Now with touch display!

Nautilus® T

Compact benchtop vacuum pressure casting machine with integrated power cooling and touch display

- High-performance induction heating guarantees short melting cycles, minimizes oxidation and thus facilitates subsequent finishing
- Large touch display with intuitive menu navigation for convenient and easy operation
- Integrated power cooling enables more than 50 casts in a row, even if ambient temperatures are high
- Integrated cooling saves water and helps to protect the environment
- Suitable for all commercially available precious-metal and non-precious alloys (excluding titanium)
- Eco mode switches off all unnecessary components in idle mode and reduces operating costs

Partners in Progress

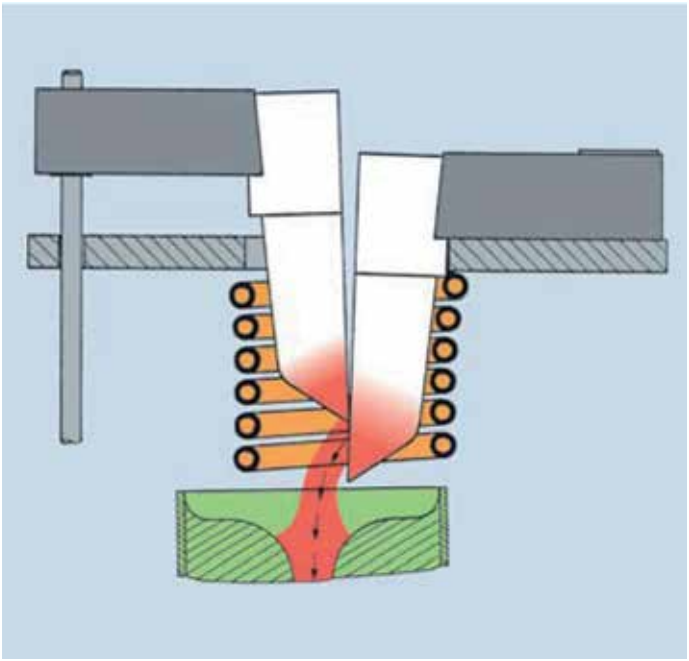
BEGO

Combination of high-frequency melting and vacuum pressure casting

Nautilus® T combines the advantages of high-frequency melting with those of vacuum pressure casting: the alloy is melted in the area around the crucible opening. Using a highly efficient vacuum pump, the oxygen level in the entire casting chamber is greatly reduced within a very short space of time and the alloy is melted by means of a high-frequency magnetic field. The melt then flows directly under vacuum from the hot area into the mould without temperature loss. Within fractions of a second, the still molten alloy is then pressed into the finest crevices of the object.

The advantages for you:

- Efficient use of the alloy as, generally, a casting cone does not have to be used
- Short melting cycles in the vacuum minimise oxidation of the objects and facilitate subsequent finishing
- For the casting of precious-metal alloys, a graphite or glass carbon ingot is additionally used which binds the remaining oxygen during melting and thus actively further reduces oxide formation



BEGO vacuum pressure casting concept: The molten mass flows from the hot zone of the crucible directly into the casting mould

User-friendly operation via the 5.7 inch touch display

The Nautilus® T plus is operated and controlled via a 5.7 inch touch display which offers quick response times and simple menu navigation accompanied by recommendations on what to do.
Acoustic signals are an additional aid to ensure safe processing. It couldn't be simpler: All of the casting programs for BEGO alloys are already stored in the Nautilus® T plus. “Non-BEGO alloys” and their parameters can be simply and easily saved with alloy names.

The advantages for you:

- Convenient, intuitive operation; direct and quick access to all necessary parameters
- Orientation and control at all times!

Touch display with intuitive menu navigation

Large storage and simple transfer

The new Nautilus® T includes a USB data interface.

The advantages for you:

- Updates: Thanks to software and alloy database updates via a USB interface, this high-tech casting unit always represents the state of the art

Integrated power cooling system

The Nautilus® T plus boasts integrated power cooling.

