



Premier Colloid Mills

By Winkworth



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Premier "Eighty Four" Dispersion Mill:

An ideal mill for:

Small scale production as a laboratory Unit. For pilot use in conjunction with larger models.

This mill is of a modern design, incorporating a self compensating rotor, which gives extreme accuracy under working conditions.

Working Surfaces: Abrasive (carborundum) stones or stainless steel 84 mm. diameter. All other contact parts are in 316 polished stainless steel. Self compensating rotor mounting, enables the mill to be operated at fine settings.



Rotor Speeds: Two rotor speeds of 4000 & 8000 RPM with peripheral speeds of 16.5 m/sec & 33 m/sec.

Motor: Standard units are fitted with two speed motors 2.6/3.1 KW totally enclosed, protection IP55.

Hopper: Polished 316 stainless steel.

Water Cooling: A water jacket surrounds the working services, on to which product from the working surfaces is thrown. Coolant or low pressure steam can be circulated through this jacket to provide cooling or heating.

Drive: By means of Poly V Belt from motor to mill shaft.



Premier Dispersion Mill Model 130:

This design incorporates all the refinements of the 84, 200 and 250 Mills.

Motor: Two speed 3.4/4.8 KW and single speed 4 KW.

Rotor Speeds: Two speeds 2560 & 5120 RPM, with peripheral speeds of 17.5 m/sec & 35 m/sec.

Working Surfaces: 130 mm. dia. abrasive (carborundum) or stainless steel. All other contact parts in stainless steel 316.

Jacket: Water jacketed spray shield surrounds to working surfaces. This permits a coolant or heating medium to be circulated as required. Unjacketted mills are fitted with a simple spray shield.

Hopper: 15 Litre stainless steel or pipe feed adaptor.

Drive: Poly V Belt from motor to mill shaft.

Adjustment: By means of micro scale adjusting ring giving direct reading on engraved scale.



Premier Dispersion Mill Model 200:

Motor: Two speed 6.3/12.7 KW. Single Speed 11KW.

Rotor Speeds: Two speed units 1700/3400 RPM peripheral speed 16.3 m/sec. and 34.5 m/sec.

Working Surfaces: 200 mm. diameter abrasive (carborundum) or stainless steel. All other contact parts in 316 stainless steel.

Jacket: Water Jacketted spray shield surrounds the working surfaces. This permits a coolant or heating medium to be circulated as required. Unjacketted mills are fitted with simple spray shield .

Hopper: 30 Litre capacity or Stainless Steel Pipe Adaptor available.

Drive: Poly V Belt from motor to mill shaft.

Adjustment: By means of micro scale adjusting ring, giving direct reading on engraved scale. Self compensating rotor mounting, enables the mill to be operated at fine settings.

Premier Dispersion Mill Model 250:

Motor: Two speed 17.2/8.6 KW. Single speed 18 KW.

Rotor Speeds: Two speed units 1450/2900 RPM. Peripheral speed 19 m/sec & 38 m/sec.

Working Surfaces: 250 mm. diameter abrasive (carborundum) or stainless steel. All other contact parts in 316 stainless steel.

Jacket: Water jacketted spray shield surrounds the working surfaces. This permits a coolant or heating medium to be circulated as required. Unjacketted mills are fitted with simple spray shield.

Hopper: 30 Litre capacity, or stainless steel Pipe adaptor available.

Drive: Poly V Belt from motor to shaft.

Adjustment: By means of micro scale adjusting ring, giving direct reading on engraved scale.



Outlet Chute



Control Panel

Mill Outputs:

All outputs given are approximate and depend on the fineness of grind or dispersion required. They also depend on the viscosity characteristics of the material being handled. However, three figures are given for each mill and indicate:

- A. At finest possible grind setting.
- B. Average outputs on most products
- C. Maximum output on easily dispersed materials.

MILL OUTPUTS IN KG/HR	A	B	C
Premier 84 Mill	9-22	45-68	136-158
Premier 130 Mill	68-113	181-272	317-408
Premier 200 Mill	54-136	272-408	952
Premier 250 Mill	68-136	362-453	2268

Weights and Dimensions:

	Base Dimensions	Overall Height	Weight
Premier 84 Mill	762 x 343 mm	585 mm	85kgs
Premier 130 Mill	900 x 400 mm	680 mm	102kgs
Premier 200 Mill	600 x 1010 mm)	1502 mm	425 kgs
Premier 250 Mill	600 x 1010 mm	1517 mm	500kgs

Premier Colloid Mills have been manufacturing mixing and milling equipment for over 90 years. Our clients include some of the most prestigious names in industry.

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