EN

MG ITALY

Pioneering Mechanics Leading Innovation

CATALOG

PRODUCTS & PROCESSES

COMPETITION IS NOT ABOUT
WHAT COMPANIES PRODUCE.
BUT WHAT THEY
ADD TO THE PRODUCT.

mgitaly.it

MG ITALY

Pioneering Mechanics, Leading Innovation

Competition is not about what companies produce, but about what they are able to add to the product.

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MG ITALY

Pioneering Mechanics. Leading Innovation

Leading group in mechanical machining and automation worldwide. Over the years, our group has remained fully committed to being a top-level manufacturer in high-precision machining and high-quality electromechanical components.

100+
Employees

3
Production plants

4.00 Sqm
Surface

25
Production lines

MG develops and produces heat dissipation systems with different technologies, air, liquid, and many others. Our organization is engaged in different sectors: Continuous Facades, Furniture, Transportation, Cooling Company, Automotive, Electronics, Civil and Military Defence, Design Lighting, Motors, Aerospace, Photovoltaic, many others.

Our group today covers an area of 4,000 square meters with over 100 operators and employees and operates in the sector of precision machining for industries of various sectors making use of constantly updated infrastructures and production plants.

Mission e Vision

Teamwork is the ability to work together toward a common vision.
The ability to direct individual accomplishments toward organizational objectives.

Experience and Expertise

Technical expertise at the service of our customer

Our technical staff, thanks to their considerable experience, will be able to deal reactively and with excellent quality and innovative solutions for any of your needs.
A unique service that has allowed us, over the years, to attract the attention of companies on a global level as well.

UNI EN ISO 9100:2018 CERTIQUALITY SISTEMA DI GESTIONE QUALITÀ CERTIFICATO

UNI EN ISO 14001:2015 CERTIQUALITY SISTEMA DI GESTIONE QUALITÀ CERTIFICATO

UNI EN ISO 45001:2018 CERTIQUALITY SISTEMA DI GESTIONE QUALITÀ CERTIFICATO

UNI EN ISO 9001:2015 CERTIQUALITY SISTEMA DI GESTIONE QUALITÀ CERTIFICATO

Company Quality

**Our organization is in continuous development,
in a continuous search to improve each of its processes.**

Our Top Management is continuously and systematically involved in the implementation, maintenance, development and improvement of the Quality Management System.

In Quality Management System (QMS) which allows to guarantee the achievement of the set objectives and customer satisfaction, in compliance with the applicable reference Standards and Directives, as well as with the specific contractual requirements.

POR CreO — Unione Europea — Repubblica Italiana — Regione Toscana

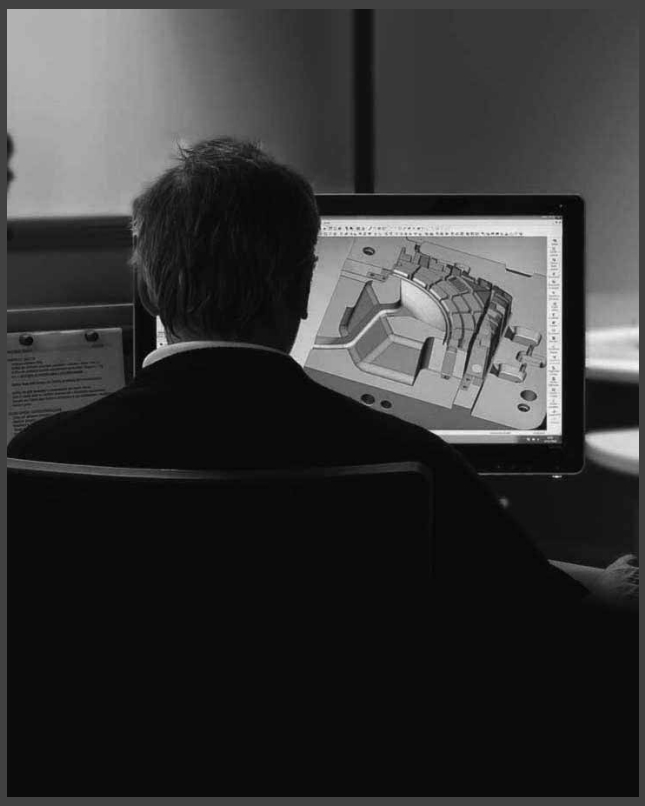
OUR BASIC PRINCIPLES

- ✓ *Satisfaction and focus on customer needs*
- ✓ *Always improving products and services offered*
- ✓ *Compliance with the requirements specified by customers*
- ✓ *Compliance with ASD customer requirements*
- ✓ *Compliance with workplace safety regulations*
- ✓ *High healthy and safety standards and regulations*
- ✓ *ISO 9001 QMS*
- ✓ *International Management System*

Company Profile

In 40 years we have developed an extraordinary set of skills accompanied by the typical commitment of those who want to be leaders and always placing the customer and their needs at the center of their business decisions, we have worked hard to obtain gratifying results both professionally and socially with particular regarding environmental protectio.

On these premises, the company management has invested considerable energy to instill a new corporate culture understood as a consolidated and widespread practice in all sectors of the company. An ethical culture whose fundamental pillars are found in the values that have always distinguished our Company.



Company Structure

- ✓ Technical ability of operators to identify customer problems
- ✓ Many years of knowledge based on continuous technical updating and on maintaining high quality standards
- ✓ International team, English, German, Spanish and Russian native speakers
- ✓ Technical personnel with a notable and consolidated background gained through multiple and heterogeneous experiences in diversified sectors
- ✓ Carefully selected suppliers, according to a production chain system

Global Presence

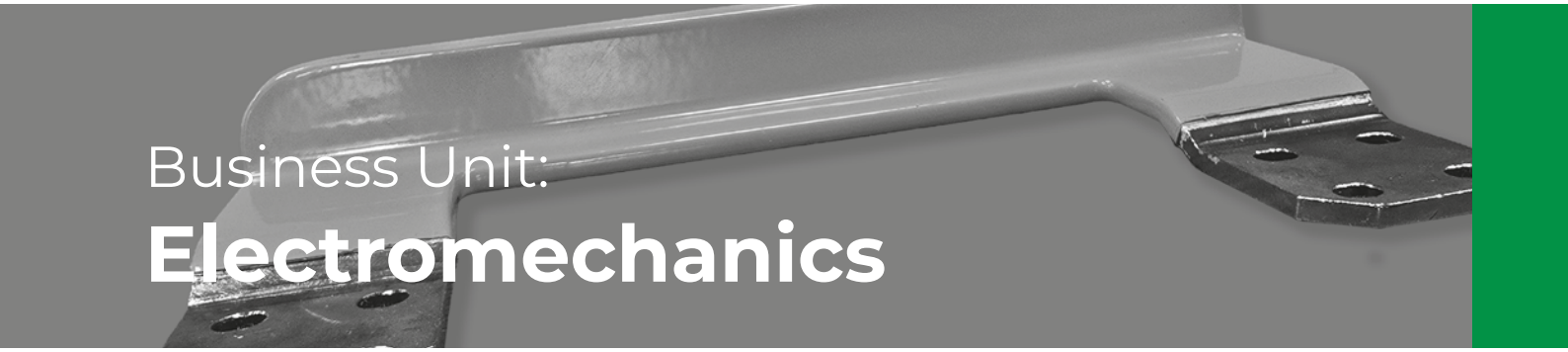
We have many years of knowledge based on continuous technical updating and on maintaining high quality standards in order to ensure high corporate competitiveness. The company management has thought of a flexible and adequate structure built according to the suggestions of the customers to better assist them.

- **Spain**
  Aerospace, Furniture, Nautical, Bus Bar
- **USA**
  Dissipation, Electric Mobility, Bus Bar
- **Germany**
  Aerospace, Electronics, Automotive, Bus Bar
- **Slovakia / Poland**
  Power Electronics, Industry, Naval, Bus Bar
- **Italy**
  Industry, Electronics, Renewable Energy, Bus Bar
- **Switzerland**
  Industry, electronics, and renewable energy, Bus Bar
- **United Kingdom**
  Industry, electronics, and renewable energy, Bus Bar
- **Turkey**
  Industry, electronics, and renewable energy, Bus Bar
- **Morocco / Algeria**
  Industry, electronics, and renewable energy, Bus Bar

Business Unit

Our main strength is our highly qualified personnel who, having the latest generation machinery, the result of constant investments, are able to achieve increasingly stringent quality standards.

The continuous refinement of production technologies, combined with the experience gained in more than forty years of mechanical machining, makes the company the ideal partner for customers operating in different application sectors.



Business Unit:
Electromechanics

FLEXIBLE BUSBARS

Round, tubular and flat copper braids are an extra flexible conductor for all electrical connection needs, including power, earth and equipotential connections.

The new copper-insulated flexible bar, produced in a new and advanced production plant, is the only flexible bar and stands out, through the innovative features, for its high flexibility, excellent appearance and easy use. The “barrel” insulator is used as an insulating support for active conductors, a support for electrical equipment, a spacer and/or stiffening element of a system made up of conductor bars (in copper and/or aluminium).

RIGID BUSBARS

In our Electronics division, we make all the connection components in copper and not only. The materials are chosen according to the needs each project.

We have various busbar solutions, which are designed together with our customers. Each project is created according to your needs.

BUS BAR _ BENDING

It is a highly technological process that allows the bus bars to be produced directly from the bar. This optimizes bending operations and enables any type of inclination, offering better performance in terms of material yielding and shorter processing times. Additionally, the material can be supplied already resin-coated. This allows us to stay competitive while providing a highly technological product. We offer various Bus Bar solutions, which are designed in collaboration with our Clients. Every project is developed according to your specific requirements.

THERMO RESIN (BUS BAR INSULATION)

Potting is the application of an insulating resin that, once hardened, creates a protective layer around the bus bars. This layer provides:

- Electrical insulation: prevents short circuits or discharges between phases or to ground.
- Environmental protection: against moisture, dust, chemicals, and corrosion.
- Mechanical strength: reinforces the component against vibrations and impacts.
- Compaction: allows for shorter distances between conductors compared to traditional air insulation.

BUS BAR SUPERFICIAL TREATMENTS

Nickel and tin plating of bus bars (copper or aluminum bars) serve to protect the metal and enhance its electrical and mechanical performance.

- Nickel plating creates a corrosion-resistant barrier and improves tin adhesion.
- Tin plating protects against oxidation, enhances solderability, and maintains good electrical conductivity over time.

These treatments are essential to ensure reliability, durability, and safety in electrical and industrial environments—especially where there are harsh environmental conditions or frequent connections.

Business Unit:

Thermal management

TECHNOLOGY

EXTRUDED HEATSINKS

We are one of the world's leading companies in the production of aluminum heat sinks.
Our core activities include the design, development, and engineering of profiles for the creation of finished products.
Innovative and flexible, we are able to provide customized solutions for every type of application.
We manufacture extruded and assembled heat sinks, tailored to meet our clients' specific needs.
With over 40 years of experience, we continuously develop new ideas. Our product range includes more than 1,000 extruded aluminum profiles and over 20,000 finished products.

VAPOR CHAMBER COOLING

MG ITALY's vapor chambers offer an advanced solution for heat dissipation in high-performance applications.Thanks to the physical principle of phase change, heat is rapidly distributed across the entire surface, effectively eliminating hot spots. Compact and customizable, they are ideal for high-density electronic devices or space-constrained environments. Manufactured with high-quality materials and precision techniques, they ensure efficiency, reliability, and long operational life.

ASSEMBLED HEATSINKS

MG ITALY's PA series assembled heat sinks are designed for the most demanding applications in terms of power and thermal dissipation. Each fin is mechanically inserted with precision, ensuring optimal thermal conduction and minimizing losses. The modular design offers great flexibility in terms of size and configuration, providing custom solutions for any requirement.
Robust and durable, they are ideal for forced-air cooling environments and critical operating conditions.

MG SKIVED HEATSINKS

MG ITALY offers a line of finned heat sinks manufactured using skived fin technology, where the fins are formed directly from a single block of metal—with no welding or bonding involved.
This ensures exceptional thermal conductivity and superior heat dissipation performance.
Available in various sizes, geometries, and materials (aluminum or copper), they provide versatile and customizable solutions. Ideal for both passive and active cooling, they deliver reliable performance even in harsh environments.

HEAT SINK PLUS

This technology allows us to offer fully custom heat sinks while maintaining the characteristics and performance of a standard solution.

The process involves the mechanical assembly of the base and fins using exclusive, proprietary MG ITALY technologies. This enables us to guarantee superior thermal performance and outstanding mechanical properties.A truly innovative product line: fully custom heat sinks, created through the mechanical joining of base and fins, utilizing MG ITALY's proprietary technology.

The mechanical characteristics are compatible with 6000-series alloys, with an aspect ratio coefficient of 96:1.

From raw material to finished product, the thermal performance of our solutions is enhanced and unmatched compared to other offerings on the market today.

We guarantee an average reduction in thermal resistance between 8% and 15%.

New Arrivals

Z-FIN PLUS: The New Frontier of Thermal Dissipation

Conventional heat sinks quickly reach their limits. As heat increases, technology must evolve—this is why MG ITALY has developed a new range of high-tech, high-performance thermal solutions.

Z-FIN PLUS is the latest innovation from MG ITALY: maximum efficiency, innovative design, and high-performance alloy.

The new Z-FIN PLUS heat sink is designed to maximize thermal exchange through a revolutionary geometry.

Its defining feature is the use of high-performance interlocking serrated fins.

- Increased heat exchange surface
- Greater turbulence → improved dissipation
- Reduction of hot spots
- Advanced materials: aerospace-grade aluminum, high-conductivity copper, and high thermal conductivity alloys

Added Value

- Compact yet powerful
- Compatible with the most common [CPU / GPU / components]
- Easy to install
- Up to 30% increase in thermal efficiency

LIQUID COOLING

COLD PLATE

The COLD_PLATE solution is the optimal choice for efficiently managing complex systems with high concentrated power.
Water cooling is increasingly becoming the ideal alternative for dissipating high power levels.
This system avoids noise and issues caused by vibrations, making it suitable even for dusty environments where forced-air cooling is not an option.

MG VORTICOLD

MG ITALY manufactures liquid-cooled cold plates featuring exclusive Turbulator technology, available in both standard and custom versions. This innovative system improves cooling capacity by 30% compared to traditional plates, thanks to an optimized liquid flow. The vacuum brazing process ensures high mechanical strength, even in harsh, acidic, or corrosive environments.
The resulting joints are compatible with different metals, long-lasting, and highly reliable.

MG UX COLD PLATE

MG ITALY leverages its expertise in vacuum brazing to manufacture high-performance cold plates with excellent thermal conductivity and complete leak-tightness.
These components are designed for complex industrial applications where heat management is critical—such as in power systems, precision lasers, medical devices, aerospace, and renewable energy sectors. Each plate undergoes a strict quality control process, certifying its reliability even under extreme and continuous operating conditions.
The combination of high-quality materials, advanced manufacturing processes, and Italian precision ensures long-lasting reliability and superior performance over time.

Business Unit:
Industrial solutions

This division specializes in mechanical machining using CNC Milling and Turning centers, based on the technical drawings provided by clients or developed by our in-house engineering team.
The machines on our production lines are state-of-the-art and continuously updated to ensure high-performance and cost-effective operations. The entire process is monitored through our operational procedures, which ensure both quality control and on-time delivery across all productions. Visit www.mgitaly.it.

Weldings & Vacuum System

Vacuum technology is based on creating and maintaining a low-pressure environment, in some cases comparable to that of outer space. This is achieved through pumping systems capable of removing air—and thus oxygen, nitrogen, moisture, particulate matter, and other substances—

from a sealed chamber. The result? A partial or near-absolute vacuum, where physical laws behave significantly differently compared to the atmospheric environment.

Laser, TIG, MIG/MAG, and a dedicated robot for high-quality welding services:
• 1 Welding Robot
• Various TIG and MIG welding machines

Plastic materials

Plastic Materials for Electrical Insulation and Mechanical Components
Once in operation, every system requires a powerful and reliable electrical setup. Generators, transformers, and electrical panels must always be aligned with the system's expected performance and structure. We support your construction process with our thermosetting semi-finished products, which have been used in the electrical industry worldwide for over 40 years. Highly resistant to electrical, mechanical, and thermal stress, our materials help you develop generators, transformers, and electrical panels with enhanced operational safety.

Your Advantages • High operational safety • Long service life • Low flammability • High electrical stability • High mechanical stability • Excellent thermal resistance

Fields of Application • Electrical systems • High-power installation • Energy cooling systems, UPS • Systems with high operating temperatures

Materials Used: GPO3 – PVC – Lexan – FR4 (Glass Epoxy / Vetronite)

Milling

With a fleet of over 15 high-level machining centres, MG proposes itself as prime contractor for carrying out mechanical machining to customer drawings, in order to guarantee the production of high precision parts with limited time and cost.
All CNC machines are always manned by assigned personnel who are exclusively responsible for the good execution and dimensional control of the product they are making. To make this way of working possible, the department heads supervise the production cycle, while other qualified personnel carry out some necessary and fundamental operations.

Turning

In the field of high precision machining, MG also offers CNC turning service. We have state-of-the-art CNC turning machines.
Thanks to the computerized detection of work phases, the company can guarantee constant real-time control of the progress of production, together with the immediate traceability of the processes carried out or still in progress.

Business Unit:

Die Casting

We operate in the aluminum die casting sector and, thanks to the experience gained over the past decades, we offer a complete service—from mold manufacturing to the supply of the machined and tested part. We handle all customer requests, performing mechanical processing on die-cast parts and executing aesthetic finishes. Often, customers prefer to entrust us with the finishing stage as well, to speed up the process and have a single point of contact, without needing to oversee every phase. The company provides die casting for any aluminum alloy. In addition to the most commonly used ones (EN AB-43400, EN AB-44300, EN AB-46000, EN AB-46100, EN AB-47100), we also use special alloys such as Silafont 36. All the aluminum melted in the central furnaces is treated through degassing and slag removal using nitrogen and salts.

Business Unit:

Metal Plates

Industrial metalworking includes the design, manufacturing, and assembly of complex metal structures, such as frames, systems, machine components, and infrastructure. In recent years, the sector has undergone significant development thanks to the adoption of advanced technologies that enhance efficiency, precision, and sustainability.

