

newmec

p r e c i s i o n m e c h a n i c s

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**Excellence
through passion**

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The Headquarters

NEWMEC: The made in Italy of precision mechanics



35

High precision
machines



2000

m2 of
production area



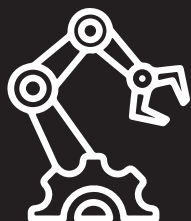
4

Obtained
certifications



20

Cad-cam active
licences



3

ZEISS Testing
machines



>60

Specialized
employees

Our TEAM

A group of specialized people





The made in Italy

Of high precision mechanics

NEWMEC S.R.L. was born in Brescello, in the province of Reggio Emilia, from the passion and experience of men united by a dream: to start a serious and professional activity in the engineering sector, capable of satisfying a market that requires more and more companies specialized in high-precision mechanics.

The Company has managed with audacity, energy, and competence to transform that dream into a successful reality, making its way into various sectors as: Automotive, Motor sport, Formula 1, Aerospace, Aeronautics, Defence, Weaponry, Nuclear, Packaging, Alimentary, Pharmaceutical and Medical.

The company's core business

Our headquarters

NEWMEC is a robotic 4.0 machine with multiple axis, guaranteeing and fulfilling all standards of well-being in the workplace.

The area of over 2000 square meters, air-conditioned and in constant temperature is divided in:

- Engineering, design, and testing area
- Methodology and order management
- Procurement and back-office area
- Turning & Milling production area
- Metrology room

Due to our numerous Machines, both for milling and turning, we are able to manage all processing, from special prototypes up to small-medium production series.

The obtained certifications



NEWMEC S.R.L. became a Company with a UNI EN ISO 9001:2015 certified quality management system in 2018, in 2019 UNI EN 9100:2018 and also managed to obtain MO.CA for the manufacture of products suitable for contact with food (regulation (CE) n°1935/2004), thus confirming the will to improve without ever losing sight of the efficiency and quality of the service offered. In 2023, Newmec obtained ISO 14001:2015, certifying the company's commitment to the environment.

Each designer manages his own machinery and has his own notebook, directly connected to the designing room, through which they can manage the production plants using Top Solid 7.16 and HyperMill. Using high level metrology room, the Company is able to offer to the customer all the documentation relating to testing and quality control.

With the dimensional survey service, it is possible, in fact, to measure geometric dimensions and tolerances of mechanical parts, components and artifacts of various types.

The laser scanning technology allows to acquire any kind of shape, even non-geometric. Once digitalized, it is possible to perform a reverse engineering or a dimensional test via 3D compare.

Triple MYTUTOYO and ZEISS (CONTURA) measuring instruments calibrated and certified every six months, complete our production and management department.

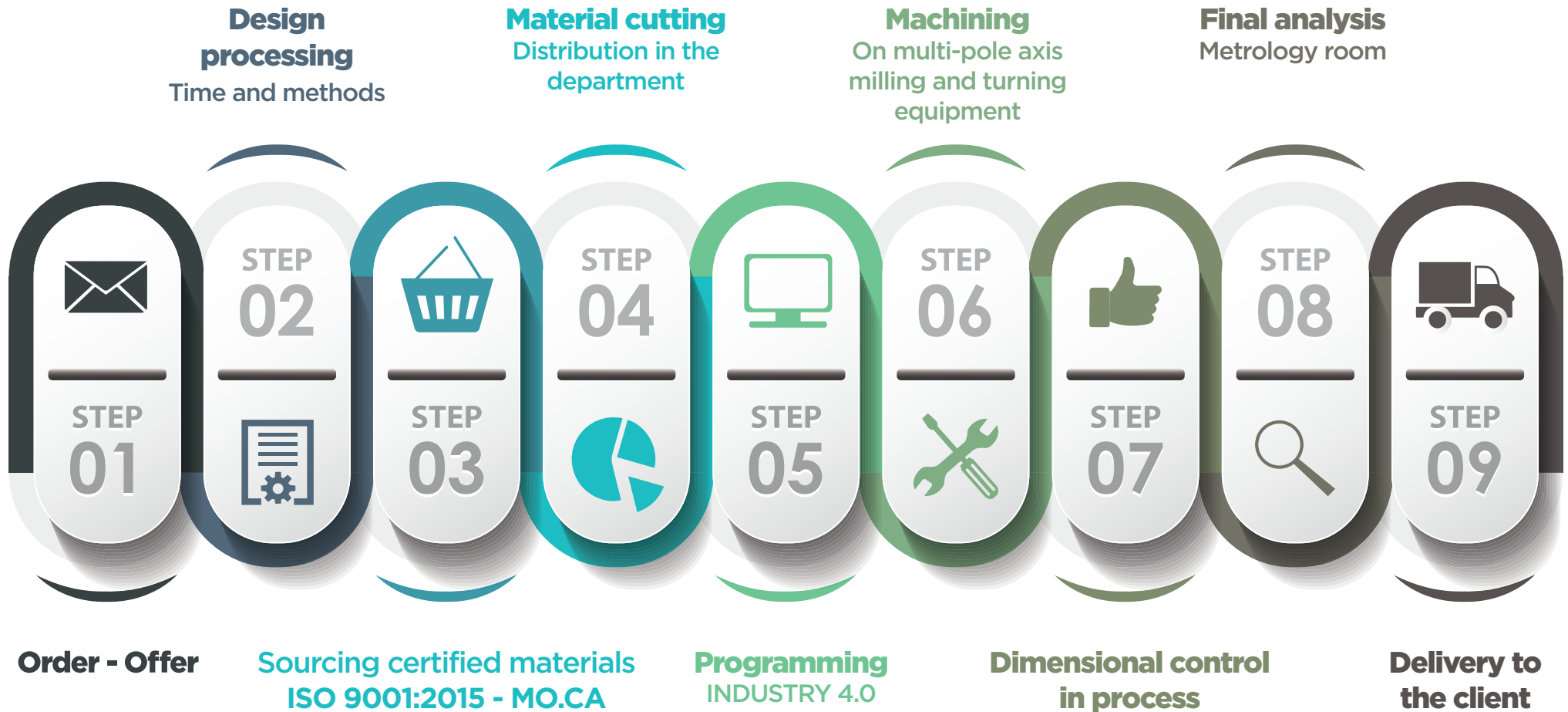
Real-time updated situations of production are monitored and controlled online thanks to the joint venture with ARISI SOFTWARE SRL through the CNC NEWTON 4.0 program.

