

MP300 Multi-Processor / Machine Compatibility

Contact your Cat dealer for specific machine configurations.

Model	Machines
MP318	318E, 319D, 320D/E, 320D/E RR, 321D CR, 323D/E, 324D/E M315D, M316D, M318D, M322D, M318D MH, M322D MH DEM50, DEM70, DEM100
MP324	323D, 324D/E, 328D CR, 329D/E, 336D/E DEM50, DEM70, DEM100

Return on investment

With fast jaw exchange and cycle times, the MP300 makes savings right down the line, improving the total return on investment:

- Speedbooster technology speeds up cycle times, raising productivity
- Easier jaw exchange encourages operators to always use the most effective tool
- Choice of jaws for the same housing means fewer machines to do the job
- Maintenance is easier and faster, so service costs go down and time in the field goes up
- Jaws last longer, reducing capital investment, and replaceable wear parts can be easily replaced to keep production going

It all adds up to faster operation and a quicker return on investment.

See MP300 Multi-Processor in action.



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FAST DEMOLITION

MP300 series Multi-Processors –
the new performance standard



Fast, **SUSTAINABLE** Demolition

When a structure must be demolished, it has to be done quickly – and sustainably. The new Cat MP300 Multi-Processors let you do exactly that.

REALLY FAST: New, patented SpeedBooster technology halves jaw open/close cycle times, while maintaining the industry's most powerful closing force. So cutting and crushing is even faster! And a new, patent-pending jaw locking system means that jaws can be installed or changed in less than 10 minutes. All that's needed are some basic tools. The hydraulics are better protected, and maintenance is easier and quicker too – boosting uptime in the field.

MORE SUSTAINABLE: With six jaw options the MP300 series meets every demolition need, separating waste materials for recycling or disposal as the work proceeds. It's a highly effective solution for both primary and secondary demolition, whether crushing reinforced concrete or cutting steel tanks, steel plate, angle iron or channel iron. Easily replaceable wear parts and robust construction extend the useful service life.