MG Italy is equipped with a range of state-of-the-art machinery:

3 fiber laser systems with automatic loading and unloading, and 2 punching machines:

- 1 Amada LCG-AJ 6KW laser cutter with automatic storage
- 1 Amada ENSIS 3015 AJ 2KW laser cutter with automatic storage
- 1 Trumpf TruLaser 5030 fiber (L76) laser cutter with automatic storage
- 1 Trumpf 3000 punching machine with automatic loading/unloading
- 1 Rainer punching machine

Bending:

- 6 press brakes
- 1 automatic panel bender with swing bending system
- 1 robotized bending cell HG ATC ARS Amada
- 1 robotized bending cell Starmatick

Technology
EXTRUDED

The aluminum extrusion process makes it possible to obtain profiles of infinite, even complex shapes.

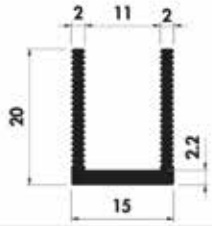
By varying the shape of the profile, changing the contact surface with the air and, consequently, the dissipation capacity.

By varying the shape of the profile, changing the contact surface with the air and, consequently, the dissipation capacity.

The extruded heat sinks are presented subdivided by shape (T, H, L, K, E, U, P), width and height, and organized in increasing order of size. MG follows mechanical processes following the customer's requests, guaranteeing reliability and quality of the finished product.

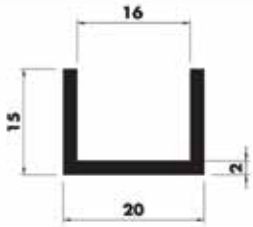
MG ITALY
Pioneering Mechanics Leading Innovation

CODE DE15_20



Kg/mt	0.25 Kg/mt
L	15 mm
H	20 mm
Rth,F	4.750 K/W
Rth,N	14.10 K/W
Alloy	6061

CODE DE20_15

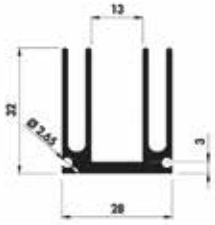


Kg/mt	0.24 Kg/mt
L	20 mm
H	5.590 K/W
Rth,F	16.60 K/W
Rth,N	15 mm
Alloy	6061

CODE DE21.3_91.3

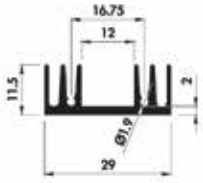
Kg/mt	1.898
L	21.3 mm
H	91.3 mm
Alloy	6061

CODE DE28_32



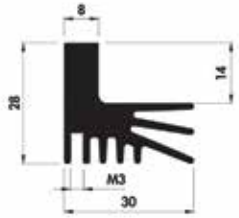
Kg/mt	0.73 Kg/mt
L	28 mm
H	32 mm
Rth,F	2.650 K/W
Rth,N	7.80 K/W
Alloy	6061

CODE DE29_12



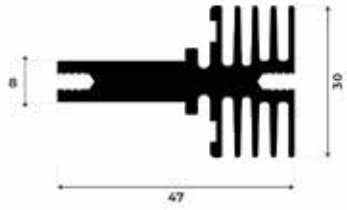
Kg/mt	0.35 Kg/mt
L	29 mm
H	11.50 mm
Rth,F	3.850 K/W
Rth,N	11.50 K/W
Alloy	6061

CODE DE30_28



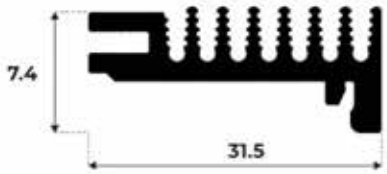
Kg/mt	0.98 Kg/mt
L	30 mm
H	28 mm
Rth,F	2.889 K/W
Rth,N	9.30 K/W
Alloy	6061

CODE DE30_47



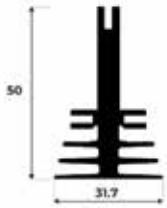
Kg/mt	1,3 Kg/mt
L	30 mm
H	47 mm
Rth,F	4.29 K/W
Rth,N	2.99 K/W
Lega	6060

CODE DE31.5_7.4



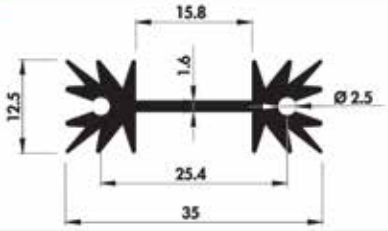
Kg/mt	5.068 Kg/mt
L	31.5 mm
H	7.4 mm
Alloy	6061

CODE DE31.7_50



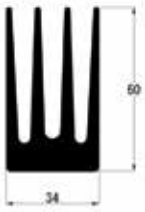
Kg/mt	1.161 Kg/mt
L	31.7 mm
H	50 mm
Rth,F	1.86 K/W
Rth,N	5.6 K/W
Alloy	6061

CODE DE34.5_12



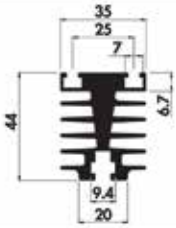
Kg/mt	0.43 Kg/mt
L	34.5 mm
H	12.50 mm
Rth,F	3.450 K/W
Rth,N	10.20 K/W
Alloy	6061

CODE DE34_60



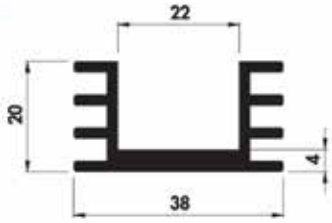
Kg/mt	2.84 Kg/mt
L	34 mm
H	60 mm
Rth,F	1.170 K/W
Rth,N	3.50 K/W
Alloy	6061

CODE DE35_44



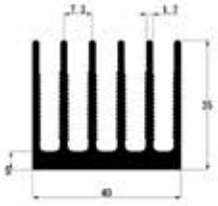
Kg/mt	2 Kg/mt
L	35 mm
H	44 mm
Rth,F	1.880 K/W
Rth,N	5.60 K/W
Alloy	6061

CODE DE38_20



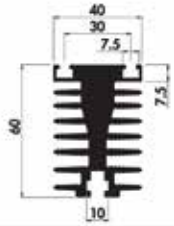
Kg/mt	0.71 Kg/mt
L	38 mm
H	20 mm
Rth,F	3.250 K/W
Rth,N	9.50 K/W
Alloy	6061

CODE DE40_35



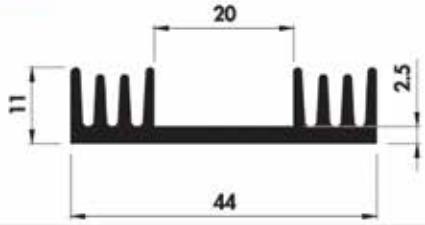
Kg/mt	1.73 Kg/mt
L	40 mm
H	35 mm
Rth,F	1.17 K/W
Rth,N	3.50 K/W
Alloy	6061

CODE DE40_60



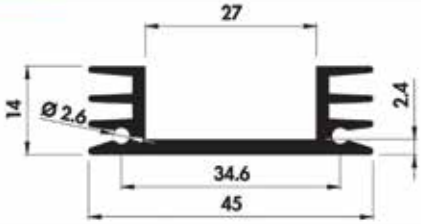
Kg/mt	3.41 Kg/mt
L	40 mm
H	1.450 K/W
Rth,F	4.30 K/W
Rth,N	60 mm
Alloy	6061

CODE DE44_11



Kg/mt	0.56 Kg/mt
L	44 mm
H	11 mm
Rth,F	3.250 K/W
Rth,N	9.09 K/W
Alloy	6061

CODE DE45_14



Kg/mt	0.55 Kg/mt
L	45 mm
H	14 mm
Rth,F	3.210 K/W
Rth,N	9.70 K/W
Alloy	6061

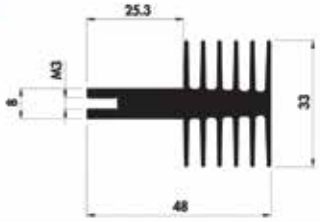
CODE DE46-33

Kg/mt	2.077 Kg/mt
L	100 mm
Rth,F	0.87 K/W
Rth,N	2.58 K/W
H	33 mm

CODE DE46-33

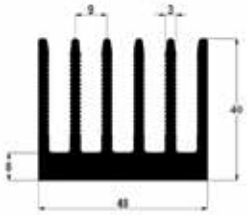
Kg/mt	2.077 Kg/mt
L	100 mm
Rth,F	0.87 K/W
Rth,N	2.58 K/W
H	33 mm

CODE DE48_33



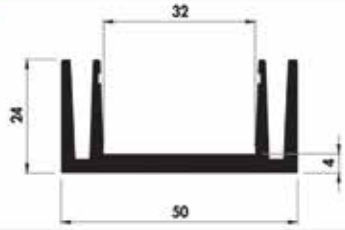
Kg/mt	1.45 Kg/mt
L	48 mm
H	33 mm
Rth,F	1.990 K/W
Rth,N	5.90 K/W
Alloy	6061

CODE DE48_40



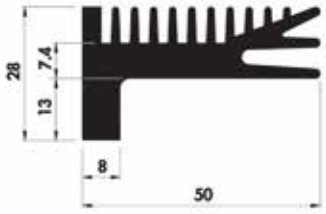
Kg/mt	2.45 Kg/mt
L	48 mm
H	40 mm
Rth,F	1.240 K/W
Rth,N	3.70 K/W
Alloy	6061

CODE DE50_24



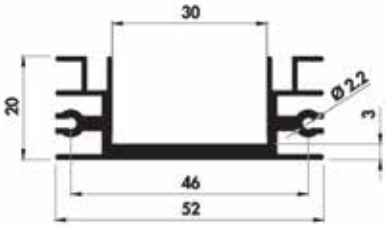
Kg/mt	1.03 Kg/mt
L	50 mm
H	2.750 K/W
Rth,F	8.30 K/W
Rth,N	24 mm
Alloy	6061

CODE DE50_28



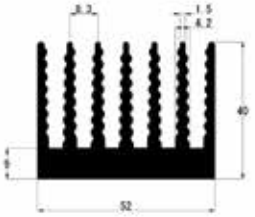
Kg/mt	1.65 Kg/mt
L	50 mm
H	28 mm
Rth,F	2.410 K/W
Rth,N	7.20 K/W
Alloy	6061

CODE DE52_20



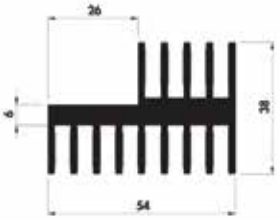
Kg/mt	0.73 Kg/mt
L	52 mm
H	0.259 K/W
Rth,F	6.75 K/W
Rth,N	20 mm
Alloy	6061

CODE DE52_40



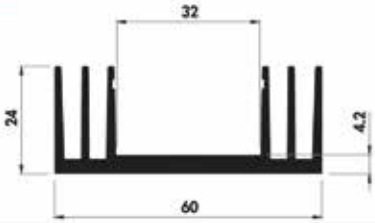
Kg/mt	2.79 Kg/mt
L	52 mm
H	40 mm
Rth,F	1.050 K/W
Rth,N	3.10 K/W
Alloy	6061

CODE DE54_38



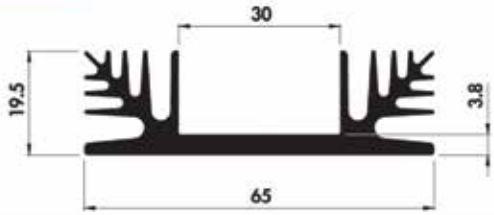
Kg/mt	2.20 Kg/mt
L	54 mm
H	38 mm
Rth,F	4.50 K/W
Rth,N	4.50 K/W
Alloy	6061

CODE DE60_24



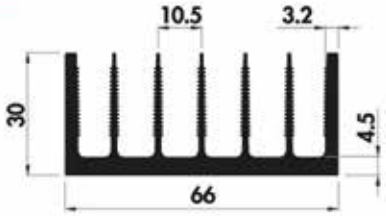
Kg/mt	1.22 Kg/mt
L	60 mm
H	2.210 K/W
Rth,F	6.03 K/W
Rth,N	24 mm
Alloy	6061

CODE DE65_19.5



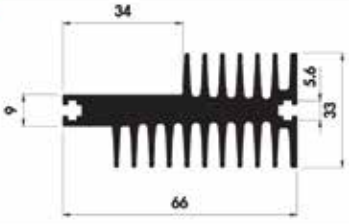
Kg/mt	1.25 Kg/mt
L	65 mm
H	1.989 K/W
Rth,F	5.85 K/W
Rth,N	19.50 mm
Alloy	6061

CODE DE66_30



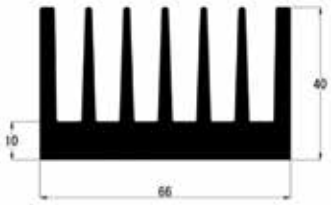
Kg/mt	1,742 Kg/mt
L	66 mm
Rth,F	0,99 K/W
Rth,N	2,9 K/W
H	30 mm

CODE DE66_33



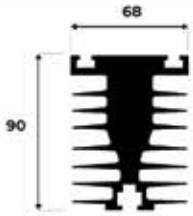
Kg/mt	2.43 Kg/mt
L	66 mm
H	33 mm
Rth,F	1.480 K/W
Rth,N	4.40 K/W
Alloy	6061

CODE DE66_40



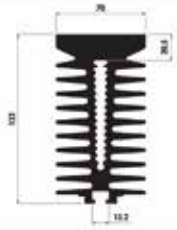
Kg/mt	3.47 Kg/mt
L	66 mm
H	40 mm
Rth,F	0.990 K/W
Rth,N	3.10 K/W
Alloy	6061

CODE DE68_90



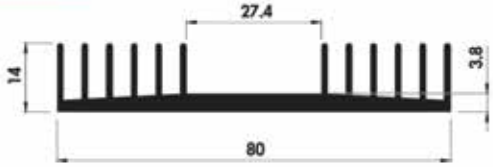
Kg/mt	8,66 Kg/mt
L	68 mm
Rth,F	0.411 K/W
Rth,N	1.22 K/W
H	90 mm

CODE DE70_132



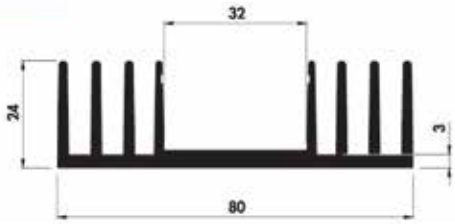
Kg/mt	13.22 Kg/mt
L	70 mm
H	132 mm
Rth,F	0.830 K/W
Rth,N	2.25 K/W
Alloy	6061

CODE DE80_14



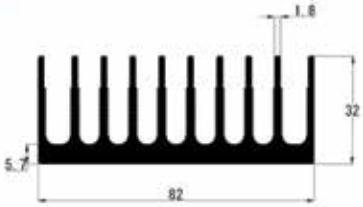
Kg/mt	1.18 Kg/mt
L	80 mm
H	14 mm
Rth,F	1.395 K/W
Rth,N	4.05 K/W
Alloy	6061

CODE DE80_24



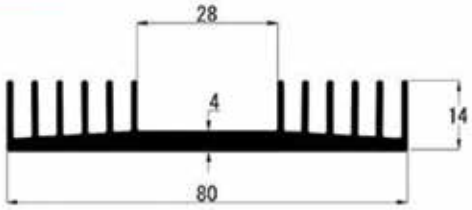
Kg/mt	1.72 Kg/mt
L	80 mm
H	24 mm
Rth,F	1.830 K/W
Rth,N	5.40 K/W
Alloy	6061

CODE DE82_32



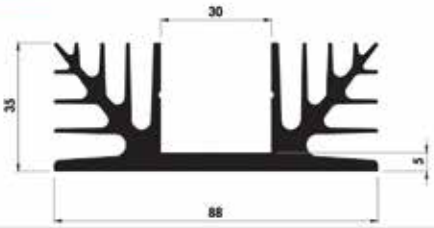
Kg/mt	2.99 Kg/mt
L	82 mm
H	32 mm
Rth,F	0.670 K/W
Rth,N	2.60 K/W
Alloy	6061

CODE DE84_14



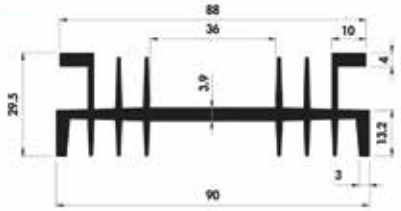
Kg/mt	1,95 Kg/mt
L	80 mm
Rth,F	3,45 K/W
Rth,N	10,2 K/W
H	14 mm
Alloy	6060

CODE DE88_35



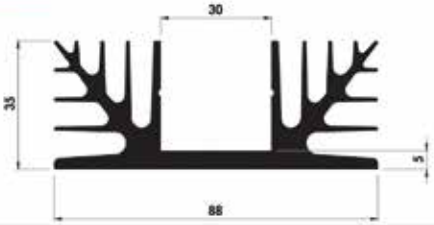
Kg/mt	2.80 Kg/mt
L	88 mm
H	35 mm
Rth,F	1.395 K/W
Rth,N	4.05 K/W
Alloy	6061

CODE DE90_29.5



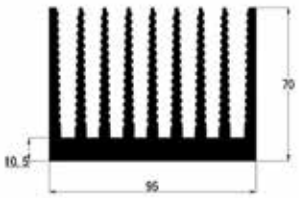
Kg/mt	1.86 Kg/mt
L	90 mm
H	29.50 mm
Rth,F	1.650 K/W
Rth,N	4.90 K/W
Alloy	6061

CODE DE94_14_A



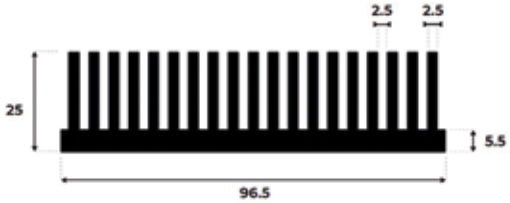
Kg/mt	1.64 Kg/mt
L	94 mm
H	14.50 mm
Rth,F	1.629 K/W
Rth,N	4.86 K/W
Alloy	6061

CODE DE95_70



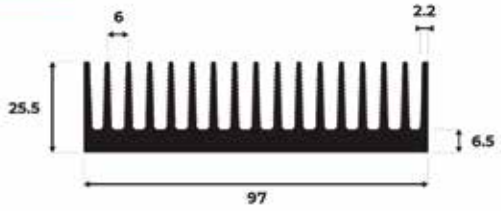
Kg/mt	7.25 Kg/mt
L	95 mm
H	70 mm
Rth,F	0.580 K/W
Rth,N	1.70 K/W
Alloy	6061

