



JAW CRUSHER JC 1100

JC 1100 Jaw Crushers are used to crush medium-hard, hard, brittle and tough sample fast and gently.

There are 6 kinds of materials for the jaw plate.

This series of products with superior technical and safety performance, so it is your ideal choice for the sample preparation in the laboratory and enterprise production.

APPLICATION

- Mining and metallurgical industries: Niobium and titanium alloy, vanadium iron, chrome vanadium, tungsten carbide, ore, coal, slag, coke
- Chemical products: Wide variety of chemical industry raw materials
- Geological and mineralogical: Rock, granite, basalt, barite, silicate
- Ceramic industry: Talc, sintered clay, sintering ceramic, electric ceramic
- Building materials: Bauxite, slag brick, quartz, cement, limestone



The sample enters the grinding chamber via the anti-splashing hopper. The crushing is proceeded inside the wedge-shaped shaft space between two jaw plates. One jaw plate is fixed, while the other jaw plate is driven by a bent axle to perform oval movement with the continuous rotation of the motor. The sample is crushed due to extrusion caused by constant movements of the jaw plate and moves downward under the effect of gravity. In case the grain size of the sample is less than the lower opening gap of jaw plates, it will fall to the drawer receiver at the lower part of the machine.

TECHNICAL ADVANTAGES

COMFORTABLE OPERATION AND EASY CLEANING

The feed hopper of JC1100 can roll over to one side or be removed easily. In this way, operators can clean the grinding chamber rapidly. The samples are collected in a drawer receiver and easy for the operator to proceed subsequent analysis.

HIGH-SAFETY DESIGN

The jaw crusher JC5 has high-level safety performance. The feed hopper can avoid scratching of operators touching the grinding chamber. The hopper baffle can prevent the rebound of samples from injuring persons. Furthermore, a safety switch is equipped at the upper of the feed hopper. The device cannot be started when the hopper is opened so as to guarantee the safety of operators. The motor and the controller also have overload protection devices; motor overload will occur when the load is too large (excessive sample loading or sample oversized). At this moment, such overload protection devices will automatically shut off the power supply to protect the motor and the crusher.

ECO-FRIENDLY DESIGN

We have equipped thoughtful dust – protection design for JC1100 jaw crushers.

In addition, in order to avoid environmental pollution caused by tiny dust particles, we equipped dust discharge connectors for the crushers. Operators can easily remove the dust particles inside the crusher by connecting industrial dust collectors with such dust discharge connectors.













APPLICATION EXAMPLES				
BEFORE GRINDING	AFTER GRINDING	PARAMETERS		
		Sample	Lime Stone	
		Instrument	JC 1100 host with jaw plate of managanese steel	
		Gap setting	2 mm	
		Sample Charectaristics	Hard	
	-	Feed size	< 90 mm	
		Time	Sample can be collected immediately after feeding	

BEFORE GRINDING	AFTER GRINDING	PARAMETERS		
		Sample	Ferro Chrome	
The sale		Instrument	JC 1100 host with jaw plate of Tungsten Carbide	
		Gap setting	2 mm	
		Sample Charectaristics Hard	Hard	
		Feed size	< 90 mm	/ /
		Time	Sample can be collected immediately after feeding	

BEFORE GRINDING	AFTER GRINDING	PARAMETERS	
		Sample	Marble
Contract of the second		Instrument	JC 1100 host with jaw plate of Tungsten Carbide / Manganese Steel
		Gap setting	0.5 mm
A CX -62	The state of the s	Sample Charectaristics	Hard
		Feed size	< 40 mm
		Time	Sample can be collected immediately after feeding

JAW CRUSHER JC1200

Jc1100 and JC1200 are basically the same in application field and work principle. And both has the advantage of zero point correction to compensate for wear. Unlike JC1100, JC1200 is designed for desktop. JC1200 features in the compact design, easy operation and the high final fineness of sample (d90 < 0.5 mm).

O. LABINDIA

FEATURES AND ADVANTAGES

- · Compact, Benchtop Instrument
- · High throughput, high degree of size reduction.
- · Zero point adjustment to compensate the wear.
- Anti- splash design hopper.
- Easy-to-clean crushing chamber.
- Excellent performance and high final fineness (d90 < 0.5 mm)
- Jaw plates in different materials (Manganese steel, Stainless steel, Tungsten carbide, Zirconium oxide, Steel of heavy- metal-free, Industrial plastic)



JC 1200 TECHNICAL ADVANTAGES





The feed hopper and the jaw plate can be easily removed



Sample collecting tank is easy to clean



Set Jaw plate gap by rotating handle

JAW PLATES IN DIFFERENT MATERIAL

For different applications, different material jaw plates are available as below. Manganese Steel, Stainless Steel, Tungsten Carbide, Zirconium Oxide, Steel of heavy metal free & Industrial plastic.

