MGITALY

YOUR PARTNER IN METAL WORKING



MGITALY





Over the past forty years, we have cultivated an impressive repertoire of skills, coupled with the unwavering dedication of individuals who aspire to become trailblazers.

By always prioritizing the customer and their needs, we have been committed to achieving satisfactory results, not only in terms of professional accomplishments but also in promoting social progress, particularly in the field of environmental conservation.

Looking ahead, we remain steadfast in our commitment to continuous improvement and innovation. We understand that the path to success lies not only in achieving our professional goals but also in making a positive impact on society and the environment. Therefore, we will continue to push the boundaries of what is possible, leveraging our skills and dedication to pave the way for a brighter and more sustainable future for generations to come.

EXECUTIVE SUMMARY

VISION

We strive to offer cutting-edge technologies and innovative solutions that enhance productivity, efficiency, and precision across various sectors. Overall, our goal is to forge a strong and internationally renowned footing in the realm of mechanization and automation by developing advanced technologies, fostering collaborations, prioritizing robustness, and ensuring customer satisfaction. We believe that by pursuing these objectives, we can contribute to the growth and success of industries worldwide, while solidifying our position as a global leader in the field.

MISSION - INNOVATION, COLLABORATION& QUALITY

- Innovation: Our primary objective is to become a leading provider of mechanization and automation solutions by constantly investing in research and development. We aim to push the boundaries of what is possible in mechanization and automation.
- Colloborative Approach: In order to be recognized internationally, we are
 dedicated to building strong partnerships and cultivating a network of
 collaborators around the world. We actively seek collaborations with industry
 leaders, research institutions, and universities to foster knowledge exchange and
 promote technological advancements. By engaging in global collaborations, we
 can tap into a diverse pool of expertise, technologies, and market opportunities
 to strengthen our foothold in mechanization and automation.
- Quality: Achieving global acclaim in mechanization and automation requires a strong emphasis on quality and ensuring customer satisfaction. Our commitment lies in providing top-notch products and services that go above and beyond what our customers anticipate. Through our dedication to quality control and ongoing enhancement efforts, we aim to establish a reputation for outstanding product performance, dependability, and exceptional customer service.







CERTIFICATO N. CERTIFICATE N. 9190.MG02

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA DI WE HEREBY CERTIFY THAY THE QUALITY MANAGEMENT SYSTEM OPERATED BY

M.G. SRL

VIA SPARTACO LAVAGNINI 35 - 52027 SAN GIOVANNI VALDARNO (AR)

UNITA" OPERATIVE / OPERATIVE UNITS

Vedere gli Allegati per le Unità Operative (n° 2 allegati) View the Annexes for the Operative Units (n° 2 annexes) Operazioni esterne

E CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2015

PER LE SEGUENTI ATTIVITÀ" / FOR THE FOLLOWING ACTIVITIES

Lavorazioni meccaniche di precisione con macchine a controllo numerico, tornitura, fresatura e costruzioni meccaniche Precision macchining with CNC, turning, milling and machine building

riformazioni riguardanti l'applicabilità dei requelli ISO 9001:2015 possono essere obenute consultando l'erganizzaz clarifications regarding the applicability of ISO 9001:2015 requirements may be obtained by consultang the organiza

IL PRESENTE CERTIFICATO E SOGGETTO AL RISPETTO DEL REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS

PRIMA CERTIFIE FIRST CERTIFIE 2014-03-18

2023-03-02

2026-03-17

IQNET

MO S o A - VIA QUINTILIANO 41 -



ALLEGATO N. 9190.MG02-2 ANNEX N.

M.G. SRL

STABILIMENTO "LA MINIERINA 13" VIA LA MINIERINA 13 LOC. MELETO - 52022 CAVRIGLIA (AR)

Lavorazioni meccaniche di precisione con macchine a controllo numerico, tornitura, fresatura e costruzioni meccaniche Precision machining with CNC, turning, miting and machine building.

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PRIMA CERTIFIC FIRST CERTIFIC 2014-03-18

UANO, 43 -

ACCREDIA .

IAF: 17





Building trust together.

