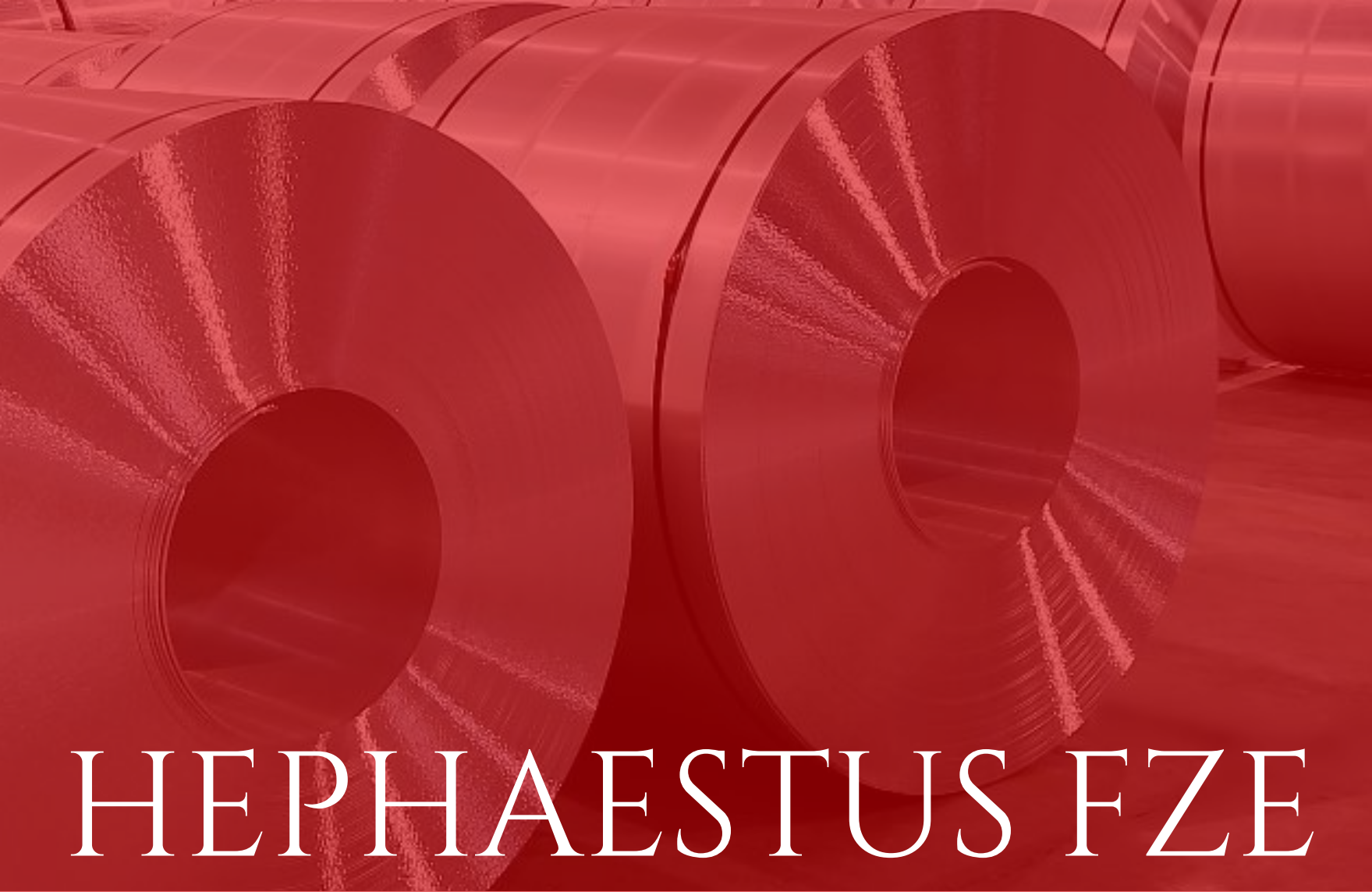




HEPHAESTUS FZE

ALUMINIUM
MANUFACTURING & TRADING
TOOLING & EQUIPMENT



CORPORATE CULTURE.