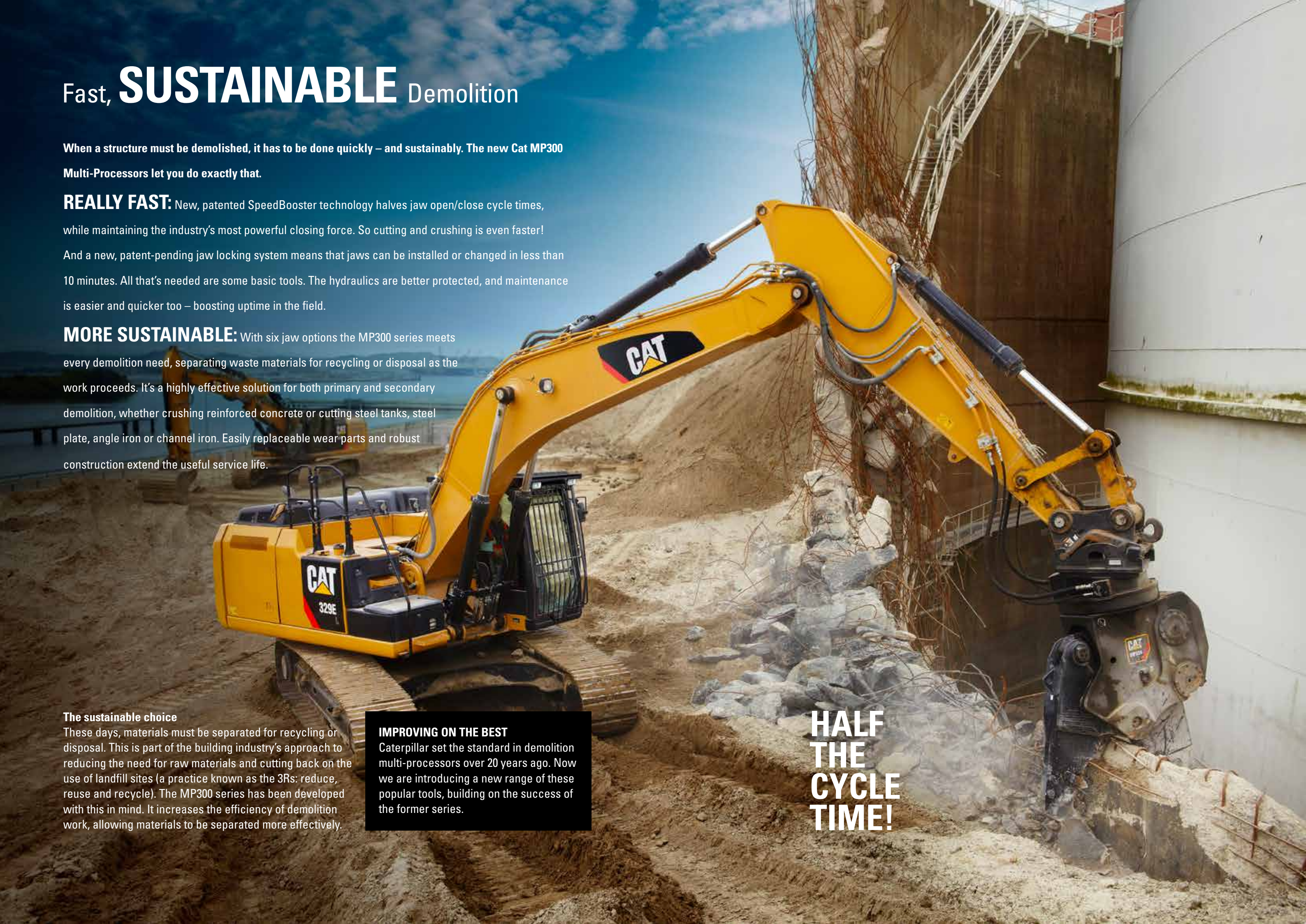
The sustainable choice

These days, materials must be separated for recycling or disposal. This is part of the building industry's approach to reducing the need for raw materials and cutting back on the use of landfill sites (a practice known as the 3Rs: reduce, reuse and recycle). The MP300 series has been developed with this in mind. It increases the efficiency of demolition work, allowing materials to be separated more effectively.

IMPROVING ON THE BEST

Caterpillar set the standard in demolition multi-processors over 20 years ago. Now we are introducing a new range of these popular tools, building on the success of the former series.

**HALF
THE
CYCLE
TIME!**



SPEEDBOOSTER – a unique combination

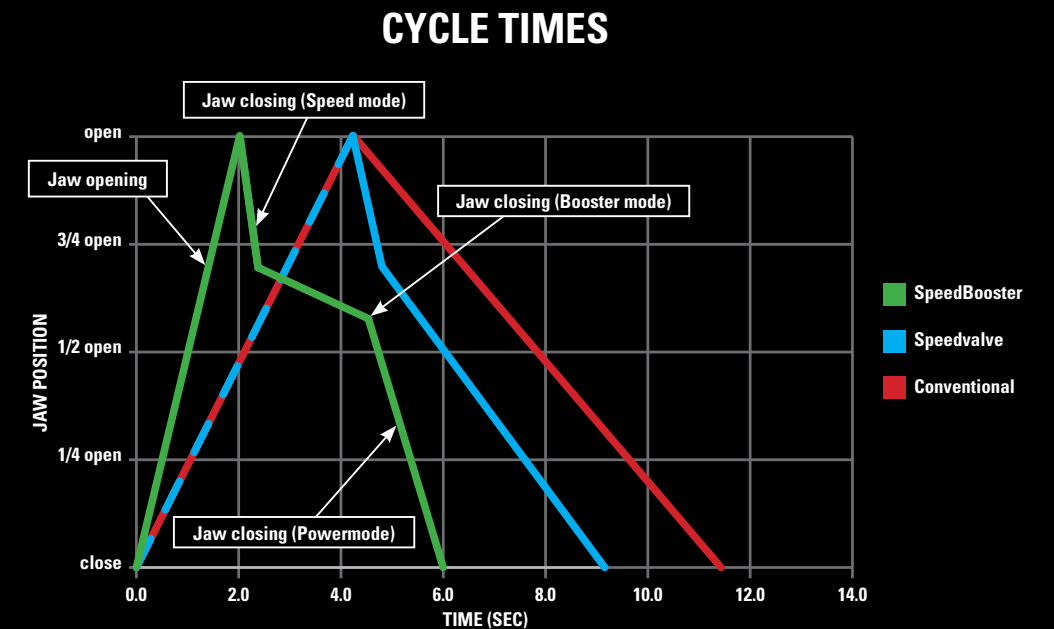
The new Cat MP300 Multi-Processors are in a class of their own. At the heart of the new design is Cat's patented SpeedBooster, which integrates both Speedvalve technology and Boostervalue technology into a single solution. This unique approach delivers the shortest possible cycle time combined with the highest possible closing force. And that means another leap forward in productivity!