Certificate

CISQ/IMQ has issued an IQNET recognized certificate that the organization:

M.G. SRL

STABILIMENTO "LA MINIERINA 10" VIA LA MINIERINA 10 LOC. MELETO -52022 CAVRIGLIA (AR) Italy

STABILIMENTO "IL FERRINO" VIA FERRINO 2 - 52022 CAVRIGLIA (AR) Italy STABILIMENTO "LA MINIERINA 13" VIA LA MINIERINA 13 LOC. MELETO-52022 CAVRIGLIA (AR) Italy

> has implemented and maintains a Quality Management System

> > for the following scope

Precision machining with CNC, turning, milling and machine building

which fulfils the requirements of the following standard:

ISO 9001:2015

2023/03/02

Registration Number: IT - 92136-9190.MG02





CISQ is a member of ·

IQNET

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ALLEGATO N 9190 MG02-1 ANNEX N.

M.G. SRL

STABILIMENTO "LA MINIERINA 10" VIA LA MINIE NA 10 LOC. MELETO - 52022 CAVRIGLIA (AR)

Processi di supporto per lavorazioni meccariche di precisione con macchine a controllo numerico, tornitura, fresatura e costruzioni meccariche Support processes for precision machining with CNC, tuming, milling and machine building

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PER LA VALIDITA RIFERIRSI AL CERTIFICATO N. 9190 MGIO: FOR THE VALIDITY PLEASE REFER TO CERTIFICATE N. 9190 ME

2014-03-18

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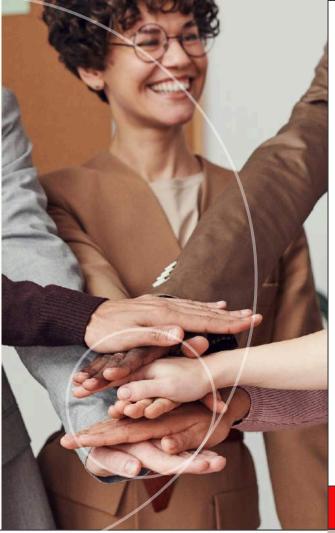
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One of the certifications we hold is the ISO 9001 certification, which demonstrates our adherence to a comprehensive quality management system. This certification verifies that our processes are well-defined, consistently implemented, and continuously improved to meet customer requirements and enhance customer satisfaction.



Our Business Model

A Client Centred Operation

At MG, we prioritize the customer and their needs at the core of our business decisions.

Our strategy is designed to embody this vision, ensuring that every choice made reflects the significance of customer well-being.

Our customer support team is available to assist with any inquiries or issues that may arise. They are highly trained and knowledgeable about our products and services, ensuring that our customers receive the best possible assistance.

Our Business Coordinator is responsible for managing all sales activities, from lead generation to closing deals. They work closely with our technical team to ensure that all opportunities are maximized and that our customers receive the best possible service.

MGITALY







Eco-Friendly Business

We want to emphasize one of the ambitions of our collective commitment to environmental protection. We are introducing new eco-friendly initiatives in our business processes to strengthen our commitment to sustainability.

We are constantly working to ensure that our processes are in line with the goal of preserving the integrity of the ecosystem, minimizing the negative impact on the environment.

Solar Powered Offices:

Our offices are fully sustainable with the help of photovoltaic installations. This step towards sustainability marks a significant milestone for our company.

Eco-friendly packaging:

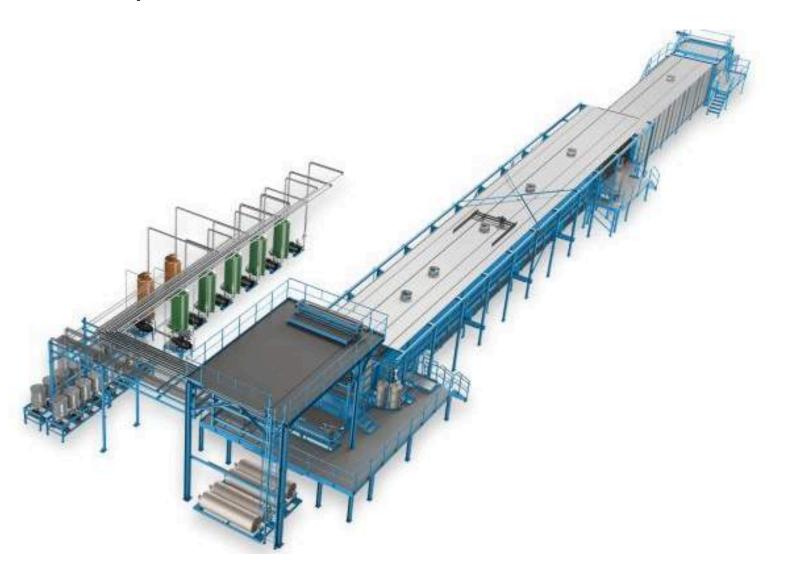
We aim to support the circular economy by ensuring that our packaging can be reused or recycled, thereby minimizing waste and reducing our environmental footprint. To achieve this, we have implemented various strategies and initiatives throughout our supply chain.





