

MP15, MP20, MP30, MP40

Multi-Processors for Hydraulic Excavators



Features

Speed

360 degree rotation

Flexibility

Efficiency

Long lifetime

Benefits

The single large diameter, cross-mounted cylinder with speed valve provides exceptional cutting and crushing force.

The Multi-Processor features hydraulic 360 degree rotation; the unit can attack material to be demolished from virtually any angle, minimizing the need to move the base carrier.

Each Multi-processor can be equipped with a wide selection of interchangeable jaws. With one common housing and properly selected sets of jaws a contractor can achieve exceptional flexibility with minimum investment, accomplishing most tasks encountered on a demolition job. With a mounting bracket this tool can be exchanged among several carriers and in combination with the dedicated CW quick coupler a swap between other Cat work tools can happen in a matter of seconds.

The various jaws can be quickly installed or changed due to the well placed lifting eyes and adjustable stop bolts on the jaws and the housing.

Cat work tools are designed to last long. Precision machined and forged parts, wear protection and stress-relieved plates as well as the fully protected cylinder provide a long lifetime of low cost production.

Concrete Cutter Jaws and Shear Jaws

Specifications and Dimensions

		Concrete Cutter Jaws				Shear Jaws			
		MP15	MP20	MP30	MP40	MP15	MP20	MP30	MP40
Weight total – housing, jaw and bracket	kg	1800	2600	3600	5800	1800	2600	3600	5800
Weight of the jaw	kg	650	1000	1300	2200	650	1000	1300	2200
Length	mm	2200	2400	2800	3500	2100	2250	2700	3400
Height	mm	1510	1750	1980	2340	1310	1510	1680	1980
Width	mm	800	800	1010	1180	800	800	1010	1180
Jaw width (fixed)	mm	300	360	380	460	300	320	370	460
Jaw width (moving)	mm	100	130	130	160	80	100	120	150
Jaw opening	mm	670	820	975	1280	350	420	470	630
Jaw depth	mm	670	790	890	1100	480	580	710	880
Cutter-length	mm	400	460	520	600	400	520	600	760
Maximum crushing/shear force									
Tooth-jaw tip	kN	700	950	1250	1500	900	1200	1600	1900
Front cutter tip	kN	1000	1400	1850	2200	–	–	–	–
Primary blade center	kN	2200	3000	4100	4400	2100	2900	3750	4750
At throat	kN	–	–	–	–	4200	5800	7100	8950
Maximum oil flow									
Hydraulic-cylinder	l/min	150	200	300	400	150	200	300	400
Cycle time (open, close, open)	sec	5	6	6.5	7.5	5	6	6.5	7.5
Rotation	l/min	40	40	40	80	40	40	40	80
Maximum working pressure									
Hydraulic-cylinder	bar	350	350	350	350	350	350	350	350
Rotation	bar	140	140	140	140	140	140	140	140
Cutting Capacity									
Narrow I-beams									
Height	mm	300	400	500	600	300	400	500	600
Flange width	mm	150	180	200	600	150	180	200	600
Flange thickness	mm	10.7	13.5	16.0	19.0	10.7	13.5	16.0	19.0
Web thickness	mm	7.1	8.6	10.2	12.0	7.1	8.6	10.2	12.0
Wide I-beams									
Height	mm	190	250	310	390	190	250	310	390
Flange width	mm	200	260	300	300	200	260	300	300
Flange thickness	mm	10	12.5	15.5	19.0	10	12.5	15.5	19.0
Web thickness	mm	6.5	7.5	9.0	11.0	6.5	7.5	9.0	11.0
Solid-round	mm	65	80	90	100	65	80	90	100
Solid-square	mm	60	70	80	90	60	70	80	90