The advantages for you:

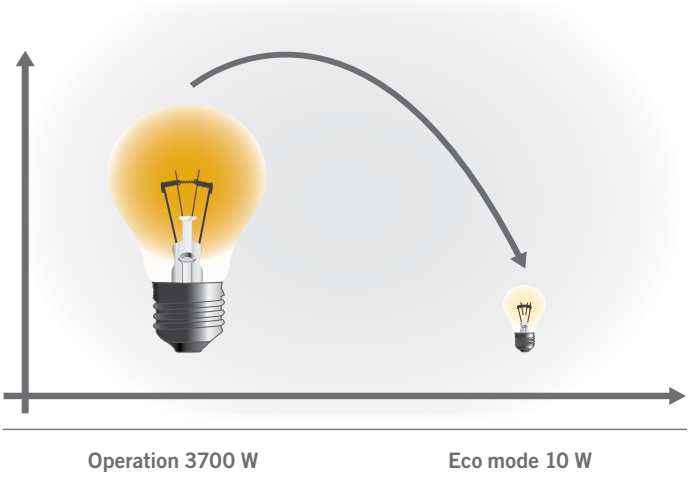
- More than 50 casts in a row are possible with moulds made from phosphate-bonded investment material, even if ambient temperatures are high
- Does not require a water supply or water outlet – can be used immediately anywhere
- No water consumption, no water damage and no reliance on local water quality
- Furthermore, the costs of installing an expensive water system are saved
- Since the unit does not require a water supply, condensation forming on the crucible coil in the winter months is no longer a concern; “explosions”, mould cracks and the resulting flawed casts are a thing of the past

Eco mode

The unit switches off all unnecessary components in idle mode. The unit can be restarted in less than 1 second at any time. Consumption in Eco mode (10 W) is extremely efficient compared to consumption in the operating mode (3600 W)

The advantages for you:

- Active reduction of operating costs
- Environmentally friendly



Compressed air tank

In case of unreliable compressed air conditions or a laboratory compressor unit that is possibly too small, the BEGO compressed air tank system can be installed as a precaution.

The advantages for you:
- Active support of the compressor unit
- Safer casting process

Compressed air tank – ideal for insufficient compressed air conditions

Nautilus® T	
Technical data	
• Height	420 mm
• Height with cover open	520 mm
• Width	600 mm
• Depth	670 mm
• Rated voltage	230 VAC, 50/60 Hz
• Power at rated voltage 230 V	16 A
• Compressed air connection (connection thread 1/4")	at least 5 bar [0.5 MPa]
• Air consumption	approx. 100 l/min
• Weight	63 kg

Nautilus® T				
Scope of delivery		**Unit**	**Qty**	**REF**
• Nautilus® T 230 VAV, 50/60 Hz				26420
• Ceramic crucibles (each made of 2 halves)		1 pack	4	52488
• Plastic handles for ceramic crucibles		1 pack	2	52436
• Ceramic handles for ceramic crucibles		1 pack	2	52467
• Graphite ingot		1 pack	2	
• Glass carbon ingot		1 pack	1	
• Forceps			1	30002
• Mould holder plate, ceramic			1	30259
• Mould holder (ceramic) for sizes 1 and 9			1	12257
• Mould holder (ceramic) for sizes 3 and 6			1	13362
• Mould holder grid for partial denture (25 mm high)			1	37618
• Mould holder grid for partial denture (15 mm high)			1	10073
• Base socket mould former, sizes 3, 6 and 9			1 each	
• Partial denture funnel former			1	
Accessories				
• Compressed air tank with wall bracket			1	16260
• Mould tongs, 55 cm long			1	39754
• Base socket mould former	size 3	1 set	4	52627
	size 6	1 set	4	52628
	size 9	1 set	4	52629
• Partial denture funnel former		1 pack	10	52066
• Wiromelt melting power (non-precious)		Tin, 80g	1	52526
• Auromelt HF melting powder		Powder dispenser, 65 g	1	52525

Subject to modifications in design, scope of delivery and composition. Our instructions for use and recommendations are based on our own experience and trials and can only be regarded as guidelines. Date of issue: February 2015.

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