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## STOCK LIST – February 2024

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PPDS Ltd is pleased to offer the following plant and equipment, subject to prior sale:

### Crushers

#### **Gundlach Cage-Paktor**

Model 40-2C4R-3768 Cage-Paktor Crusher

Size reduction by impact using 2 counter rotating cages.

High size reduction ratio.

Feedsize up to 75 mm.

Product fineness down to minus 2 mm.

Ideal for processing sticky and moist materials.

Rotor power – 75 kW and 55 kW.



#### **Christy Heavy Duty Pulveriser**

Model 30 x 30 Pulveriser.

Suitable for the size reduction of a wide range of different materials.

Interchangeable discharge grate determines product fineness.

Installed power: 90/110 kW

Feed Inlet: 737 x 350 mm

Discharge Opening: 1120 x 850 mm

Can be supplied bareshaft or on baseframe with vee-belt drive and guard.



### **PRALL-TEC Hammer Mill**

Model PTH 650/500 SK Swing Hammer Mill with “clamshell” body and hydraulic opening for ease of access.

Year of Manufacture : 2010

Machine No. : 201506

Feedsizes up to 75 mm.

Products down to minus 1 mm possible.

Installed Power – up to 55 kW.

<https://www.prall-tec.de/maschinenbau-index/hammermuehlen.php>



### **Model 32” x 39” Double Roll Kibbler**

32” (812 mm) dia x 39” (990 mm) wide Bradley Craven Kibbler Rolls for size reduction of Chalk, Dolomite, Gypsum, Shale, Clay, Chamotte, etc.

Installed Power : 37 kW

Capacity : Typically 50 – 60 tonne/hour

Overall Dimensions of Crusher with drive : 5800 x 3500 x 1500 mm high.

Total Weight : 14,400 kg



### **Edgar Allen Heavy Duty Crusher**

Swing Hammer crusher with grate discharge arrangement.

Mounted on support frame.





### Alpine Omniplex Hammer Mill

Model Ha 40/32 Swing Hammer Mill.

Installed power: 15 kW

Feed Inlet: 340 x 150 mm.

Screen discharge arrangement.



### Mills:

#### HARDINGE Conical Ball Mill

10'-0" dia x 84" ball mill for the dry grinding of industrial minerals.

Mill fitted with Manganese steel liners for operation will steel ball grinding media.

Cooper Split Roller Bearings on trunnions.

Installed Power: 525 Hp (395 kW)

Gearbox and motor included.  
Some spare parts included.



#### HARDINGE Conical Ball Mill

10'-0" dia x 84" ball mill for the dry grinding of industrial minerals.

Mill fitted with Manganese steel liners for operation will steel ball grinding media.

White Metal Bearings on trunnions.

Installed Power: 525 Hp (395 kW)

Gearbox and motor included.



### **HARDINGE Conical Pebble Mill**

8'-0" dia x 84" Hardinge Iron Free ball mill for the dry grinding of industrial minerals for use in ceramics, e.g. silica sand, quartz, feldspar, zircon, etc.

3 mills now sold, 2 remaining.

1 with Cooper Split Roller Bearings on trunnions.  
1 with White Metal Bearings on trunnions.

Mill can be supplied with new silex or alumina lining.



### **HARDINGE Conical Ball Mill**

6'-0" dia x 36" ball mill for the dry grinding of industrial minerals.

Mill fitted with Manganese steel liners for operation with steel ball grinding media.

White Metal Bearings on trunnions.

90 kW Motor fitted (could be reduced to 75 kW).

Mill with countershaft drive but could be converted to gearbox.



### **Edwards & Jones Batch Ball Mill**

Rubber lined mill for operation with aluminium oxide grinding media.

Size : 2440 mm dia x 3350 mm long

Batch Size : 5 tonne

Cooper Split Roller Bearings on trunnions.





### Edwards & Jones Batch Ball Mill

Rubber lined mill for operation with aluminium oxide grinding media.

Size : 1500 mm dia x 1800 mm long

Batch Size : 1 tonne



### William Boulton Batch Ball Mill

Silex lined mill for dry grinding.

Size : 1500 mm dia x 1500 mm long

Internal : 1350 mm dia x 1200 mm long

Gear and Pinion drive

For operation with either aluminium oxide or flint pebble charge.



### William Boulton Vibro-Energy Mill

For iron-free fine and ultrafine grinding of industrial minerals.

Model AM-100 mill with total working volume of 2 m<sup>3</sup>.

Installed power – 6.2 kW.

Rubber/Polyurethane lining with aluminium oxide grinding media.



### Model CM500 Atritor Cell Mill

Multirotor mill for drying, grinding or coating of industrial minerals.

Model CM500 with installed power of 55 kW.

Airflow rating 2000 – 6000 m<sup>3</sup>/hour depending on application.

Little used machine in excellent condition.