Tank Shear Jaws and Crusher Jaws

Specifications and Dimensions

		Tank Shear Jaws			Crusher Jaws		
		MP20	MP30	MP15	MP20	MP30	MP40
Weight – housing, jaw and bracket	kg	2600	3700	1800	2600	3600	5800
Weight of the jaw	kg	1000	1400	650	1000	1300	2200
Length	mm	2400	2800	2200	2350	2770	3500
Height	mm	1750	2100	1510	1750	1980	2380
Width	mm	800	1180	800	800	1010	1180
Jaw width (fixed)	mm	290	340	300	360	380	460
Jaw width (moving)	mm	120	150	100	130	130	160
Jaw opening	mm	440	510	710	850	1050	1320
Jaw depth	mm	460	580	700	770	920	1100
Cutter length	mm	460	580	200	260	260	250
Maximum shear force							
At tip	kN	1400	1900	–	–	–	–
A jaw center	kN	2200	4000	–	–	–	–
At throat	kN	4400	6350	–	–	–	–
Cutting capacity plate steel	mm	25	30	–	–	–	–
Maximum crushing/shear force							
Tooth-jaw	kN	–	–	700	950	1250	1500
At 2nd tooth	kN	–	–	950	1350	1750	2200
Primary blade center	kN	–	–	2100	2900	380	4650
Maximum oil flow							
Hydraulic cylinder	l/min	200	300	150	200	300	400
Cycle time (open, close, open)	sec	6	6.5	5	6	6.5	7.5
Rotation	l/min	40	40	40	40	40	80
Maximum working pressure							
Hydraulic cylinder	bar	350	350	350	350	350	350
Rotation	bar	140	140	140	140	140	140



Primary and Secondary Pulverizer Jaws

Specifications and Dimensions

		Primary			Secondary			
		MP15	MP20	MP30	MP15	MP20	MP30	MP40
Weight – housing, jaw and bracket	kg	1900	2750	3700	1850	2650	3650	6000
Weight of the jaw	kg	750	1150	1400	700	1050	1350	2400
Length	mm	2220	2325	2800	2250	2450	2950	3650
Height	mm	1590	1775	1980	1650	1900	2200	2550
Width	mm	800	800	1010	800	800	1010	1180
Jaw width (fixed)	mm	480	540	610	440	500	580	700
Jaw width (moving)	mm	280	340	370	310	360	420	480
Jaw opening	mm	700	800	960	730	890	1100	1400
Jaw depth	mm	700	800	940	670	800	970	1170
Cutter length	mm	200	200	250	200	200	200	–
Maximum crushing/shear force								
Tooth-jaw	kN	650	950	1250	750	1000	1200	1500
At 2nd tooth	kN	900	1300	1550	1000	1300	1550	1900
Primary blade center	kN	2100	2750	3950	2200	3000	4800	5500
Maximum oil flow								
Hydraulic cylinder	l/min	150	200	300	150	200	300	400
Cycle time (open, close, open)	sec	5	6	6.5	5	6	6.5	7.5
Rotation	l/min	40	40	40	40	40	40	80
Maximum working pressure								
Hydraulic cylinder	bar	350	350	350	350	350	350	350
Rotation	bar	140	140	140	140	140	140	140

Matching Guide

Multi-Processors

MP15 CC, S, CR, PP, PS

Hydraulic Excavators

315C, 318C, 319C, 319D,
320C/320D, 321C, 323D, 322C,
324D, M313C/M313D, 329D, 336D
M315C/M315D, M316C/M316D,
318C, M322C/M322D,
UHD: 325C/ 325D, 330C/330D,
345C, 365C, 385C, DEM50

MP20 CC, S, TS, CR, PP, PS

3320C/320D, 322C, 323D,
324D, 325C/325D, 329D, 336D
330C/330D, 318C, M322C,
UHD: 325C, 325D, 330C, 330D,
345C, 365C, 385C, DEM50

MP30 CC, S, TS, CR, PP, PS

325C/325D, 330C/330D, 345C,
329D, 336D, UHD: 385C

MP40 CC, S, CR, PS

345C, 365C, 385C

CC Concrete Cutter Jaws
S Shear Jaws
TS Tank Shear Jaws

CR Crusher Jaws
PP Primary Pulverizer Jaws
PS Secondary Pulverizer Jaws



Hydraulic Requirements

Two way hydraulic high pressure lines for opening/closing and two way hydraulic medium pressure lines for rotation controlled by joystick in the cab or pedal according to customer's choice.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

HEHX3154-3 (05/2010) hr

© 2010 Caterpillar -- All Rights Reserved

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

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE™ trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

CATERPILLAR[®]
TODAY'S WORK. TOMORROW'S WORLD.™