

Technical Specification

Sample: Compaction for XRF analysis.

Sample type: Cement, minerals, ores, raw materials, slag...

Handles all demanding pelletizing operations efficiently and effectively Ensure safe operation and simple maintenance.

Purpose	sample pelletizing for laboratory use			
Product Description	Hydraulic pellet press to compact homogeneous powders into a firm pellet sample for elemental Analysis. For ease of use it is automatic and fully programmable, making it ideal for repetitive compaction of sample pellets for XRF(RIGAKU-Supermini200) and analytical techniques			
Application	preparation of pellets for spectral analyses			
Mounting Type	Floor mounting no foundation required			
Working Principle	Pressure force			
Maximum Feed Size	Pulverized Samples up-to 45 micron			
Output	Compacted Pellets			
Max Force (Load)	400 kN (40 Tons.) with Digital display of set and Actual Load.			
Feed materials	Bauxite, Cement, Clinker, Limestone, Gypsum, Minerals, Silicates, Slag, Iron ore etc.			
Hydraulic Pump feed rate	2.49 mm / Sec during piston forward movement			
4 mm / Sec during piston return movement				
Hydraulic pump capacity	3 LPM (Litre per Minute) at 250 bar			
Hydraulic pressure	250 Bar (Max.)			
Normal Operating Pressure	200 Bar. (With Digital display of Set and Actual Load)			
Maximum Fill Height in die	20 mm			
Pellet ring Type	A Type, B Type & C Type			
Pellet Dimensions (ring internal diameter (ID)& Outer Dia. (OD) in mm)	A Type : 40 Dia. X 10 mm height			
Time for one compaction cycle	Approx. 60 Sec. (Programmable).			
Oil Tank Capacity	17 Litres			
Motor Drive ABB Make	Motor Power : 1.5 kw	2 HP Motor	RPM : 1415	Volts: 415 3 Phase induction Motor
Required input Power supply [to be provided by end user]	3 phase neutral + earthing through 16 amps 4 Pole MCB			
[Red, Yellow, Blue, Neutral, earthing]				
Machine Size [in millimetres]	Length:550	Width: 635	Height: 1260	
Compatibility of Pellets	With WDXRF SPECTROMETER of Rigaku Supermini200			

Commercial Terms and Conditions

S.No	Item Description	UOM	Quantity
1	40 Ton Hydraulic Press	No.	1
2	Aluminum cups (Set of 5000 nos)	Set	1

General Terms and Conditions

Vendor should provide details of these items supplied previously to IIT Madras or other Organisations (within India) during the last 05 Years.

		Item Description
1.	Packing & Forwarding Charges (P&F)	To be Included
2.	Transportation Charges	To be Included
3.	Transit Insurance:	To be Included
4.	Tax & Duties	Extra: IGST@% (Tax exemption Certificate will be provided)
5.	Delivery Period:	6 – 8 Weeks from the date of receipt of Purchase order
6.	Warranty:	Minimum of 02 Years is mandatory.
7.	Payment Terms:	100% payment after supply, Installation and Commissioning.
8.	Inspection:	Periodic Inspection is highly recommended.
9.	Installation & Commissioning Charges:	To be Included.
10.	Service:	Time frame to be advised once call logged. Periodic Service details mandatory.
11.	GST ID	To be provided by the Vendor

