

# xrFUSE

electric fusion



## Established Technology

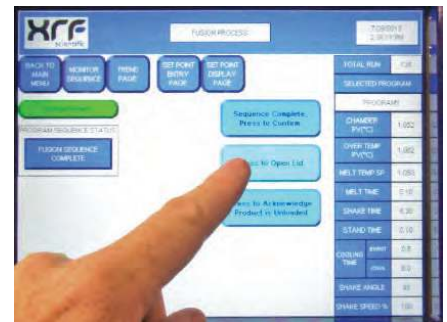
The xrFuse range of electric fusion machines has been developed based on more than 25 years of experience of fusion technology and applications. Now available in both a 6 place high volume solution and a 2 place compact model to cater for the needs of a broad range of customers. The xrFuse range represents the best elements of XRF's established electrical fusion range with significant advances in safety and design. Designed with the latest thermal imaging technology, consumer tested in the biggest XRF laboratories in the world, xrFuse is designed with the customer in mind.

## Key Features



### Zero Contamination

The ceramic cradle and holders ensure that the environment for creating beads has zero contamination in comparison with that typically found with Inconel based solutions.



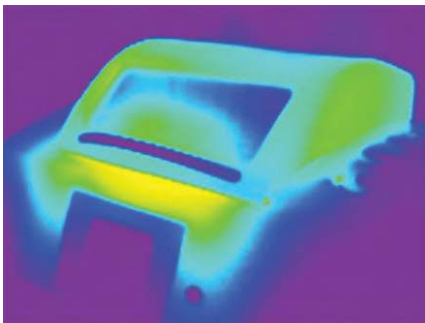
### Process Flexibility/ICP

The machine is designed to allow for both pre-heating and ICP processes. Simple to access, control and monitor, at the touch of a button.



### Simple User Interface

Simple touch screen interface. The User Interface is simple to use and provides the flexibility to cope with the simplest operation on a repeatable basis or the most complex one off experiments.



### Safe Operation

The external surfaces of the instrument have been modelled and developed with the latest IR technology to ensure all contact surfaces are safe to touch. CE Certified and independently tested.



## Built to last

The xrFuse range has evolved from robust and reliable technology developed for high volume, high up time applications in the Iron Ore industry in Australia. This tough environment has driven the development of machines with component lifetimes of up to 3 times of that of our major competitors. When you buy an xrFuse, it's built to last!



## Ongoing Support

The purchase of an xrFuse is the beginning of an ongoing relationship where we provide a range of services to our customers. Whether you are new to fusion or a seasoned professional, we have a range of services to increase the accuracy 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	2 place	6 place
Maximum Temperature (Continuous)	1150°C	
Cradle/holders	High purity ceramic	
Programmable Recipes	12	
Insulation	Ceramic fibre board	
Elements	Silicon carbide	
Thermocouples	Type R	
Construction	Single external aluminium case	
Crucible	30g	
Mould	32/40mm 60-100g	
Lid	Cool touch glass	
Safety	CE certified Independently tested by Pilz Cat 4 rated dual safety circuit	
Noise	<70db	
Over temperature protection	2 <sup>nd</sup> thermocouple and insulation case thermostat	
Throughput	Up to 10 beads per hour	Up to 30 beads per hour
Size	580*780*580mm	580*1110*800mm
Power requirement	50/60Hz, 1/3-phase 208-220v	50/60Hz, 3-phase 380-415v or 208-220v
Power consumption	4kw	6kw
Weight	90kg	100kg