



CR20/CR28 CR35/CR50

Concrete Crushers



CR28



Crusher Model	Cat Excavator
CR20	320B 322B

Crusher Model	Cat Excavator
CR28	325B 330B 345B 350

Crusher Model	Cat Excavator
CR35	345B 350
CR50	375 375*

*GP Boom.

Cat® CR20, CR28, CR35, CR50 Concrete Crushers

Most productive tools for demolishing thick, large diameter, reinforced concrete structures.

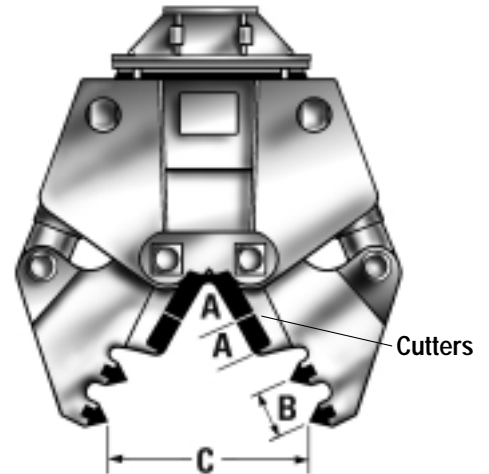
Cat Concrete Crushers are designed to quickly demolish reinforced concrete structures such as bridge decks, parking garages, support columns and abutments with a thickness or diameter up to 5 feet (150 cm).

The knives mounted in the throat of the crushers are perfectly capable of cutting rebars and lighter steel profiles in the concrete. This eliminates the need for torching the steel.

All crushers are equipped with a large diameter top mounted 360° rotator. This feature significantly enhances productivity by enabling the operator to quickly position the crushers over the structures to be demolished, whatever their angle or position.

The hydraulic rotator is protected by a pressure relief valve and two small accumulators to prevent excessive hydraulic pressures from damaging excavator sticks/booms.

Two powerful hydraulic cylinders provide the exceptional crushing force of the tools. The cylinders are equipped with swivel bearings. Oil supplied through the cylinder rod pushes the cylinder housing out when closing the jaws. This leaves the rod well inside the crusher body at all times.



Each crushing arm has 2 cutters and 2 crushing teeth

Model CR20			
A	350 mm (2 X 175 mm)		
	14" (2 X 7")		
B	150 mm	6"	
C	Opening 720 mm		28.3"

Model CR28			
A	400 mm (2 X 200 mm)		
	15.8" (2 X 7.9")		
B	240 mm	9.5"	
C	915 mm		36"

Model CR35			
A	500 mm (2 X 250 mm)		
	19.6" (2 X 9.8")		
B	280 mm	11"	
C	1190 mm		46.8"

Model CR50			
A	700 mm (2 X 350 mm)		
	28" (2 X 14")		
B	260 mm	10.4"	
C	1620 mm		64.8"



Specifications

All dimensions are approximate.

MODEL	CR20	CR28	CR35	CR50
Approximate service weight, excluding mounting bracket	2,300 kg 5,080 lb	3,100 kg 6,850 lb	4,200 kg 9,300 lb	7,000 kg 15,450 lb
Length excluding mounting bracket	2110 mm 83 in	2320 mm 91.3 in	2510 mm 98.8 in	3440 mm 135.4 in
Jaw opening (maximum)	720 mm 28.3 in	915 mm 36.0 in	1190 mm 46.8 in	1600 mm 63 in
Jaw depth	630 mm 24.8 in	750 mm 29.5 in	830 mm 32.6 in	880 mm 34.6 in
Maximum crushing force				
Tip	719 kN 81 st	784 kN 88 st	833 kN 93.6 st	1628 kN 183 st
Middle tooth	882 kN 99 st	1088 kN 122 st	1128 kN 127 st	2100 kN 236 st
Maximum shearing force				
Cutting center	2795 kN 314 st	3080 kN 346 st	4787 kN 538 st	6857 kN 770 st
Maximum oil flow -				
Hydraulic cylinder	180 L/min 48 gpm	350 L/min 93 gpm	350 L/min 93 gpm	579 L/min 153 gpm
Cycle time*	7.3 sec	4.8 sec	6.2 sec	10.8 sec
Rotation	20 L/min 5 gpm	20 L/min 5 gpm	20 L/min 5 gpm	20 L/min 5 gpm
Maximum working pressure -				
Hydraulic cylinder	34 300 kPa 4980 psi	34 300 kPa 4980 psi	34 300 kPa 4980 psi	34 300 kPa 4980 psi
Rotation	17 200 kPa 2465 psi	17 200 kPa 2465 psi	17 200 kPa 2465 psi	17 200 kPa 2465 psi
Hydraulic rotation continuous	360°	360°	360°	360°
Approximate base machine operating weight	20 000 kg 44,000 lb	28 000 kg 62,000 lb	35 000 kg 77,000 lb	50 000 kg 110,000 lb

*Cycle time may vary due to machine configuration and operating conditions.

