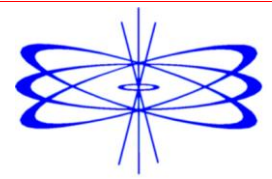
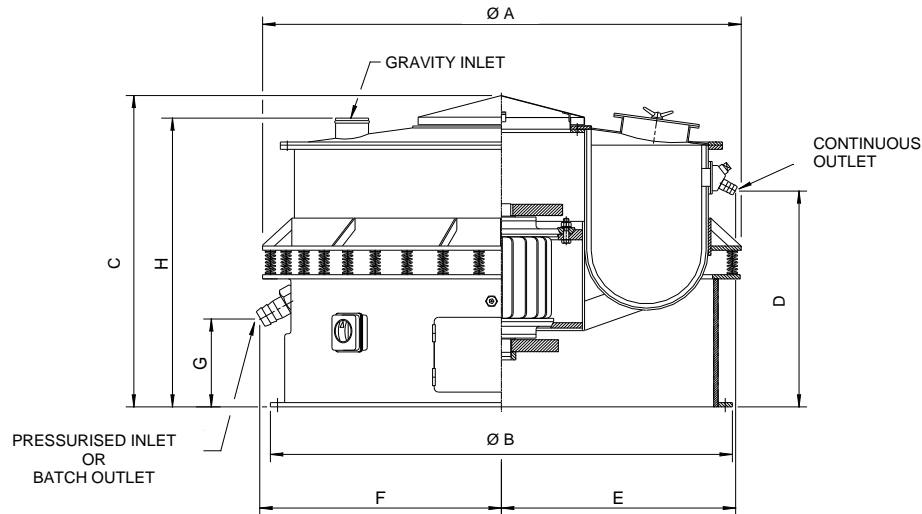


BOULTON



Vibro-Energy[®] New Range Ultra-Fine Wet Grinding Mills



WET GRINDING MILLS:

Particle size range: 6 mm to < 1 micron (< 0.001 mm)
 Medium amplitude mills maximum 5 mm vertical displacement, high amplitude max 9 mm at 50 Hz.
 Process material capacity is 28% of the working volume with high density cylindrical shape ceramic media.
 e.g. AH 70 product capacity is 336 litres at media Specific Gravity of 3.5 or 168 litres at media S.G. of 7.0

