

HELIOS

High-Performance Casting for Gold and Silver

Designed to meet the needs of **high-end jewelry, fashion accessories, and eyewear manufacturing**, Helios is the ideal casting machine for **gold and silver**, also compatible with **brass and bronze**.

Thanks to its **patented horizontal casting system with vacuum and overpressure control**, Helios ensures **outstanding quality and repeatability** throughout every casting cycle.



HIGH CASTING QUALITY

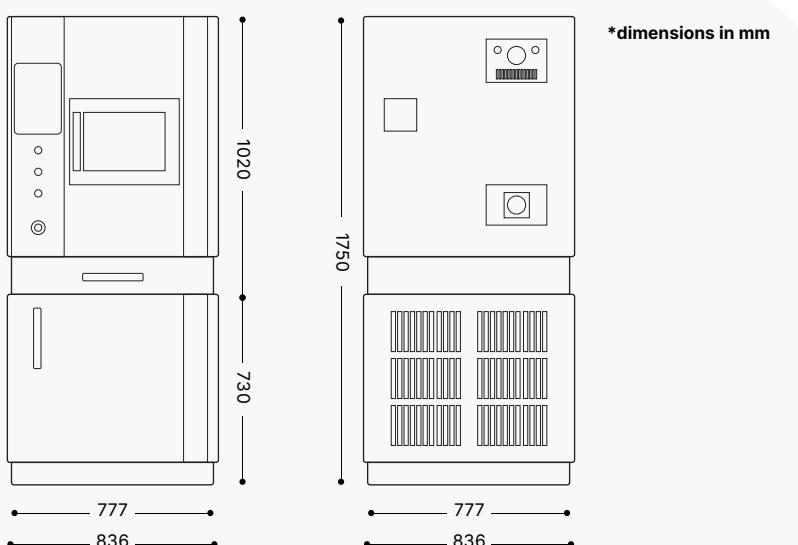
Helios ensures perfectly **smooth, porosity-free castings** with exceptional alloy homogeneity, thanks to its **inline casting system** that enables the rapid transfer of molten metal, minimizing temperature loss.

SIMPLIFIED OPERATION

The **10" capacitive touch screen** provides real-time monitoring of all casting parameters. Helios features **preset programs** for gold, silver, and non-precious alloys, plus **50 customizable profiles** for quick and intuitive management of every casting cycle.

PRODUCTION EFFICIENCY

The automatic flask locking and tilting system **reduces setup times** and ensures **maximum process repeatability**. The patented design guarantees complete flask filling **without the use of seals or stoppers**, reducing operational costs and simplifying maintenance.



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FEATURES

MADE IN ITALY

Flexible solution

Available both as a benchtop version and with an integrated support base, which can accommodate the external chiller and vacuum pump.

Customizable casting programs

Helios offers preset programs for gold, silver, and other alloys, and allows the creation of up to 50 fully customizable casting programs.

Drawer with refractory stone

Ideal for storing crucibles, tongs, rubber molds, and other essential tools.



User interface and connectivity

Featuring a 10" color touch display and Ethernet connectivity, Helios enables remote monitoring and assistance.

Vacuum and overpressure

The automatic vacuum and overpressure functions (up to 2 bar) ensure a complete and uniform filling of the flask, including its most intricate branches, delivering castings with smooth and compact surfaces.

Automatic chamber tilting

The chamber rotation is fully automated, with controlled, consistent speed, ensuring maximum process repeatability.



Patented inline casting system

Helios incorporates the innovative Orotig technology, featuring a horizontal crucible perfectly aligned with the casting flask. This configuration enables rapid and direct transfer of molten metal, drastically minimizing temperature loss and reducing turbulence during metal pouring, delivering castings with smooth and compact surfaces.

★ PATENTED SYSTEM

TECHNICAL DATA

Helios

CASTING PROCESS

Induction with controlled atmosphere

MIN CASTING VOLUMES (g)

Gold 18 kt (400 g), Silver (250 g), Brass (200 g), Bronze (200 g)

MAX CASTING VOLUMES (g)

Gold 18 kt (1200 g), Silver (800 g), Brass (700 g), Bronze (700 g)

OVERPRESSURE WITH GAS

Argon 2 bar

VACUUM

10⁻² bar

MAX FLASK SIZE (h x Ø, mm)

230 × 120 mm

TEMPERATURE CONTROL

Up to 1200 °C, with thermocouple control

FLASK LOCKING / FILLING

Automatic/Automatic

FLASK FILLING SYSTEM

Tilting

COOLING SYSTEM

External water cooling system

DISPLAY

10" Touch screen

POWER

230 Vac ±10%, 60 Hz, 3P + N + PE - max power consumption 5 kW

400 Vac ±10%, 50 Hz, 3P + N + PE - max power consumption 5 kW

COMPRESSED AIR

6 bar

MACHINE WEIGHT (+ TRANSFORMER)

310 kg (+ 90 kg)

OPTIONAL ACCESSORIES

Chiller (not included)