



## **CONE CRUSHER**

### **SALIENT FEATURES :**

- Large feed opening
- Minimum wear and operation cost
- Modern, simple and effective design
- Low power consumption with high output
- Highly efficient design with maximum energy imparted for crushing
- Excellent reliability due to the components produced in state of the art in house machining facility

# DP1-A/DP2-A/DP3-A/DP4-A HIGH SPEED FULLY AUTOMATIC CONE CRUSHER

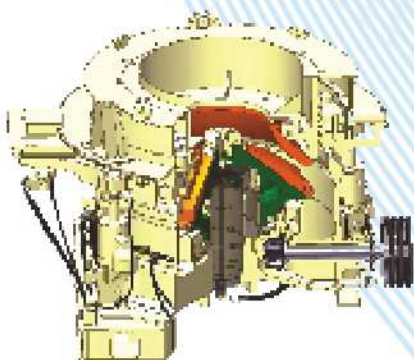
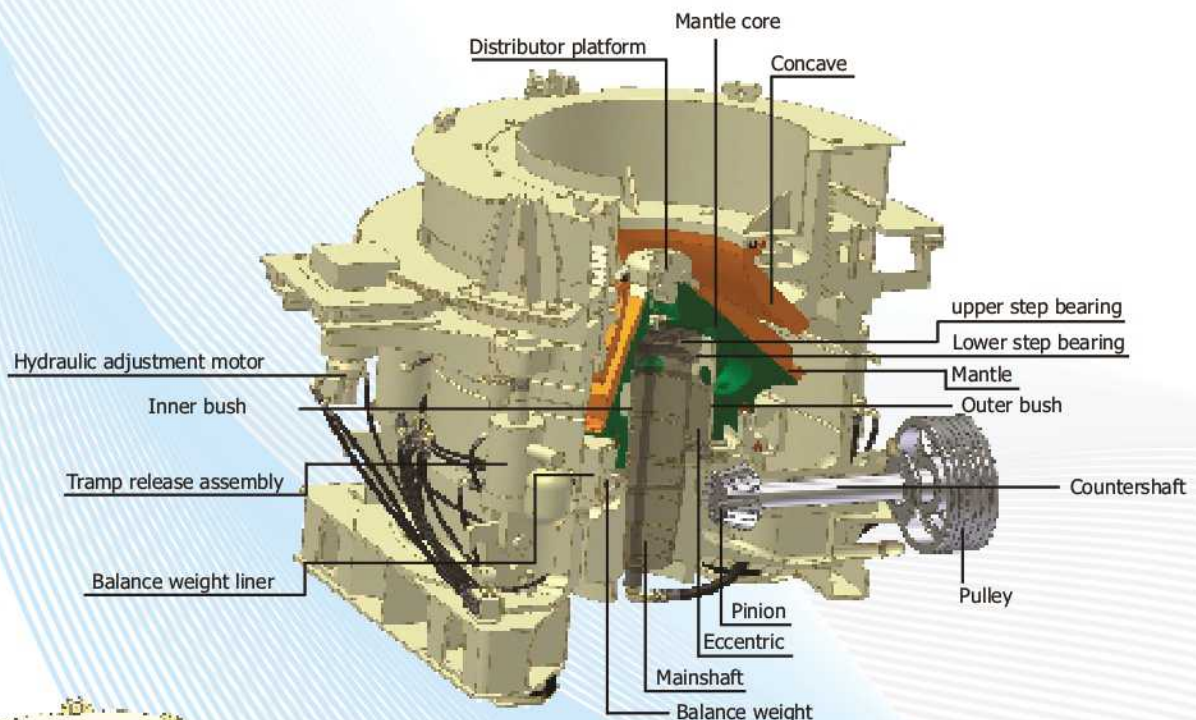


**CMC - DIAMOND DP-A Series**  
Cone Crusher combines speed, stroke and cavity design perfectly and can provide higher capacity and better product quality. It has wide applications.



