



PRODUCT OVERVIEW

Laboratory Equipment in Stainless Steel

TRUST IN QUALITY

INDURET COMPACT | Induction heated casting machine



Description

The INDURET COMPACT is suitable for casting precious and non-precious alloys under vacuum. All castings produced are precise and have a homogeneous structure. As the castings are subjected to high pressure, they have no porosity or inclusions. The INDURET COMPACT requires only small space due to its compact design. Casting temperature is adjusted by the temperature control. Operation is semi-automatic and pre-melting of alloys is possible.

Specification

- Induction heating under vacuum
- Optical casting and temperature control with up to 4 storage locations
- Graphite or ceramic crucibles can be used
- Easy handling due to the multi-position rotary switch
- Optional computer interface (see accessories)
- Temperature measurement directly in the molten metal (see accessories)
- Due to argon flushing and integrated vacuum pump an oxygen-reduced atmosphere fosters casting results with highest precision

Capacity

- 110 g precious / 55 g non-precious metal
- Temperature measurement directly in alloy (min. amount of 15 g)

Technical Data

Line voltage:	230 V / 50 Hz; (110 V on request)
Current consumption:	3.600 W
Height/ width/ depth:	390 / 310 + 40 / 650 mm
Weight:	38 kg
Compressed Air / Argon pressure:	5 – 6 bar
Water pressure:	min. 3 – 4 bar (5 L/min)
Ring sizes:	1 – 12 incl. model castings
Temperature:	max. 1600° C
Housing:	stainless steel

Order-No.: 33800

RETOCAST I | Induction heated casting centrifuge



Description

The RETOCAST I is a modern induction casting centrifuge that is suitable for casting all types of non-precious, precious metal and partial frameworks. The powerful heating generator together with the special design of the centrifuge's arm give the user optimum control. The induction coil drops down automatically at the exact moment of casting. Along with the electronic safety lock, maximum safety and quick and trouble-free casting is guaranteed. Through the sight glass the melting process can be supervised. Any casting ring system can be used with this device due to the special design of the centrifuge arm. The counterweight can be adjusted quickly and easily.

Specification

- Induction heating process, continuously adjustable
- adjustable heating generator
- optical temperature control
- graphite or ceramic crucibles can be used
- pneumatically controlled induction coil
- electronic lock on the lid
- electronic timer
- three speeds
- emergency switch

Technical Data

Line voltage:	230 V / 50 Hz; (110 V on request)
Current consumption:	3.200 W
Height/ width/ depth:	530 (930) / 730 / 510 mm
Weight:	60 kg
Speed:	500 rpm
Ring size:	1-12
Amount of metal:	precious metal 110 g non-precious metal 55 g
Housing:	stainless steel

Order-No.: 18000

WATER RE-CIRCULATION UNIT



Water Re-circulation Unit

Description

The RE-CIRCULATION UNIT is used wherever independent cooling from the water supply line is necessary. The pump takes water from the 40 l tank and cools the casting machine by re-circulation. So, water consumption is considerably reduced.

Specification

- Brush-less motor in pump enables continuous operation
- digital temperature display module
- dust filter
- automatic power on/off
- made in stainless steel

Accessories

- Automatic power on/off

Order-No.: 22902

Technical Data

Line voltage:	230 V / 50 Hz; (110 V on request)
Current consumption:	300 W
Height / width / depth:	350 / 450 / 520 mm
Capacity:	40 l
Weight:	12 kg
Max. pump capacity:	540 l / hour
Housing:	stainless steel

Order-No.: 23807

PRESSURE TANK



PRESSURE TANK

Description

The PRESSURE TANK ensures a constant pressure without any additional installations in the premises. Optimum pressure is granted to achieve continuously precise castings for the INDURET series as well as for other vacuum pressure casting devices.