CODE DE96.5_25



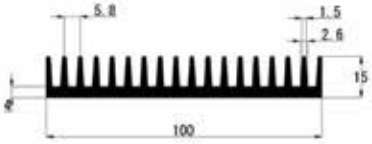
Kg/mt	3,934 Kg/mt
L	96,5 mm
H	25 mm
Rth,F	0,594 K/W
Rth,N	1,78 K/W

CODE DE97_25.5



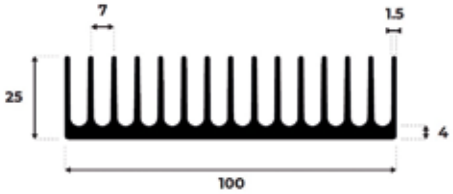
Kg/mt	3.40 Kg/mt
L	97 mm
H	25.5 mm
Rth,F	0.423 K/W
Rth,N	1.25 K/W
Alloy	6061

CODE DE100_15



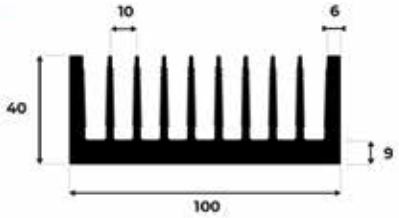
Kg/mt	2.16 Kg/mt
L	100 mm
H	15 mm
Rth,F	1.020 K/W
Rth,N	3.10 K/W
Alloy	6061

CODE DE100_25



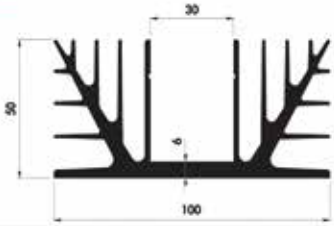
Kg/mt	2.66 Kg/mt
L	100 mm
H	25 mm
Rth,F	0.484 K/W
Rth,N	1.43 K/W
Alloy	6061

CODE DE100_40



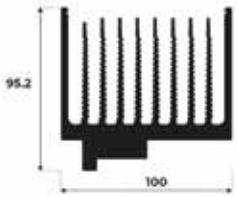
Kg/mt	5.12 Kg/mt
L	100 mm
H	0.401 K/W
Rth,F	1.19 K/W
Rth,N	40 mm
Alloy	6061

CODE DE100_50



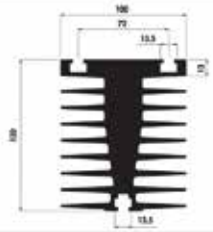
Kg/mt	4.90 Kg/mt
L	100 mm
H	50 mm
Rth,F	1.125 K/W
Rth,N	3.24 K/W
Alloy	6061

CODE DE100_95.2



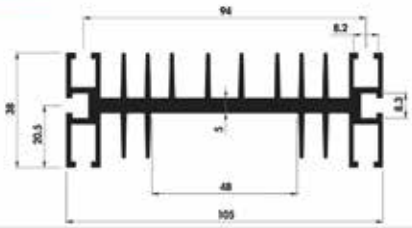
Kg/mt	8.548 Kg/mt
L	100 mm
H	95.2 mm
Rth,F	0.47 K/W
Rth,N	1.4 K/W
Alloy	6061

CODE DE100_120



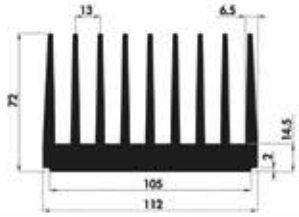
Kg/mt	15.64 Kg/mt
L	100 mm
H	120 mm
Rth,F	0.790 K/W
Rth,N	2.30 K/W
Alloy	6061

CODE DE105_38



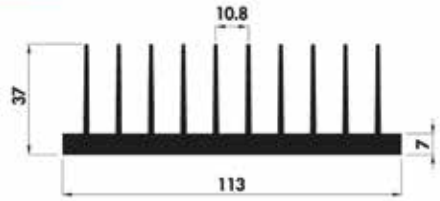
Kg/mt	2.83 Kg/mt
L	105 mm
H	38 mm
Rth,F	1.210 K/W
Rth,N	3.60 K/W
Alloy	6061

CODE DE112_72



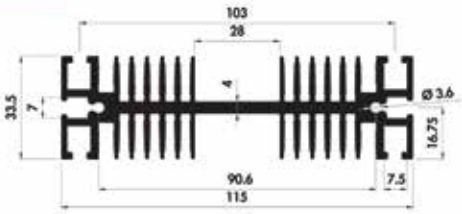
Kg/mt	9.81 Kg/mt
L	112 mm
H	72 mm
Rth,F	0.590 K/W
Rth,N	1.62 K/W
Alloy	6061

CODE DE113_37



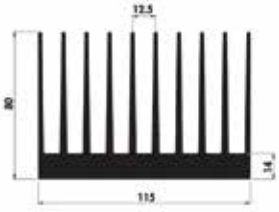
Kg/mt	3.43 Kg/mt
L	113 mm
H	37 mm
Rth,F	0.790 K/W
Rth,N	2.30 K/W
Alloy	6061

CODE DE115_33



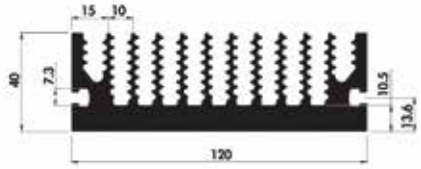
Kg/mt	3.83 Kg/mt
L	115 mm
H	33.50 mm
Rth,F	0.880 K/W
Rth,N	2.43 K/W
Alloy	6061

CODE DE115_80



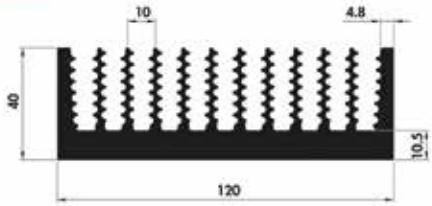
Kg/mt	9.52 Kg/mt
L	115 mm
H	80 mm
Rth,F	0.510 K/W
Rth,N	1.50 K/W
Alloy	6061

CODE DE120_40



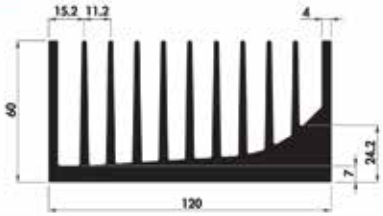
Kg/mt	6.70 Kg/mt
L	120 mm
H	40 mm
Rth,F	0.620 K/W
Rth,N	1.71 K/W
Alloy	6061

CODE DE120_40_A



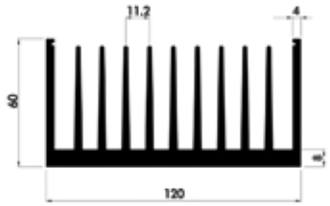
Kg/mt	6.51 Kg/mt
L	120 mm
H	40 mm
Rth,F	0.610 K/W
Rth,N	1.71 K/W
Alloy	6061

CODE DE120_60



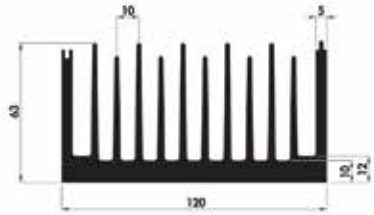
Kg/mt	8.37 Kg/mt
L	120 mm
H	60 mm
Rth,F	0.580 K/W
Rth,N	1.70 K/W
Alloy	6061

CODE DE120_60_B



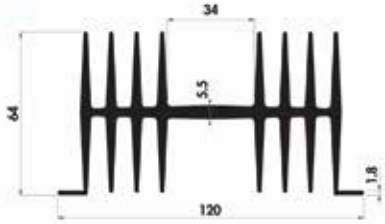
Kg/mt	7.29 Kg/mt
L	120 mm
H	60 mm
Rth,F	0.560 K/W
Rth,N	1.70 K/W
Alloy	6061

CODE DE120_63



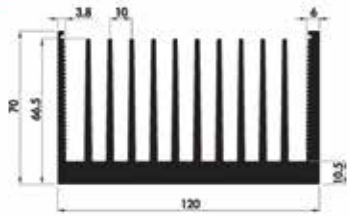
Kg/mt	8.39 Kg/mt
L	120 mm
H	63 mm
Rth,F	0.540 K/W
Rth,N	60 K/W
Alloy	6061

CODE DE120_64



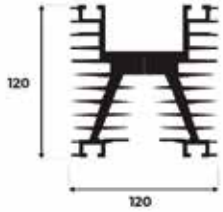
Kg/mt	4.97 Kg/mt
L	120 mm
H	64 mm
Rth,F	1.010 K/W
Rth,N	2.79 K/W
Alloy	6061

CODE DE120_70



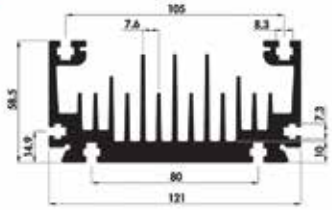
Kg/mt	8.96 Kg/mt
L	120 mm
H	70 mm
Rth,F	0.410 K/W
Rth,N	1.20 K/W
Alloy	6061

CODE DE120_120



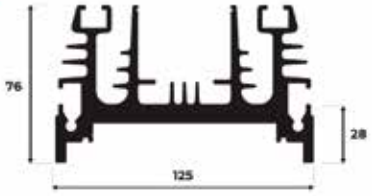
Kg/mt	11.19 Kg/mt
L	120 mm
H	120 mm
Rth,F	0.251 K/W
Rth,N	0.74 K/W
Alloy	6061

CODE DE121_58.5



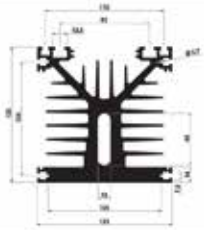
Kg/mt	7.13 Kg/mt
L	121 mm
H	58.50 mm
Rth,F	0.580 K/W
Rth,N	1.70 K/W
Alloy	6061

CODE DE125_76



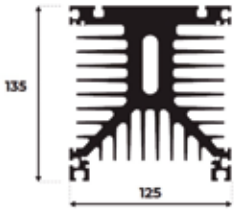
Kg/mt	7.081 Kg/mt
L	125 mm
H	76 mm
Rth,F	0.275 K/W
Rth,N	0.84 K/W
Alloy	6061

CODE DE125_125



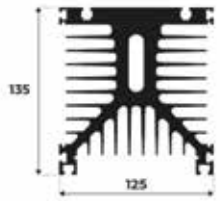
Kg/mt	15.53 Kg/mt
L	125 mm
H	125 mm
Rth,F	0.390 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE125_135_A



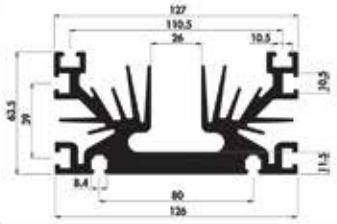
Kg/mt	17.61 Kg/mt
L	125 mm
H	135 mm
Rth,F	0.168 K/W
Rth,N	0.50 K/W
Alloy	6061

CODE DE125_135_B



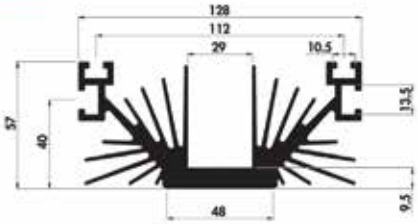
Kg/mt	17.9 Kg/mt
L	125 mm
H	135 mm
Rth,F	0.38 K/W
Rth,N	1.10 K/W
Alloy	6061

CODE DE126_63.5



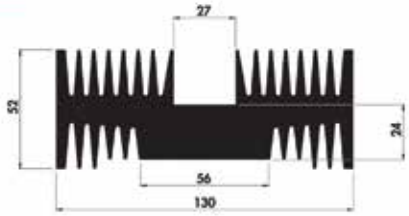
Kg/mt	8.21 Kg/mt
L	126 mm
H	63.5 mm
Rth,F	0.549 K/W
Rth,N	1.62 K/W
Alloy	6061

CODE DE128_57



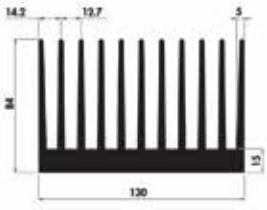
Kg/mt	5.95 Kg/mt
L	128 mm
H	57 mm
Rth,F	0.522 K/W
Rth,N	1.53 K/W
Alloy	6061

CODE DE130_52



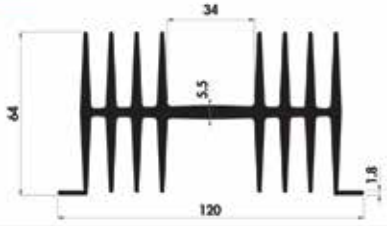
Kg/mt	11.18 Kg/mt
L	130 mm
H	0.558 K/W
Rth,F	1.75 K/W
Rth,N	52 mm
Alloy	6061

CODE DE130_84



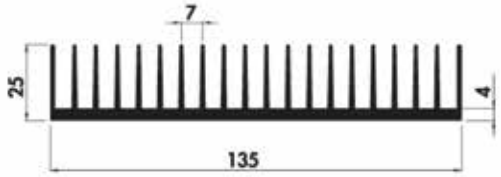
Kg/mt	13.44 Kg/mt
L	130 mm
H	84 mm
Rth,F	0.470 K/W
Rth,N	1.26 K/W
Alloy	6061

CODE DE130_130



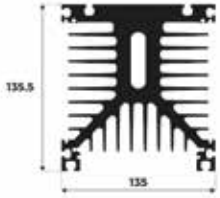
Kg/mt	12.26 Kg/mt
L	130 mm
H	130 mm
Rth,F	0.680 K/W
Rth,N	1.89 K/W
Alloy	6061

CODE DE135_25



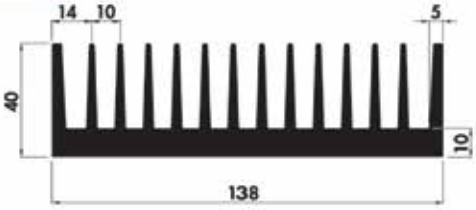
Kg/mt	3.25 Kg/mt
L	135 mm
H	25 mm
Rth,F	0.650 K/W
Rth,N	1.90 K/W
Alloy	6061

CODE DE135_135.5



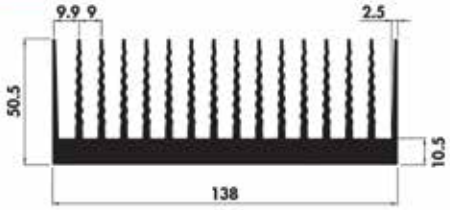
Kg/mt	21.9 Kg/mt
L	135 mm
H	135.5 mm
Rth,F	0.18 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE138_40



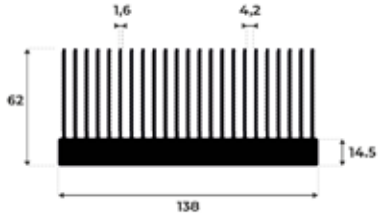
Kg/mt	7.29 Kg/mt
L	138 mm
H	40 mm
Rth,F	0.650 K/W
Rth,N	1.90 K/W
Alloy	6061

CODE DE138_50.5



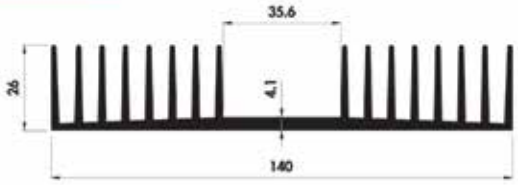
Kg/mt	7.55 Kg/mt
L	138 mm
H	50.5 mm
Rth,F	0.51 K/W
Rth,N	1.50 K/W
Alloy	6061

CODE DE138_62



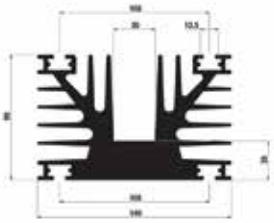
Kg/mt	10.15 Kg/mt
L	138 mm
H	62 mm
Rth,F	2.75 K/W
Rth,N	1.69 K/W
Alloy	6060

CODE DE140_26



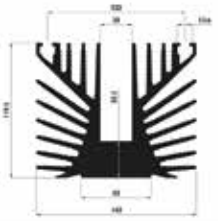
Kg/mt	4.90 Kg/mt
L	100 mm
H	50 mm
Rth,F	1.125 K/W
Rth,N	3.24 K/W
Alloy	6061

CODE DE140_90



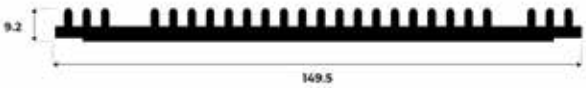
Kg/mt	15.23 Kg/mt
L	140 mm
H	90 mm
Rth,F	0.459 K/W
Rth,N	1.35 K/W
Alloy	6061

CODE DE142_120



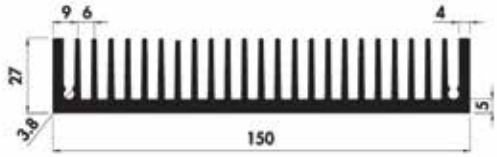
Kg/mt	19.50 Kg/mt
L	142 mm
H	119.5 mm
Rth,F	0.380 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE149.5_9.2



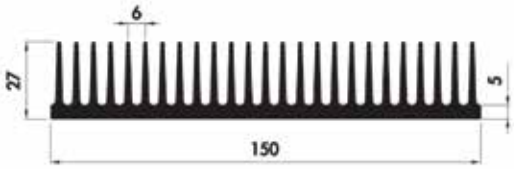
Kg/mt	2.306 Kg/mt
L	149.5 mm
H	9.2 mm
Rth,F	0.58 K/W
Rth,N	1.7 K/W
Alloy	6061

CODE DE150_27_AF



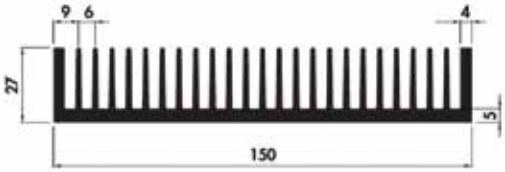
Kg/mt	5.29 Kg/mt
L	150 mm
H	27 mm
Rth,F	0.513 K/W
Rth,N	1.53 K/W
Alloy	6061

