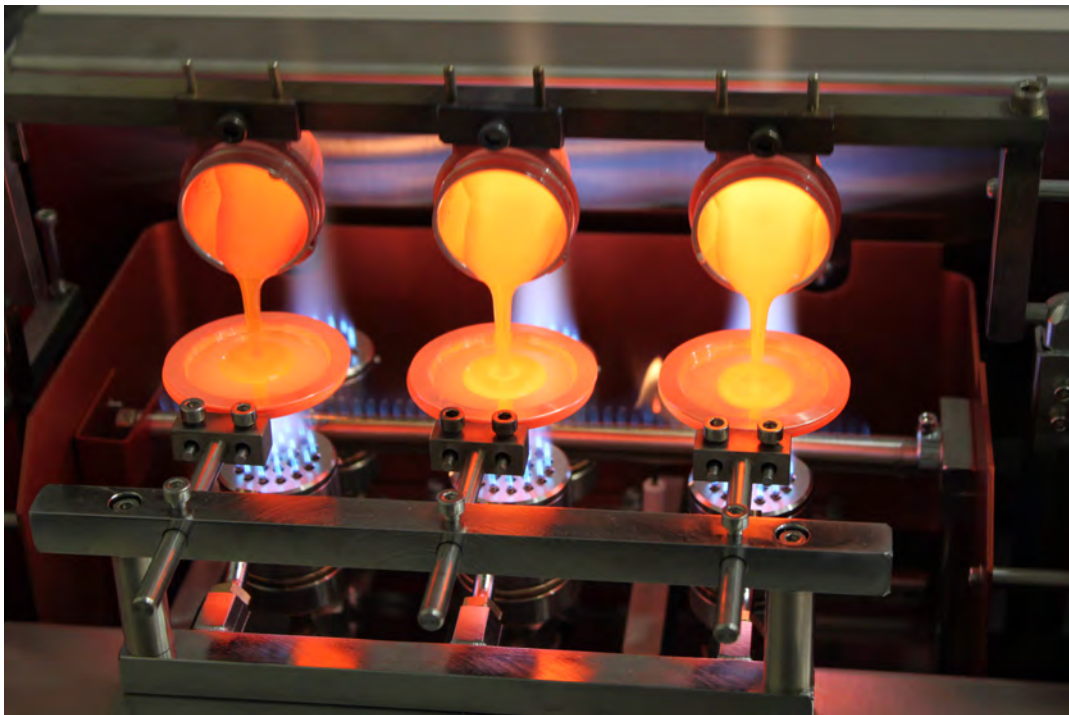


Phoenix

gas fusion machine



Flexible, reliable instrument for the
broadest range of samples

Phoenix

Established Technology



Phoenix gas fusion machines have been at the forefront of XRF sample preparation for over twenty years.

In that time our products have built a reputation for fusing the most difficult samples in a repeatable and reliable manner.

The Phoenix machine is in operation all over the world from Mongolia to Saudi Arabia and beyond.



Key Features



Flexibility

Ammonium iodide injection, multi-stage cooling, pre-heat are some of the features that make the Phoenix the most flexible machine on the market, the ideal solution for the most difficult samples.



Reliability

Our machines are built to last, we have installations where the same machine has run continuously for 15 years.



Visibility

You can see all stages of the fusion process unfold in the crucible, this is crucial when trying to understand the complexities of each reaction.



Safe Operation

Cold to cold, fully automated requiring no manual intervention. Sophisticated electrical and gas safety systems make the Phoenix one of the safest machines on the market.



Broadest range of samples

When you are dealing with a difficult application you need the flexibility to control process parameters.

- The Phoenix allows you to add ammonium iodide at just the right time in the process in a repeatable and controllable manner. (Alumina)
- It has the ability to vary the cooling rate to find that delicate balance between cracking and crystallisation. (Copper)
- It ensures all pre-oxidation has occurred with a two stage heating process.

In addition to the above, there are also a range of custom modifications that can be made for your individual requirements

Ongoing support

We see the purchase of an XRF fusion machine as the beginning of an ongoing relationship where we provide our customers with the opportunity to access a range of support and technical services to meet their fusion needs. Whether you are new to fusion or an experienced user we have a range of services to increase the productivity and throughput of your application.

- Advice on appropriate selection of flux and standards
- Organization of Platinum remake processes
- Technical advice on difficult fusion issues
- On-site support and preventative maintenance programs

Please see our website for more details of our representatives in your area.

The Complete Solution



Flux

We are the world's pre-eminent manufacturer of flux. We can provide standard Borate fluxes or custom solutions to meet your specific needs.



Labware

We manufacture Labware for all our fusion instruments in house. We can also provide a remake service for the transfer from other Labware designs.



Accessories

From polishing lathes through to release agent, we provide a complete range of fusion products and accessories.

Technical Specification

	Phoenix M	Phoenix M	Phoenix R	Phoenix S
Number of beads produced simultaneously	6	4	3	1
Adjustable pour delay	✓	✓	✓	✓
Recipe database	✓	✓	✓	✓
Fully regulated cooling	✓	✓	✓	✓
Autolocking crucible holders	✓	✓	✓	✓
Automatic pouring into moulds	✓	✓	✓	✓
Separate mould timer	✓	✓	✓	✓
Pre-Melting	✓	✓	✓	
Two stage cooling	✓	✓	✓	
Oxygen Injector	Optional	Optional		
Ammonium Iodide Injector	Optional	Optional		
Size - Height	310mm	310mm	250mm	200mm
Size - Width	880mm	880mm	620mm	350mm
Size - Depth	630mm	630mm	450mm	290mm