

## Rod Mill

The rod mill has many steel rods inserted into a rotating drum (cylinder) to continuously grind the feed between the rods or between the rod and the drum inner wall. It is capable of grinding lumps whose size is tens of millimeters into a product 1 mm or less in diameter. There are two types of rod mills—the wet type and the dry type. The product is discharged from top of the drum or through holes provided in the drum.



Model	Drum size (diameter x length) mm	Rods inserted (t)		Motor kW	Model	Drum size (diameter x length) mm	Rods inserted (t)		Motor kW
		Wet type	Dry type				Wet type	Dry type	
1218	1200×1800	3.8	3.5	38	2136	2100×3600	26.5	24.5	220
1224	1200×2400	5.2	4.8	37	2142	2100×4200	31.0	25.0	260
1230	1200×3000	6.5	6.0	55	2426	2400×3600	34.5	31.0	260
1530	1500×3000	11.0	10.5	75	2442	2400×4200	40.0	38.0	300
1536	1500×3600	13.0	12.5	108	2735	2700×3600	41.0	41.0	370
1830	1800×3000	15.5	14.5	125	2742	2700×4200	50.5	48.0	450
1836	1800×3600	18.5	17.5	158	3042	3000×4200	55.0	51.5	520
2130	2100×3000	21.5	20.0	199	3048	3000×4800	64.5	61.5	600

## Otsuka-Stedman Cage Mill

We manufacture cage mills under the license granted by Stedman Machine Company of U.S.A. In the cage mill, two disks on which many pins are arranged concentrically are set face to face and rotated in opposite directions to grind the feed by the impacts applied by the pins. The cage mill is capable of grinding lumps tens of millimeters into a product 1 mm or less in diameter. The pins are arranged in 2, 4, or 6 concentric circles. The more the number of concentric circles, the finer becomes the product.



Model	Approx. cage diameter mm	Max. feed size mm	Motor kW				Grinding capacity t/h
			Small cage		Larger cage		
			Min.	Max.	Min.	Max.	
IB2-24G	650	50	5.5	15	7.5	22	3~15
IB2-32G	830	60	7.5	22	11	37	10~20
IB2-36G	930	70	15	37	22	55	11~28
IB2-42G	1000	70	22	45	37	65	16~32
IB2-48G	1140	80	22	75	37	110	30~54
IB2-54G	1370	80	37	95	55	150	50~80
IB2-62G	1600	90	55	150	75	220	60~110
IB4-24G	650	30	7.5	11	15	22	3~15
IB4-32G	830	40	15	21	22	37	7~20
IB4-36G	930	40	15	37	22	55	12~28
IB4-42G	1000	50	22	55	37	75	15~32
IB4-48G	1140	60	37	95	55	110	25~54
IB4-54G	1370	60	55	95	75	150	40~80
IB4-62G	1600	70	75	150	95	220	50~90

## BHS Otsuka Rotor Mill

The rotor mill is the "open rotor type vertical sizing and grinding machine" manufactured under the technical tieup with BHS, Germany.

The uniquely-curved rotor mill always produces a product of uniform particle size on a stable basis. The superalloy block at the rotor end stands many hours of mill operation. Since the liner is bolted to the well-balanced rotor, the time required to replace a worn liner is so short that there is no need to keep a spare rotor. The crushing chamber can be opened wide by opening the rotary cover with a hydraulic jack, and hence inspection and maintenance of the mill can be carried out easily and speedily. (No motive power is required to open the rotary cover.) The rotor drive unit that is subject to forced lubrication assures stable mill operation free from troubles with the bearings (provided with an air-cooling fan). There is no need to worry about the condition of mill lubrication since it is constantly monitored by an exclusive device. Since the mill body is mounted on a damping rubber plate, the mechanical vibration does not propagate to the mill base. This makes it possible to reduce the weight of the base and foundation.

Model	Main use	Rotor diameter mm	Rotor peripheral speed m/s	Motor kW	Crushing part	Feeding rate t/h	Max. feed size mm
HSMS-930	Sizing	930	35~45	75~118	Rock Shelf	70~110	45
HSMS-1200		1200	35~45	110~208		130~220	50
HSMS-300		1200	35~45	220~328		200~330	70
HSMS-930R	Sand- making	930	55~70	75~118	Anvil Ring	50~90	45
HSMS-1200R		1200	55~60	160~228		90~160	50
HSMS-300R		1200	55~60	220~328		130~240	70
HSMR-930	Grinding/ sand-making	930	50~70	75~118	Anvil Ring	50~90	45
HSMR-1200		1200	55~60	160~228		90~160	50

