



SEPOR, INC.
718 N. FRIES AVE.
P. O. BOX 578
WILMINGTON, CA 90748
PHONE: 310-830-6601
FAX: 310-830-9336

LABORATORY SIZE CONE CRUSHERS

Sepor's Laboratory Cone Crushers are small capacity cone crushers that will reduce 1/2" and smaller material to -10 mesh in a single pass. Typical capacities are 350 lbs./hr. for the 6" cone crusher and 700 lbs./hr. for the 10" cone crusher. Refer to table below for actual capacities achieved on various ores. The product from the cone crusher is ideal for feed to a ball or rod mill; laboratory pulverizer; gravity concentration testing; sizing analysis or sampling.

These cone crushers are durable, ruggedly constructed machines to meet many demanding pilot plant or laboratory applications. Adjustment for varying the product size is quick and easy. These cone crushers feature fabricated steel inner cylinders, lower main frame and coincidental axes are held in a fixed relationship. The upper main frame includes a threaded cap that houses the precision manganese steel concave and provides an accurate means of adjusting the crusher setting. A pan shaped precision manganese steel mantle is bolted onto the cast metal machined head. A forged steel eccentric shaft rotates on heavy duty anti-friction bearings. Spun metal feed chute assembly provides a means of handling large feed samples automatically.



10" & 6" Cone Crushers Shown With Optional Base Assembly

The tables to the left give data obtained from actual crushing operations with a 6 inch Cone Crusher. The capacity for a 10 inch Cone Crusher is twice that of the 6 inch unit.

Test Number	Performance Data					
	1	2	3	4	5	6
Minus .470 inch plus 10 Mesh Feed	Specular Hematite	Quartz		Magnesite		
Crusher Set	1/16"	1/16"	1/16"	7/64"	5/32"	3/16"
Weight of Sample Crushed (Pounds)	10.09	5.51	7.85	8.16	7.77	7.64
Time Required to Crush (Seconds)	113	54.5	96.5	47	25	15.5
Capacity Pounds/hour	321.48	363.84	293.70	624.45	1117.90	1773.00

The 6 inch Cone Crusher, Catalog Number 010B-001, has a 1/2 HP/220-440 V/3 Ph/60 Hz v-belt drive, has a shipping weight of 320 pounds and shipping dimensions of 21" x 20" x 15". Other electrical configurations are available.

Size (Mesh)	Screen Analyses of Crushed Products (Weight%)					
	1 Hematite 1/16" Set	2 Quartz 1/16" Set	3 1/16" Set	4 Magnesite 7/64" Set	5 5/32" Set	6 3/16" Set
+ 3	0.00	0.00	0.00	0.00	0.00	1.74
+ 4	0.00	0.00	0.00	0.00	16.35	23.20
+ 6	0.00	0.68	0.00	2.14	4.35	9.19
+ 8	0.76	0.82	0.05	13.45	28.45	27.84
+ 10	12.32	9.90	1.98	28.43	25.41	23.43
+ 14	30.08	28.50	14.01	16.07	10.72	8.28
+ 20	15.88	18.09	13.75	7.92	3.44	1.94
+ 28	10.60	13.63	13.65	7.92	3.02	1.25
+ 35	6.42	8.61	12.82	7.38	2.75	1.15
+ 48	4.44	6.13	11.42	5.24	1.92	0.74
+ 65	3.61	5.25	12.20	3.93	1.46	0.50
+100	3.26	2.52	4.84	2.79	1.10	0.55
+150	2.15	1.91	5.33	1.70	0.55	0.29
+200	2.61	1.71	3.82	1.35	0.49	0.10
-200	7.80	2.93	6.53	1.83	0.59	0.20

The 10 inch Cone Crusher, Catalog Number 010B-002, has a 2 HP/220-440 V/3 Ph/60 Hz v-belt drive, has a shipping weight of 575 pounds and shipping dimensions of 31" x 27" x 19". Other electrical configurations are available.

The optional fabricated steel crusher base assembly (stand) with product discharge drawer is also available.