PASSIONATE TO
EMPOWERING
POSSIBILITIES.

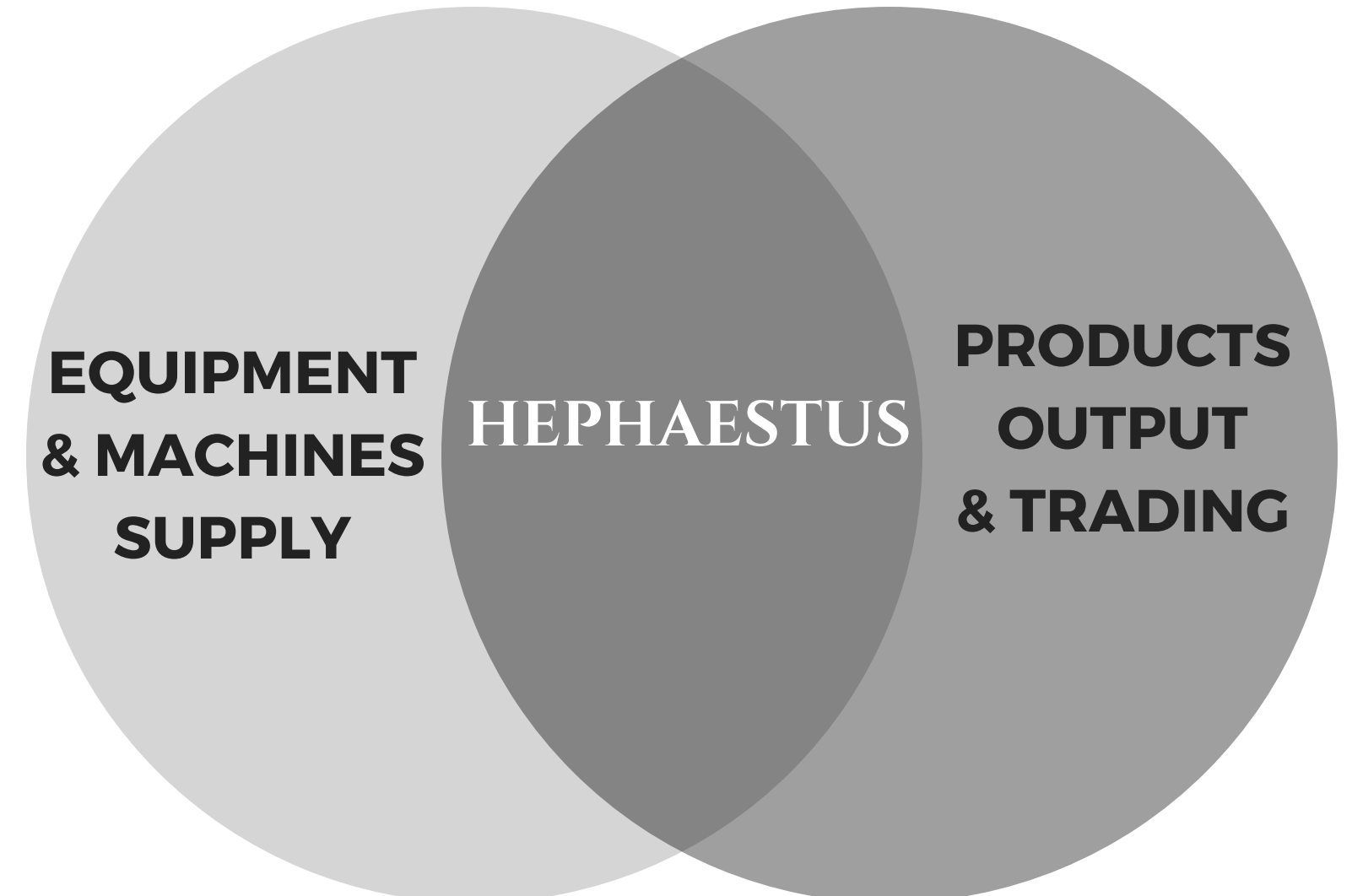
HEPHAESTUS IS A TRADING COMPANY & COMMERCIAL AGENCY
SPECIALIZED IN THE ALUMINIUM INDUSTRY AT 360°.