Proven technology

Speedvalve is used in Cat's current demolition products and is proven technology for delivering a faster closing cycle. Boostervalue has been extensively tested over many years and is also a proven and reliable technology for increasing the cylinder pressure. SpeedBooster combines the benefits of both technologies and improves the cycle times of the Multi-Processors.

SpeedBooster operates in three modes: Speed mode, Power mode, and Booster mode; so it will give you speed when you need it, power where you need it and a combination of the two when the job calls for the optimization of both.

**SAVE TIME
WITH EVERY
BITE**



SPEEDBOOSTER IMPROVES THE CYCLE TIMES OF THE MULTI-PROCESSORS.

**With SpeedBooster technology
the Cat MP300 series sets a
new performance standard for
demolition equipment!**

In addition to faster cycle times and up to 6% more closing force, the Cat MP300 Multi-Processor incorporates several other enhancements aimed at increasing efficiency and productivity.

A jaw for every task

With one common housing and six different jaws to choose from, contractors have real flexibility for the minimum investment. Almost all tasks encountered on a demolition job can be accomplished with this set of jaws.

CC	Concrete cutter	Cuts and crushes heavily reinforced concrete
D	Demolition	Cuts and crushes moderately reinforced concrete
P	Pulverizer	Demolishes and crushes the concrete of smaller buildings in one operation
S	Shear	Cuts and reduces iron channels, pipes and sections
TS	Tank Shear	Cuts up steel tanks and plates
U	Universal	Cuts concrete into small chunks for separate crushing in a mobile crusher

A wide selection of jaws

More efficient, more
PRODUCTIVE

10'
RAPID JAW
EXCHANGE

Easy jaw exchange
The MP300 housing features a new patent-pending jaw locking system. It now takes less than 10 minutes to change the jaws. And it's easier, not just faster! So an operator rather than a mechanic can do it using just basic tools. That makes operators more productive and more effective on site.



DESIGNED to impress

The design of the new MP300 is compact and yet stronger than ever, for powerful cutting and crushing.

Easier maintenance

Maintenance has been made easier too. Daily servicing requires only greasing (and there are now fewer points to grease), checking for wear, and replacing any worn parts.

Rugged construction

The MP300 has less welds, easily replaceable parts, and fewer stress areas in construction, so they are less sensitive to damage and fatigue. Protection for hydraulic components and hoses has been increased, and there's an improved motor guard. Access to the cylinder is now easier and cylinder rod protection has been optimised.

Replaceable wear parts

Instead of using surface welds, the new jaws have replaceable wear parts that are easy to exchange. Once worn, they can be quickly removed and a new part easily replaced on-site. This consumes less time than having to send the jaw to the workshop for cleaning, grinding and re-welding. All replaceable wear parts are from a Cat designed wear package and those with jaws that have common parts use Cat GET.

- ❶ Robust 360° Rotator for easy positioning
- ❷ Patent pending jaw locking system
- ❸ Unique patent pending SpeedBooster technology for short cycle times and high force
- ❹ Easy to replace wear parts
- ❺ Easy to replace jaw sets (within minutes)

Current MP15 and MP20 jaws can of course be used on the MP300 frame (there is a conversion kit). It also works with our Auto-Connect system (there's a bracket).