Future Plans & Commitments

The green light has been given for the development of a new automated production line.



Our production capacity is set to double with the upcoming expansion of our Heatsink Plus technological dissipators. This expansion will solidify our position as leaders in the energy sector. The MG group has chosen to invest in our new production line due to our remarkable technical accomplishments.

Our automated system will improve our capacity to process larger orders and fulfill the requirements of global markets.



Milestone: Team MG



- Our team is distinguished by the presence of a highly talented workforce, meticulously chosen for their expertise.
- The team has an average age of approximately 30 years, which reflects their dynamism and youthful energy. We are proud of the diversity achieved in terms of gender and nationality.

80% Women in Administrative Roles

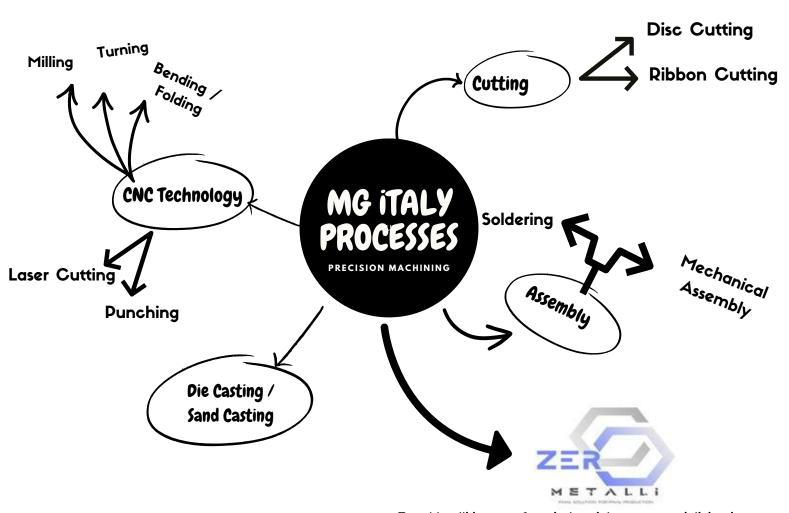
30% Women in production/non-administrative roles

25% Various ethnic backgrounds,









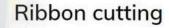
Zero Metalli is part of our industrial group, specializing in offering comprehensive services for treating metal surfaces. We utilize galvanic plants to cater to diverse production requirements.

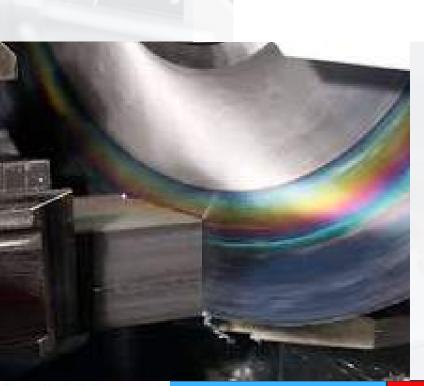




CUTTING SOLUTIONS

- MG iTALY has a state-of-the-art machine park that is regularly updated to meet high standards. With 7 dedicated cutting facilities, we are able to handle a wide range of processing needs from Ø 6 to Ø 200. We specialize in cutting round, square, rectangular, and special-shaped profiles.
- But we don't stop at cutting. Our facilities can also perform additional operations such as deburring, chamfering, threading, boring, turning, tapering, and washing. We work with various materials including carbon steel, aluminum and its alloys (6060, ergal, etc.), copper, bronze, and stainless steels in different alloys (AISI 304 - AISI 316 - INCONEL - DUPLEX - SUPER DUPLEX, etc.).
- Our cutting-edge machines allow us to achieve cuts of different classes, ensuring that we can meet the unique needs of each customer. Trust MG iTALY for all your cutting needs.