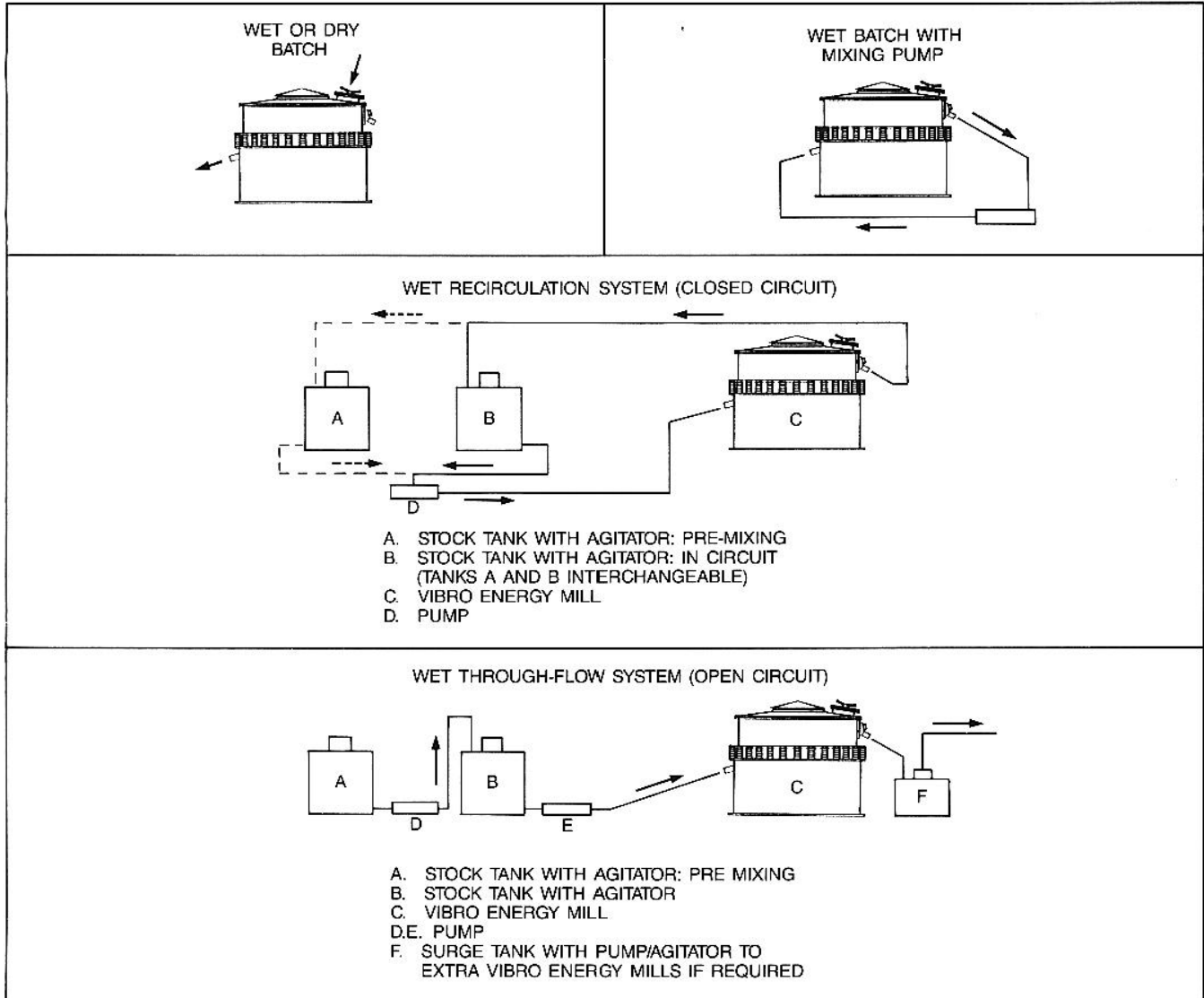
LABORATORY & PILOT PLANT MILLS:

For both wet and dry grinding with suitable outlets.
 Amount of grinding media and capacity is variable.
 Maximum vertical amplitude displacement is 6 mm.
ALL MILLS suitable for any 3 phase 50 or 60 Hz supply.
WEARING CONTACT PARTS are moulded polyurethane at hardness 80 - 90 Shore "A" or polyethylene for iron-free grinding. Vulcanised rubber is also available.

Type	Model Ref.	Process Material Capacity at media SG 3.5 (Litres)	Total Working Volume at media SG 3.5 (Litres)	Media Weight At S.G. 3.5 (kg)	Vibro Power Generator (kW)	Dimensions (mm)							
						A	B	C	D	E	F	G	H
Laboratory Mill	12	0.15 - 2	8	20	0.20	305	305	615	565	190	355	380	630
Pilot Plant Mill	VAE	5 - 15	50	125	0.90	915	915	1040	890	455	510	585	1000
Medium Amplitude Mills	AM-5	30	100	250	0.90	1320	1320	1170	810	610	660	560	1140
	AM-10	50	200	500	1.80	1320	1320	1170	840	610	660	430	1140
	AM-25	130	500	1270	4.00	1320	1320	1320	1015	610	660	380	1280
	AM-100	500	2000	4600	6.20	2200	2130	1955	1420	1040	1090	790	1900
High Amplitude Mills	AH-10	45	170	500	1.80	1320	1320	1170	810	610	660	380	1140
	AH-15	70	260	760	4.00	1320	1320	1320	1000	650	660	380	1280
	AH-70	320	1200	3550	6.20	2200	2130	1880	1825	1070	1065	790	1825

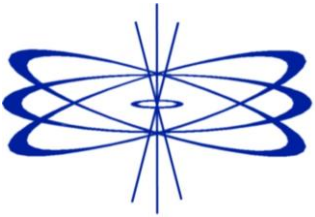
We reserve the right to amend specifications in line with our policy of continued technological development and product improvement.