WE OFFER ALUMINUM PRODUCTS FROM THE FACTORIES THAT WE
EQUIPPED OURSELVES WITH COILS CASTING LINES, COILS ROLLING MILLS
AND ALUMINIUM EXTRUSION LINES SET-UP.

BEING AUTHORIZED DEALERS FOR CUSTOMIZED MACHINERIES &
EQUIPMENT FOR NEW FACTORIES SETTLEMENT, EXPANSIONS OR INDUSTRY
RENOVATION, HEPHAESTUS PROVIDES THE ALUMINIUM OUTPUT DIRECTLY
PRODUCED AND TRADE TO INCREASE THE OFFER.

Hephaestus is the only market player who links
production equipment with the final product.

We believe in this innovative line of business
which is marking a new milestone in our relentless
pursuit of excellence in innovation and service.



PRODUCTS RANGE

ALUMINIUM FLAT ROLLED PRODUCTS:

- ALUMINIUM COILS
- ALUMINIUM SHEETS
- ALUMINIUM STUCCO EMBOSSED
- ALUMINIUM COILS & SHEETS
COLOUR COATED
- ALUMINIUM CHEQUERED
PLATES

ITEM	Alloys	Temper	Gauge	Width	Size
Cast Coil	1xxx 3xxx 5xxx 8xxx	F	4 - 7 mm	800 - 2000 mm	5 Tons
Rolled Mill Coils & Sheets	1xxx 3xxx 5xxx 8xxx	H 12/28 on demand	0.25 - 16 mm	150 - 2000 mm	cut to length
Coated Coils & Sheets	1xxx 3xxx 5xxx 8xxx	H 12/28 on demand	0.35 - 1.20 mm	150 - 2000 mm	cut to length
Stucco Emboss Coils & Sheets	1xxx 3xxx 5xxx 8xxx	H 12/28 on demand	0.30 - 1.20 mm	150 - 2000 mm	cut to length
Chequer Plate	1xxx 3xxx	H 12/28 on demand	1.20 - 6.0 mm	1220 - 2440 mm (4' x 8')	