CODE DE150_27



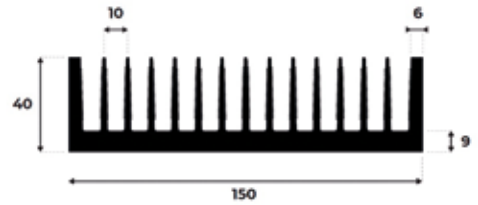
Kg/mt	5.17 Kg/mt
L	150 mm
H	27 mm
Rth,F	0.522 K/W
Rth,N	1.53 K/W
Alloy	6061

CODE DE150_27_A



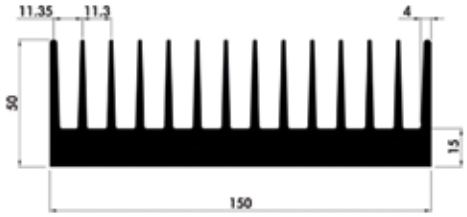
Kg/mt	5.27 Kg/mt
L	150 mm
H	27 mm
Rth,F	0.513 K/W
Rth,N	1.53 K/W
Alloy	6061

CODE DE150_40



Kg/mt	7.42 Kg/mt
L	150 mm
H	40 mm
Rth,F	0.299 K/W
Rth,N	0.68 K/W
Alloy	6061

CODE DE150_50

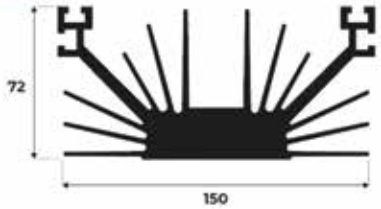


Kg/mt	9.58 Kg/mt
L	150 mm
H	50 mm
Rth,F	0.580 K/W
Rth,N	1.70 K/W
Alloy	6061

CODE DE150_62

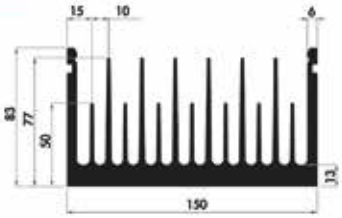
Kg/mt	12.33 Kg/mt
L	150 mm
H	62 mm
Rth,F	0.252 K/W
Rth,N	0.73 K/W
Alloy	6061

CODE DE150_72



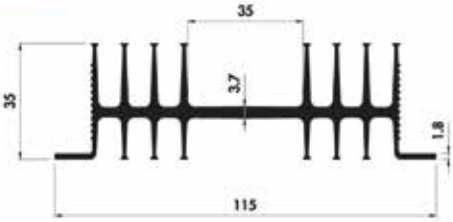
Kg/mt	8.934 Kg/mt
L	150 mm
H	72 mm
Rth,F	0.69 K/W
Rth,N	1.89 K/W
Alloy	6061

CODE DE150_83



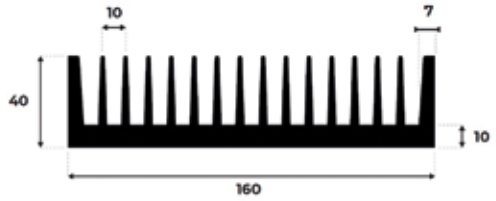
Kg/mt	12.33 Kg/mt
L	150 mm
H	83 mm
Rth,F	0.460 K/W
Rth,N	1.26 K/W
Alloy	6061

CODE DE115_35



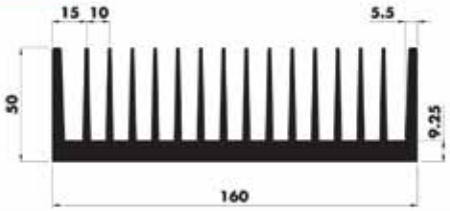
Kg/mt	2.15 Kg/mt
L	115 mm
H	35 mm
Rth,F	1.350 K/W
Rth,N	3.69 K/W
Alloy	6061

CODE DE160_40



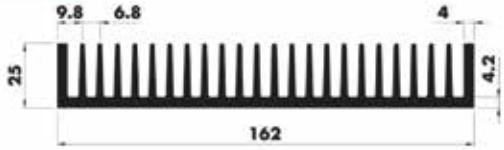
Kg/mt	8.64 Kg/mt
L	160 mm
H	40 mm
Rth,F	0.281 K/W
Rth,N	0.64 K/W
Alloy	6061

CODE DE160_50



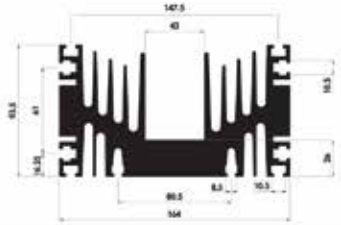
Kg/mt	8.86 Kg/mt
L	160 mm
H	50 mm
Rth,F	0.459 K/W
Rth,N	1.35 K/W
Alloy	6061

CODE DE162_25



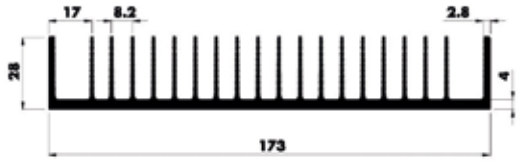
Kg/mt	5.23 Kg/mt
L	162 mm
H	25 mm
Rth,F	0.531 K/W
Rth,N	1.62 K/W
Alloy	6061

CODE DE164_93.5



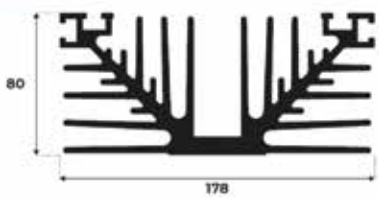
Kg/mt	19 Kg/mt
L	164 mm
H	93.5 mm
Rth,F	0.405 K/W
Rth,N	1.17 K/W
Alloy	6061

CODE DE173_28



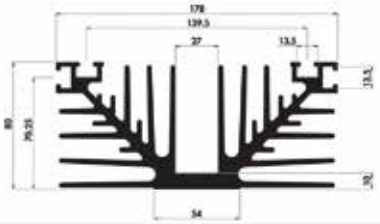
Kg/mt	4.22 Kg/mt
L	173 mm
H	28 mm
Rth,F	0.369 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE178_80



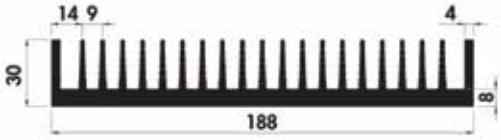
Kg/mt	12.782 Kg/mt
L	178 mm
H	80 mm
Rth,F	0.370 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE180_80



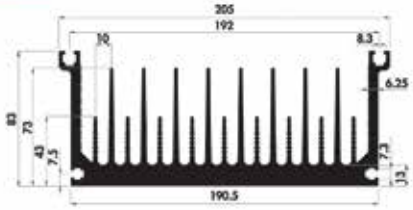
Kg/mt	12.78 Kg/mt
L	180 mm
H	80 mm
Rth,F	0.378 K/W
Rth,N	1.17 K/W
Alloy	6061

CODE DE188_30



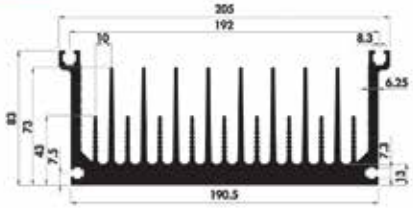
Kg/mt	7.36 Kg/mt
L	188 mm
H	30 mm
Rth,F	0.531 K/W
Rth,N	1.62 K/W
Alloy	6061

CODE DE190.5_83



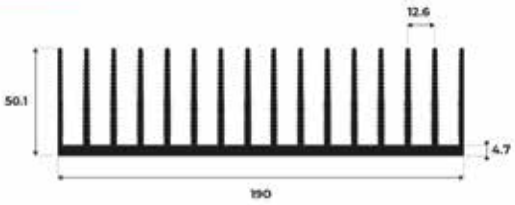
Kg/mt	14.83 Kg/mt
L	190.5 mm
H	83 mm
Rth,F	0.369 K/W
Rth,N	.08 K/W
Alloy	6061

CODE DE190.5_83_A



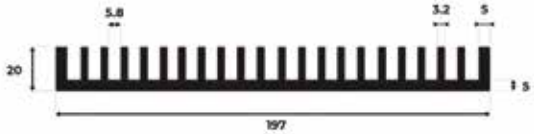
Kg/mt	14.75 Kg/mt
L	190.5 mm
H	83 mm
Rth,F	0.410 K/W
Rth,N	1.20 K/W
Alloy	6061

CODE DE190_50.1



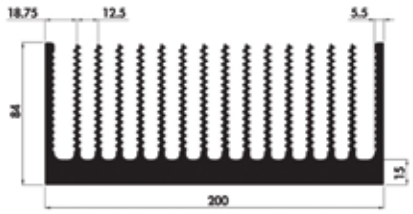
Kg/mt	6.799 Kg/mt
L	190 mm
H	50.1 mm
Rth,F	0.45 K/W
Rth,N	1.26 K/W
Alloy	6061

CODE DE197_20



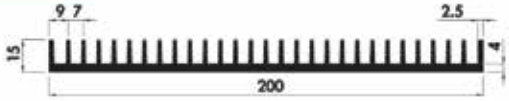
Kg/mt	5.64 Kg/mt
L	197 mm
H	20 mm
Rth,F	0.242 K/W
Rth,N	0.72 K/W
Alloy	6061

CODE DE200_84



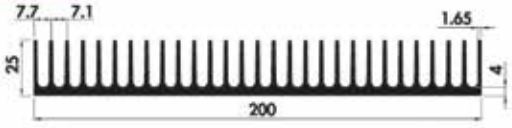
Kg/mt	17.74 Kg/mt
L	200 mm
H	84 mm
Rth,F	0.279 K/W
Rth,N	0.90 K/W
Alloy	6061

CODE DE200_15



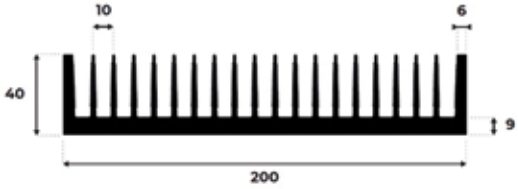
Kg/mt	3.90 Kg/mt
L	200 mm
H	15 mm
Rth,F	0.621 K/W
Rth,N	1.89 K/W
Alloy	6061

CODE DE200_25



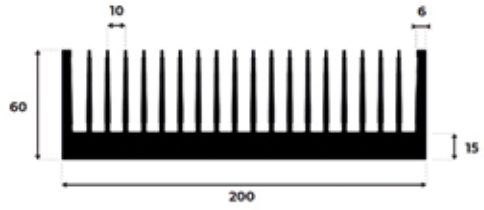
Kg/mt	5.38 Kg/mt
L	200 mm
H	25 mm
Rth,F	0.477 K/W
Rth,N	1.50 K/W
Alloy	6061

CODE DE200_40



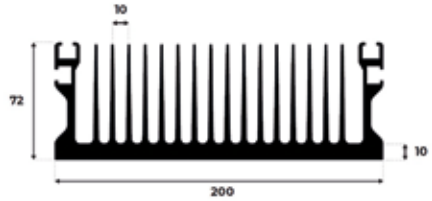
Kg/mt	9.72 Kg/mt
L	200 mm
H	40 mm
Rth,F	0.154 K/W
Rth,N	0.46 K/W
Alloy	6061

CODE DE200_60



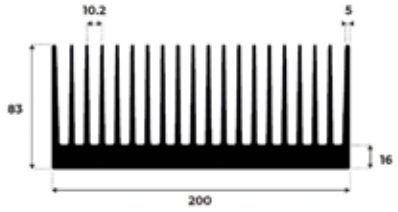
Kg/mt	15.16 Kg/mt
L	200 mm
H	60 mm
Rth,F	0.121 K/W
Rth,N	0.36 K/W
Alloy	6061

CODE DE200_72



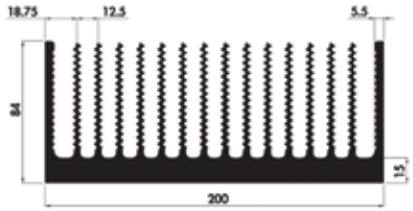
Kg/mt	14.53 Kg/mt
L	200 mm
H	72 mm
Rth,F	0.130 K/W
Rth,N	0.38 K/W
Alloy	6061

CODE DE200_83



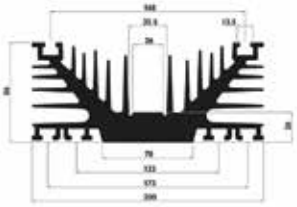
Kg/mt	19.9 Kg/mt
L	200 mm
H	83 mm
Rth,F	0.119 K/W
Rth,N	0.35 K/W
Alloy	6061

CODE DE200_84



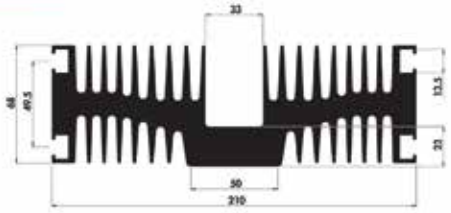
Kg/mt	17.74 Kg/mt
L	200 mm
H	84 mm
Rth,F	0.279 K/W
Rth,N	0.90 K/W
Alloy	6061

CODE DE200_86



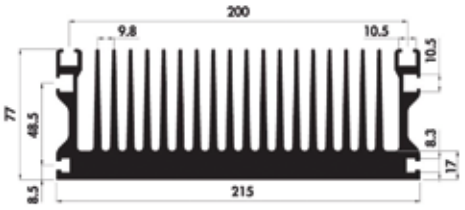
Kg/mt	19.17 Kg/mt
L	200 mm
H	86 mm
Rth,F	1.17 K/W
Rth,N	1.20 K/W
Alloy	6061

CODE DE210_70



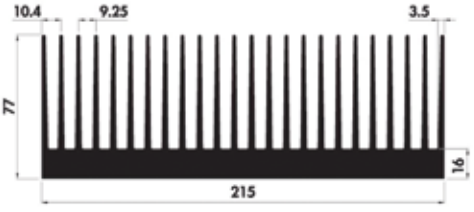
Kg/mt	19.99 Kg/mt
L	210 mm
H	68 mm
Rth,F	0.369 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE215_77



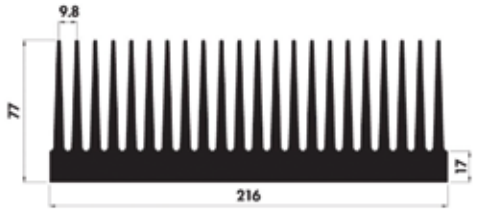
Kg/mt	22.15 Kg/mt
L	215 mm
H	77 mm
Rth,F	0.330 K/W
Rth,N	0.88 K/W
Alloy	6061

CODE DE215_77



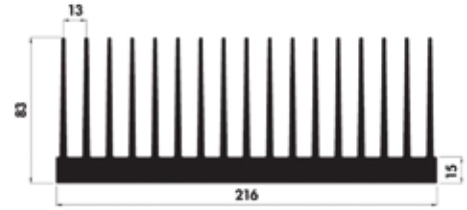
Kg/mt	19.80 Kg/mt
L	215 mm
H	77 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE216_77



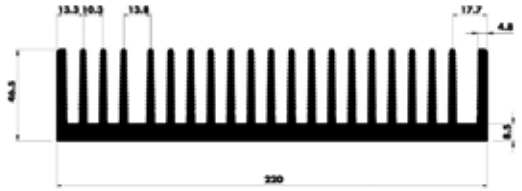
Kg/mt	24 Kg/mt
L	216 mm
H	77 mm
Rth,F	0.297 K/W
Rth,N	0.88 K/W
Alloy	6061

CODE DE216_83



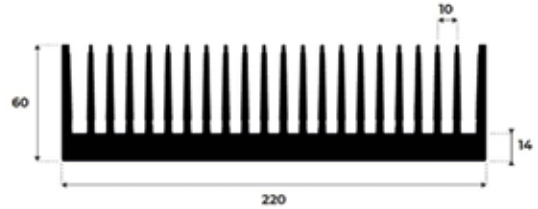
Kg/mt	18.06 Kg/mt
L	216 mm
H	83 mm
Rth,F	0.324 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE220_46.5



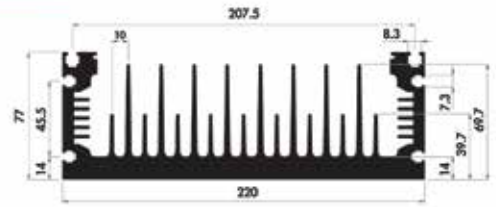
Kg/mt	11.27 Kg/mt
L	220 mm
H	46.5 mm
Rth,F	0.378 K/W
Rth,N	1.17 K/W
Alloy	6061

CODE DE220_60



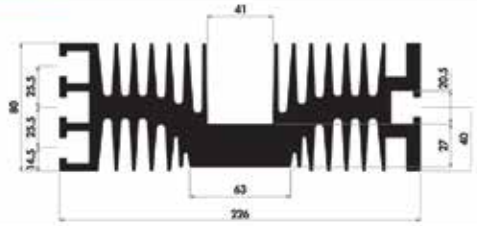
Kg/mt	16.719 Kg/mt
L	220 mm
H	60 mm
Rth,F	0.36 K/W
Rth,N	0.39 K/W
Alloy	6061

CODE DE220_77



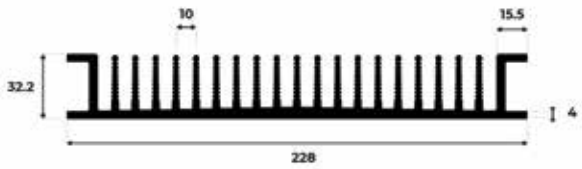
Kg/mt	17.54 Kg/mt
L	220 mm
H	77 mm
Rth,F	0.351 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE226_80



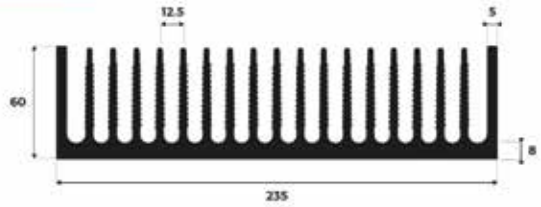
Kg/mt	23.74 Kg/mt
L	226 mm
H	0.369 K/W
Rth,F	1.08 K/W
Rth,N	80 mm
Alloy	6061

