD**



**DMC METALSYSTEM**

## WET DEBURRING-FINISHING MACHINES



**DMC M950 WET**



**DMC TOP METAL**



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