

Grinding of materials in a tumbling mill with the presence of metallic balls or other media dates to the late 1800's. The basic construction of a ball mill is a cylindrical container with journals at its axis. The cylinder is filled with grinding media (ceramic or metallic balls or rods), the product to be ground is added and the cylinder is put into rotation via an external drive causing the media to roll, slide and cascade. Lifting baffles are supplied to prevent the outer layer of media to simply roll around the cylinder.

ORBIS MACHINERY, LLC Engineers and fabricates Steel and Lined Ball Mills which can be used for wet or dry milling applications. All our mills are constructed from quality materials to provide years of reliable service. Our steel mill cylinders are typically constructed of AR400 plate steel but can also be constructed in Stainless Steel. Mill linings include high purity Alumina ceramic, Rubber and Urethane. We can offer several different drive arrangements such as standard shaft mounted reducer and belt drive, Gearwheel and pinion, Direct drive through inline reducer and keyless shafts. Whatever your milling requirements maybe we are here to assist you.

ORBIS MACHINERY STEEL BALL MILLS

MODEL NO	Total Capacity (Cubic ft)	Cylinder Diameter Inches	Cylinder Length Inches	Cylinder Speed (60% critical)	HP (Wet) (Steel Media)	HP (Dry)
SBM-1618-2	2	16	18	40	1/2	3/4
SBM-1723-3	3	17	23	39	3/4	1 1/2
SBM-2028-5	5	20	28	36	1 1/2	2
SBM-2431-8	8	24	31	33	2	5
SBM-2535-10	10	25	35	32	3	5
SBM-3037-15	15	30	37	29	5	7 1/2
SBM-3340-20	20	33	40	28	7 1/2	10
SBM-3846-30	30	38	46	26	10	15
SBM-4446-40	40	44	46	24	15	25
SBM-4652-50	50	46	52	24	20	30
SBM-4858-60	60	48	58	23	25	40
SBM-5558-80	80	55	58	22	30	50
SBM-6061-100	100	60	61	21	40	75
SBM-6367-120	120	63	67	20	40	75
SBM-6671-140	140	66	71	20	60	100
SBM-7072-160	160	70	72	19	75	125
SBM-7285-200	200	72	85	19	100	150
SBM-7887-240	240	78	87	18	125	200
SBM-78102-280	280	78	102	18	125	200

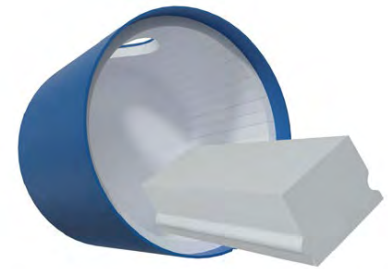
Note: Other sizes available



ORBIS MACHINERY LINED BALL MILLS

MODEL NO	Total Capacity (Cubic Ft)	Cylinder Diameter Inches	Cylinder Length Inches	Cylinder Speed (60% critical)	HP (Wet) (Steel Media)	HP (Dry) (Steel Media)
LBM-1820-2	2	18	20	40	1/4	1/2
LBM-1925-3	3	19	25	39	1/2	3/4
LBM-2230-5	5	22	30	36	3/4	1
LBM-2633-8	8	26	33	33	1	1 1/2
LBM-2737-10	10	27	37	32	1 1/2	2
LBM-3239-15	15	32	39	29	2	5
LBM-3744-20	20	37	44	28	3	5
LBM-4250-30	30	42	50	26	5	10
LBM-4850-40	40	48	50	24	7 1/2	10
LBM-5056-50	50	50	56	24	10	15
LBM-5262-60	60	52	62	23	10	20
LBM-5962-80	80	59	62	22	15	25
LBM-6465-100	100	64	65	21	20	30
LBM-6771-120	120	67	71	20	25	40
LBM-7075-140	140	70	75	20	25	40
LBM-7476-160	160	74	76	19	30	50

Note: Other sizes available



Alumina Lining



Rubber Lining

DESIGN OPTIONS

- Abrasion Resistant Steel Cylinders
- Ceramic, Rubber, Urethane Linings
- Cooling Jackets
- Shaft Mount Reducer / Belt Drive
- Direct Drive Inline Reducer
- Gearwheel / Pinion Drive
- Vibration Isolators
- Sound Dampening Insulation
- Indexing System with Holding Brake
- Pedestal Extensions
- Safety Enclosures
- Explosion Proof Motors
- Variable Speed Drives
- Turn Key Controls
- Wet or Dry Milling
- Heavy Duty Discharge Grates
- Dry Discharge Enclosures



One Piece Support Frame Available for Smaller Mills

