UNITEC CONE CRUSHER

The **UNITEC** Hydraulic cone crusher has been designed and developed as a secondary and tertiary crusher. This crusher offers numerous advantages, such as cubic ore shape, easily maintained and high crushing capacity.

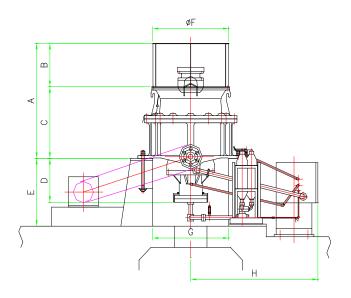
The crushed product is characterized by uniform grain size and power efficiency. Depending on the application, customers can select coarse, medium, fine or super fine types concave to obtain a crusher product which conforms to their own specifications.

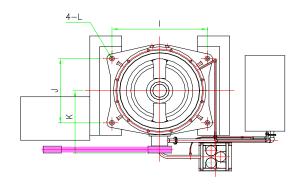


Unitec the new force in crushing equipment



UNITEC INSTALLATION DIMENSIONS





	UNC1000	UNC1200	UNC1350	UNC1500	UNC1650	UNC1800
Α	1790	2102	2290	2678	2808	3079
В	650	769	810	900	1000	1100
С	1140	1333	1481	1678	1808	1979
D	676	848	950	1035	1192	1385
E	1250	1328	1444	1600	1900	2050
F	1480	1776	1960	2160	2368	2568
G	1350	1506	1710	1915	2250	2500
Н	2400	2700	2900	3100	3480	3800
I	1750	2070	2310	2550	2850	3150
J	1250	1500	1680	1850	2100	2350
K	1118	1294	1476	1649	1985	2206
L	M36	M42	M48	M58	M64	M64

Notes: The above table is nominal dimensions.

Typical Specification

Main frame

In designing the top and bottom shells finite element analysis was used, with this method the shells were strengthened by adding circumferential as well as the standard integrally cast ribs. This enables the crusher to have greater resistance to the crushing forces, withstand distortion and rigidly maintain true alignment of the mechanical parts. The top and bottom frames are high quality carbon steel castings that have matching tapered faces. These are bolted together using fitted bolts to ensure the integrity of the assembly.

Head and mantle

The crushing head assembly consists of and homogenised main shaft, cast steel head and high manganese steel mantle line.

The main shaft and head are tapered to ensure a secure fit. The mantle is machined internally to match the head taper and locked into position by the torch ring and head nut.

Concave liner

The manganese concave liner is also machined to match the mainframe top shell and is bolted into position

Lower bearing

The lower bearing assembly consists of the carbon steel eccentric sleeve, leaded copper inner bush, leaded copper outer bush and a leaded bronze step bearing.

The leaded bronze thrust bearing is supported by a carbon steel bottom plate casting, which is designed to withstand the thrust loads produced by the spiral bevel gear fitted to the eccentric sleeve.

Drive shaft assembly

The horizontal drive shaft assembly is fitted with roller bearings housed in a cast steel sleeve.

This is designed to withstand the radial and thrust loads experienced during the crushing operation.

Spiral tooth bevel gears are also utilised to have a more efficient transmission of power and reduce noise levels

For ease of maintenance the sleeve is removed as a one piece unit by simply removing the bolts in the outer flange.

Machine Type & Capacity

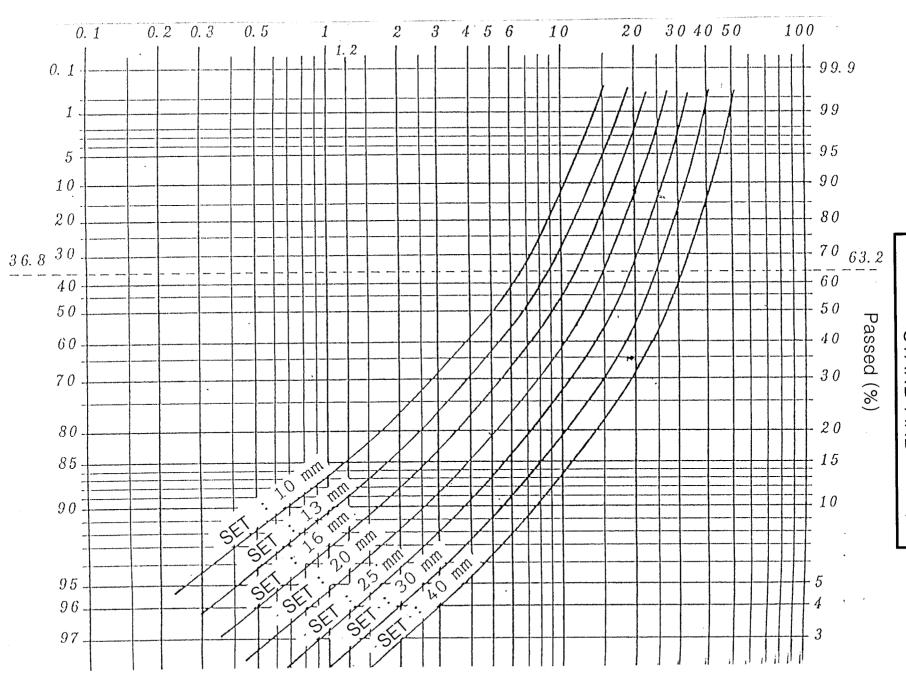
UNITEC CONE MODEL	F/O (mm)	Max. Feed size(mm)	Setting Range(mm)	Capacity (tph)	Motor(kw)	Drive Pulley PCD(mm)
UNC1000	270	215	25-40	155-195		, ,
UNM1000	200	160	15-25	119-148		
UNM1000	130	105	10-20	95-132		
UNF1000	100	80	10-15	88-107	110	470
UNC1200	320	255	25-40	222 205		
UNM1200	240	190	15-25	222-285 169-214		
UNF1200	160	130	10-20	134-186		
					450	400
UNF1200	120	95	10-15	128-155	150	490
UNC1350	360	290	25-40	282-360		
UNM1350	270	215	20-30	247-303		
UNM1350	180	145	13-25	191-268		
UNF1350	130	105	10-20	162-233	190	560
UNC1500	400	320	30-40	385-445		
UNM1500	300	240	20-30	307-375		
UNM1500	200	160	15-25	257-332		
UNF1500	150	120	13-20	230-292	220	580
UNC1650	450	360	30-40	465-540		
UNM1650	330	265	20-30	372-455		
UNM1650	220	175	15-25	310-405		
UNF1650	170	130	13-20	280-352	270	600
UNC1800	500	400	30-40	550-640		
UNM1800	360	290	20-30	440-540		
UNM1800	240	200	15-25	370-480		
UNF1800	180	140	13-20	330-420	330	600

NOTES

- Crushing capacity varies with properties and sizes of raw materials.

 The above table's capacities are based on clean, dry and brittle materials similar to limestone.
- Capacity based on materials having a bulk density of 1.6 and moisture.

Particle size(mm)



SIZE DISTRIBUTION
STAND ARD

UNITEC CROSS SECTION