Please select the correct jaw plate material according to the requirement of sample crushing.



MANGANESE STEEL:

Manganese steel is suitable for processing hard / medium-hard Samples. The structure of this kind of material will become denser after being squeezed, so it will gradually harden in use (Cold Hardening).

STAINLESS STEEL:

Stainless Steel can avoid rust. Recommended when dealing with low hardness samples.



TUNGSTEN CARBIDE:

Tungsten Carbide material is abrasion resistant. Even for samples with Mohs hardness of 7-8, the tungsten carbide jaw plate can be used for a long time.



Zirconium Oxide jaw plates are specially used to deal with ceramic material that contain no heavy metals such as crushing of dental, optical glass and other medical ceramics. In addition the material will not bring color pollution to the crushed samples.



STEEL OF HEAVY METAL FREE:

Steel of heavy metal free can avoid scarping against the samples to cause Heavy-metal contamination. This material jaw plate is the ideal choice for the heavy metal free grinding pre-treatment of the non-corrosive samples.



Industrial plastic has the characteristics of high toughness and drug resistance. It is suitable for hard and brittle samples. It will not cause metal pollution to the processed samples, which can guarantee the high purity of sample.



JAW CRUSHER JC 1300

JAW PLATES IN DIFFERENT MATERIAL

JC 1300 Jaw Crusher is a heavy jaw crusher with high crushing ratio and large handling capacity. It is specially designed to realize high crushing capacity and well homogeneity. It is one of the fastest fine jaw crushers in the market. It can effectively deal with drilling core and block ore with 120mm particle size, and 95% sample can be ground to as fine as 2mm for further fine grinding.

APPLICATIONS

- Mining and metallurgical Industries: Niobium and titanium alloy, Vanadium Iron, Chrome
 Vanadium, Tungsten Carbide, Ore, Coal, Slag, Coke
- · Chemical products: Wide variety of chemical industry raw Materials
- Geological and mineralogical: Rock, Granite, Basalt, Barite, Silicate
- Ceramic industry: Talc, Sintered clay, Sintering ceramic, Electric Ceramic
- Building materials: Bauxite, Slag Brick, Quartz, Cement, Limestone

FEATURES AND ADVANTAGES

- Overload protection
- 7.5KW motor improves the crushing efficiency
- Powerful connecting rod and bearing
- All rotating parts are connected by rolling bearings
- · Innovative fastening structure of jaw plate
- Automatic lubrication system and stability flywheel
- Innovative design of jaw plates guarantee more effective crushing result
- Handling speed can reach 4s/kg when the gap width is 6mm
- 40-50% samples can be as fine as $600\mu m$ when the gap width is 1.2mm
- Jaw plate has been thickened to 48mm, with heavy- metal-free material for choice









JC 1300 ENHANCED CRUSHING TECHNIQUE

JC 1300 is different than other common jaw crushers with a special rocker and crankshaft arm design, which can grind samples to 2mm particles one-stop.

	TECHNICAL SPECIFICATION	ONS OF JAW CRUSHERS	
	JC 1100	JC 1200	JC 1300
		C. LAINCOA	
Applications	Coarse and Pre-Crushing	Coarse and Pre-Crushing	Coarse and Pre-Crushing
Feed Material	Medium-Hard, Hard, Brittle, Tough	Medium-Hard, Hard, Brittle, Tough	Medium-Hard, Hard, Brittle, Tough
Feed size Final fineness Material of Griinding tools	<90mm <2mm Manganese Steel, Stainless Steel, Tungsten Carbide, Steel 1.1750 (for heavy-metal free grinding)	<40mm <0.5mm Manganese Steel, Stainless Steel, Tungsten Carbide, Steel 1.1750 (for heavy-metal free grinding)	<120mm <2mm Manganese Steel, Stainless Steel, Tungsten Carbide, Steel 1.1750 (for heavy-metal free grinding)
Speed	690 RPM	500-1000 RPM	740 RPM
Collector capacity Throughput Quantity	5 L 200 - 300 kg/hr	3 L 250 - 300 kg/hr	8 L 1000 kg/hr
Connector for Dust Extraction	200 - 300 kg/III	200 - 300 kg/III	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dedusting Volume	_	_	220 L/S
Jaw plate width	99mm	59.5mm	48 mm
Gap Width setting	0~30mm	0~11mm	0-10mm adjustable
Zero point adjustment	Yes	Yes	Yes
Rated power	2.2KW	1.1KW	7.5KW
Power supply	3-Phase; 400-440V,50Hz	1-Phase 220-240V,50Hz	3-Phase; 400-440V,50Hz
Instrument size	(W*D*H) 440x 930x1090mm	450x 630x490mm	935x 600x1087mm
Packing Size (W*D*H)	800×1165×1330mm	785×900×780mm	700×1000×1350mm
Net Weight	320kg	93kg	1000kg

