



GOOD REASONS FOR

ORBIS RANGE FINE SAMPLE CRUSHERS

A NEW ERA IN FINE SAMPLE CRUSHING

Our Orbis range consists of dual action fine crushers, designed by experts with decades of experience in sample preparation. The efficiency of the dual action jaws allows for samples to be reduced by up to 55 times their original size. With large mining customers in mind, our flagship OM100 was designed to take drill core samples down to 2mm in a single pass.

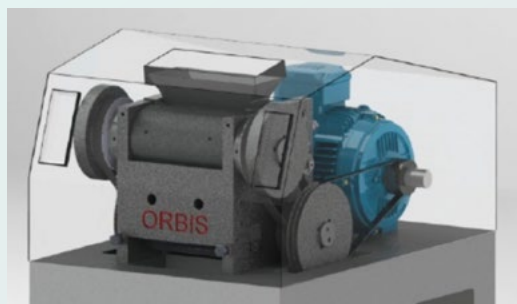
Key Features

- Large dual action jaws for faster processing times
- Jaws can be easily adjusted and can be reversed for long life
- Front loading hopper with large capacity
- Large motor capacity for added power and torque
- Easy to clean and maintain
- Enhanced safety features
- Customised sample collection such as jars for Photon Assay

Applications for a Wide Range of Industry:

- Gold Mining
- Iron Ore and Steel Manufacturers
- Bauxite – Alumina and Aluminium
- Mineral Sands including Rutile, Ilmenite, Zircon
- Glass and Ceramics
- Cement
- Industrial minerals – Lime, Limestone, Dolomite, Magnesite and Magnesite
- Geological materials such as Aluminosilicates
- Base Metal (Pb, Zn, Cu, Ni) including Sulphides, Sinters, Silicate, Slags, Mattes
- Ferro Alloys

KEY FEATURES



Double-action Jaw Crusher

Most jaw crushers are designed so that a single moving plate crushes samples against a fixed plate. Our dual moving plates dramatically increases crushing efficiency and yields.



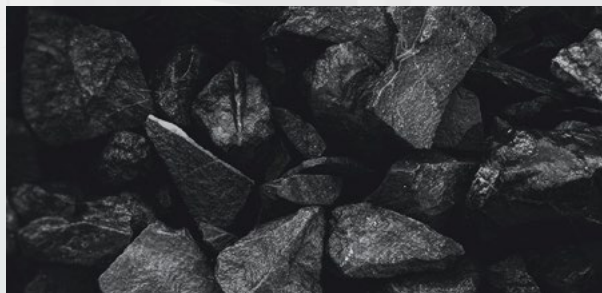
Robust and Safe Design

Our crushers were designed to withstand harsh mining conditions, processing high numbers of samples around the clock. Maintenance is quick and easy by design, to ensure maximum uptime for laboratories of all sizes. Ergonomics can be improved through the addition of a sample lifting accessory.



Automated Splitting

Orbis crushers feature both Rotary Sample Dividers (RSD) and Linear Sample Dividers (LSD) options. Splitting can be automated with the addition of a PLC controlled smart unit. Samples are weighed, which then allows the system to perform an automated split. Smart systems can be setup in dual configurations, with one central unit controlling two crusher/splitting units.



Huge size reduction capability

Our OM100 has the ability to reduce samples by up to 55 times their original size. Drill core of up to 110mm can be crushed down to 2mm in a single pass. This saves significant time by eliminating a pre crushing step and reduces potential for handling errors.

ONGOING SUPPORT

The purchase of an XRF Scientific laboratory crusher is the beginning of a relationship where we provide access to a range of support and technical services to meet your sample preparation needs.

Whether you are new or an experienced user we have a range of services to increase the productivity and throughput of your application.

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

Please see our website for details of our representatives in your area: www.xrfscientific.com

THE COMPLETE SOLUTION



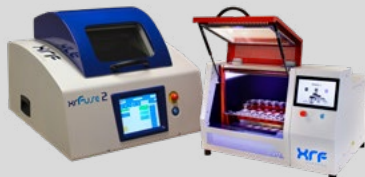
Flux

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.



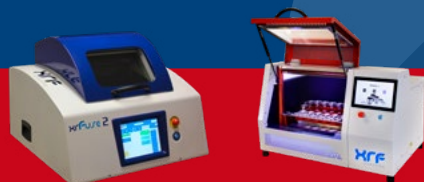
Fusion machines

We manufacture fully automated electric or gas operated fusion machines. Safe, easy and reliable to operate and suitable for various numbers of samples handled per day.

TECHNICAL SPECIFICATIONS

Technical specification	OM50	OM50 WM	OM100
Motor power	5.5kW, 3 phase	7.5kW, 3 phase	7.5kW, 3 phase
Maximum input lump size	70mm	70mm	110mm
Product size	-2mm passing up to 90% (sample size dependent)	-2mm passing up to 90% (sample size dependent)	-2mm passing up to 90% (sample size dependent)
Jaw width	300mm	400mm	400mm
Hopper capacity	10kg	10kg	15kg
Wear Plates	High or Low Chrome	High or Low Chrome	High or Low Chrome
Dust extraction	50mm Dust Outlet	50mm Dust Outlet	50mm Dust Outlet
Weight	750kg	850kg	950kg
Width x Height x Depth	730 x 1200 x 1300mm	830 x 1200 x 1300mm	830 x 1200 x 1300mm
Shipping Dimensions Width x Height x Depth	1200 x 1200 x 1500mm	1200 x 1200 x 1500mm	1200 x 1200 x 1500mm
Options	RSD, LSD, Smart RSD and Smart LSD	RSD, LSD, Smart RSD and Smart LSD	RSD, LSD, Smart RSD and Smart LSD

We reserve the right to change the design or specification of our products without notice. Some of the information contained in this brochure is general in nature and customers should check that it is applicable to their individual circumstances.



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