

BC Bucket Crusher

Concrete production rose dramatically in the 1950s and reached its high point at the start of the 1970s. Based on an average service life of structures of 50 to 70 years, there will be a drastic increase in the quantity of demolition material in the first 20 years of this century.

The EU directive on waste management (Nov 2008) sets a recycling quota of 70% for construction and demolition waste by year 2020. The European Union directive on waste management has set a recycling quota of 70 percent for construction and demolition waste by year 2020. Atlas Copco's line of bucket crushers is an innovative answer to crushing requirements on today's worksite.

Using a rig-mounted bucket crusher, all types of inert material—asphalt, stone and concrete debris, as well as mine, quarry and trench material—can be crushed, re-used on site or sold. This process requires less mechanical equipment on site, less transportation and dumpsite cost. Only one operator handles the demolition attachment as well as the bucket crusher.

The four bucket crushers are engineered with a wide aperture bucket and large capacities. The output size adjusts from 0.5 to 4.75 inches or from 0.5 to 4 inches in the BC 1500. The bucket jaws, which receive the most weight, can be inverted. The top and bottom jaws can be replaced or single jaws can be rotated by 180 degrees. Models weigh from 3,307 to 10,803 pounds and may be used on carrier classes from 26,455 to 132,277 pounds.

Targeted recycling machines and equipment turn mechanized recycling into a fast, cost effective and precision process. Crushed material can be directly re-used on site or sold to third parties. A bucket crusher can handle all types of inert material and is designed to work in construction, demolition and trenching worksites. The crushers also produce re-usable material, saving operators from spending on transportation and dumpsite expenses.

The use of a traditional crusher is often hindered by its size. Bucket crushers can be an alternative at urban worksites and in confined spaces. The bucket crushers' ability to pulverize asphalt, concrete and stone in small spaces eliminates the need for additional crushing equipment.

The bucket crushers provide efficient crushing at large volumes. Output can be customized—size can be adjusted from 15-120 mm with an operating pressure minimum of 3,336 psi. The bucket crushers are versatile and can fit any excavator larger than 12 tons.

The bucket crushers are low-maintenance, with two grease points, and 30-hour greasing intervals recommended by Atlas Copco.

In addition to the environmental benefits of recycling, Atlas Copco BC-model hydraulic bucket crushers reduce the overall cost of a job by reducing the amount of equipment needed on site and saving on transportation and dumpsite expenses. They are designed for use at all construction, demo or trenching worksites and are even effective in tight workspaces.

LOWER COST OF OWNERSHIP
Robust design and a long service life even under extreme stresses.

EFFICIENT CRUSHING, BIG VOLUME
Wide aperture bucket with large capacity.

LONG-LASTING JAWS
Bucket jaws can be inverted. Top and bottom jaws can be exchanged or single jaws can be rotated by 180 degrees to also use the rear part.



LOW-MAINTENANCE
30 hour greasing interval and only two grease points.

VERSATILE
Fits to any excavator larger than 12 tonnes.

CUSTOMIZED OUTPUT
Output size can be easily adjusted from 20-120 mm (BC 1500: 100 mm).

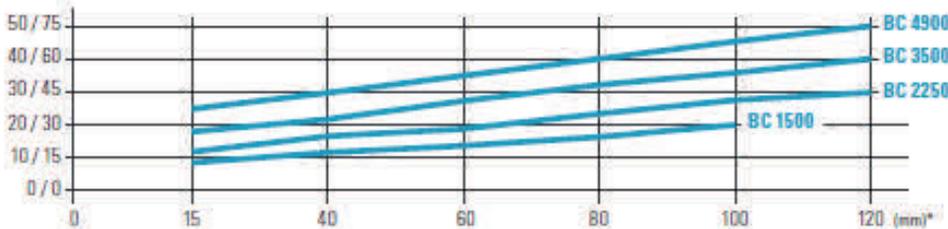
Technical data

Bucket Crusher		BC 1500	BC 2250	BC 3500	BC 4900
Carrier weight class	t	12-25	17-34	25-34	34-60
Service weight	kg	1,500	2,250	3,500	4,900
Oil flow	l/min	120-280	150-280	180-280	220-280
Operating pressure min.	bar	230	230	230	230
Dimensions (W x L x H)	cm	105 x 180 x 120	108 x 208 x 125	135 x 215 x 143	165 x 215 x 145
Loading opening (L x H)	cm	600 x 450	700 x 550	900 x 510	1,200 x 510
Loading capacity	m ³	0.5	0.6	0.8	1
Output adjustment	mm	15-100	15-120	15-120	15-120
Part number		3382050000	3382050030	3382050050	3382050080



PRODUCTION ON MEDIUM TENACITY MATERIAL (UNDER OPTIMAL CONDITIONS)

(m³/h / ton/h)**



	m ³ /h	ton/h										
BC 4900	25.0	37.45	30.0	45.0	35.0	52.5	40.0	60.0	45.0	67.5	50.0	75.0
BC 3500	18.0	27.0	22.4	33.6	26.8	40.2	21.2	46.8	35.6	53.4	40.0	60.0
BC 2250	12.0	18.0	15.6	23.4	19.2	28.8	22.8	34.2	26.4	39.6	30.0	45.0
BC 1500	9.1	13.65	11.7	17.55	14.4	21.6	17.1	25.65	19.8	29.7	-	-

*Output opening adjustment in mm. **Values ton/h calculated considering an estimated weight of material 1,5 ton/m³. The result may also vary according to carrier condition, operator ability and other factors that the bucket crusher cannot influence.