CODE DE228_32.2



Kg/mt	8.132 Kg/mt
L	228 mm
H	32.2 mm
Rth,F	0.150 K/W
Rth,N	0.43 K/W
Alloy	6061

CODE DE235_60

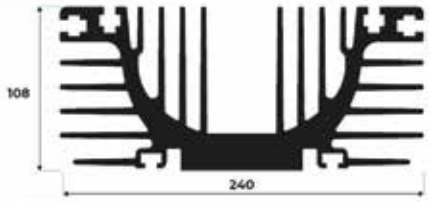


Kg/mt	14.893 Kg/mt
L	235 mm
H	60 mm
Rth,F	0.310 K/W
Rth,N	0.9 K/W
Alloy	6061

CODE DE240_16

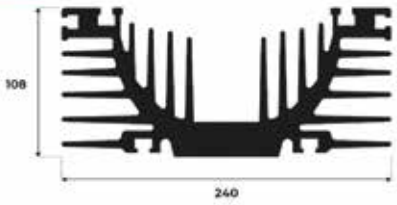
Kg/mt	5.57 Kg/mt
L	240 mm
H	16 mm
Rth,F	0.531 K/W
Rth,N	1.62 K/W
Alloy	6061

CODE DE240_108_A



Kg/mt	25.056 Kg/mt
L	240mm
H	108 mm
Rth,F	0.324 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE240_108_B

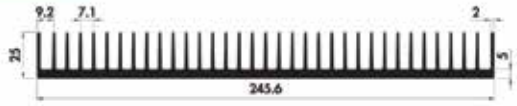


Kg/mt	26.101 Kg/mt
L	240mm
H	108 mm
Rth,F	0.324 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE240_112

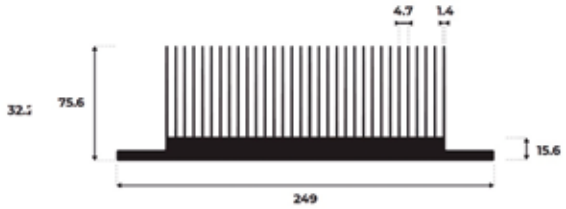
Kg/mt	29.824 Kg/mt
L	240mm
H	112 mm
Rth,F	0.345 K/W
Rth,N	1.05 K/W
Alloy	6061

CODE DE245.6



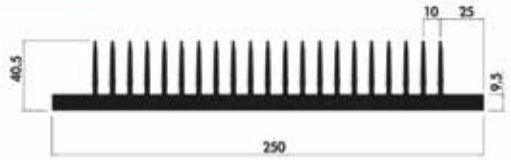
Kg/mt	6.39 Kg/mt
L	245.6 mm
H	0.423 K/W
Rth,F	1.26 K/W
Rth,N	25 mm
Alloy	6061

CODE DE249_75.6



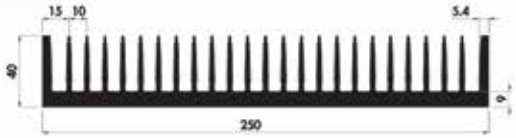
Kg/mt	15.841 Kg/mt
L	249 mm
H	75.6 mm
Rth,F	0.082 K/W
Rth,N	0.28 K/W
Alloy	6061

CODE DE250_40.5



Kg/mt	10.97 Kg/mt
L	250 mm
H	40.50 mm
Rth,F	0.390 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE250_40



Kg/mt	11.94 Kg/mt
L	250 mm
H	40 mm
Rth,F	0.333 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE250_40_A

Kg/mt	9.66 Kg/mt
L	250 mm
H	40 mm
Rth,F	0.390 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE250_40_D

Kg/mt	13.22 Kg/mt
L	250 mm
H	40 mm
Rth,F	0.430 K/W
Rth,N	1.30 K/W
Alloy	6061

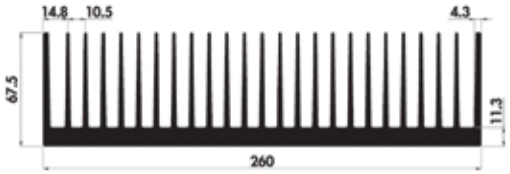
CODE DE250_83

Kg/mt	24.68 Kg/mt
L	250 mm
H	83 mm
Rth,F	0.310 K/W
Rth,N	0.90 K/W
Alloy	6061

CODE DE260_67.5

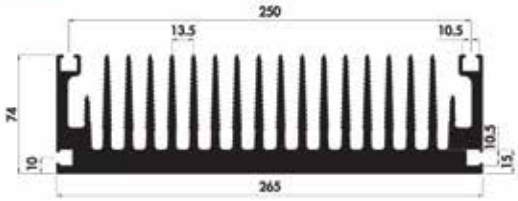
Kg/mt	20.68 Kg/mt
L	260 mm
H	67.50 mm
Rth,F	0.290 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE260_67.5_A



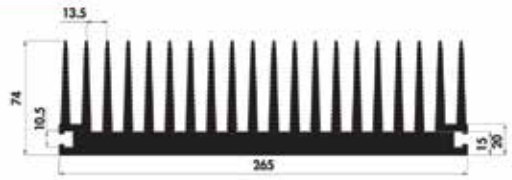
Kg/mt	18.18 Kg/mt
L	260 mm
H	67.50 mm
Rth,F	0.279 K/W
Rth,N	0.90 K/W
Alloy	6061

CODE DE265_74



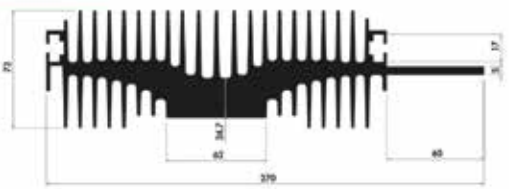
Kg/mt	24.92 Kg/mt
L	265 mm
H	74 mm
Rth,F	0.297 K/W
Rth,N	0.88 K/W
Alloy	6061

CODE DE265_74_A



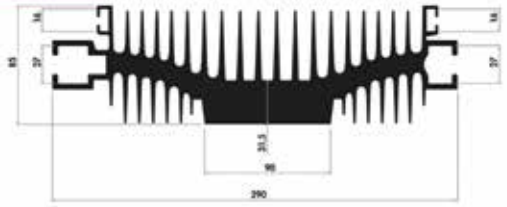
Kg/mt	24.13 Kg/mt
L	265 mm
H	74 mm
Rth,F	0.330 K/W
Rth,N	0.88 K/W
Alloy	6061

CODE DE270_73



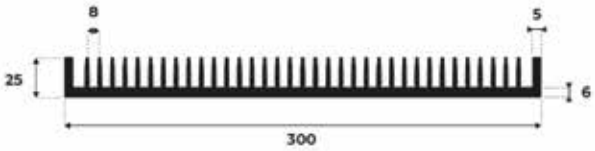
Kg/mt	18.74 Kg/mt
L	270 mm
H	73 mm
Rth,F	0.350 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE290_85



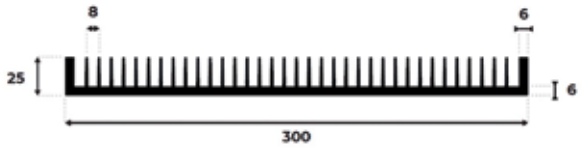
Kg/mt	25.40 Kg/mt
L	290 mm
H	0.279 K/W
Rth,F	0.81 K/W
Rth,N	85 mm
Alloy	6061

CODE DE300_25_A



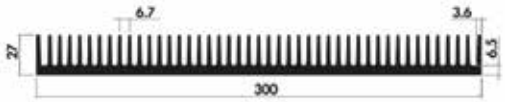
Kg/mt	9.022 Kg/mt
L	300 mm
H	25 mm
Rth,F	0.398 K/W
Rth,N	1.28 K/W
Alloy	6061

CODE DE300_25_B



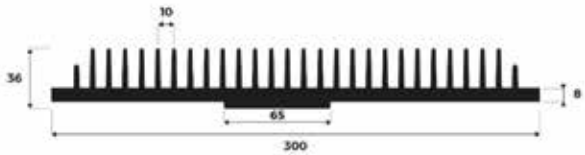
Kg/mt	9.01 Kg/mt
L	300 mm
H	25 mm
Rth,F	0.121 K/W
Rth,N	0.36 K/W
Alloy	6061

CODE DE300_27



Kg/mt	11.90 Kg/mt
L	300 mm
H	27 mm
Rth,F	0.390 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE300_36

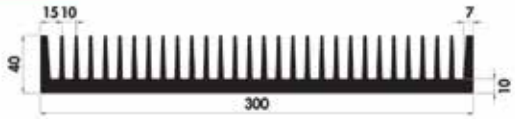


Kg/mt	11.285 Kg/mt
L	300 mm
H	36 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE300_40

Kg/mt	13.02 Kg/mt
L	300 mm
H	40 mm
Rth,F	0.342 K/W
Rth,N	1.10 K/W
Alloy	6061

CODE DE300_40_A

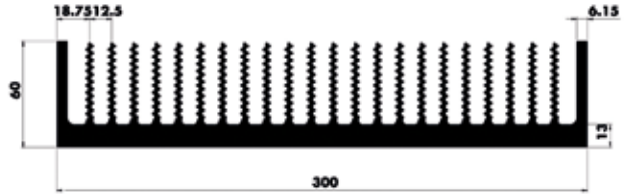


Kg/mt	15.80 Kg/mt
L	300 mm
H	40 mm
Rth,F	0.351 K/W
Rth,N	1.08 K/W
Alloy	6061

CODE DE300_40_B

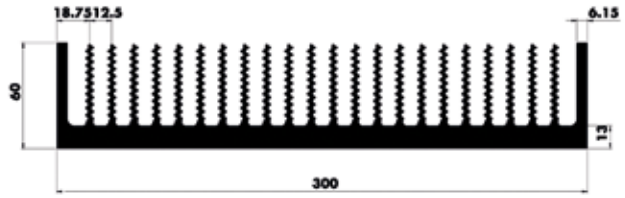
Kg/mt	14.35 Kg/mt
L	300 mm
H	40 mm
Rth,F	0.288 K/W
Rth,N	0.88 K/W
Alloy	6061

CODE DE300_60



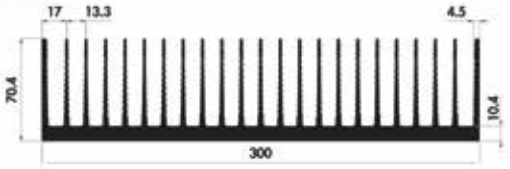
Kg/mt	20.53 Kg/mt
L	300 mm
H	60 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE300_70.4



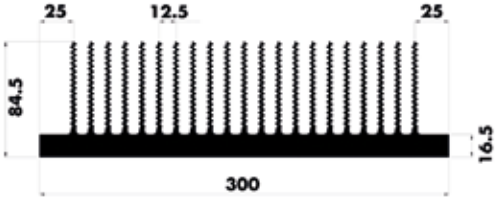
Kg/mt	18.77 Kg/mt
L	300 mm
H	70.4 mm
Rth,F	0.279 K/W
Rth,N	0.90 K/W
Alloy	6061

CODE DE300_83_A



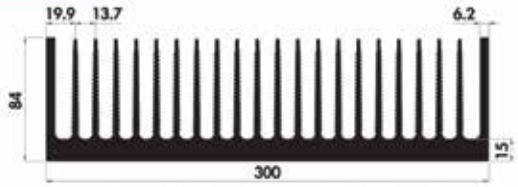
Kg/mt	23.07 Kg/mt
L	300 mm
H	83 mm
Rth,F	0.261 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE300_84_C



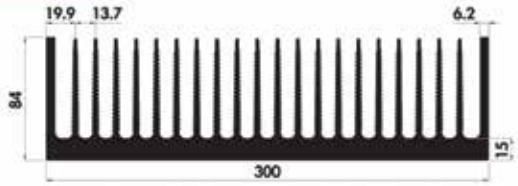
Kg/mt	24.99 Kg/mt
L	300 mm
H	84.50 mm
Rth,F	0.250 K/W
Rth,N	0.72 K/W
Alloy	6061

CODE DE300_84



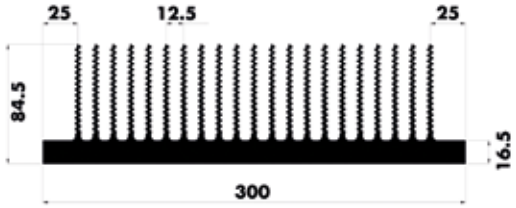
Kg/mt	28.44 Kg/mt
L	300 mm
H	84 mm
Rth,F	0.280 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE300_84_A



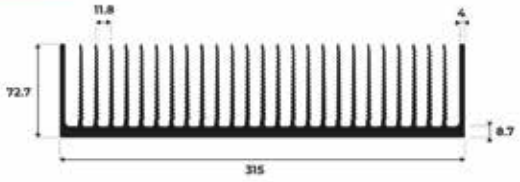
Kg/mt	26.64 Kg/mt
L	300 mm
H	84 mm
Rth,F	0.230 K/W
Rth,N	0.63 K/W
Alloy	6061

CODE DE300_84_C



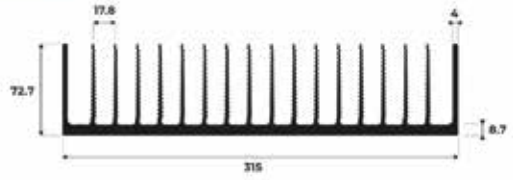
Kg/mt	24.99 Kg/mt
L	300 mm
H	84.50 mm
Rth,F	0.250 K/W
Rth,N	0.72 K/W
Alloy	6061

CODE DE315_72.7_A



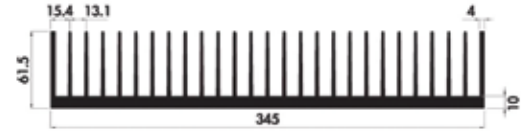
Kg/mt	19.217 Kg/mt
L	315 mm
H	72.7 mm
Rth,F	0.23 K/W
Rth,N	0.63 K/W
Alloy	6061

CODE DE315_72.7_B



Kg/mt	15.466 Kg/mt
L	315 mm
H	72.7 mm
Rth,F	0.348 K/W
Rth,N	1.10 K/W
Alloy	6061

CODE DE345_61.5

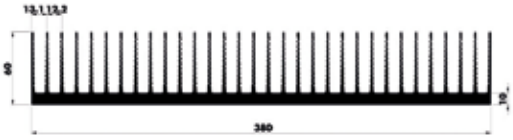


Kg/mt	20.07 Kg/mt
L	345 mm
H	61.5 mm
Rth,F	0.290 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE362_35

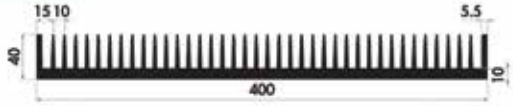
Kg/mt	11.13 Kg/mt
L	362 mm
H	35 mm
Rth,F	0.342 K/W
Rth,N	0.99 K/W
Alloy	6061

CODE DE380_60_E



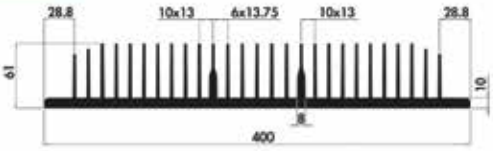
Kg/mt	18.35 Kg/mt
L	380 mm
H	60 mm
Rth,F	0.243 K/W
Rth,N	0.72 K/W
Alloy	6061

CODE DE400_40



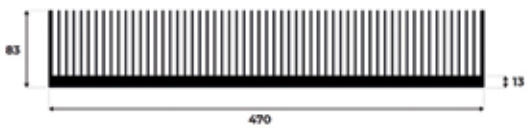
Kg/mt	21.44 Kg/mt
L	400 mm
H	40 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE400_61



Kg/mt	22.35 Kg/mt
L	400 mm
H	0.290 K/W
Rth,F	0.81 K/W
Rth,N	61 mm
Alloy	6061

CODE DE470_83



Kg/mt	25.60 Kg/mt
L	470 mm
H	83 mm
Rth,F	0.087 K/W
Rth,N	0.23 K/W
Alloy	6061

Technology
WELDED

To obtain profiles of large dimensions, which cannot be made directly with extrusion, two or more extruded profiles can be welded together.

Welding is extremely flexible to the customer's dimensional needs and can be used for any modification to existing profiles. MG Italy makes its experience and availability available to its customers in order to create the required product.

We provide special extruded profiles already chamfered for a simpler and more efficient MIG and TIG welding operation. This technique allows us to create profiles with a maximum width of 900 mm.