4.0 is the added value of the production management: barcode readers, machines and systems connected to the network for real-time management of the work progress status.

And finally, an application available for customers who request it to access the platform to check and keep monitoring the status of the order itself and to have an up to date situation of the order.

Production cycle

From order to delivery



All purchased materials are sorted and catalogued according to their type, in order to comply with all internal procedures as per certification.

This organization allows to manage at full efficiency, the flow of incoming and outgoing goods.

Located in the warehouse there are also spaces used for the management of Kanban orders, for the control of returned material from treatments and/or external processing and a shipping and packaging area.



Turning department

Production area

Our company offers a department dedicated to different turning operations according to our client's necessities. We are able to operate machining from the special prototype up to small-medium series of production.

Secondary turning

For the execution of CNC Turning operations, our Machines are composed of 6 axis with motorized turrets up to 40 positions, C axis, which allow turning parts up to a diameter of 450.



CNC TURNING MACHINES

Maximum strokes possible

X axis Y axis Z axis

MAZAK Super Quick Turn 200 MY

180 mm 100 mm 575 mm

MAZAK Super Quick Turn 200 MY

180 mm 100 mm 575 mm

MAZAK INTEGREX 200-III

580 mm 160 mm 1545 mm

GOODWAY GS 280 Y

240 mm 120 mm 600 mm

DAINICHI F20

220 mm 250 mm 500 mm

DMG MORI NLX 2500 y / 700

350 mm 100 mm 795 mm

DMG MORI NLX 2500 y / 700

350 mm 100 mm 795 mm

DMG MORI NLX 2500 y / 700

350 mm 100 mm 795 mm

AVM OSCAR

270 mm 320 mm 720 mm

MORI SEIKI SL 15 M

430 mm 500 mm 300 mm

DMG MORI NTX 2500 / 1500 2GE

550 mm 1500 mm 300 mm

Turning bar department

The bar turning operations are performed with CNC Lathes equipped with their own automatic loaders, that work 24h/24h the diverse types of materials of different shapes and lengths, also with the aid of milling engines. The bar passage goes from a minimum of Ø 6 mm to a maximum of Ø 70 mm.

Manual and cut turning department

For manual turning we have two parallel lathes, both complete with display and bezel.

These are rather complex machines, therefore we employ high-qualified operators with an excellent level of preparation to use them at their full potential, guaranteeing a high level of safety.

Two cutting systems provide our production department with the essential for the development of the manufacturing:

- **MEBER SM 360**
- **MEBER SM 360**

TORNIO CNC

Ø MAX
PASSAGGIO
BARRA

HAAS ST 25

Ø70 mm

HAAS ST 20 Y

Ø50 mm

BIGLIA B121

240 mm

BIGLIA B42 S 2 M

220 mm

MORI SEIKI ZL 15 S

350 mm



Milling department

Production area

In the last few years, a large investments plan has led to the inclusion of strategic equipment and machinery, both from the point of view of the potential and the processing but also from the point of view of the precision required.