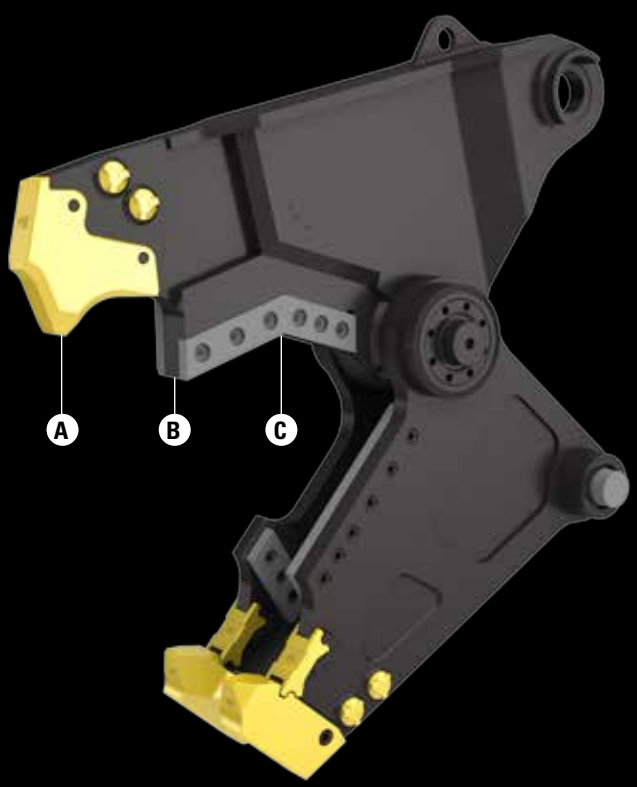
BUILT FOR IT.™



CC (Concrete Cutter) Jaw

Concrete Cutter jaws cut and crush heavily reinforced concrete and steel structures precisely. These combi-cutters can demolish large pieces of heavily reinforced concrete with densely packed rebar and steel beams, all at the same time.

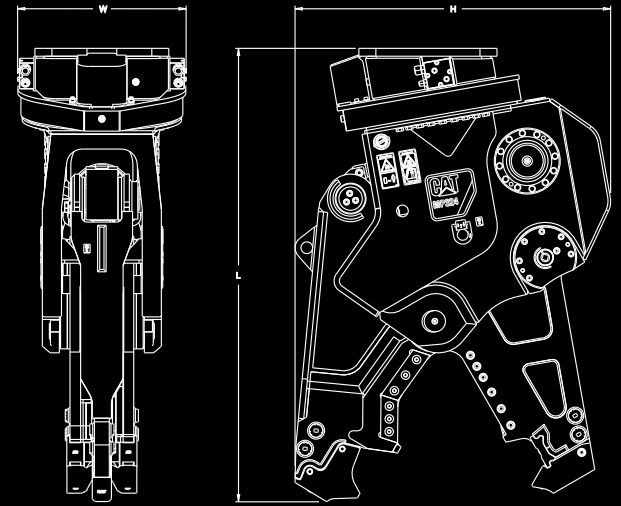
Replaceable parts
Replaceable crusher teeth on the lower part of the jaw easily reduce thick concrete. Straight-line knives in the lower jaw work with the angled cutting edge in the upper jaw to maximize the effective rebar cutting force. The cutters are reversible with a balanced hardness and yield/tensile strength to minimize wear. Replaceable wear plates on the front plate of the top and lower jaw protect the base metal.



Weight and Dimensions

		MP318	MP324
Width (W)	mm	793	793
Hight (H)	mm	1298	1486
Length (L)	mm	1972	2131
Weight* housing, jaw	kg	1930	2610
Weight jaw	kg	750	1030
Jaw Depth	mm	650	760
Max. Jaw opening	mm	685	830
Tooth tip (A)	t	75	105
Cutter tip / tooth (B)	t	110	150
Primary cutter (C)	t	225	320