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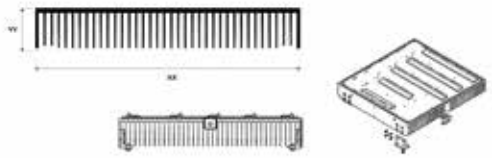
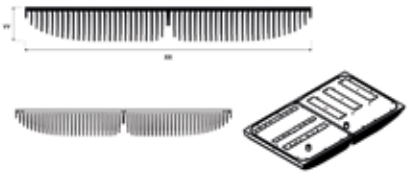
CODE DSAXX_YY



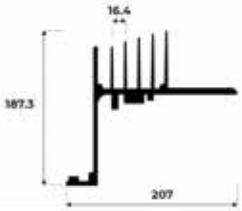
L	XX mm
H	YY mm
Alloy	6060

CODE DSBXX_YY



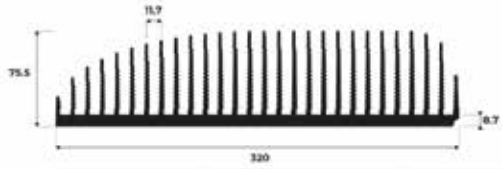
L	XX mm
H	YY mm
Alloy	6060

CODE DE207_187.3



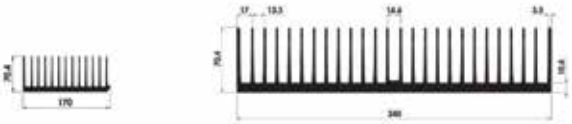
Kg/mt	6 Kg/mt
L	207 mm
H	187.3 mm
Rth,F	0.127 K/W
Rth,N	0.39 K/W
Alloy	6061

CODE DE320_75.5



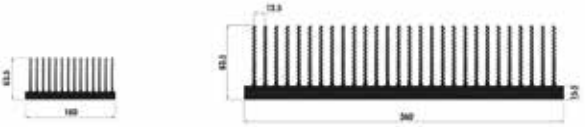
Kg/mt	18.128 Kg/mt
L	320 mm
H	75.5 mm
Rth,F	0.27 K/W
Rth,N	0.80 K/W
Alloy	6061

CODE DS340_70.4



Kg/mt	21.29 Kg/mt
L	340 mm
H	70.40 mm
Rth,F	0.261 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DS360_83.5



Kg/mt	30.40 Kg/mt
L	360 mm
H	0.117 K/W
Rth,F	0.36 K/W
Rth,N	83.50 mm
Alloy	6061

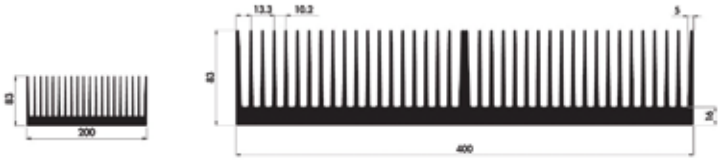
CODE DS398_70.9

Kg/mt	28.70 Kg/mt
L	398 mm
H	70.90 mm
Rth,F	0.63 K/W
Rth,N	0.60 K/W
Alloy	6061

CODE DS400_60

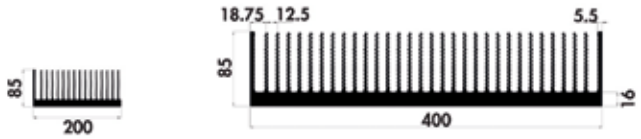
Kg/mt	30.60 Kg/mt
L	400 mm
H	60 mm
Rth,F	0.117 K/W
Rth,N	0.36 K/W
Alloy	6061

CODE DS400_83



Kg/mt	39.75 Kg/mt
L	400 mm
H	83 mm
Rth,F	0.63 K/W
Rth,N	0.60 K/W
Alloy	6061

CODE DS400_85



Kg/mt	35.76 Kg/mt
L	400 mm
H	85 mm
Rth,F	0.190 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS430_77_A

Kg/mt	39.60 Kg/mt
L	430 mm
H	77 mm
Rth,F	0.190 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS432_77

Kg/mt	48 Kg/mt
L	432 mm
H	77 mm
Rth,F	0.189 K/W
Rth,N	0.60 K/W
Alloy	6061

CODE DS432_83

Kg/mt	36.13 Kg/mt
L	432 mm
H	83 mm
Rth,F	0.198 K/W
Rth,N	0.63 K/W
Alloy	6061

CODE DS440_60

Kg/mt	34.54 Kg/mt
L	440 mm
H	60 mm
Rth,F	0.216 K/W
Rth,N	0.70 K/W
Alloy	6061

CODE DS450_85

Kg/mt	40.13 Kg/mt
L	450 mm
H	85 mm
Rth,F	0.162 K/W
Rth,N	0.48 K/W
Alloy	6061

CODE DS460_80.5

Kg/mt	34.95 Kg/mt
L	460 mm
H	80.50 mm
Rth,F	0.108 K/W
Rth,N	0.32 K/W
Alloy	6061

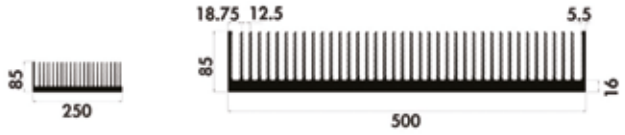
CODE DS500_40

Kg/mt	23.87 Kg/mt
L	500 mm
H	40 mm
Rth,F	0.171 K/W
Rth,N	0.63 K/W
Alloy	6061

CODE DS500_83

Kg/mt	49.36 Kg/mt
L	500 mm
H	83 mm
Rth,F	0.189 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS500_85



Kg/mt	44.51 Kg/mt
L	500 mm
H	85 mm
Rth,F	0.153 K/W
Rth,N	0.45 K/W
Alloy	6061

CODE DS520_67.5

Kg/mt	41.36 Kg/mt
L	520 mm
H	67.50 mm
Rth,F	0.171 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS520_67.5_A

Kg/mt	36.37 Kg/mt
L	520 mm
H	67.50 mm
Rth,F	0.190 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS550_85

Kg/mt	48.88 Kg/mt
L	550 mm
H	85 mm
Rth,F	0.150 K/W
Rth,N	0.45 K/W
Alloy	6061

CODE DS600_25

Kg/mt	18.02 Kg/mt
L	600 mm
H	25 mm
Rth,F	0.252 K/W
Rth,N	0.80 K/W
Alloy	6061

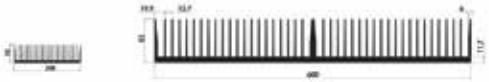
CODE DS600_40_A

Kg/mt	31.60 Kg/mt
L	600 mm
H	40 mm
Rth,F	0.72 K/W
Rth,N	0.70 K/W
Alloy	6061

CODE DS600_70.4

Kg/mt	37.53 Kg/mt
L	600 mm
H	70.40 mm
Rth,F	0.190 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS600_83_A

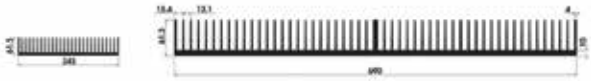


Kg/mt	46.15 Kg/mt
L	600 mm
H	83 mm
Rth,F	0.162 K/W
Rth,N	0.48 K/W
Alloy	6061

CODE DS600_85

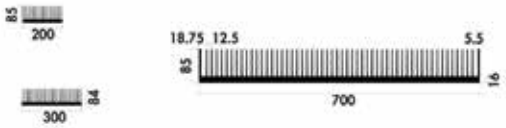
Kg/mt	53.25 Kg/mt
L	600 mm
H	85 mm
Rth,F	0.135 K/W
Rth,N	0.40 K/W
Alloy	6061

CODE DS690_61.5



Kg/mt	40.15 Kg/mt
L	690 mm
H	61.50 mm
Rth,F	0.171 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS700_85



Kg/mt	62 Kg/mt
L	700 mm
H	85 mm
Rth,F	0.13 K/W
Rth,N	0.36 K/W
Alloy	6061

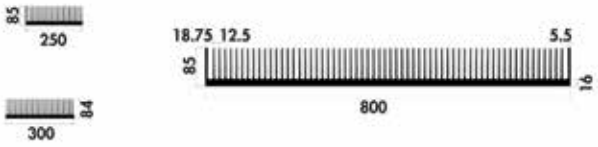
CODE DS750_85

Kg/mt	66.37 Kg/mt
L	750 mm
H	85 mm
Rth,F	0.117 K/W
Rth,N	0.36 K/W
Alloy	6061

CODE DS800_40

Kg/mt	42.87 Kg/mt
L	800 mm
H	40 mm
Rth,F	0.171 K/W
Rth,N	0.54 K/W
Alloy	6061

CODE DS800_85



Kg/mt	70.75 Kg/mt
L	800 mm
H	85 mm
Rth,F	0.108 K/W
Rth,N	0.32 K/W
Alloy	6061

CODE DS850_85

Kg/mt	75.12 Kg/mt
L	850 mm
H	85 mm
Rth,F	0.108 K/W
Rth,N	0.32 K/W
Alloy	6061

CODE DS900_85

Kg/mt	79.49 Kg/mt
L	900 mm
H	85 mm
Rth,F	0.099 K/W
Rth,N	0.32 K/W
Alloy	6061

Technology
ASSEMBLED

This line of products was born from the continuous and growing need to supply heat sinks with ever greater thermal performance.

We worked on the section of the single fin, on the number of fins and on their arrangement. Obtained by mechanically assembling the single fins, the high efficiency heat sinks also offer high dimensional flexibility and the same mechanical characteristics as the extruded heat sinks, making them particularly suitable for use in high power systems in forced convection.

Defined Assembled Profiles (PA) are divided by width and height of the single fin profile or module and organized in increasing order of size.

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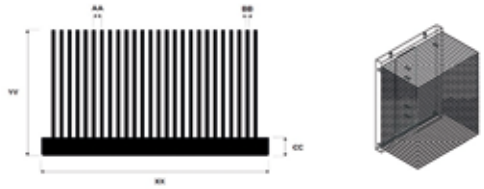
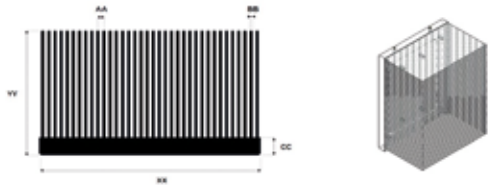
CODE DAAXX_YY



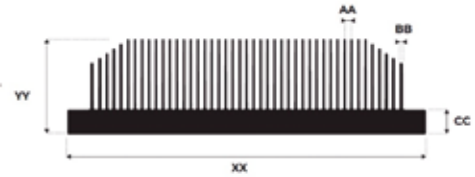
L	XX mm
H	YY mm
Alloy	1050

CODE DABXX_YY



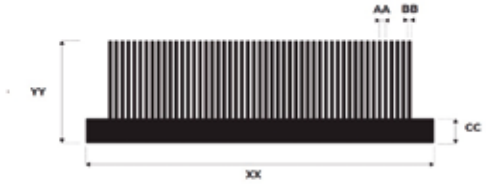
L	XX mm
H	YY mm
Alloy	1050

CODE DACXX_YY



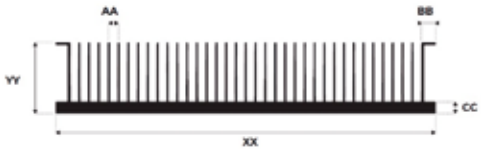
L	XX mm
H	YY mm
Alloy	1050

CODE DADXX_YY



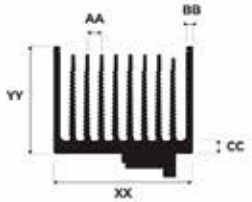
L	XX mm
H	YY mm
Alloy	1050

CODE DAEXX_YY



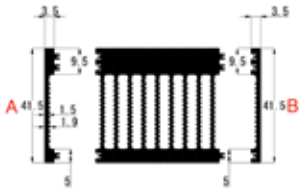
L	XX mm
H	YY mm
Alloy	1050

CODE DAFXX_YY



L	XX mm
H	YY mm
Alloy	1050

CODE AE3.5_41.5



Kg/mt	0.28 Kg/mt
L	3.50 mm
H	41.50 mm
Alloy	6061

CODE AE4.5_65

Kg/mt	0.77 Kg/mt
L	4.50 mm
H	65 mm
Alloy	6061

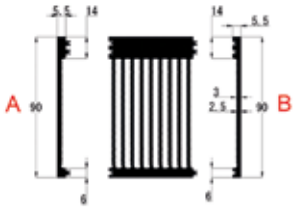
CODE AE4.5_70

Kg/mt	0.39 Kg/mt
L	4.50 mm
H	70 mm
Alloy	6061

CODE AE4.5_76

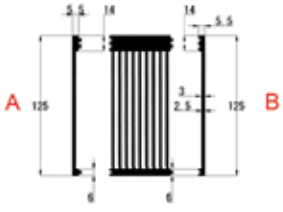
Kg/mt	0.47 Kg/mt
L	4.50 mm
H	76 mm
Alloy	6061

CODE AE5.5_90



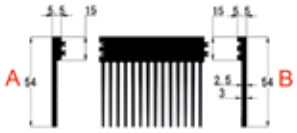
Kg/mt	0.81 Kg/mt
L	5.50 mm
H	90 mm
Alloy	6061

CODE AE5.5_125



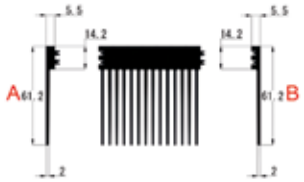
Kg/mt	1.06 Kg/mt
L	5.50 mm
H	125 mm
Alloy	6061

CODE AE5.5_54



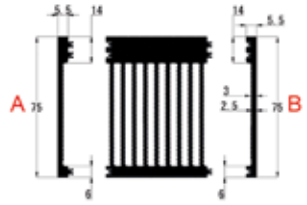
Kg/mt	0.61 Kg/mt
L	5.50 mm
H	54 mm
Alloy	6061

CODE AE5.5_61.2



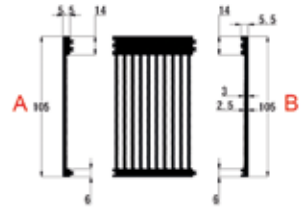
Kg/mt	0.44 Kg/mt
L	5.50 mm
H	61.20 mm
Alloy	6061

CODE AE5.5_75



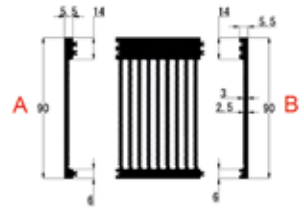
Kg/mt	0.45 Kg/mt
L	5.50 mm
H	75 mm
Alloy	6061

CODE AE5.5_105



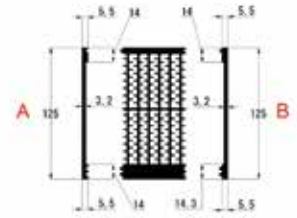
Kg/mt	0.83 Kg/mt
L	5.50 mm
H	105 mm
Alloy	6061

CODE AE5.5_90



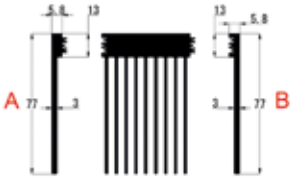
Kg/mt	0.87 Kg/mt
L	5.50 mm
H	90 mm
Alloy	6061

CODE AE5.5_125



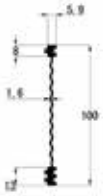
Kg/mt	1.37 Kg/mt
L	5.50 mm
H	125 mm
Alloy	6061

CODE AE5.8_77



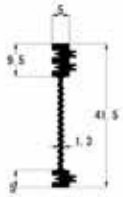
Kg/mt	0.75 Kg/mt
L	5.80 mm
H	77 mm
Alloy	6061

CODE AE5.9_100



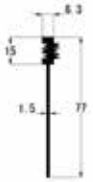
Kg/mt	0.69 Kg/mt
L	5.90 mm
H	100 mm
Alloy	6061

CODE AE5_41.50



Kg/mt	0.29 Kg/mt
L	5 mm
H	41.5 mm
Alloy	6061

CODE AE6.3_77

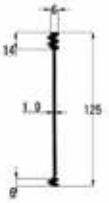


Kg/mt	0.50 Kg/mt
L	6.30 mm
H	77 mm
Alloy	6061

CODE AE6_90

Kg/mt	0.68 Kg/mt
L	6 mm
H	90 mm
Alloy	6061

CODE AE6_125

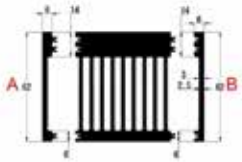


Kg/mt	0.86 Kg/mt
L	6 mm
H	125 mm
Alloy	6061

CODE AE6_57

Kg/mt	0.51 Kg/mt
L	6 mm
H	57 mm
Alloy	6061

CODE AE6_62



Kg/mt	0.44 Kg/mt
L	6 mm
H	62 mm
Alloy	6061

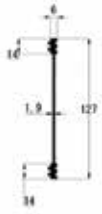
CODE AE6_75

Kg/mt	0.51 Kg/mt
L	6 mm
H	75 mm
Alloy	6061

CODE AE6_117

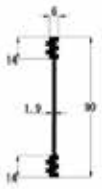
Kg/mt	0.81 Kg/mt
L	6 mm
H	117 mm
Alloy	6061

CODE AE6_127



Kg/mt	0.96 Kg/mt
L	6 mm
H	127 mm
Alloy	6061

CODE AE6_90

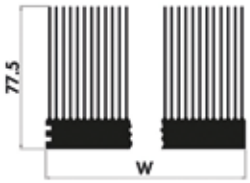


Kg/mt	0.77 Kg/mt
L	6 mm
H	90 mm
Alloy	6061

CODE AE6_125

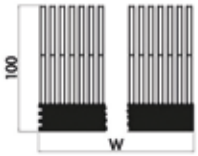
Kg/mt	0.98 Kg/mt
L	6 mm
H	125 mm
Alloy	6061

CODE DA7.6_77.5



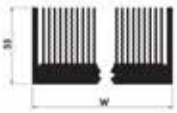
L	7.60 mm
H	77.50 mm
Rth,F	0.270 K/W
Rth,N	0.80 K/W
Alloy	1050

CODE DA7.6_100



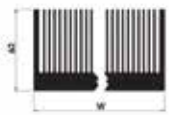
L	7.60 mm
H	100 mm
Rth,F	0.216 K/W
Rth,N	0.63 K/W
Alloy	6061

CODE DA8_55



L	8 mm
H	55 mm
Rth,F	0.360 K/W
Rth,N	0.99 K/W
Alloy	1050

CODE DA8_62

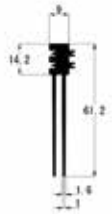


L	8 mm
H	62 mm
Rth,F	0.297 K/W
Rth,N	0.88 K/W
Alloy	1050

CODE AE9_54

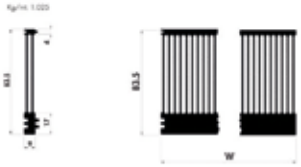
Kg/mt	0.63 Kg/mt
L	9 mm
H	54 mm
Alloy	6061

CODE AE9_61.2



Kg/mt	0.67 Kg/mt
L	9 mm
H	61.2 mm
Alloy	6061

CODE DA9_83.5



L	9 mm
H	83.50 mm
Rth,F	0.320 K/W
Rth,N	0.88 K/W
Alloy	1050

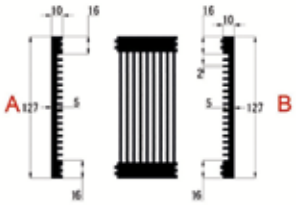
CODE DA10_117

L	10 mm
H	0.70 K/W
Rth,F	0.240 K/W
Rth,N	117 mm
Alloy	1050

CODE DA10_122

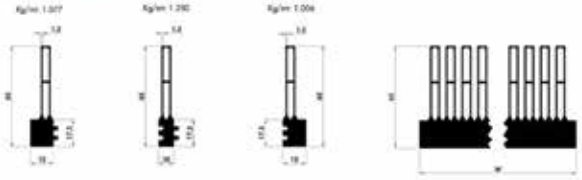
L	10 mm
H	122 mm
Rth,F	0.230 K/W
Rth,N	0.63 K/W
Alloy	1050