Milling is a rapidly expanding department, specialized in 5 axis machining as well as horizontal and vertical machining centers.

We are able to handle machining from the special prototype up to small-medium series of production.

WORK CENTERS	Maximum strokes possible		
	X axis	Y axis	Z axis
DMG MORI ECOMIL 70 5 axis with Slimline	800 mm	600 mm	800 mm
DMG MORI DMU 50 EVO LINEAR 5 axis	400 mm	450 mm	250 mm
HAAS UMC 750 SS 5 axis	750 mm	500 mm	500 mm
HAAS UMC 750 SS 5 axis	750 mm	500 mm	500 mm
HAAS UMC 750 SS 5 axis	750 mm	500 mm	500 mm
MIKRON MILL P 800 5 axis	700 mm	600 mm	500 mm
HAAS UMC 500 SS 5 axis	610 mm	406 mm	406 mm
MATSUURA MX-850 5 axis	900 mm	780 mm	650 mm
DMG MORI DMC 75 5 axis palletized (3 pallets)	500 mm	600 mm	750 mm
DMG MORI DMU 75 5 axis	500 mm	600 mm	750 mm
CDL VERTICALE EUMA 1020 4 axis	1000 mm	600 mm	600 mm
CDL VERTICALE EUMA 650 ROTOPALLET	650 mm	450 mm	530 mm
CDL AWEA BM-1460 3 axis	1420 mm	610 mm	600 mm
MORI SEIKI SV 500 3 axis	800 mm	500 mm	600 mm
HAAS VF1 3 axis	508 mm	406 mm	508 mm

Some of our machinery



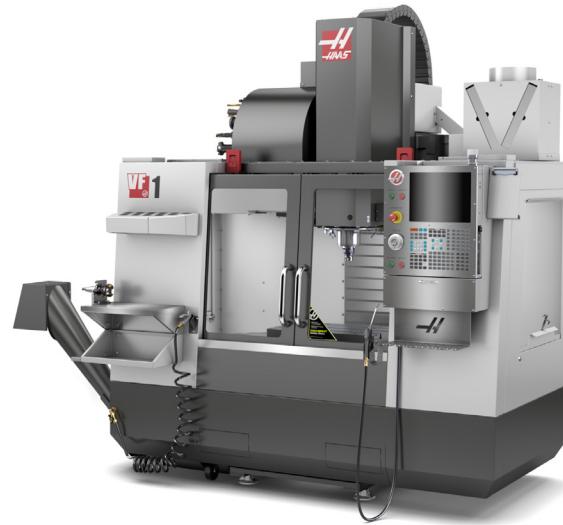
DMG MORI DMC-75
palletised monoblock
(3 pallet)



DMG MORI DMU-75
monoblock



Some of our
machinery



HAAS UMC 750 SS
5 axis



MIKRON P 800
5 axis



DMG MORI ECOMIL 70
5 axis with Slimline



MATSUURA MX-850
5 axis



CONTURA RDS
10/12/6



ZEISS Stemi 305 trino



CONTURA RDS
12/18/8



ZEISS Spectrum

ZEISS



The materials

Ferrous materials

Oxidable

- **Carbon for Tempering**
C45 - 42CrMo4 - 39NiCrMo3 - ASTM - A105
- **For Casehardening**
16MnCr5 - 20MnCr5 - 18NiCrMo
- **For Surface Hardening**
C43 - 40NiCrMo3
- **Automatics**
11SMnPb30 - 11SMn30 - 11SMnPb37 - 36SMnPb14
- **Chrome Bars**
Chrome Tubes (Dimensions: mostly round. In some cases, flat and square)
- **Mechanical and Hydraulic Pipes**
- **Square and Triangular Hollow**
- **Internal h8 Seamless Drawn Tubes**
- **Seamless Drawn Tubes**
- **Welded Drawn Tubes**
- **Non-Structural Alloys**
S235JR, S235J2, S275JR, S275J0, S355J0, S355J2, E295, E335
- **Cast Iron**

Our extensive chain of suppliers, always in constant expansion and the internal warehouse, allow us to range and find multiple qualities and types of materials.

Below we provide you with a complete list of the most common materials we use as well as more difficult or special materials.

Upon request by our customers, we can provide technical/informative support about uses or alternative materials to employ.

