



www.artmeccanica.com

Our history



For more information

Since 1969 we have been working in the subcontracting sector.

ART Meccanica is specialized in the mechanical fitting sector.

Thanks to its expertise and innovation ability the company manufactures for various sectors (hydraulic, transmissions, automotive, food and aeronautical) on different materials (iron, inox, copper leagues, aluminium, teflon and other plastic ones).

Using modern control and process analysis technologies, the company produces both single details and mechanical units from small to medium series.

Our main goal is an active collaboration to improve our products, becoming a precious partner able to satisfy the diverse needs of customers and to bring an added value in production, management and codesign of details.



Established in Modena in 1969, ART Meccanica moved in 1979 in Via S. Allende, in the industrial area Torrazzi. Since 2003 and about every two years the *layout* and the *equipment* of ART Meccanica have been constantly updated and the corporate headquarter has undergone several expansions (in 2001, 2007 and 2012).

Nowadays the company consists in three factories for a total of 1900m² and a warehouse of 500m².






In the production department the main environmental data are monitored in real time in order to have stable production processes. Productivity, efficiency and consumption of machineries are always monitored.



Milling department

		Num.	Model	Dimensions	Tools	Pallets	Clam.
Horizontal Machining Centers		3	MCM CONNECTION	600x600x800	42	4	ISO 45
		1	MCM CONNECTION SCARA	600x600x800	120	4	ISO 45
		1	MCM CLOCK	700x700x700	210	7	ISO 40
		1	MCM CLOCK 1200 MP10	1200x1000x1000	220	10	HSK 100 14k/rpm
Vertical Machining Centers		1	DAEWOO ACE VC500	700x500x500	34	2	ISO 40
		1	HURCO VMX 42	1000x610x610 4° AXIS ON HYDRAULIC TABLE	24	1	ISO 40

Turning department



		Num.	Model	Main features
Turning department		1	DOSAN DAEWOO PUMA 400M	500x1000 BAR PASSAGE 116 (WITH MOTORIZED TOOLS)
		1	OKUMA LB 400 M	420x1250 BAR PASSAGE 90 (WITH MOTORIZED TOOLS)
		2	OKUMA LB 15 II	350x500 BAR PASSAGE 70
		1	OKUMA LB 15 II	350x1000 BAR PASSAGE 70
		1	DAEWOO PUMA 300M	350X650 BAR PASSAGE 76 WITH GANTRY LOADER AND MOTORIZED TOOLS
		1	PONTIGGIA VEGA CNC	400x600 BAR PASSAGE 65

Other departments				
		Num.	Model	Main features
Gearing department		1	HORIZONTAL GEAR PFAUTER	D MANDRINO 150 UP TO FORM 4
		1	PLANAR GRINDING ROSA IRON	CONTROL PLAN 1200X450
Cutting department		1	SAW IMET X-TECH 410	CUT UP TO D410
		1	AUTOMATIC DISK SAW OMG	CUT UP TO D120
Superfinishing department		1	PLANAR LAPPING MACHINE	MELCHIORRE D800
		2	TUMBLING MACHINES	RENI CIRILLO D1400 RÖSLER D1200 With plant finish
		2	WASHING MACHINES	DRUM HOT WATER D600 and D1000
		1	WASHING MACHINE	ROTATIONAL ULTRASONIC WASHING SYSTEM

Equipment department

	Num.	Machine
Other equipments	1	Centre lathe 310x2000 mod. Ursus
	2	Centre lathe 250x1500 viewed
	1	Milling machine Correa F20-E viewed
	1	Endtrimming machine
	1	Radial breast drill Mecof 40
	6	Column breast drill
	1	Welding machine
	2	Hydraulic press until 100t
	2	Electrochemical marker
	2	Percussion marker
	1	Pneumatic straightening machine for axles
	3	Mule foal Cesab

Traceability system

	Num.	Descrizione
		<p>Each product manufactured by ART Meccanica is traceable with reference to the raw material, treatments and production system.</p> <p>In order to defend the authenticity of our products and to offer guarantees in case of problems, the trademark and the logo of ART Meccanica were registered at European level.</p>
	1	LASER MARKER LASIT TOWERMARK with 30W fibrate laser
	2	ELECTROCHEMICAL MARKER
	2	PERCUSSION MARKER

Quality control

Num.

Description

Room 1



Room 2



The laboratory, created in 2000, has been renewed and powered in 2014 with the creation of a 2nd Room. We believe that Quality Control should be a crucial unit for manufacturing optimization and analysis and to seek new solutions. For this reason we have two very innovative metrology rooms that help our technicians checking operations in the different phases of manufacturing process.

Both rooms are equipped with:

- INSTALLATIONS:
 - Microfiltrated air system
 - Electrical system with stabilization system and UPS
 - Led lighting for energy saving and a better heat management
- ENVIRONMENT:
 - Conditioning system with a range of $\pm 2,5^\circ$ in the main room and $\pm 1^\circ$ in the secondary room thanks to a better thermal insulation system
 - Forced air change system with microfiltration and preheating

Both laboratories are monitored in real time about electricity consumption, temperature, humidity, vibrations and light.