CODE AE10_127



Kg/mt	2.52 Kg/mt
L	10 mm
H	127 mm
Alloy	6061

CODE DA10_65

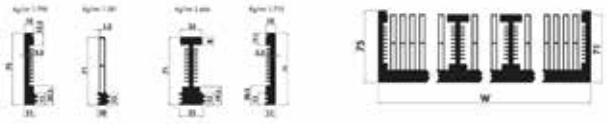


L	10 mm
H	65 mm
Rth,F	0.99 K/W
Rth,N	0.360 K/W
Alloy	1050

CODE DA10_71

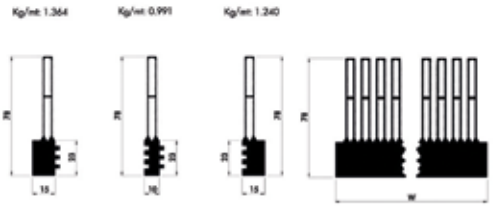
L	10 mm
H	71 mm
Rth,F	1.08 K/W
Rth,N	0.369 K/W
Alloy	1050

CODE DA10_75



L	10 mm
H	75 mm
Rth,F	0.90 K/W
Rth,N	0.279 K/W
Alloy	1050

CODE DA10_78

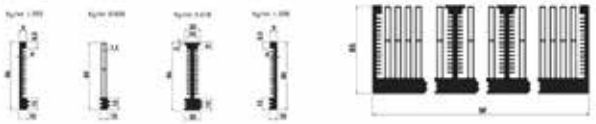


L	10 mm
H	78 mm
Rth,F	0.320 K/W
Rth,N	0.88 K/W
Alloy	1050

CODE DA10_81

L	10 mm
H	81 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	1050

CODE DA10_85

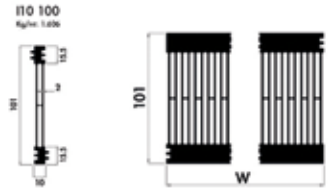


L	10 mm
H	85 mm
Rth,F	0.81 K/W
Rth,N	0.252 K/W
Alloy	1050

CODE DA10_90

L	10 mm
H	90 mm
Rth,F	0.90 K/W
Rth,N	0.279 K/W
Alloy	1050

CODE DA10_101

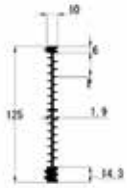


L	10 mm
H	101 mm
Rth,F	0.279 K/W
Rth,N	0.81 K/W
Alloy	1050

CODE DA10_132.5

L	10 mm
H	132.50 mm
Rth,F	0.210 K/W
Rth,N	0.56 K/W
Alloy	1050

CODE AE12.5_125



Kg/mt	1.38 Kg/mt
L	12.50 mm
H	125 mm
Alloy	Alloy 6061

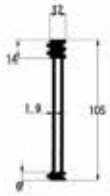
CODE AC12_90

Kg/mt	1,40 Kg/mt
L	12 mm
H	90 mm
Rth,F	100 K/W

CODE AE12_90

Kg/mt	1.40 Kg/mt
L	12 mm
H	90 mm
Alloy	6061

CODE AE12_105



Kg/mt	1.53 Kg/mt
L	12 mm
H	105 mm
Alloy	6061

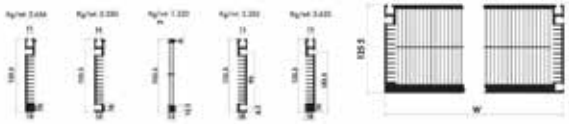
CODE AE12_117

Kg/mt	1.64 Kg/mt
L	12 mm
H	117 mm
Alloy	6061

CODE AE12_125

Kg/mt	1.76 Kg/mt
L	12 mm
H	125 mm
Alloy	6061

CODE DA12_125

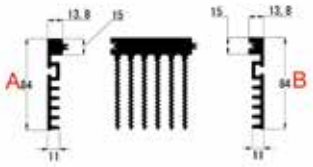


L	12 mm
H	125 mm
Rth,F	0.220 K/W
Rth,N	0.63 K/W
Alloy	1050

CODE DA12_127

L	12 mm
H	127 mm
Rth,F	0.250 K/W
Rth,N	0.72 K/W
Alloy	1050

CODE AE13.79_84

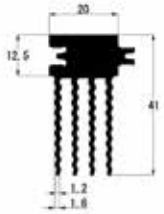


Kg/mt	1.52 Kg/mt
L	13.79 mm
H	84 mm
Alloy	6061

CODE DA15_118

L	15 mm
H	118 mm
Rth,F	0.81 K/W
Rth,N	0.290 K/W
Alloy	1050

CODE A20_41



Kg/mt	1.08 Kg/mt
L	20 mm
H	41 mm
Alloy	6061

CODE AE25_41

Kg/mt	1.52 Kg/mt
L	25 mm
H	41 mm
Alloy	6061

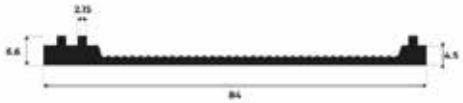
CODE AE37.24_84

Kg/mt	3.16 Kg/mt
L	37.24 mm
H	84 mm
Alloy	6061

CODE DA50_62

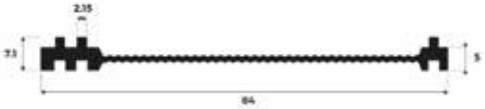
L	50 mm
H	62 mm
Rth,F	0.220 K/W
Rth,N	0.63 K/W
Alloy	1050

CODE DE84_6.6



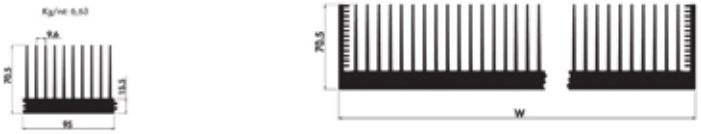
Kg/mt	0.54
L	84 mm
H	6.6 mm
Alloy	6061

CODE DE84_7.1



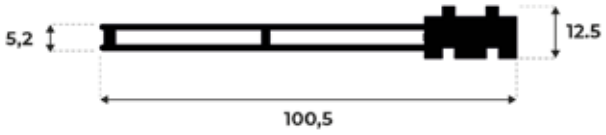
Kg/mt	0.97 Kg/mt
L	84 mm
H	7.1 mm
Alloy	6061

CODE DA95_70.5



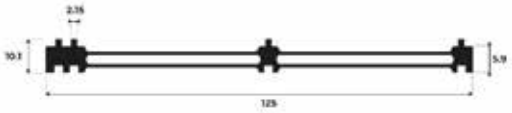
L	95 mm
H	70.50 mm
Rth,F	0.480 K/W
Rth,N	1.40 K/W
Alloy	1050

CODE AC100,5-12,5



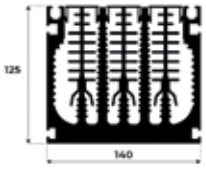
Kg/mt	1.3 Kg/mt
L	100,5 mm
H	12.5 mm
Alloy	6060

CODE DE125_10.1



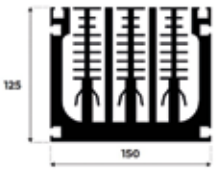
Kg/mt	1.35 Kg/mt
L	125 mm
H	10.1 mm
Alloy	6061

CODE DE140_125



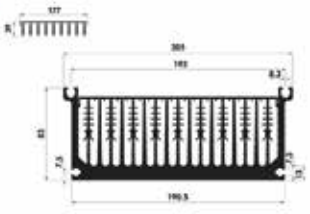
Kg/mt	22.9 Kg/mt
L	140 mm
H	125 mm
Rth,F	0.18 K/W
Rth,N	0.81 K/W
Alloy	6061

CODE DE150_125



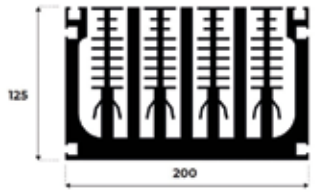
Kg/mt	23.77 Kg/mt
L	150 mm
H	125 mm
Rth,F	0.128 K/W
Rth,N	0.38 K/W
Alloy	6061

CODE AE190.5_83



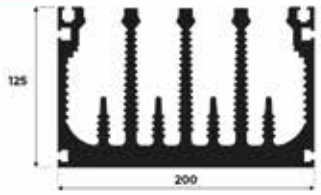
Kg/mt	18.87 Kg/mt
L	190.50 mm
H	83 mm
Rth,F	0.260 K/W
Rth,N	0.72 K/W
Alloy	6061

CODE DE200_125_B

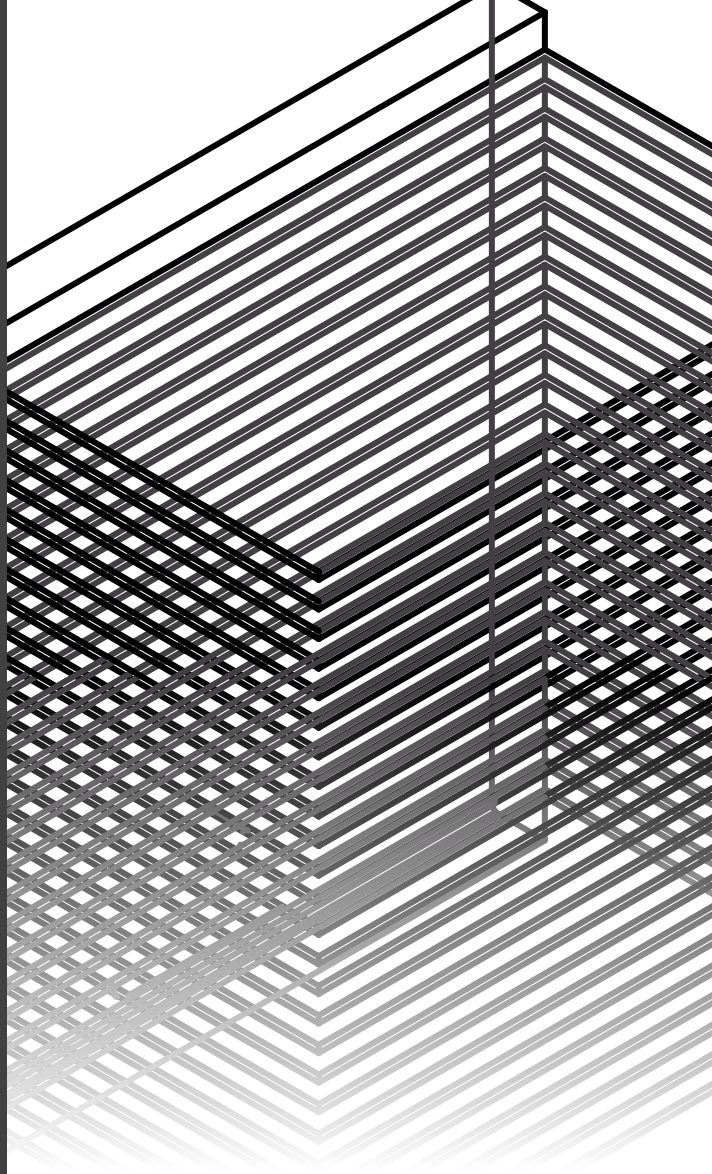


Kg/mt	30.8 Kg/mt
L	200 mm
H	125 mm
Rth,F	0.088 K/W
Rth,N	0.26 K/W
Alloy	6061

CODE DE200_125_A



Kg/mt	24.440 Kg/mt
L	200 mm
H	125 mm
Rth,F	0.088 K/W
Rth,N	0.26 K/W
Alloy	6061



Technology
HEAT PLUS

MG ITALY
Pioneering Mechanics, Leading Innovation

Technology
HEAT SINK PLUS

This technology allows us to offer fully custom heat sinks, while still maintaining the characteristics and performance of a standard solution.It is achieved through the mechanical assembly of the base and fins, using exclusive and proprietary MG ITALY technologies.
This results in superior thermal performance and excellent mechanical properties.

New: An innovative product line—fully custom heat sinks, manufactured through the mechanical assembly of base and fins, using MG ITALY's proprietary technology. Mechanical properties are compatible with 6000-series alloys, with an aspect ratio coefficient of 96:1.

Performance: From raw material to finished product, the thermal performance of our solutions is enhanced and unique, outperforming current competitors on the market.
We guarantee an average reduction in thermal resistance between 8% and 15%.

Mechanical properties

	Tensile strength	0,2 Stress Test	Elongation	Hardness	Module of elasticity
Aluminum EN AW-1050A	80 N/mm²	35 N/mm²	38%	21 HB	65 kN/mm²
Aluminum EN AW-6101B	120 N/mm²	70 N/mm²	9%	25 HB	69 kN/mm²
Copper	210 N/mm²	120 N/mm²	45%	45 HV	110 kN/mm²

Chemical Composition

	Si	Fe	Mn	Mg	Cu	Zn	Ti	Altri	Al
Aluminum EN AW-1050A	0,25	0,40	0,05	0,05	0,05	0,07	0,05	0,03 (uno)	99,5 (min)
Aluminum EN AW-6101B	0,30-0,60	0,10-0,30	0,05	0,35-0,60	0,05	0,1	-	0,03 (uno)	98,2 (max)
Copper	-	-	-	-	99,95 (min)	-	-	0,05 (tot)	

Physical properties

Density	Thermal conductivity	Electrical conductivity	Linear thermal expansion coeff.
2,70 Kg/dm²	229 W/mK	35,4 m/Ωmm²	23,6 10^{-6} 1/K
2,70 Kg/dm²	219 W/mK	32,6 m/Ωmm²	23,4 10^{-6} 1/K
8,93 Kg/dm²	390 W/mK	57,0 m/Ωmm²	16,8 10^{-6} 1/K

Application Properties

Machinability	Weldability	Corrosion Resistance	Formability	Surface Treatment
Average	Good	Excellent	Good	Good
Good	Excellent	Excellent	Average	Good
Average	Good	Good	Good	Good

TECHNOLOGY HeatPlus

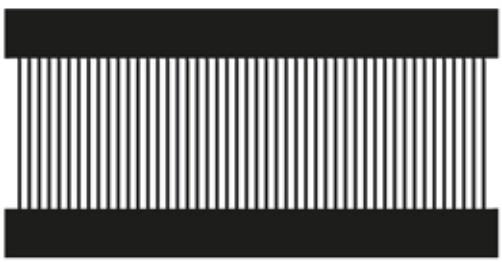
Heatsink Width (W)	max 1000 mm (without welding)
Heatsink Lenght (L)	max 1300 mm
Base Thickness (BT)	8 ÷ 50 mm
Fin Height (FH)	max 190 mm
Fin Thickness (FT)	1 ÷ 3 mm
Fins Distance (FD)	min 2 mm
Aspect Ratio (FH/FD)	max 95:1
Tolerances on dim. & machining	ISO 2768-mk
Material	EN AW-1050A - EN AW-6101B - 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 / 4 mm
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



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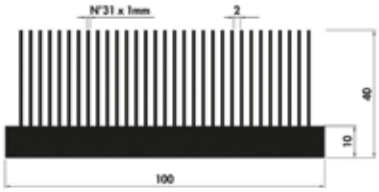
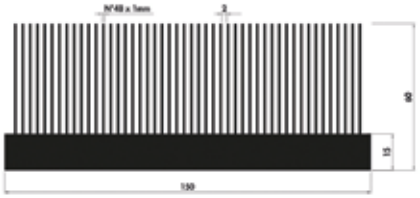


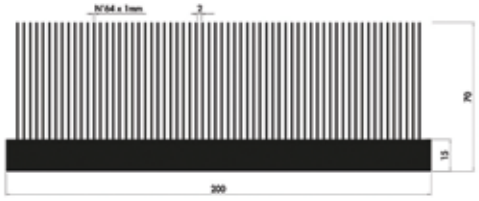
Kg/mt	5.21 Kg/mt
L	100 mm
H	40 mm
Alloy	6061

CODE HA150_60



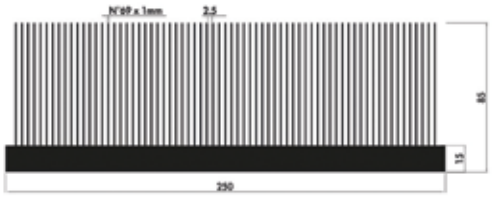
Kg/mt	11.18 Kg/mt
L	150 mm
H	60 mm
Alloy	6061

CODE HA200_70



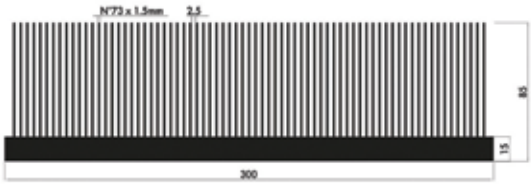
Kg/mt	17.60 Kg/mt
L	200 mm
H	70 mm
Alloy	6061

CODE HA250_85



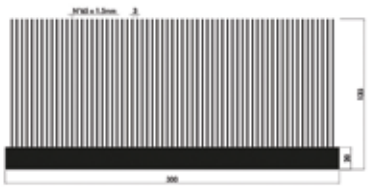
L	250 mm
H	85 mm
Alloy	6061

CODE HA300_85



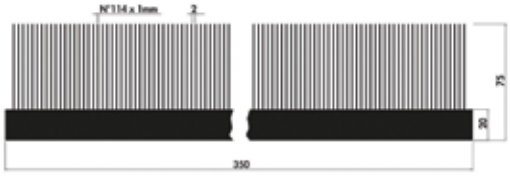
Kg/mt	32.85 Kg/mt
L	300 mm
H	85 mm
Alloy	6061

CODE HA300_135



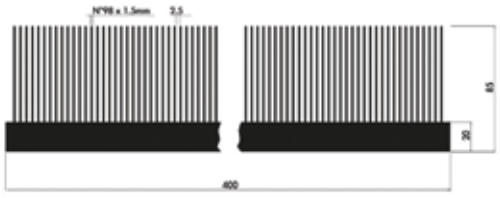
Kg/mt	46.47 Kg/mt
L	300 mm
H	135 mm
Alloy	6061