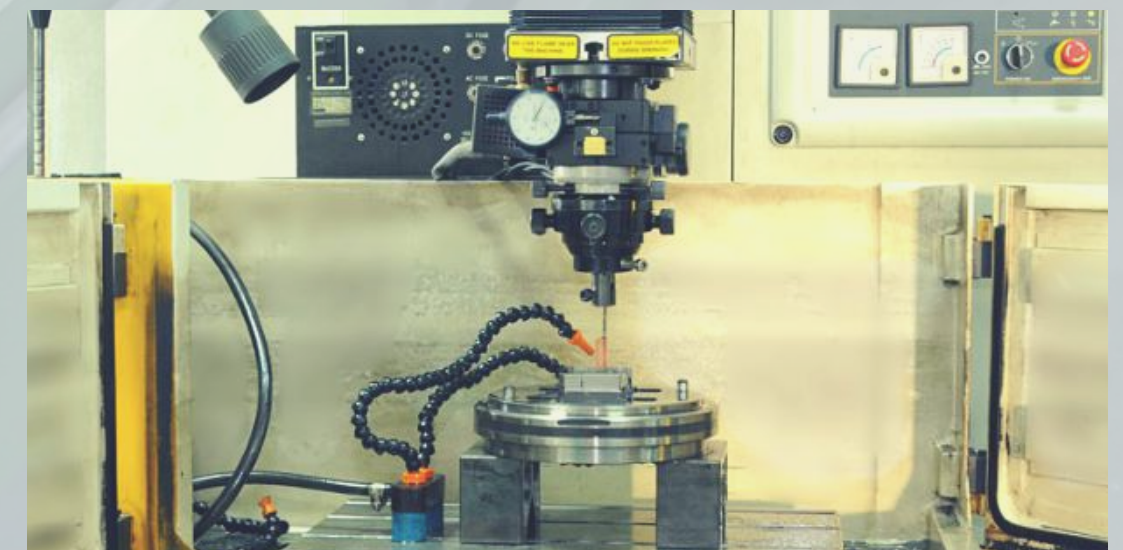
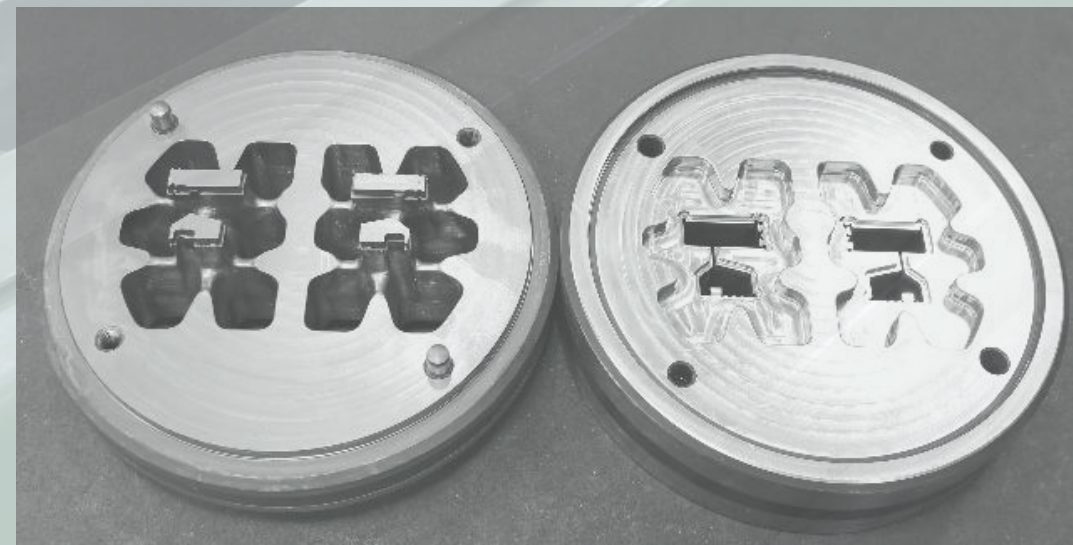
PRODUCTS RANGE

ALUMINUM EXTRUDED PROFILES:

- MILL FINISH
- POWDER COATED
- WOOD COATED
- ANODIZED
- THERMAL BREAK SECTIONS

ITEM	Alloys	Temper	Length	Thickness
Extruded Profiles	6061	T4	1000 - 7000 mm	as per catalogues or requested design
	6063	T5		
	6082	T6		
	other alloys on demand			

Hephaestus provide Dies and tools for new sections & aluminium profiles systems.
Tightly linked with European dies manufacturers and local based service for correction and maintenance of the tools.





PRODUCTION LINES, MACHINERIES & EQUIPMENTS.
HEPHAESTUS IS AUTHORIZED DEALER OF MAJOR ITALIAN BRANDS FOR
ALUMINIUM INDUSTRIES EQUIPMENT



EXTRUSION LINES

CASTING LINES

FURNACES

ROLLING MILLS

COATING LINES

ANODIZING LINES

FINISHING LINES

PACKAGING LINES





ARCHITECTURAL & ENGINEERING

Aluminium for architectural & designing application and engineering purposes.



MACHINERIES & EQUIPMENT

Providing full set up for aluminium extrusion, aluminium flat rolled products, finishing and ancillary equipment



TRADING

We serve local and international aluminium traders to bridge markets and empowering possibilities

GENERAL ALLOYS & TEMPER INFORMATION

Aluminium alloys are the ones in which aluminium (Al) is the predominant metal and other alloying elements are copper, magnesium, manganese, silicon, iron, nickel and zinc that are usually added to aluminium in amounts ranging from 0,05% to 7.0%. Principal elements in alloy Series:

Aluminium 99% 1xxx, Copper 2xxx, Manganese 3xxx, Silicon 4xxx, Magnesium 5xxx, Magnesium & Silicon 6xxx, Zinc 7xxx.