- In Room 2 has been added a new coordinate measuring machine Zeiss Accura II with CMM Touch probe 3D/VAST, that allows high precision controls on manufactured products. The surface scanning using Touch probe 3D/VAST guarantees high performance on our processes.




The staff is qualified in the use of measuring instruments, in the analysis of quality and control issues and in process analysis.

The instruments are suitable to control geometries, surfaces and hardness in accordance with UNI EN ISO 9001:2008.

The tools are maintained calibrated both internally and externally by accredited SIT laboratories.

The tools are managed through the management instrumentation Qtygest (www.qtygest.com). The traceability occurs through the RFID technology and the Easychip system (www.easychip.it).



	<p>1</p>	<p>COORDINATE MEASURING MACHINE ACCURA II 900x1200x800 CMM Touch probe 3D/VAST XT gold Resolution: 0,0001 mm Maximum uncertainty of measurement: $1.2\mu+(L/350)\mu$</p>
	<p>1</p>	<p>COORDINATE MEASURING MACHINE POLI Mod. GALAXY SC Resolution: 0,0001 mm Maximum dimensions: X=1050 mm, Y=750 mm, Z=500 mm. Completely retrofitted in 2014.</p>
	<p>1</p>	<p>3D COORDINATE MEASURING MACHINE Mod. TESA Micro-Hite 3D X=500 mm, Y=500 mm, Z=400 mm.</p>
	<p>3</p>	<p>TWO-DIMENSIONAL MEASUREMENT TESA MICRO-HITE PLUS POWERED H600</p>
	<p>1</p>	<p>TAR-AL Tool for the control of resetting of bore gauges and micrometers both for internal and external. Maximum length: 300mm.</p>
	<p>1</p>	<p>SURFACE-FINISH TESTING INSTRUMENT MITUTOYO SJ401 Measuring range: 800 μm Resolution: 0,000125 μm Drive-unit Straightness SJ-401: 0,3 μm/25 mm</p>

	<p>1</p>	<p>PROFILOMETER MITUTOYO CV 3200 H4 Measuring range: 100mm Resolution: 0.05µm Traverse linearity: 0.8µm / 100mm Linear displacement: $\pm(1+0.01L)\mu\text{m}$ Inclining range: $\pm 45^\circ$ (with X-axis inclination unit) Z2 axis (column) Vertical travel: 500mm.</p>
	<p>1</p>	<p>HARDNESS GAUGE MICRO-VICKERS CISAM ERNST TESTER Check hardness HB, HV Control scale: from 0,5kg to 10kg. Using a conductive indenter this tool measures the surface hardness and the thickness of the heat treatment up to 1,3 mm with a single test and respecting the integrity of the piece. The hardness load curve recorded provides information on the consistency and thickness of the surface layer.</p>
	<p>1</p>	<p>HARDNESS TESTER ROCKWELL CISAM ERNST</p>
	<p>90</p>	<p>PRIMARY MEASURING TOOLS (gauge blocks, rings, buffers)</p>
	<p>250</p>	<p>SECONDARY MEASURING TOOLS (bore gauges, bore gauges for gearing, micrometers, grooved, worm threads, inside micrometers, etc).</p>

Pre and after-sales services

	Pre-sales	After-sales
Thanks to the experience developed by the technical team, high design ability and the focus on the development and the quality of production processes, ART Meccanica provides its customers a wide range of services to satisfy even the more complex requests.	Production process value analysis	Traceability production lot/single product with serial numbering
	Process FMEA, etc.	Rc. product with a maximum of 3Mln€
	Codesign product	2-year warranty on all products
	Product industrialization	Statistical process control: CP/CPK and XR charts.
	Management to supply orders: Open, Closed, Kanban	Logistics management: raw and finished

Management systems and certifications

	Anno	Description
 SISTEMA DI GESTIONE CERTIFICATO UNI EN ISO 9001:2008	since 2003	Management system for quality: Certificate n° 3872. The management system of ART Meccanica is certified for the following activities: <ul style="list-style-type: none"> • Design and construction of mechanical fittings on costumers requirements; • Precision mechanical manufactings and mechanical carpentry on behalf of a third party; • Assembly of mechanical parts on costumers requirements.
 Guidelines UNI INAIL	2012	Management security system in accordance with the guidelines UNI INAIL.
Organizational System in accordance with D. Lgs. 231/01	2014	Model of organization, management and control in accordance with D. Lgs. 231/01.

Quality and service data 2012

Indicator	Measurement mode	Average value	Notes
Quality	PPM %	1.500 PPM 0,15%	Pieces produced: 110.000 Different figures: 644
Punctuality	Maximum delay: 2 days Maximum advance: 5 days	98,8%	Total deliveries: 3.985



NexmaGroup was founded in 2005 to satisfy production and services needs.

Modern technologies, a qualified staff, high-design ability and a know-how acquired in over 35 years of activity are the main strengths of the Group.

NexmaGroup provides its customers:

Production division



- Mechanical design
- Production technologies: lathes and working centers CNC, traditional and hobbing machines

Services division



- Logistics management
- Services for production
- 480 m² of covered warehouse



- Gps & Mobile systems
- Instrumentation & quality management
- Traceability systems based on su RfiD
- Data & WSN acquisition systems
- Security & telecommunications Voip
- Networking & Web