



QMS B-Series Crushers



Manufactured in the UK



QMS B-Series Crushers - The New Alternative

QMS manufacture a new cone crusher, a machine which delivers really significant benefits over and above those of your existing equipment.

B-Series Crushers are designed and manufactured by QMS in the U.K. B-series Cone Crushers deliver class leading performance, dependability, and ease of operation all backed by the excellent after sales service.

B-Series crushers combine robust design and high performance. A combination of high motor power, large throw and higher speed in most cases give these crushers capacities greater than other crushers of comparable size.

B-Series crushers meet exacting product quality demands. The crushers produce material of excellent shape and high quality. Setting adjustment can be made during production in seconds. The unique hydraulic system provides automatic overload protection by allowing the head assembly to drop, to permit the passage of tramp iron and other non crushable material. The system

then automatically returns the head assembly to its original position. The unique design of the hydraulic system means the crusher operates at a definite setting with less setting drift and greater stability throughout the circuit. The crusher setting is instantaneously maintained even after passing a piece of tramp iron.

B-Series crushers are available in standard and XC versions: The B-Series XC crusher is specifically designed for use in secondary crushing applications. It has very large intake capability and high capacity in relation to its size. This is achieved with a very long crushing chamber. To give optimal operation economy the long chamber is divided in three sections - upper concave, lower concave and mantle - which can be exchanged at different intervals. Replacing a conventional secondary cone crusher with a B-Series XC cone crusher will revolutionize the performance of the whole plant. The setting of the primary crusher can be increased, resulting in higher capacity, lower operation cost and higher reliability.



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Complete Crusher Control

The B-Series Crusher comes integrated with Complete Crusher Control (C3); this PLC system controls all aspects of the crushers operation. Operating the crusher could not be simpler. The automatic start up routine incorporates cavity calibration to compensate for liner wear; automatic adjustments are made to the crusher setting to give consistent and reliable product shape. Pressure and power in relation to load are automatically adjusted to suit rock properties, moisture etc. All influencing conditions are taken into consideration, 24 hours a day. C3 automatically monitors all health functions and provides the operator with information via the 14" touch screen HMI (Human machine Interface) This screen can be located anywhere and is networked to the C3 control via Ethernet connection.

C3 protects your Capital Investment

The remote touch screen gives full process control, and displays continual real time monitoring of all parameters, and logs all events and alarms. The operating hours of the crusher can be seen at a glance, both on and off load. Energy costs can be calculated as C3 records Kilowatt hours used. The touch screen pc also stores pdf versions of all operator manuals, spare parts list, and electrical layouts. C3 also includes the main and auxiliary starters, eliminating the need for any third party electrical equipment.

As C3 is an integrated part of the crusher system it also eliminates nearly all of the local electrical installation work. The only requirement is for power to be connected.



Benefits of QMS B series Crusher

- In designing this new crusher, operators' feedback and our long experience of servicing other manufacturers crushers has been taken into consideration. Easy maintenance is an issue we take particularly seriously, hundreds of design details make servicing and installation easy.
- Change wear and spare parts with minimum downtime. For example, the liners of B3 crusher do not require any backing material like plastic epoxy or zinc. This saves the time usually spent mixing, pouring and waiting for the curing to take place, whilst also increasing safety for your maintenance staff.
- Variable eccentric throw and a range of crushing chambers provide maximum versatility allowing configurations to suit all product requirements.
- B-Series crushers generate downstream process savings in cost and efficiency, thanks to better reduction,

promoted by a new chamber design and by the use of C3 Complete crusher control.

- Several crushing chambers are available:

Standard Cavity Types

EF = Extra fine	F = Fine
MF = Medium fine	M = Medium
MC = Medium coarse	C = Coarse
EC = Extra coarse	

XC Cavity Types

C= Coarse	EC= Extra Coarse
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One top shell is used for all crushing chambers.