## THE BEST CHOICE OF CONE CRUSHER

- High Capacity
- Low operation and wear cost
- Less over size
- From road aggregate to crushed sand
- CMC DPA series high speed cone crusher leads quarry and mining industry technology
- Large crushing ratio
- Long service life
- From limestone to taconite
- From mobile crusher to large-scale stationery crushing plant

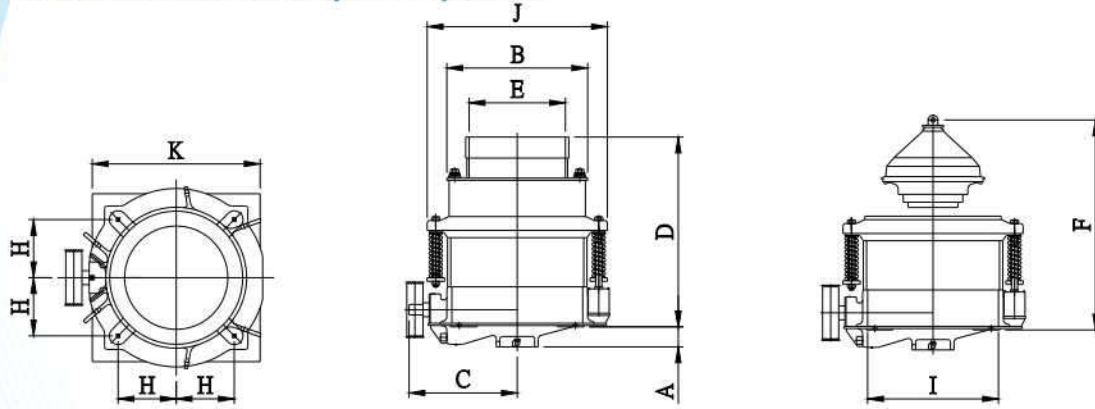


New tramp metal release design

## PROTECTION DEVICE

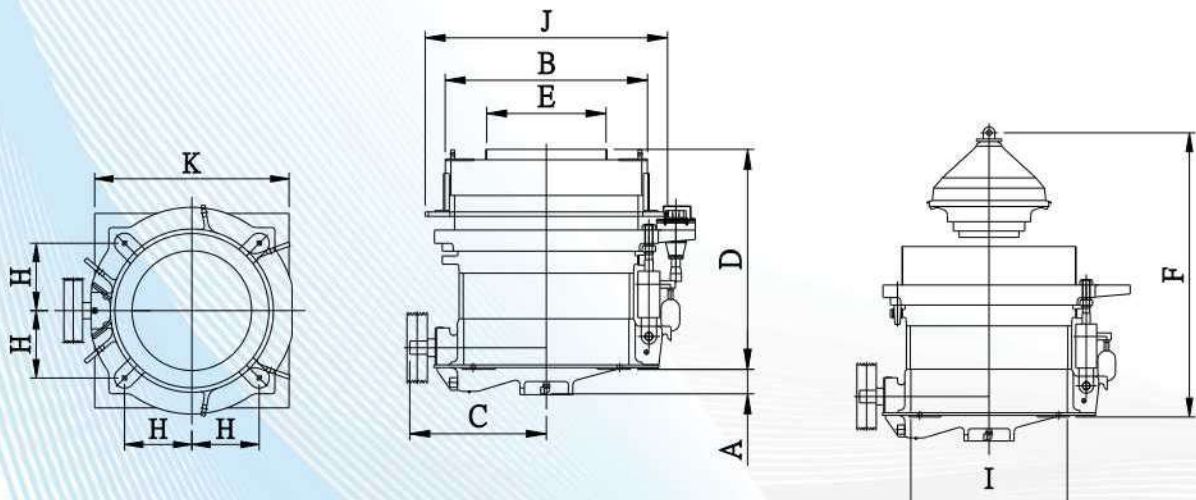
If the oil temperature exceeds the set value or if the oil flow deceeds the set value, the crusher motor will trip to avoid any damage to the internal parts of the cone crusher. This protection device helps reduce downtime and increase life of the crusher.

## DIMENSIONAL DETAILS OF DP2-S/DP3-S/DP4-S



OUTER DIMENSION		DP2-S	DP3-S	DP4-S
A.	Bottom for all piping	190	230	276
B.	Adjustment ring maximum diameters	1370	1612	1934
C.	To end of counter shaft	1035	1239	1487
D.	Maximum height of feed hopper	1845	2170	2604
E.	Inside diameter of feed hopper	936	1102	1322
F.	Clearance required for removing bowl assembly	2040	2400	2880
G.	Additional up ward travel of feed hopper during clearing stroke	70	75	80
H.	Mounting hole location	545	665	798
I.	Main frame discharge opening diameter	1248	1498	1798
J.	Maximum frame diameter	1690	2062	2474
K.	Support base width	1574	1920	2304

