

## **MHP-SERIES** | Multi-Cylinder Hydraulic Cone Crusher

MHP Series Multi-Cylinder Hydraulic Cone crusher is design for heavy-duty working condition, superior stability, large production capacity and crushing efficiency. Advanced mainframe combined with large eccentricity, high speed, and intelligent automatic control system.



# MHP-SERIES

## Technical Data Sheet

### MHP SERIES CONE PLANT

#### Technical Data Sheet

	MHP3	MHP4	MHP5	MHP6	MHP100	MHP200	MHP300	MHP400	MHP500
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#### Technical Specification

Head Diameter	1 000 mm (39")	1 120 mm (44")	1 250 mm (49")	1 400 mm (55")	735 mm (29")	940 mm (37")	1 120 mm (44")	1 320 mm (52")	1 520 mm (60")
Speed	250 kW (350 hp)	315 kW (400 hp)	370 kW (500 hp)	500 kW (650 hp)	90 kW (125 hp)	132 kW (200 hp)	220 kW (300 hp)	315 kW (400 hp)	355 kW (500 hp)
Crusher Weights*)	16 100 kg (35 600 lbs)	24 200 kg (53 400 lbs)	29 000 kg (64 000 lbs)	44 550 kg (98 200 lbs)	6 470 kg (14 300 lbs)	12 160 kg (26 800 lbs)	18 100 kg (39 900 lbs)	25 600 kg (56 400 lbs)	37 000 kg (81 600 lbs)

#### Feed Opening

Maximum	220 mm (8 ¾")	252 mm (9 ⅞")	317 mm (12 ½")	331 mm (13")	150 mm (8 ½")	185 mm (7")	241 mm (9 ½")	304 mm (12")	351 mm (13 ¾")
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#### Capacity

Closed Side Setting	Capacity								
6 mm						45-55			
¼ "						50-60			
8 mm	94-122	135-175	158-205			50-60			
⅜ "	104-135	150-190	174-226			55-65			
10 mm	108-147	155-210	181-246	220-300	55-70	90-120	115-140	140-175	175-220
⅝ "	119-162	170-230	200-271	245-330	60-75	100-130	125-155	155-195	195-240
13 mm	136-185	195-265	229-311	280-380	60-80	120-150	150-185	185-230	230-290
½ "	150-204	215-290	252-343	310-415	65-90	130-165	165-205	205-255	255-320
16 mm	164-220	235-315	275-369	335-450	70-90	140-180	180-220	225-280	280-350
⅝ "	181-243	260-345	303-407	370-495	80-100	155-200	200-240	250-310	310-385
19 mm	182-241	260-345	304-403	370-490	75-95	150-190	200-240	255-320	320-400
¾ "	200-266	285-380	335-444	410-540	85-105	165-210	220-265	280-355	355-440
22 mm	199-262	285-375	335-439	410-535	80-100	160-200	220-260	275-345	345-430
⅞ "	219-289	315-410	369-484	450-590	85-110	175-220	240-285	305-380	380-475
25 mm	210-279	300-400	352-460	430-570	85-110	170-220	230-280	295-370	365-455
1 "	231-308	330-440	388-507	470-630	100-140	185-240	255-310	325-410	400-500
32 mm	217-307	310-440	380-500	440-630	110-155	190-235	250-320	325-430	405-535
1¼ "	239-339	340-485	419-551	490-690	120-170	210-260	275-355	360-475	445-595
38 mm	251-349	360-500	422-550	515-715		210-250	300-380	360-490	445-605
1½ "	277-385	395-550	465-606	565-785		230-275	330-420	395-545	490-670
45 mm	279-388	400-555	468-600	570-790			350-440	410-560	510-700
1¾ "	308-427	440-610	516-661	630-870			385-485	450-625	560-775
51 mm								465-630	580-790
2 "								510-700	640-880

#### MHP800

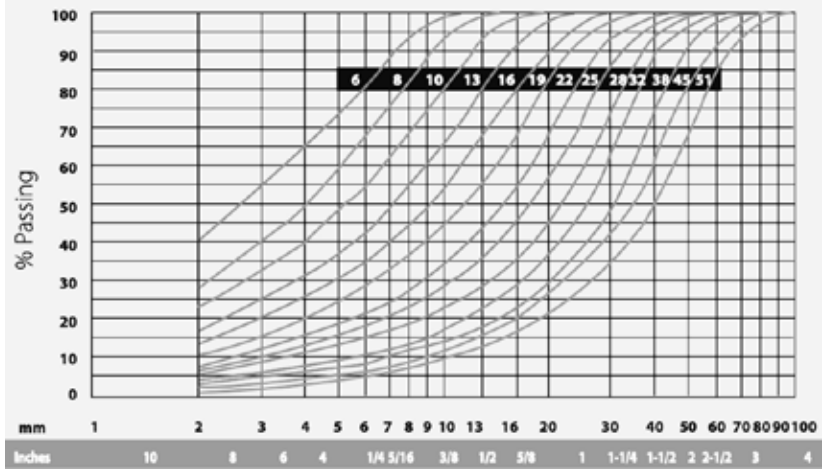
Power	600 kW (800 hp)
Crusher Weight	68 650 kg (151 200 Lbs)
Feed Opening (Maximum)	353 mm (13.90")

#### Crusher Capacities

##### Closed Setting

Size	Tone/hr	6 mm	8 mm	10 mm	13 mm	16 mm	19 mm	22 mm	25 mm	32 mm	38 mm	45 mm	51 mm
HP 800	Mtph stph			260-355 285-370	325-425 360-470	385-500 425-550	435-545 480-600	470-600 520-660	495-730 545-805	545-800 600-880	690-950 550-1045	690-1050 760-1155	785-1200 865-1320

### MHP Series | Gradation Curves



% passing through a square mesh depending on the setting

\* The gradation and capacities shown are dependent on the feed gradation, the crushing chamber, the material density, the material cleanliness, its moisture and its crushability.

### Adequate Crusher Discharge Area

The following factors will detract from crusher capacity and performance.

1. Sticky material in crusher feed.
2. Fines in crusher feed (smaller than crusher setting) exceeding 10% of crusher capacity.
3. Excessive feed moisture.
4. Feed segregation in crusher cavity.
5. Improper feed distribution around circumference of crusher cavity.
6. Lack of feed control.
7. Inefficient use of recommended connected horsepower.
8. Insufficient conveyor capacity
9. Insufficient scalper and closed circuit screen capacities.
10. Insufficient crusher discharge area.
11. Extremely hard tough material.
12. Operation of crusher at less than recommended full load countershaft speed.

### Crusher Capacities

Cone crusher capacity charts are developed for use as an application tool to properly utilize the HP crusher's capabilities. The capacity figures shown apply to material weighing 100 pounds per cubic foot or 1600 kg per cubic meter. The crusher is one component of the circuit. As such, its performance is in part dependent on the proper selection and operation of feeders, conveyors, screens, supporting structure, electric motors, drive component and surge bins. Where used, attention the following factors will enhance crusher capacity and performance.

1. Proper selection of crushing chamber for material to be crushed.
2. A feed grading containing proper distribution of the particle size.
3. Controlled feed rate.
4. Proper feed distribution 360° around crushing chamber.
5. Discharge conveyor sized to carry maximum crusher capacity.
6. Properly sized scalping and closed circuit screens.
7. Automation controls.