Disc Cutting



CNC TECHNOLOGY

MG utilizes Computer Numerical Control (CNC) to carry out mechanical processes. The process involves designing a program with a set of added commands that determine the position and rotation of the tool in a sequential manner. This way, its exact position and movement speed can be controlled in relation to the material used for manufacturing the required parts.

At our facility, we ensure that all our CNC machines are operated by dedicated personnel who take full responsibility for the flawless execution and precise measurements of the products. To ensure smooth operations, each operator diligently oversees their own production cycle, while a team of skilled staff carries out essential operations to guarantee topnotch results.



CNC MILLING

- At MG Italy, we excel in CNC milling, offering a wide range of services including prototyping, production, and customized finishing. Our expertise lies in working with various materials such as metal, plastic, and many other options, all tailored to meet our clients' specific preferences.
- We take pride in maintaining a constant monitoring of production progress, ensuring immediate traceability not only for completed tasks but also for ongoing ones.





CNC TURNING

MG's CNC rotation services are perfect for manufacturing complex components with tight tolerances. MG's commitment to quality control and inspection processes ensures that all finished parts meet the highest standards of precision and consistency. Whether it's a small prototype or a large-scale production, MG's services guarantee top-notch results.



CNC LASER CUTTING

- MG Italy has extensive expertise in laser cutting of metal sheets, handling sheets up to 4040 x 2000 mm in size.
- With our laser cutting machines, we can efficiently work on plates for multiple clients simultaneously, resulting in a significant reduction in waste and providing us with a competitive advantage.





CNC PUNCHING

- MG Italia boasts an impressive fleet of 25 CNC scoring machines, all expertly programmed to flawlessly maneuver the sheet metal in both the x and y directions.
- This entire process is closely monitored in real-time by highly skilled personnel, who are always on hand to oversee production and ensure high-quality results.

CNC FOLDING / BENDING

With our advanced CNC bending machines, MG Italy is able to provide exceptional CNC bending services that guarantee precise and high-quality outcomes.





Die-casting

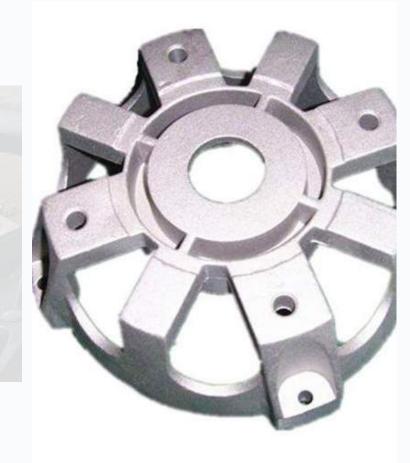


At MG Italia, we utilize CAD systems to guarantee precise flow analysis during casting, ensuring top-notch quality. Our laboratory is equipped with the capability to completely automate the milling process, tailored to meet the specific requirements of each customer.



Sand Casting

Additionally, we offer solutions for sand fusion in metals like steel, nickel, and titanium, all of which have elevated melting points.





ASSEMBLY

Due to our vast knowledge and experience, we have become specialists in building and assembling industrial plant and machinery groups. Our mechanical process is now finished, enabling us to offer top-quality services in this field.

Furthermore, we are proficient in conducting internal equipment group assemblies customized to meet individual needs. Our dedication to delivering outstanding care, attention, and excellence has garnered the trust and appreciation of our valued clients throughout our successful partnership.



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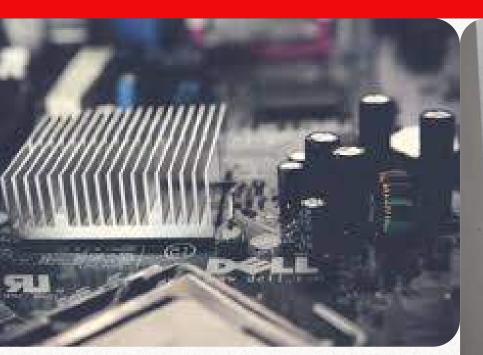
Mechanical Assemblying

MG provides assembly services for mechanical parts and components produced in accordance with customer specifications. MG has a dedicated team of assembly specialists along with experienced quality control staff to ensure accuracy and efficiency in component assembly. With modern machinery, we can handle medium-sized projects up to 30,000 pieces.