## DIMENSIONAL DETAILS OF DP1-A/DP2-A/DP3-A/DP4-A



OUTER DIMENSION		DP1-A	DP2-A	DP3-A	DP4-A
A.	Bottom for all piping	120	170	230	278
B.	Adjustment ring maximum diameters	1270	1420	1732	2145
C.	To end of counter shaft	844	1016	1239	1428
D.	Maximum height of feed hopper	1460	1635	1994	2430
E.	Inside diameter of feed hopper	738	887	1082	1217
F.	Clearance required for removing bowl assembly	1900	2230	270	2950
G.	Additional up ward travel of feed hopper during clearing stroke	110	110	150	160
H.	Mounting hole location	440	545	665	830
I.	Main frame discharge opening diameter	1000	1248	1522	1760
J.	Maximum frame diameter	1540	1802	2198	2550

# CRUSHER CAVITY SELECTION

CRUSHER SIZE	CAVITY	MAXIMUM FEED SIZE (mm)	MINIMUM SETTING CSS (mm)	MOTOR RATING Kw/HP
<b>DP1-A</b>	SS (Sandmaster)	30	8	90/120
	S (Fine)	60	9	
	F (Medium)	80	13	
	C (Coarse)	95	20	
	CC (Extra Coarse)	145	25	
<b>DP2-A / DP2-S</b>	SS (Sandmaster)	35	10	132/180
	S (Fine)	95	13	
	F (Medium)	125	18	
	C (Coarse)	160	21	
	CC (Extra Coarse)	185	30	
<b>DP3-A / DP3-S</b>	SS (Sandmaster)	45	10	200/270
	S (Fine)	107	13	
	F (Medium)	180	20	
	C (Coarse)	220	22	
	CC (Extra Coarse)	250	30	
<b>DP4-A / DP4-S</b>	SS (Sandmaster)	40	10	250/340
	S (Fine)	111	18	
	F (Medium)	198	22	
	C (Coarse)	252	28	
	CC (Extra Coarse)	299	40	

\* DP2-A is Automatic & DP2-S is Semi Automatic

## CRUSHING CAPACITY AT VARIOUS CSS

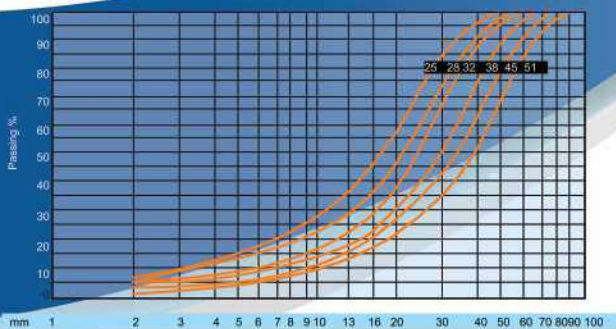
SIZE	Tone/Hour	6mm	8mm	10mm	13mm	16mm	19mm	22mm	25mm	32mm	38mm	45mm	51mm
DP1-A	T/H	45-52	47-57	52-66	57-76	66-85	71-90	76-95	80-104	95-133			
DP2-A	T/H			86-116	116-146	136-176	146-186	156-196	166-216	186-231	206-245		
DP3-A	T/H			110-136	146-180	176-216	196-236	216-256	226-276	246-316	296-376	246-436	
DP4-A	T/H			136-171	180-226	221-276	250-316	270-340	290-366	320-426	356-486	406-556	460-626

Note: Depending on rock properties capacity may vary by  $\pm 8\%$

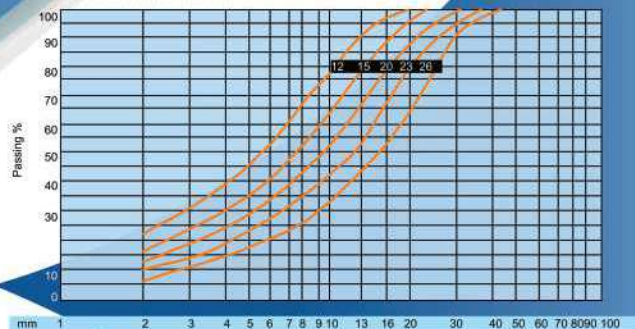
Cone crusher capacity charts are developed for use as an application tool to properly utilize the DPA series capabilities. The capacity figures shown apply to material weighing 100 pounds. Per cubic foot or 1600 kg per cubic meter. The crusher is one component of the circuit. As such, its performance is in part dependent on the proper selection and operation of feeders, conveyors, screen, supporting structure electric motors, drive components and surge bins. For specific conditions and further information, please contact.

## GRADATION CURVES

Medium Gradation Curve



Fine Gradation Curve



The gradation and capacities shown are dependent on the feed gradation, the crushing chamber, the material density, the material cleanliness, its moisture and its crush ability.



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