ORDERING INFORMATION JC 1100			
Product Name Product Image		Description	
JAW CRUSHER		Jaw Crusher JC1100 , 400-440V,50Hz Please order jaw plate and side liner separately	
Accessories	JC1100	Jaw Plate and Side Liner should be ordered in pair	
		Jaw plate, manganese steel (precision casting), 1 piece	
Jaw Plate		Jaw plate, Stainless Steel, 1 piece Jaw plate, tungsten carbide, 1 piece Jaw plate, zirconium oxide, 1 piece	
Side Liner		Side liner, stainless steel, 1 piece Side liner, tungsten carbide, 1 piece Side liner, zirconium oxide, 1 piece. V-belt 1 piece. Minimum order quantity: 3pcs	
Accessories JC 1100 for grinding heavy metal cor		Jaw Plate and Side Liner should be ordered in pair	
		Jaw plate, steel 1.1750, 1 piece	
		Side liner, steel 1203., 1 piece	

ORDERING INFORMATION JC 1200		
Product Name	Product Image	Description
JAW CRUSHER		JAW CRUSHER JC 1200 ,220-240 V,50 Hz Please order jaw plate and side liner separately
Accessories	JC 1200	Jaw plate and side liner should be ordered in pair
		Jaw plate, manganese steel, 1piece
		Jaw plate, stainless steel, 1piece
Jaw Plate		Jaw plate, tungsten carbide, 1piece
		Jaw plate, zirconium oxide, 1piece
Side Liner		Side liner, stainless steel, 1piece Side liner, tungsten carbide, 1piece Side liner, zirconium oxide, 1piece V-belt 1piece
Accessories JC 1200 for grinding without heavy -metal contamination		jaw plate and side liner should be ordered in pair
		Jaw plate, steel 1.1750, 1piece
		Side liner, steel 1203, 1piece

ORDERING INFORMATION JC 1300				
Product Name	Product Image	Description		
JAW CRUSHER		JAW CRUSHER JC 1300, 400 - 440V, 50Hz Please order jaw plate and side liner separately		
Accessories	JC1300	Jaw plate and Side liner should be ordered in pair		
Jaw Plate		Jaw plate, manganese steel, 1 piece Jaw plate, tungsten carbide, 1piece Side liner, stainless steel, 1piece Side Liner Side liner, tungsten carbide, 1piece		

OTHER PRODUCTS

Vibratory Sieve Shaker VS 1100 (Touch Screen)



Mixer Mill MM1100 (Micro)



Planetary Ball Mill MM 1400+ (4 Grinding Stations)



Air Jet Sieve Shaker JS 1100 (Touchscreen)



Cryo Grinding Mill CM1100



Planetary Ball Mill MM 1100+ (1 Grinding Station)



Mortar Grinder HG1100 (Touchscreen)



Ultra Centrifugal Mill - UCM 1100



Vibratory Disc Mill VDM 1100



OTHER PRODUCTS

Knife Mill KM 1100



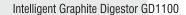
Twister TW1100







3D Turbo Mixer LM3D



Automatic Pellet Press PP40







WHERE COMMITMENT IS CULTURE

www.labindia-analytical.com / For Enquiries: sales.mfd@labindia.com

Labindia Analytical Instruments Pvt. Ltd.

Thane: 201, Nand Chambers, LBS Marg, Near Vandana Cinema, Thane (W) - 400 602. Tel.: +91-22-6908 6000 / 6908 6110 E-mail: sales.mfd@labindia.com

REGIONAL OFFICES:

Delhi: Tel.: +91-11-4330 6001 / 10 **Chennai: Tel.:** +91-44-2434 7008 / 2432 0352 Kolkatta: Tel.: +91-33-2466 3362

BRANCH OFFICES:

Bangalore: Tel.: +91 80 4565 6200 **Lucknow: Tel.:** +91-522-2346 535 / 2346 496 Hyderabad: Tel.: 040 4444 3530

Chandigarh: Tel.: +91-172-4090 001-07 / 4090 009

FACTORY: Plot No. EL-72, Electronic Zone, TTC Industrial Area, Thane Belapur Road, Navi Mumbai - 400 705. Tel.: +91-22-6107 6666

E-mail: liplfactory@vsnl.net

APPLICATION & TRAINING CENTRE: R-909, TTC Industrial Area, Thane Belapur Road, Rabale, Navi Mumbai - 400 701. Tel.: +91-22-6107 6555







Striving to become the best individuals, we endeavour to foster the best team. Performing sensibly, we try to achieve the best efficiency. Working innovatively, we seek to make the best products. Listening patiently, we excel to offer the best service. So, no matter what you needs are, come to us, GET THE BEST

LABINDIA reserve the right to change specification without notice as part of its continuous programme of product development.