### Model 3H KEK Pin Mill (2 available)

Pin Disc Grinding Media

Feed/air inlet arrangement with magnet.

15/18.5 kW vee-belt drive.

*Size reduction of soft materials.  
Fineness range : 500 – 45 µm.*



### Bradley Hercules Screen Mill

Robust and proven mill design for size reduction of Calcium Carbonate and other soft to medium hardness minerals.

Feedsizes : 30 mm down

Product Fineness : 90% passing 2 mm to  
60% passing 75 micron

Capacity : Typically 8-10 tonne/hour.

Installed Power : 90/110 kW

Product fineness controlled by integral screen discharge arrangement.

Vibratory feeder and discharge screw included.





## Condux Impact Mill

Model 220 Fine Impact Mill

Blast Rotor and Screen grinding media.

Offered in refurbished condition.

Installed Power : 11 kW

Includes feed hopper, vibratory feeder, discharge arrangement and installation table.

Filter, fan and controls can be offered to complete system.



## Alpine 100 UPZ Fine Impact Mill

Laboratory Mill with Beater and Track grinding media.

Offered in refurbished condition with new control panel.

Installed Power : 1.5 kW

Arrangement includes feed hopper, vibratory feeder, discharge hopper, installation table and 200 mm dia x 1000 mm filter bag with support cage.



## ACM 10/15 Air Classifier Mill System

Complete system comprising:

- Feed Hopper
- Feed Rotary Valve
- PPS ACM 10 Mill (stainless steel PCP)
- Cyclone Classifier (Stainless)
- Product Collection Cyclone (stainless)
- Filter (side bag removal with explosion relief)
- Rotary Valves
- Ducting
- Control Panel



### Hosokawa Mikropul ACM 75 Air Classifier Mill

55 kW Mill Drive  
7.5 kW Classifier Drive

Currently Pin Rotor, can be converted to Hammers

Stainless Steel Product Contact Parts

Can be supplied either as machine only, fully refurbished by ex-Hosokawa Engineers, or as part of a process system.



### PPDS Model TCM 2 Air Classifier Mill

Air Classifier Mill with independent classifier drive.

55 kW Mill Drive  
7.5 kW Classifier Drive

Mill power can be increased to up to 110 kW.



### Classifiers:

#### British Rema Aerosplit Classifier

Model MAC 0 for operation in pilot plant of small production facility.

Classifier offered in fully refurbished condition.

Product collection filter, high pressure fan and ducting available.

*High efficiency separation of soft to medium hard materials in the 150 – 10 µm size range.*





### 7'-6" diameter Double Whizzer Classifier

International Combustion Ltd airstream classifier for separation in the 97% passing 250 – 45 micron range.

Airflow rating of up to 30,000 m<sup>3</sup>/hour.

Installed Power : 15 kW

Suitable for operation in conjunction with mill or as independent classifier system.

Classifier casing fabricated from "Triten" wear resistant plate.



### IIT Classifier

Model C400 Dynamic Air Classifier.

Independent airstream classifier or for closed circuit operation with mill.

Product collection cyclone and high pressure fan available.

Feedrate up to 4 tonne/hour (depending on product fineness).



### Bradley VBC 30 Classifier

Bradley Pulveriser Company airstream classifier for separation in the 97% passing 150 – 25 micron range.

Airflow rating of up to 20,000 m<sup>3</sup>/hour.

Installed Power : 22 kW

Suitable for operation in conjunction with mill or as independent classifier system.



**Dryers:**

**Ventilex Fluid Bed Dryer/Cooler.**

Model FBD/C 8/8  
Machine No. V5530  
Year of manufacture: 2004

Approximate dimensions : 1500 mm wide x 10000 mm long.

Can be offered either as machine only or as complete drying system with feed arrangement, air heater, filter and fans.



**Didion Rotary Dryer**

1.8 metre diameter x 11 metre long.  
30 kW geared motor drive.

Can be offered either as machine only or as complete drying system with feed arrangement, air heater, filter and exhaust fan.



**Scott AST Air Swept Tubular Dryer**

Model 5418 Dryer complete with feeder, air heater and exhaust fan.

110 kW vee-belt drive

Feed Screw with agitated feed hopper.

3.4 MW LPG fired air heater.

Airflow : 30,000 m<sup>3</sup>/hour – 90 kW exhaust fan included.





### Hosokawa Micron Dryer

Model MDH 2 Micron Dryer with swing hammer rotor and dynamic air classifier.

For flash drying of soft to medium hard materials at rates of up to 2000 kg/hour.

Evaporative capacity: 300 kg/hour H<sub>2</sub>O.

Installed Power: Rotor – 30 kW  
Classifier 2.2 kW

Twin screw feeder.

Can be offered “as is” or in refurbished condition as complete drying system.