CODE HA350_75



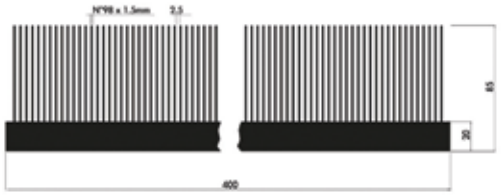
L	350 mm
H	75 mm
Alloy	6061

CODE HA400_85



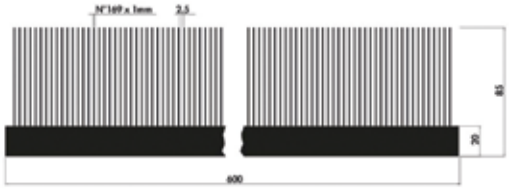
L	400 mm
H	85 mm
Alloy	6061

CODE HA500_100



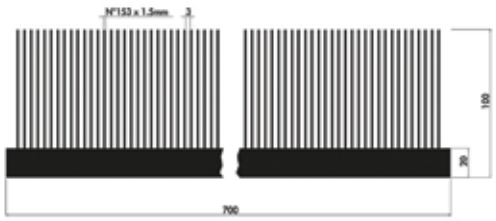
L	500 mm
H	100 mm
Alloy	6061

CODE HA600_85



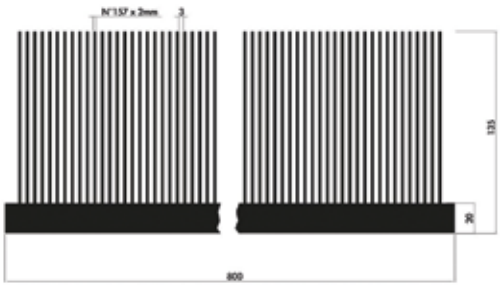
Kg/mt	62.02 Kg/mt
L	600 mm
H	85 mm
Alloy	6061

CODE HA700_100

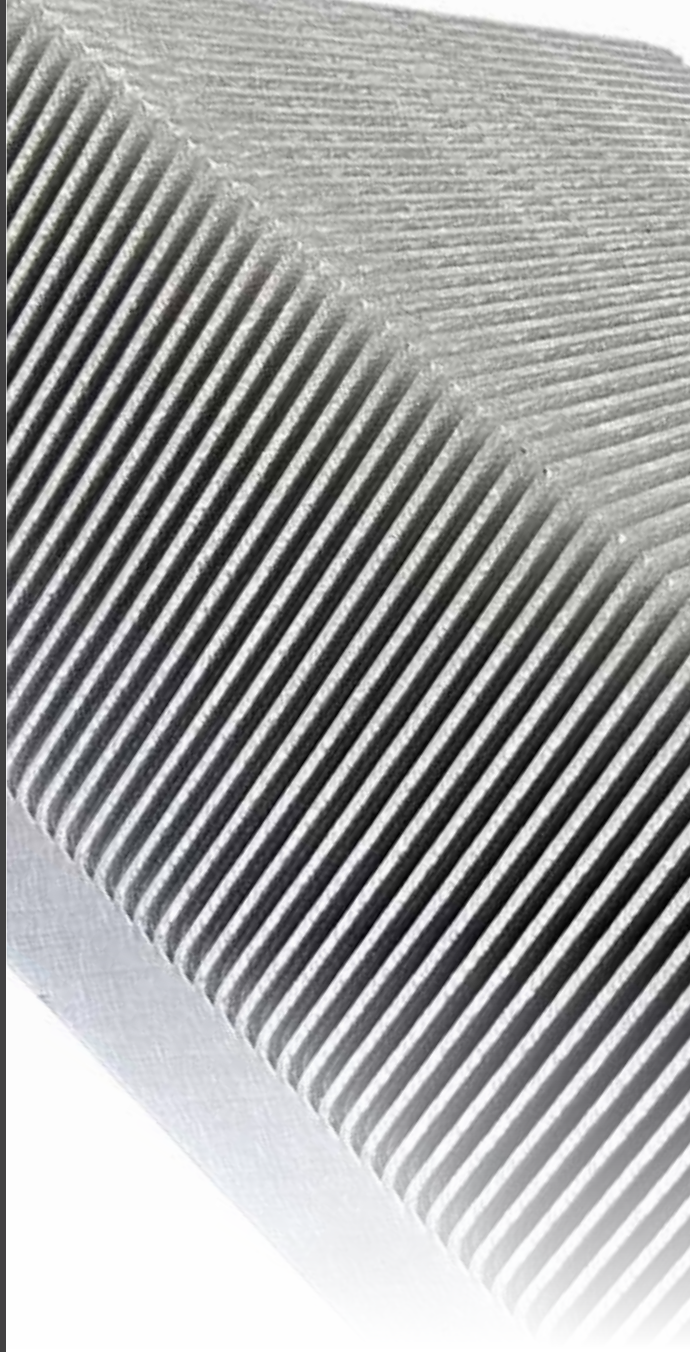


Kg/mt	87.37 Kg/mt
L	700 mm
H	100 mm
Alloy	6061

CODE HA800_135

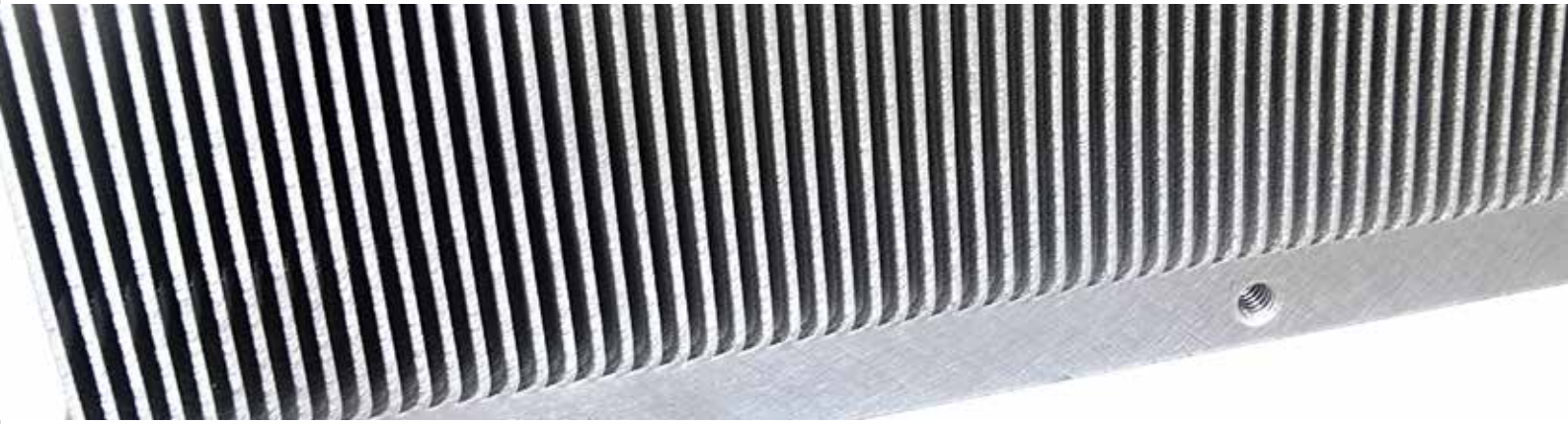


Kg/mt	140.70 Kg/mt
L	800 mm
H	135 mm
Alloy	6061



Technology
MGSKIVED

MG ITALY
Pioneering Mechanics, Leading Innovation



NEW DISSIPATION TECHNOLOGY
MGSKIVED HEATSINKS

MGSKIVED technology is used when fins intensity cannot be achieved through extrusion technology. We can use both copper and aluminum.

Today, this technology allows us to overcome the limitations of the thickness and length ratio of conventional heat sinks, and our machines can produce high-density, very high-efficiency heat sinks. We can create tall and extremely thin fin-heatsinks with a long structure thanks to our dedicated beveling machines, using high-precision beveling cutting technology. Our machines use a single block of material such as copper or aluminum. The fins and base become a “whole”.

Therefore the efficiency of the heat sink with extended fins is up to two times higher than the traditional heat sink.

Thermal conductivity efficiency can reach 100% of the profile material. This technology can be applied in the photovoltaic industry, electric vehicles, inverters, communication products, LED lights.

General Specifications

Heat Sink Width (W)	max 3000 mm
Heat Sink Length (L)	max 580 mm
Heat Sink Height (H)	max 120 mm
Fin Thickness (FT)	0,3+1 mm
Fin Pitch (FD)	min 1,5 mm
Material	Aluminum, Copper

Technology
COLD PLATE

A cold plate is a liquid cooling technology used to dissipate heat from high-power electronic components (e.g., inverters, IGBTs, CPUs, power modules).
It offers greater efficiency compared to air cooling, ensuring high thermal performance, reliability, and longer device lifespan.

MG ITALY offers a wide range of Cold Plates, tailored to the specific application and operating requirements of our clients.

We manufacture Cold Plates using our proprietary technologies: through-hole system, vacuum, brazing, and Vorticold.

We use different materials depending on the performance requirements the products must meet during operation.

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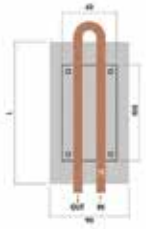
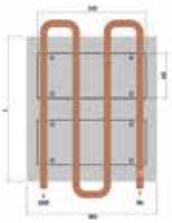
CODE DA90_20



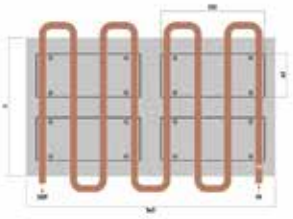
L	90 mm
H	20 mm
Alloy	6060

CODE DA180_20



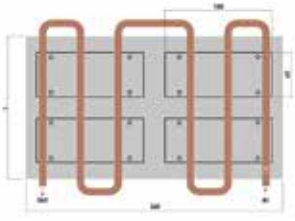
L	180 mm
H	20 mm
Alloy	6060

CODE DA360_20



L	360 mm
H	20 mm
Alloy	6060

CODE DA360_20



L	360 mm
H	20 mm
Alloy	6060

MG ITALY

High-Performance Metal Joints

BRAZING TECHNOLOGY

What is Brazing?
Brazing is a permanent joining process for two or more metals, performed using a filler metal (brazing alloy) that has a lower melting point than the base metals, but higher than 450°C.
Unlike welding, the base metals are not melted, ensuring a clean, precise, and strong joint without significantly altering the microstructure of the components.

How It Works
1 - The materials are heated above the melting point of the filler metal, but below that of the base metals.
2 - The filler metal melts and flows by capillary action between the surfaces to be joined.
3 - Upon cooling, the filler metal solidifies, creating a strong and durable metallurgical bond.

Advantages of Brazing
· Clean, precise joints, ideal for complex geometries
· Repeatability and reliability in automated processes
· Compatible with dissimilar metals (e.g., copper-steel, stainless steel-special alloys)
· Excellent mechanical strength and leak-tightness
· Minimal thermal stress on base materials

Main Brazing Methods
Torch Brazing > Flexible, ideal for small batches or repairs
Furnace Brazing > Precise temperature control, suitable for series production
Induction Brazing > Fast and localized, perfect for automation
Vacuum Brazing > No oxidation, ideal for critical components (aerospace, medical))

Industrial Applications
· Heat exchangers (HVAC, automotive)
· Aerospace and defense (tubing, fins, lightweight structures)
· Medical field (equipment, titanium components)
· Precision mechanics (gears, tools, micro-components)
· Automotive (sensors, valves, hydraulic joints)

Common Brazing Alloys
· Silver-based alloys: excellent wettability, ideal for steel and copper
· Copper-phosphorus alloys: cost-effective, great for pure copper
· Nickel or aluminum-based alloys: high strength, used in structural applications

Integration with Other Technologies
· *Vacuum technology (for brazing in controlled atmospheres)*
· *Post-process heat treatments*
· *NDT inspections (e.g., X-ray, ultrasound) to verify joint integrity*

Conclusion
Brazing is a versatile and highly reliable joining method, suitable for mass production or advanced prototyping, and ideal for industries where joint quality is critical.

The Power of Controlled Vacuum

VACUUM TECHNOLOGY

What is Vacuum Technology?
Vacuum technology is based on the creation and maintenance of a low-pressure environment, sometimes comparable to that of outer space. This is achieved through pumping systems that remove air, oxygen, nitrogen, moisture, particulates, and other substances from a sealed chamber.The result? A partial or near-absolute vacuum, where physical laws behave very differently compared to atmospheric conditions.

How It Works
1 - Mechanical pumps (rotary vane, dry), turbomolecular, or cryogenic pumps—often in combination—are used to progressively lower the pressure.
2 - Pressure sensors such as Pirani or ion gauges continuously monitor the vacuum level.
3 - The vacuum system can be integrated with heating, cooling, plasma, or deposition technologies (e.g., PVD, CVD) for complex industrial processes.

Key Applications
- Power electronics (inverters, IGBTs, MOSFETs)
- Electric motors and EV drives
- Data centers and high-density server cooling
- Industrial lasers, RF, and microwave systems
- Avionics and defense systems

Why Is It So Important?
- No air molecules to interfere with chemical reactions or physical processes
- Heat dissipation and conduction occur differently, allowing for more precise process control
- Extremely clean, contaminant-free surfaces can be achieved

Conclusion
In summary, vacuum technology is an enabling platform—not an end in itself, but a foundation for a wide range of high-precision, efficient, and safe applications.
It is one of the key technologies driving progress in miniaturization, sustainability, and space exploration.

High-Performance Cooling with Controlled Turbulent Flow

COLD PLATE VORTICOLD

What is a Vorticold Cold Plate?
The Vorticold Cold Plate is an advanced liquid-cooled heat exchanger, designed to maximize heat transfer between a hot surface (such as an electronic device) and a cooling fluid.
The Vorticold technology uses a system of internal micro-channels with turbulent geometry, specifically designed to induce controlled vortices in the coolant flow.These vortices disrupt the thermal boundary layer near the wall, dramatically increasing heat exchange efficiency.

How It Works
- The coolant enters the cold plate following a turbulent path that creates localized vortices
- The vortices increase the heat transfer coefficient, maintaining uniform temperatures across the surface
- The design ensures even cooling, even in the presence of hot spots

Technical Features
- Materials: typically aluminum or copper, with anti-corrosion surface treatments
- Fluid compatibility: water, glycol mixtures, dielectric oils
- Typical flow rates: from 1 to 5 L/min (depending on the design)
- Optimized ΔT: designed for minimal temperature differentials, even under high power density

Advantages of Brazing
- Clean and precise joints, ideal for complex geometries
- Repeatability and reliability in automated processes
- Compatible with dissimilar metals (e.g., copper-steel, stainless steel-special alloys)
- Excellent mechanical strength and hermetic sealing
- Minimal thermal stress on base materials

Typical Applications
- Power electronics (inverters, IGBTs, MOSFETs)
- Electric motors and EV drives
- Data centers and high-density server cooling
- Industrial lasers, RF and microwave systems
- Avionics and defense systems

Customization & Integration
- Custom geometries tailored to specific devices
- Integration with temperature and flow sensors
- Direct-to-chip cooling capability
- Compatible with both active and passive cooling systems

Why Choose a Vorticold Cold Plate?
Because it combines advanced fluid dynamics design with high thermal conductivity materials to deliver high performance in compact spaces.
It's the ideal solution for applications where thermal management is critical and operating efficiency makes the difference.

Processes & MACHINING

MG iTALY carries out countless processes in order to obtain finished products of the highest quality.

- Cut
- CNC Technology
- Die Casting
- Surface Treatments
- Assemblies

MG ITALY
Pioneering Mechanics, Leading Innovation

CUTTING

MG has a constantly updated fleet of machines and has over 7 systems dedicated solely to cutting operations. Covering a processing range from diameter 6mm to 200mm with a thickness of a few tenths up to the solid. In addition to round bars, we cut all types of shapes.

Several plants perform operations such as wire brush deburring (brushing), tap/die chamfering and rolling, threading, boring, turning, tapering and washing in line.

The materials we commonly work are carbon steel (iron), aluminum and its alloys (6060, ergal, etc.), copper, brass and stainless steel in various alloys (AISI 304 – AISI 316 – INCONEL – DUPLEX – SUPER DUPLEX etc.).

Thanks to the very modern machinery we are able to make cuts of various degrees, according to the customer's needs.

Wheel Cut

Band cut

SURFACE TREATMENTS

Within its headquarters, the company has machinery for: metal burnishing, surface sandblasting, metal chrome plating, metal galvanizing, detail polishing.

Painting

Silk printing

DIE-CASTING

Die casting

Sand casting

CNC TECHNOLOGY

With a fleet of over 15 high-level machining centers, MG proposes itself as prime contractor for carrying out mechanical machining to customer drawings, guaranteeing the production of high precision parts with limited times and costs.

All the CNC machines always work manned by assigned personnel who are exclusively responsible for the good execution and dimensional control of the product they are making.

To make this way of working possible, the department heads supervise the production cycle, while other qualified personnel carry out some necessary and fundamental operations.

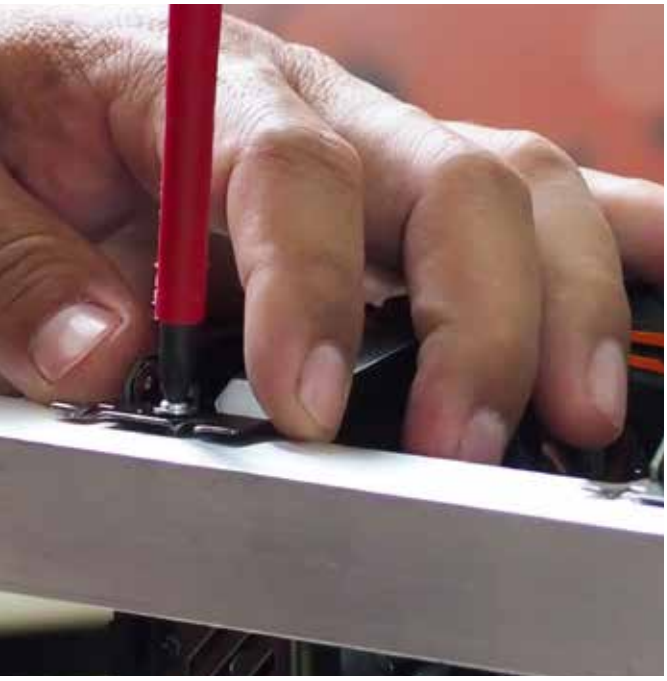
Milling

Tuning

Laser cutting

Punching

Bending



ASSEMBLY

To complete our mechanical processes, thanks to the know-how and experience acquired, our company is now specialized in the construction, assembly and assembly of groups for industrial plants and machinery.

We also carry out assembly of groups of equipment, carried out internally following the specific requests, guaranteeing care, attention and quality that our major customers recognize us after years of collaboration.

Mechanical assembly

Welding

MGITALY

Pioneering Mechanics, Leading Innovation

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