ALTERNATIVE METHODS OF OPERATION



TYPICAL PERFORMANCE DATA FOR THE WET GRINDING OF MATERIALS IN THE VIBRO ENERGY MILL

Material	Feed Size	Product Size	Energy Input
China Clay	60 microns	100% <2 microns	40 KWH/Tonne
Iron Oxide (Red)	26,000 cm ² /g.	47,000 cm ² /g.	48 ..
Zircon	100 microns	95% <5 microns	280 ..
Alumina	150 microns	95% <5 microns	200 ..
Sillimanite	150 microns	95% <10 microns	110 ..
Silica	250 microns	98% <10 microns	200 ..
Iron Oxide (Yellow)	20,000 cm ² /g.	40,000 cm ² /g.	48 ..
Manganese Dioxide	250 microns	100% <50 microns	24 ..
Titanium Dioxide	50 microns	100% <2 microns	48 ..
Limestone	250 microns	20,000 cm ² /g.	84 ..
Rutile	150 microns	23,000 cm ² /g.	180 ..
Zinc Oxide	95% <20 microns	98% <2 microns	36 ..
Bauxite	250 microns	100% <50 microns	54 ..
Alkali Blue	150 microns	100% <3 microns	50 ..
Chromic Oxide	150 microns	30,000 cm ² /g.	120 ..
Cobalt Silicate	250 microns	20,700 cm ² /g.	300 ..
Toluidene Red	150 microns	100% <2 microns	100 ..
Ultramarine	60 microns	100% <5 microns	75 ..
Carbon Black	30 microns	100% <5 microns	60 ..

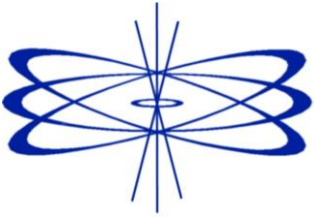


William Boulton Vibro Energy.

Vibro-Energy[®] New Range
Ultra-Fine Wet Grinding Mills

AM SERIES





William Boulton Vibro Energy.

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Website: www.williamboulton.co.uk

Data Sheet.

High Density Alumina SG 3.54 12mm x 12mm cylinders.

HIGH DENSITY GRINDING MEDIA IS PREMIUM GRADE ALUMINA CERAMIC. IT IS FORMED BY ISOSTATIC DUST PRESSING, THEN FIRED IN HIGH TEMPERATURE KILNS.

AT ALL STAGES OF MANUFACTURE STRINGENT PRODUCTION CONTROLS ARE EXERCISED. THE BALLS/CYLINDERS ARE WELL SHAPED, UNIFORMLY DENSE AND STRUCTURALLY HOMOGENOUS.

THEY HAVE CHARACTERISTICALLY HIGH MECHANICAL STRENGTH AND DURABILITY, OUTLASTING BY SEVERAL TIMES PORCELAIN AND OTHER STANDARD/MEDIUM DENSITY MEDIA.

THE GRINDING MEDIA RETAINS GOOD SHAPE IN WORK AND IN CORRECTLY SEY UP MILLS GIVES AN OUTSTANDING PERFORMANCE.

HIGH DENSITY MEDIA IS CHEMICALLY INERT AND IS UNAFFECTED BY INDUSTRIAL SOLVENT, ALKALIS AND ACIDS- EXCEPT HYDROFLUORIC.



	HIGH DENSITY AL92
COLOUR	WHITE
WATER ABSORPTION %	NIL
POROSITY	GAS TIGHT
SPECIFIC GRAVITY	3.57
APPROX. PACKING DENSITY (KG/LIT)	2.13 / 2.15
HARDNESS (MOHS SCALE)	9
RESISTANCE TO BENDING STRENGTH KG/ Cm ²	2,700
COMPRESSIVE STRENGTH KGF/ Cm ²	21,000

Particle size range: 6 mm to < 1 micron (< 0.001 mm)

Medium amplitude mills maximum 5 mm vertical displacement, high amplitude max 9 mm at 50 Hz. Process material capacity is 28% of the working volume with high density cylindrical shape ceramic media.

e.g. AH 70 product capacity is 336 litres at media Specific Gravity of 3.5 or 168 litres at media S.G. of 7.0