### Hosokawa Micron Dryer

Model MDH 3 Micron Dryer with swing hammer rotor and dynamic air classifier.

For flash drying of soft to medium hard materials at rates of up to 3500 kg/hour.

Evaporative capacity: 600 kg/hour H<sub>2</sub>O.

Installed Power: Rotor – 45 kW  
Classifier 2.2 kW

Twin screw feeder.  
Gas fired air heater.

Can be offered “as is” or in refurbished condition as complete drying system.



### Screens:

#### Mogensen Spreader Feeder

Spreader feeder for 2 metre wide Mogensen Sizer.

Distributes incoming feed across the full width of the screen - critical for optimum efficiency at high throughput.

For further details:

[http://www.mogensen.co.uk/mogensen\\_spreader\\_feeders](http://www.mogensen.co.uk/mogensen_spreader_feeders)



**Mixers:**

**Ribbon Blender**

Batch Mixer for powders and granules.

Mild steel construction with stainless steel lining in chamber.

Approximate Overall Dimensions:

1700 mm long x 700 mm wide x 800 mm high.

Working Volume: 0.75 m<sup>3</sup>

5.5 kW motor/gearbox drive.



**Hosokawa Schugimix**

Continuous mixer/agglomerator.

Can be equipped with liquid injection for granulation of powders.

55 kW vee belt drive.



**Scott HST Mixer**

Model 2496 Continuous High Intensity Mixer with liquid injection.

Currently configured with adjustable paddles but could be converted to pins.

Can be used for mixing or for agglomeration.

Installed Power – 45 kW.





### **APEX Double Cone Blender**

700 litre stainless steel batch mixer with 4 kW geared motor, spur gear drive arrangement giving a speed of 18 rpm at 50 hHz.

Model 294FF  
Machine No. A20230

Mixer internals are polished and include 2 breaker arms.

Mixer measures 1375 mm diameter with 350 mm dia inlet and 250 mm dia outlet.

Plan area required for mixer c/w drive on common support frame 2750 mm x 1500 mm.



### **Cyclones & Dust Collectors:**

#### **Product Collection Cyclone**

High efficiency cyclone for separation of product from airstream.

400 mm dia x 7500 mm overall height.

Inlet measures 270 mm wide x 620 mm high.

Airflow rating – approximately 10,000 m3/hour.



#### **Product Collection Cyclone**

International Combustion Ltd Cyclone for separation of product from airstream.

3000 mm dia x 7000 mm overall height.

Inlet measures 1050 mm high x 540 mm wide.

Airflow rating – approximately 30,000 m3/hour.



### Reverse Jet Filter

Stainless steel construction.

Tangential inlet.

Can be supplied with cartridge media.

Complete with 1.5 kW 425 m<sup>3</sup>/hour fan.



### Product Collection Cyclone

IIT High efficiency cyclone for separation of product from airstream.

700 mm dia x 2750 mm overall height.

Inlet measures 210 mm wide x 290 mm high.

Airflow rating – approximately 3,500 m<sup>3</sup>/hour.



### Feeders:

#### Heavy Duty Vibratory Feeder (2 available)

1150 mm wide x 6000 mm long trough with Invicta motors.

Intake/dump hopper.

Support frame with discharge height of 1800 mm.





### Acrison Screw Feeder

Model A1-403-105-2-13 Screw Feeder

100 mm dia screw with conditioning auger.

Installed power : 1.1 kW

400 litre feed hopper with lid and 250 mm dia inlet.



### Vibrating Feeders

Numerous Podmore Vibrating Trough Feeders/Conveyors.

Ranging in size from 200 mm wide x 850 mm long to 500 mm wide x 4000 mm long.

Controllers available.



### Vibrating Feeder

Electromagnetic drive tubular feeder (2 available)

Manufacturer : Applied Vibration Ltd

Model : 125/IC-50

Size : 150 mm dia x 750 mm long

REOVIB Controller included.



## Skako Vibratory Feeders

Model : FCE 040/0100

1090mm long

60m<sup>3</sup>/hr capacity @ 8° incline

4 available, 1 remaining

c/w Skacontrol Controllers



## Miscellaneous:

### Clyde Denseveyor

Model 50/12/6 Denseveyor

Capacity: 1420 litres

Inlet: 300 mm dia

Conveying Pipeline: 150 mm (6") NB

Vessel No. 5669/2

Year of Manufacture: 2007

Includes dome valves on inlet, outlet and vent line.

Overall height of vessel including isolation valve above inlet: 2960 mm.

Dense phase pneumatic conveying of powders and granules.

2 machines available.

Also, a 70/12/6 Denseveyor.



### Pneumex Pump (2 available)

3m<sup>3</sup> capacity blowing vessel for dense phase conveying of powders and grits.

Capacity up to 50 tonne/hour.





## Belt Conveyor

Belt conveyor – 600 mm wide belt x 22 metre long.

