



**Heracast iQ**  
Vacuum-pressure casting machine.

Giving a hand to oral health.



**KULZER**  
MITSUI CHEMICALS GROUP

# Heracast iQ – The intelligent plug & cast all in one vacuum-pressure casting machine convinces with excellent results.

## iQ

An intelligent casting machine that navigates the user through a self-explanatory menu, displays each operating stage, automatically calculates all casting parameters and includes a database with up to 100 alloys and their technical data – that's the Heracast iQ. iQ – because it really is intelligent.

## plug & cast

Simply connect the machine to a standard power socket and compressed air supply – and the Heracast iQ is ready for casting. Just plug & cast.

## all-in-one

The Heracast iQ is a compact bench unit the vacuum pump and cooling are integrated. It really is an all-in-one casting machine.

## Great to operate

The Heracast iQ communicates interactively with the user and requests all the necessary information and operations. Operating errors are virtually ruled out. The optimized mechanics of the casting chamber turn loading of the casting mould and filling with metal into child's play. The powerful highfrequency generator quickly and gently heats both high-gold-content precious metal alloys as well as CoCr alloys to the correct casting temperature. The Heracast iQ can either cast automatically or the user can cast by hand. Only 3 to 5 minutes are required per casting. This is easy casting.



## Core competence casting technology.

More than 45 years ago Kulzer introduced the vacuum pressure casting technique to dental technology and developed it continuously. In terms of our equipment this means that we have made our casting units more powerful, reliable, compact and efficient – for the benefit of our customers. In developing the Heracast iQ we have created the leading casting machine on the market, both technically and technologically. The Heracast iQ will help you successfully meet the high demands placed on your laboratory in terms of quality and cost-effectiveness. Today, tomorrow and also within the digital workflow.

### Successful casting:

The Heracast iQ ensures maximum reliability during production, guaranteed by consistently high-quality castings. This is because the Heracast iQ makes use of the most successful and reliable casting procedure in dental technology: the vacuum-pressure casting technique.

### This has the following advantages:

- No waste of metal during casting
- Minimal metal usage, as neither sprue button nor ventilation sprue are required
- Reliable, material-specific melting and casting under vacuum
- Gentle melting of precious metal alloys
- Fine-grained, dense castings with smooth surfaces
- No inclusions of graphite or ceramic particles in the casting

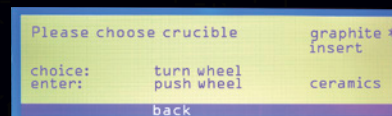


Fig. 1: Selecting the crucible

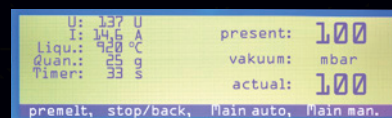


Fig. 2: Premelting



Fig. 3: Main melt

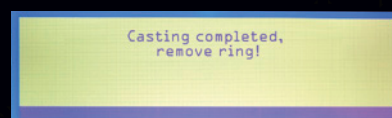


Fig. 4: Interactive user navigation

## Technical Data and optional accessories.

Heracast IQ	
Product details	
Heracast IQ	6600 4331
Technical Data	
Rated voltage	230 V ( $\pm$ 10 %); 50/60 Hz
Melting type	Induction
Power	2.0 kVA for generator 2.6 kVA for the complete unit
Max. casting temperature	> 1650 °C
Alloys	Precious metal; non-precious metal; model casting
Volume of alloy (PM)	130 g
Volume of alloy (NPM)	60 g
Casting sequence	3–5 min.
Operating mode	100% duty cycle
Dimensions (B x H x D)	770 x 490 x 450 mm
Floor space required (B x H x D)	1000 x 490 x 550 mm
Weight	65 kg
Languages	DE, GB, F, I, E
Interface	yes, RS 232 (serial PC port for service only)
Input pressure	4–7 bar
Working pressure	3.3 bar
Pressure sensor	digital
Pressure relief valve	yes
Max. vacuum	< 50 mbar
Vacuum adjustment	digital via software
Water cooling	integrated ~2.5 litres

Optional accessories	
Description	Art. code
Maintenance set (required for damp or unclean compressed air or an intake pressure > 7 bar)	6600 5499
Pressure-Tank Set (required for insufficient compressed air volume supply)	6600 8921

Consumables Heracast IQ/EC		
Description		Art. code
Crucible holder	1 piece	6450 0509
Casting ring X3	3 piece	6450 0694
Casting ring X6	3 piece	6450 0696
Casting ring X9	3 piece	6450 0698
Crucible former X3	1 piece	6450 0708
Crucible former X6	1 piece	6450 0710
Crucible former X9	1 piece	6450 0712
Flux pellets, small	1 package	6450 0982
Scoop	1 piece	6600 2415
Sprueing aid – Plexiglas half-shell	1 piece	6460 0012

More information?! Please contact your Kulzer sales team.

## Crucibles for melting and casting

Natural clay ceramic crucibles are the best solution for palladium precious metal and non metal alloys. From the industrial and economical perspective they surpass all other crucible materials.

Several ceramic crucibles exist for NPM and PM alloys used in induction heated casting devices CL-IG, CL-I 95, Heracast EC and Heracast iQ. For high gold content dental alloys we offer graphite inserts.

Graphite has the best features among carbon crucible materials for working with high gold content alloys. Through use of a special manufacturing method, Kulzer graphite crucibles are free of any alloydegrading additives.



Find out more about Hera  
[www.kulzer.com/hera](http://www.kulzer.com/hera)

### Crucibles

Description	Delivery form	Art. Code
Ceramic crucibles for CL-IG, CL-I 95, Heracast EC and Heracast iQ for precious metal	6 pieces	6450 0683
Ceramic crucibles for CL-IG, CL-I 95, Heracast EC and Heracast iQ for NPM alloys	6 pieces	6450 0685
Graphite inserts suitable for ceramic crucibles of all induction heated casting devices (CL-IG, CL-I 95, Heracast EC and Heracast iQ)	10 pieces	6450 0684

#### Contact in Germany

Kulzer GmbH  
 Leipziger Straße 2  
 63450 Hanau, Germany  
[info.lab@kulzer-dental.com](mailto:info.lab@kulzer-dental.com)