Soldering / Welding

- At MG, our exceptional metal welding department takes pride in its ability to handle a wide range of material processing tasks. Our highly skilled team is experienced in welding metal parts and providing top-notch welding services to external clients. With their expertise, we guarantee precise and efficient operations every time.
- The state-of-the-art machines in the lab, combined with the expertise and efficiency of the staff, position MG as a key player for numerous national and international companies.





OUR HEAT SINK SOLUTIONS

Excessive and unmanaged temperature can significantly decrease the lifespan and integrity of electronic devices, making them unbearable and therefore unreliable. MG Italia specializes in manufacturing high-end innovative heat sinks.



The assembled dissipators are formed by mechanically assembling individual wings, giving them both high dimensional flexibility and the same mechanical characteristics as extruded dissipators. However, by focusing on the section of a single wing, the number of wings and their arrangement can be adjusted to make them ideal for high-power systems with forced convection.

MG SKIVED Technology

With the MGSKIVED technology, we can surpass the limitations of the thickness-length ratio in conventional heat sinks. Our machines are capable of producing high-density and highly efficient heat dissipators. Thanks to this innovative technology, we have the flexibility to create heat sinks using either copper or aluminum materials.



Extruded Technology

Extrusion technology is utilized for both natural and forced convection in medium power systems, offering a variety of shapes (T, H, L, K, E, U, P), widths, and heights in increasing sizes. MG guarantees mechanical processing tailored to customer specifications, ensuring the final product meets high standards of reliability and quality.



Welded Technology

In order to obtain larger profile sizes that cannot be easily achieved through extrusion, it is possible to weld together two or more extruded profiles. Welding offers great flexibility in meeting the customer's dimensional needs and can be utilized for any alterations to existing profiles.



MG ITALY

HEAT PLUS TECHNOLOGY

The Heat Plus technology revolutionizes the thermal dissipation sector, ensuring efficient cooling for a wide range of electronic components. With an innovative design and high-quality materials, this technological solution guarantees superior performance, keeping the temperature of electronic devices stable even in the most extreme conditions.

MECHANICAL PROPERTIES						
	RESISTANCE	STRESS- STRAIN TEST (0.2)	ELONGATION / STRETCH	HARDNESS	MODULUS OF ELASTICITY	
Aluminium EN AW-1050A	80 N/mm ³	35 N/mm³	38%	21HB	65 kN/mm³	
Aluminium EN AW-6101B	120 N/mm ³	70 N/mm ³	9%	25HB	69 kN/mm ³	
Copper	210 N/mm ³	120 N/mm ³	45%	45HV	110 kN/mm ³	

CHEMICAL COMPOSITION

	sI	Fe	Mn	Mg	Cu	Zn	TI	Altri	AI
Aluminium EN AW- 1050A	0.25	0.40	0.05	0.05	0.05	0.07	0.05	0.03(uno)	99.5(min)
Aluminium EN AW- 6101B	0.30- 0.60	0.10- 0.30	0.05	0.35- 0.60	0.05	0.1		0.038uno)	98.2(min)
Copper	S Dept. 3	-		-5	99.5(min)		-	0.05(tot)	

PHYSICAL PROPERTIES

	DENSITY	THERMAL CONDUCTIVITY	ELECTRIC CONDUCTIVITY	THERMAL LINEAR EXPANSION COEFFICIENT
Aluminium EN AW-1050A	2.70 kg/dm²	229 W/mK	35.4 m/Ωmm²	23.6 10 -6 1/K
Aluminium EN AW-6101B	2.70 kg/dm²	219 W/mK	32.6 m/Ωmm²	23.4 10- 6 1/K
Copper	8.93 kg/dm²	390 W/mK	57.0 m/Ωmm ²	16.8 10 -6 1/K

APPLICATION PROPERTIES

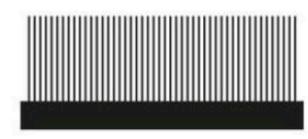
	MACHINABILITY	SOLDERABILITY	CORROSION RESISTANCE	BEND	SURFACE TREATMENT
Aluminium EN AW- 1050A	Average	Good	Excellent	Good	Good
Aluminium EN AW- 6101B	Good	Excellent	Excellent	Average	Good
Copper	Average	Good	Good	Good	Good