- B-series crushers are designed to give high performance in relation to their size and weight.

Performance and Economy

Crushers are competitively priced with the following features included in the purchase price:

- B-Series Cone Crusher
- Drive Motor
- Drive and Guards
- Support Frame
- Lubrication and Hydraulic System
- C3 Control System
- Mains Electrical Starter Panel

Weights

Description	Crusher Size (Kg)			
	B3	B3-XC	B4	B4-XC
Hopper Assembly	311	311	450	500
Topshell Assembly including C Concave	2980	4790	4860	7600
Bottom Shell Assembly Including Eccentric & Hydraulic Cylinder	3510	3510	5800	5800
Main Shaft Assembly Including Mantle	2195	2700	3500	5100
Counter Shaft Assembly	250	250	310	310
Electric Drive Motor	1185	1185	1185	1185
Live Frame Assembly	1080	1080	1650	1650
Cooler Assembly	58	58	98	98
Lubrication Tank Assembly Excluding Oil	370	370	500	500
Total Weight Excluding Oil Tank & Cooler	11511	12826	17755	22145

Capacities

B3 Crusher Capacity (tons per hour) Open Circuit

Cavity Type	Motor Power		Max Feed Size mm	Closed Side Setting (mm)									
	KW	HP		6	8	10	13	16	19	22	25	32	38
EF	162	210	25	For Extra Fine Crushing please contact QMS									
F	162	210	45	45-80	45-103	50-130	55-100	60-110	65-110	65-100	70-80		
MF	162	210	60		55-65	60-130	65-120	70-130	75-130	80-120	85-95		
M	162	210	80		55-70	60-90	65-150	70-150	75-160	80-170	85-160	100-110	
MC	162	210	105			50-60	55-90	60-160	65-187	70-190	75-200	90-150	
C	162	210	135				65-150	65-170	70-180	75-190	80-210	90-210	100-160
EC	162	210	170				65-110	70-170	75-180	80-200	85-230	100-236	110-243

B3- XC Crusher Capacity (tons per hour)

Cavity Type	Motor Power		Max Feed Size (mm)		Closed Side Setting (mm)										
	KW	HP	AF	TS	19	22	25	29	32	35	38	41	44	48	51
C	132	150	210	300	99	108-135	116-145	127-200	135-254	144-270	152-285	161-301	169-264	180	
HC	162	210	250	360		117	126	138-173	147-230	156-244	165-310	174-327	183-344	196-306	205-256

B4 Crusher Capacity (tons per hour) Open Circuit

Cavity Type	Motor Power		Max Feed Size mm	Closed Side Setting (mm)												
	KW	HP		8	10	13	16	19	22	25	29	32	35	38	41	44
EF	250	300	25	For Extra Fine Crushing please contact QMS												
F	250	300	45	90-135	96-170	104-190	112-206	120-221	129-236	137-250	148-208					
MF	250	300	60		114	124-227	134-245	144-263	453-281	163-300	176-264	186-248				
M	250	300	80			117-187	126-278	136-298	145-318	154-340	166-300	176-281	185-222			
MC	250	300	105			97-122	105-262	113-282	120-301	128-320	138-346	146-328	154-307	161-242		
C	250	300	135				109-218	117-292	125-312	133-332	143-359	151-378	159-359	167-335	175-263	
EC	250	300	170				114-200	122-276	131-294	139-313	150-338	159-357	167-380	175-395	184-413	192-384