Matching Guide

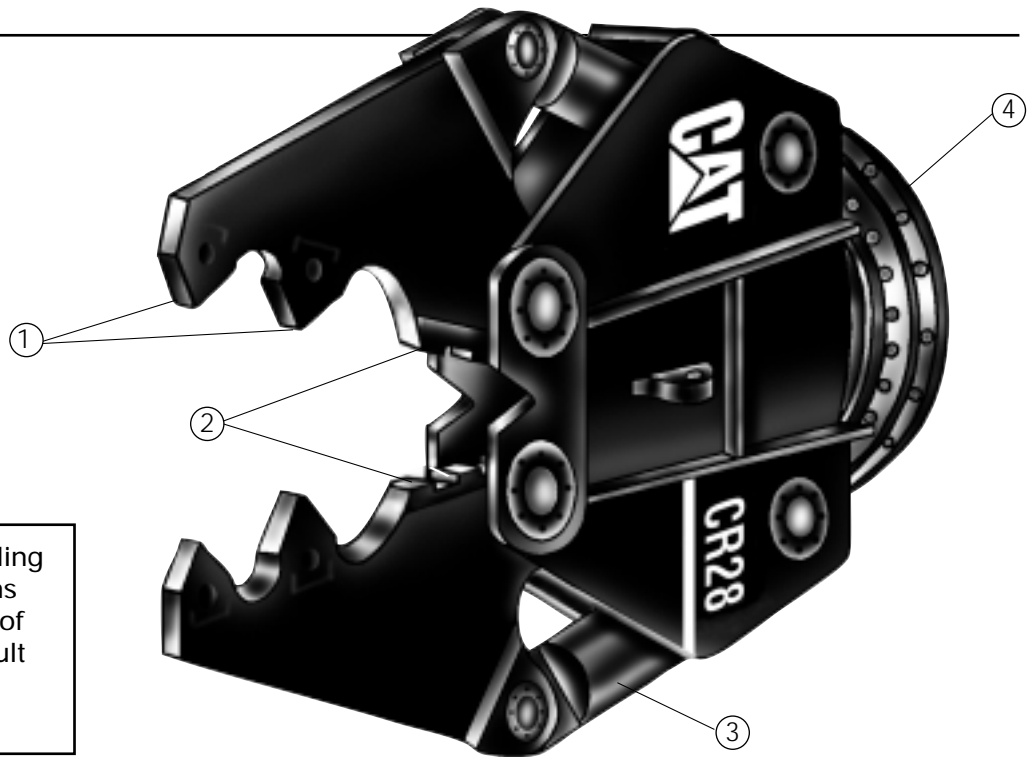
Stick Mounted / Reach Boom

Crusher				Crusher			
Model	Cat Excavator	Stick Range meters	feet	Model	Cat Excavator	Stick Range meters	feet
CR20	320B	1.9 - 3.9 m	6' 3" - 12' 10"	CR35	345B	2.9 - 3.9 m	9' 6" - 12' 10"
	322B	2.0 - 3.6 m	6' 7" - 11' 10"		350	3.1 - 4.05 m	10' 2" - 13' 3"
CR28	325B	2.0 - 3.2 m	6' 7" - 10' 6"	CR50	375	2.9 - 5.5 m	9' 6" - 18' 1"
	330B	2.15 - 3.9 m	7' 1" - 12' 10"		375*	2.9 - 5.5 m	9' 6" - 18' 1"
	345B	4.8 m	15' 9"				
	350	4.8 m	15' 9"				

*GP Boom.

Concrete Crushers

Replaceable crushing teeth and rebar cutters optimize productivity and minimize downtime.



Caterpillar recommends falling object guards in applications where there is a possibility of falling objects. Please consult your Caterpillar dealer for these guards.



- ① **Four Bolted/welded on replaceable** crusher teeth of special alloy steel with high abrasion resistance. They can be built up or replaced.
- ② **Four Replaceable rebar cutters** with rotatable edges in the throat area. The cutters have four cutting edges each, which can all be used before the knives need be replaced.
- ③ **Cylinder** with oil supplied through the rod, pushes the cylinder housing out when closing the jaws. This leaves the rod protected inside the housing.
- ④ **Large diameter slewing ring** optimizing the strength of the rotation system.

© 1999 Caterpillar
Printed in U.S.A.

Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
See your Caterpillar dealer for available options.

GEHQ0164

CATERPILLAR®