Stainless steel

- **EN 10088-2 EN 10028-7**
AISI 304/304L, AISI 321, AISI 316L, 316Ti
- **EN 10088-3 DIN 1017**
AISI 304/304L, AISI 316/316L
- **EN 10088-3**
AISI 303, 304, 304L, 316, 316L, 316Ti, 321, 310S
- **EN 10088-3**
AISI 304/304L, AISI 303, AISI 316/316L
- **EN 10088-3 DIN 1014**
AISI 304/304L, AISI 316/316L
- **EN 10088-3 DIN 178**
AISI 304/304L, AISI 316/316L
- **EN 10056-1 DIN 1028**
AISI 304/304L, AISI 316/316L
- **EN 1.4307**
- **Round pipes**
ASTM A312/ A213 / A269 EN10216-5
AISI304/304L, AISI 316/316L
- **Austenitic stainless steel seamless tubes**
- **Stainless steel perforated bars**
- **Laser and Waterjet cuts can be made in**
AISI303, AISI304, AISI316
- **And other special materials also available**
AISI440, AISI 420 1.4028, AISI 630 1.4542, and other special materials
- **Steel duplex e superduplex**

Non ferrous materials

Aluminium

- Series 1000
- Series 2000
- Series 5000
- Series 6000
- Series 7000

Brass

- CW612N-CuZn39Pb2 - OT59
- CW505L-CuZn30 - OT70
- CW614N-CuZn39Pb3 - OT58
- CW506L-CuZn33 - OT67
- CW617N-CuZn40Pb2 - OT58
- CW508L-CuZn37 - OT63
- CW618N-CuZn40Pb2Al - OT58
- CW509L-CuZn40 - OT60
- CW620N-CuZn41PbAl - OT58

Tin bronze

- UNI EN 1982
- CC491K
- CC493K
- CuSn12-C
- CC483K

Bronze aluminium

- UNI EN 1982
- CC333G (EX UNI 5275)

Titanium

Plastic materials

- PA - POLIAMMIDE AKULON®
- PA 6G - POLIAMMIDE OMNIAMID
- POM - POLIOSSIMETILENE OMNIACETAL
- PET - POLIETILENTEREFTALATO ARNITE
- PE - POLIETILENE PE HMW / UHMW
- PP - POLIPROPILENE
- PTFE - POLITETRAFLUOROETILENE
- PVDF - POLIVINILDENFLUORURO FORAFLOX
- PC - POLICARBONATO
- PMMA - POLIMETILMETACRILATO
- PEEK - POLIETERETERCHETONE
- PVC - POLIVINILCLORURO
- PU - POLIURETANO
- KEVLAR
- SINTEK
- VULKOLLAN
- CARBON FIBRE
- POLYCARBONATE



Special operations

Special Mechanical Operations

BROACHING
TOOTHING
SLOTING

EDM

- Plunge EDM
- Wire EDM
- EDM Puncturing
- EDM Grinding

DEEP PUNCTURING
LAPPING

GRINDING

- Cylindrical
- Centreless
- Flat

LASER MARKING
PUNCHING
BENDING

WELDING

- Laser Welding
- Tig Welding
- Mig/Mag Welding

Heat Treatments

QUENCHING AND TEMPERING
STRESS RELIEVING
AGEING
STABILISATION

CARBURIZING
(CASE HARDENING)
CARBONITRIDING
NITRIDING

STANDARDISATION
ANNEALING
(complete, isotherm, of machinability, etc)
TEMPERING

HARDENING

- Inductive hardening
- Laser hardening
- Vacuum hardening

Superficial Treatments

TENIFER®

NIKEL-CHROME

ELETROLITYC NIKEL COATING

- Chemical Nickel Coating
- Nickel Plating

CHROME COATING

PASSIVATION

- Chromic Passivation
- Steel and Titanium Passivation

ELECTROPOLISHING

BRIGHTENING

POLISHING

SHOT PEENING

SATIN FINISHING

SAND BLASTING

ANODIC OXIDATION (ANODIZING)

- Natural / protective
- Hard Anodic
- Semi-Hard
- Hard to Sample
- Hard to Casting “Super coat” Treatment

BURNISHING

TUMBLING

TEFLON COATING

MIRROR POLISHING

SUPER LATEX COATING

COPPER PLATING

CERAMIC PLATING

GILDING

TUNGSTEN CARBIDE

CATAPHORESIS

- Black Cataphoresis

PAINTING

- Water based
- Vulcanization
- Powder based

PICKLING

DEHYDROGENATION

PHOSPHATING

- Manganese based
- Zinc based (ref. UNI EN ISO 9227)
- Black

GALVANISING

- Hot
- Cold
- Electrolytic
- Spray

METAL PLASTIFICATION

PTFE (Teflon®)

PVD (Physical Vapor Deposition)

DLC

GEOMET®

- GEOMET® 500
Ref. ISO10683 - EN 13858 - ASTM F1136/F1136 M
- GEOMET® 321
Ref. ISO10683 - EN 13858 - ASTM F1136/F1136 M

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