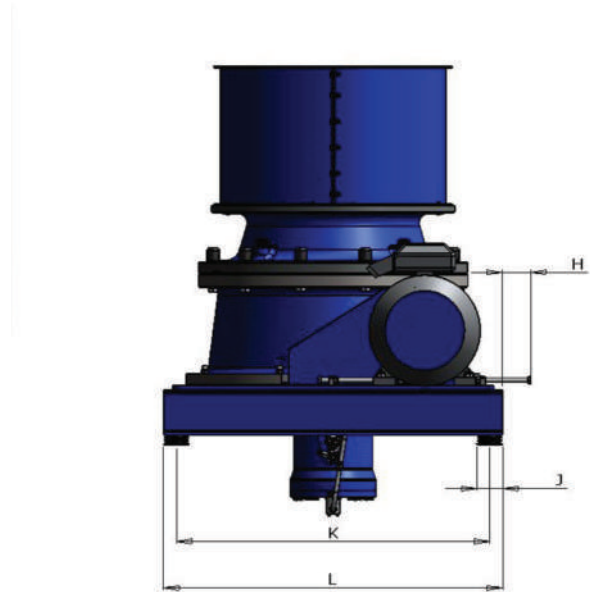
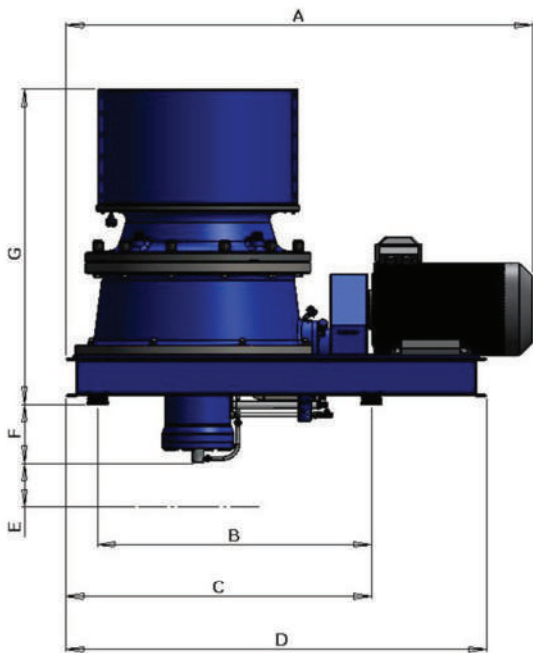
B4- XC Crusher Capacity (tons per hour)

Cavity Type	Motor Power		Max Feed Size (mm)		Closed Side Setting (mm)									
	KW	HP	AF	TS	25	29	32	35	38	41	44	48	51	54
C	162	150	270	400	205	225-281	239-300	544-381	269-405	284-511	298-450	318-400	333	
HC	250	210	300	450		236	251	267-333	298-450	298-450	313-470	334-600	349-525	365-455



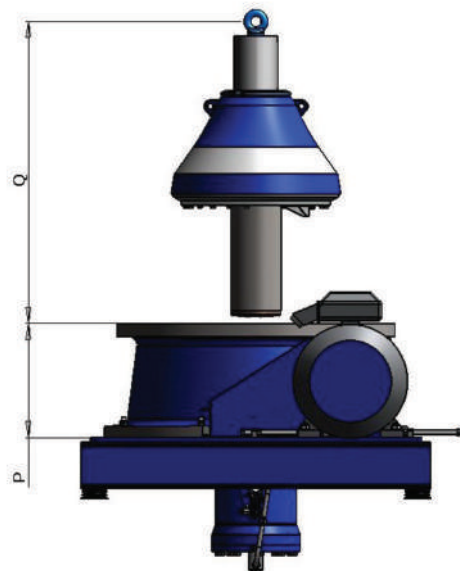
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QMS B-Series Crushers Technical Data



Dimensions

Dimensions	Model			
	B3	B3-XC	B4	B4-XC
A	3220	3220	3553	3553
B	1890	1890	-	-
C	2108	2108	-	-
D	2900	2900	3475	3475
E	300	300	500	500
F	407	407	520	520
G	2177	2740	2520	3175
H	372	372	372	372
J	163	163	163	163
K	1804	1804	2052	2052
L	1950	1950	2200	2200
P	640	640	745	745
Q	1750	2020	2000	2420



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