Specification

- with 5 l capacity and variable pressure adjustment
- housing made in stainless steel
- for Argon and compressed air

Technical Data

Outlet pressure:	max. 6 bar
Height / width / depth:	560 / 180 / 300 mm
Weight:	6 kg
Order-No.:	26805

ACCESSORIES for Induction casting machines



for INDURET

- | | |
|--|-------------------|
| ■ Temperature control for INDURET COMPACT | Order-No.: 23810 |
| ■ Memory expansion with 3 storage locations | Order-No.: 26802 |
| ■ Starter kit for INDURET GENIUS and COMPACT | Order-No.: 23811 |
| ■ Pressure reducer Argon | Order-No.: 21601 |
| ■ Maintenance unit | Order-No.: 23809 |
| ■ Melting crucible, graphite for precious alloy | Order-No.: 23801 |
| ■ Melting crucibles plus, for precious alloy | Order-No.: 23801P |
| ■ Crucible support, for holding graphite crucible | Order-No.: 23805 |
| ■ Melting crucible, ceramic for non-precious alloy | Order-No.: 23803 |
| ■ Lock pestle, graphite for precious alloy | Order-No.: 23802 |
| ■ Lock pestle, ceramic for non-precious alloy | Order-No.: 23804 |
| ■ Lock pestle, Longlife | Order-No.: 23812 |
| ■ Crucible holder – stainless steel | Order-No.: 23806 |
| ■ Milling tool for crucible outlet | Order-No.: 23816 |
| ■ Alloy chute | Order-No.: 23818 |
| ■ Positioning pliers | Order-No.: 23819 |
| ■ Metering pipe | Order-No.: 23828 |
| ■ Computer – Interface | Order-No.: 26801 |
| ■ Special cooling for frequent castings | on request |

for RETOCAST I

- | | |
|-----------------------------|------------------|
| ■ Melting crucible, ceramic | Order-No.: 28001 |
| ■ Insert, graphite | Order-No.: 28002 |

RETOCAST T and RETOCAST TE | Flame casting centrifuges



RETOCAST T

Description

The two devices within the RETOCAST series are space-saving, table-top units for precision casting that are suitable for both precious and non-precious alloys.

The proven technology of a centrifugal arm, in combination with different starting speeds and timer control, ensures that alloys are cast even into the thinnest cavities within the casting ring.

The alloys are melted with a flame torch (see chapter Melting Accessories).

Specification

- Three starting speeds (RETOCAST T)
- Double elbow centrifugal arm
- Ring size 1 – 12
- Electronic timer (RETOCAST T)
- Double-walled stainless steel housing (RETOCAST T)

Special specifications for RETOCAST TE

- Two starting speeds
- Mechanical timer
- Housing: coated steel



RETOCAST TE

Technical Data

RETOCAST T

Line voltage:	230 V / 50 Hz; (110 V on request)
Current consumption:	450 W
Height / width / depth:	355 (800) / 710 / 555 mm
Weight:	44 kg
Speed:	500 rpm
Ring size:	1 – 12
Alloy quantity:	noble metal 130 g non-precious metal 60 g
Housing:	stainless steel

Order-No.: 10502

RETOCAST TE

Line voltage:	230 V / 50 Hz; (110 V on request)
Current consumption:	450 W
Height / width / depth:	355 (700) / 650 / 505 mm
Weight:	37 kg
Speed:	500 rpm
Ring size:	1 – 12
Alloy quantity:	noble metal 130 g non-precious metal 60 g
Housing:	coated steel

Order-No.: 10503

MELTING KIT | Melting accessories

Basic equipment

Completely delivered for precious and non-precious alloys (propane/O₂ / natural gas/O₂), the package consists of a high power melting torch with universal insert, pressure reducing valves for propane and oxygen, 2 flashback preventers, goggles, tubing for gas and oxygen, as well as a gas economizer. Work can be carried out absolutely safe.



- Melting kit propane / oxygen
- Melting kit natural gas / O₂
- Gas economizer for propane / O₂
- Gas economizer for natural gas / O₂
- Melting crucibles normal
- Melting crucibles extra deep
- Melting crucibles holder
- Universal insert for melting and soldering of Noble and non-precious metals
- Solder insert, 0,5 mm nozzle
- Solder insert, 1,0 mm nozzle
- Mikroflam, incl. 3 precision needles for soldering
- Solder insert, incl. 3 changeable nozzles
- Melting device
- Torch handle
- Stand for table-top casting devices
- Pre-heating furnaces

Order-No.:20501

Order-No.:20518

Order-No.:20502

Order-No.:20512

Order-No.:20509

Order-No.:20510

Order-No.:20519

Order-No.:20507

Order-No.:20503

Order-No.:20504

Order-No.:20505

Order-No.:20516

Order-No.:20506

Order-No.:20514

Order-No.:20008

see "Pre-heating Furnaces"