TECHNOLOGY

HeatPlus

Heatsink Width (W)	max 1000 mm (without welding			
Heatsink Lenght (L)	max 1300 mm			
Base Thickness (BT)	8 ÷ 50 mm			
Fin Height (FH)	max 190 mm			
Fin Thickness (FT)	1 ÷ 3 mm			
Fins Distance (FD)	min 2 mm			
Aspect Ratio (FH/FD)	max 95:1			
Tolerances on dim. & machining	ISO 2768-mk			
Material	EN AW-1050A - EN AW-6101B - Copper			



TECHNOLOGY

UltraHeat

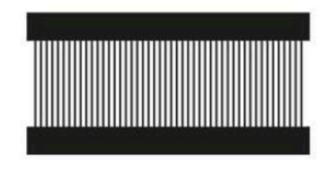
Heatsink Width (W)	max 1000 mm (without welding
Heatsink Lenght (L)	max 1300 mm
Base Thickness (BT)	8 ÷ 50 mm
Fin Height (FH)	max 190 mm
Fin Thickness (FT)	0,8/4mm
Fins Distance (FD)	min 1 mm
Aspect Ratio (FH/FD)	max 95:1
Tolerances on dim. & machining	ISO 2768-mk
Material	EN AW-1050A - EN AW-6101B - Copper



TECHNOLOGY

DoubleHeat

Heatsink Width (W)	max 1000 mm (without welding)
Heatsink Lenght (L)	max 1300 mm
Base Thickness (BT)	8 ÷ 50 mm
Fin Height (FH)	max 190 mm
Fin Thickness (FT)	0,8 / 4 mm
Fins Distance (FD)	min 2 mm
Aspect Ratio (FH/FD)	max 95:1
Tolerances on dim. & machining	ISO 2768-mk
Material	EN AW-1050A - EN AW-6101B - Copper





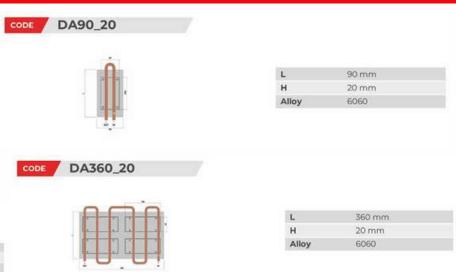
>>> CENTRALISED LIQUID COOLING SYSTEM

MG Italy is at the forefront of liquid cooling technology, providing cutting-edge heating systems that are tailored to guarantee the efficient functioning of powerful devices like CPUs and GPUs for extended durations.



WATER HEATSINK PROFILES





UPDATE



After months of in-depth research and rigorous testing, we are thrilled to introduce the groundbreaking COLDPLATE. Our thermal efficiency department has meticulously crafted this high-performance product with exceptional features that allow it to cool a remarkable 27% more effectively.



ELETROMECHANICAL COMPONENTS

Whether you are a small-scale electronics manufacturer or a large multinational corporation, we have the capabilities and expertise to fulfill your component and equipment part requirements. With our reliable products, exceptional customer service, and commitment to excellence, we aim to be your trusted partner in the electronics industry.



CONNECTIONS & BUSBARS

HIGH POWER PROTECTIONS







SMALL PARTS AND COMPONENTS



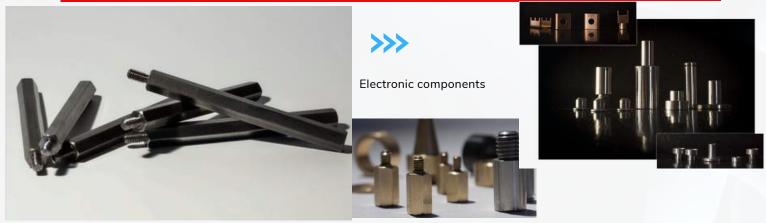


We excel in manufacturing small electronic components, thanks to our advanced CNC TURNING processing capabilities.



Design elements, completing motherboards, hydraulic pressure systems.











Send us your technical drawings!!