The 1xxx, 3xxx and 5xxx series are the ones most selected for aluminium sheets and coils as output from rolling mill process.

The 6xxx series are the ones most selected for extrusion applications.



Aluminium alloys are also classified as either heat treatable or no-heat treatable. Heat treatable alloys attain their maximum strength through controlled heat treatment. The temper designation is as follow:

F. As extruded.....No special thermal control or strain hardening

O. Annealed.....Thermally treated to obtain the lowest strength temper

H. Strain hardened.....Cold working used to increase strength and hardness

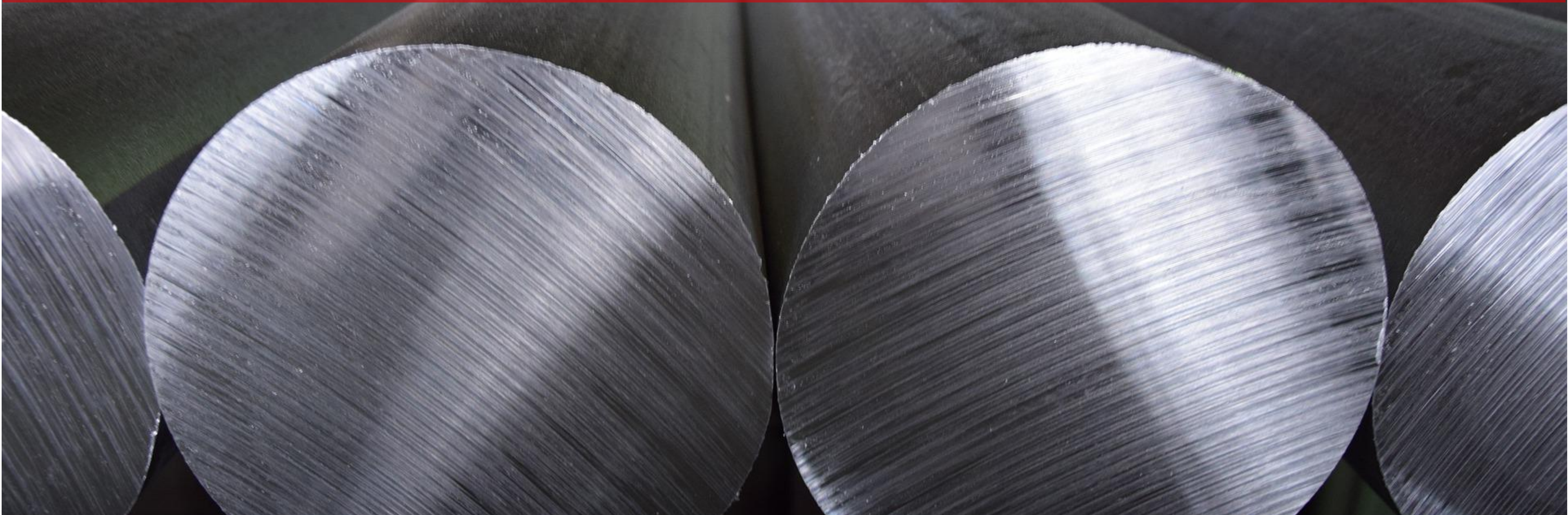
T. Thermally treated.....Heat treatment to produce stable tempers

For extruded profiles most of clients' requirements using alloys 6061, 6063 and 6082 with T4, T5 and T6 tempers.

6063: The most popular extrusion alloy, excellent corrosion resistance and good natural finish, easily welded.

6061: Most versatile alloy with a high tensile properties and good corrosion resistance. After heat treatment it can develop a strength comparable to steel, therefore suitable for structural applications.

6082: It has the highest strength of 6000 series. Large use for structural engineering with the benefit of lightness, stiffness and good corrosion resistance.



T4: Solution heat treated and naturally aged to stable condition

T5: Cooled from an elevated temperature and artificially aged hardened

T6: Solution heat treated and artificially aged

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