

A4507I INDUCTION CASTING MACHINE EC-1 Infrared



Product group

Medium frequency electronic induction casting machine

Main features

- ⇒ Highest reliability
- ⇒ Suitable to cast any type of alloy
- ⇒ Read-out system with optical fiber to detect the infrared rays emitted by the melting alloy and indirect check on temperature
- ⇒ Possibility to adjust the software parameters of the read-out system to suit with the requirements of the alloy in use
- ⇒ **Control over the supplied power = high speed for non-precious alloys which tend to oxidize and soft impact with precious alloys which must never sublimate**
- ⇒ Controls set by means of electronic ultraflat keyboard
- ⇒ Logic and inalterable function scanning = extreme ease of use
- ⇒ Immediate stop of melting process in case the lid is open
- ⇒ **Injection through centrifugation = high molecular compactedness and best results assured with any alloy**

Self-diagnostic

YES – the detected inconvenience is exhaustively reported on the display

Parameters for each cycle

5 – supplied power, acceleration, speed and rotation time

Max. temperature to be achieved

2000°C

Min melting time with 30g CR-CO

60-70 seconds

Casting ring size min. / max.

Ø 25 mm - Ø 90 mm

Height of casting rings

Min. 50 mm - max 80 mm

Casting procedures	Both traditional technique with the metallic casting ring and free expansion. We recommend to preserve cilindricity assured when the pouring cone is right at the centre, otherwise it will be necessary to fit special adapters
Crucibles to be used	<p>“Glass-shape” models with Ø 38 mm support: ceramic (RT100E) – ceramic with silicon nitride (RT101E) – ceramic with graphite (RT102E) – ceramic with vitrified carbon (RT103)</p> <p>For more details, pls refer to the specific technical card on crucibles</p>
Max. number of revolutions	500 rpm
Ø Arm rotation	Ø 460 mm
Acceleration control	YES – to suit with any alloy
Rotation time control	YES – from 10 to 60 seconds
Protection of melting environment	Possibility to fit Argon gas (upon request)
Max number of consecutive castings	15 large CR-CO casting rings or 20 in gold, when exceeding these quantities, a stop of 2 hours will be necessary
Cooling system	Closed system water cooling system and pump, with thermostat, pressure switch and fluxmeter. Upon request an additional air-cooling condenser can be fitted in which increases the qorking range (code: 4507500)
Electric requirements	NO preferential line requested (16Amp single-phase industrial socket with conductors section 2.5mm²)
Line voltage	230v A.C. 50 Hz (different voltage available upon request)
Absorption	3 kW max
Size	mm 500x600x970h
Net weight	105 Kg