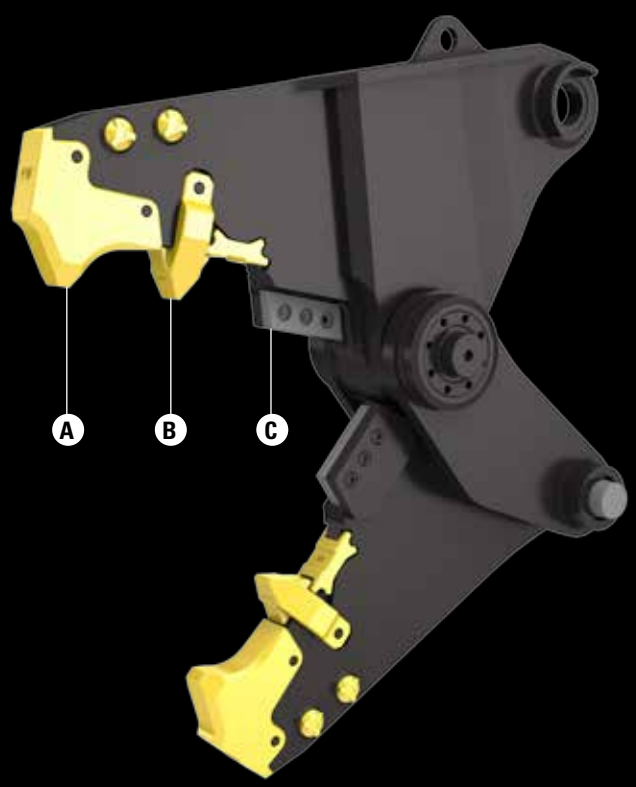
*Weight excluding bracket



D (Demolition) Jaw

Demolition jaws cut and crush hard concrete, moderate reinforced structures and rebar. They are used mostly for primary demolition, to cut the structure into pieces. Secondary demolition uses include breaking up smaller sections on the ground once the structure is brought down. The new D-jaws have a wide opening to handle more material at once.

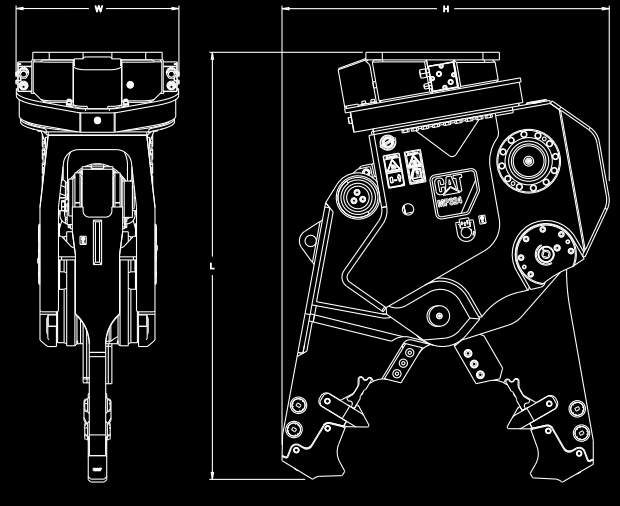
Replaceable parts
The cutting and crushing mechanism suffers the most wear during use. Replaceable wear parts protect the base metal of the jaw itself, while replaceable crusher teeth provide a small surface area to crush thick concrete. The cutters are changeable so both sides can shear, doubling the use between maintenance.



Weight and Dimensions

		MP318	MP324
Width (W)	mm	793	793
Hight (H)	mm	1368	1593
Length (L)	mm	1935	2079
Weight* housing, jaw	kg	1910	2640
Weight jaw	kg	730	1060
Jaw Depth	mm	650	760
Max. Jaw opening	mm	740	905
Tooth tip (A)	t	75	105
Cutter tip / tooth (B)	t	110	150
Primary cutter (C)	t	230	320

*Weight excluding bracket



P (Pulverizer) Jaw

Pulverizer jaws demolish and reduce the concrete of smaller structures in a single step, separating rebar from concrete and reducing concrete to small, ready-to-recycle chunks. That saves time by eliminating the need for further secondary processing before recycling.

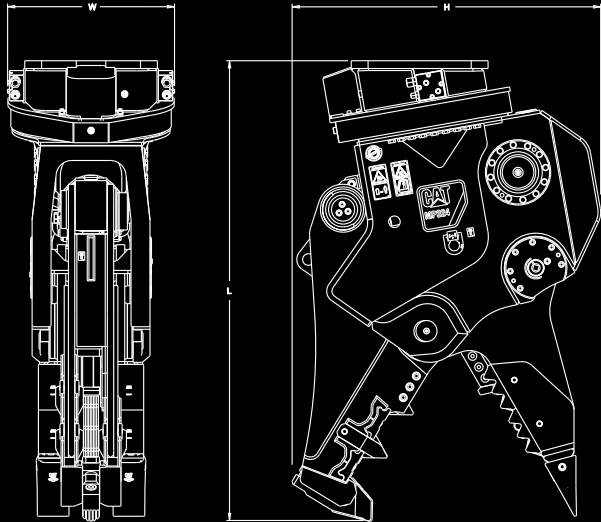
The jaw set has replaceable crusher teeth on the upper jaw that easily crack thick concrete and shatter it. Reversible blades with a balanced hardness and yield/tensile strength keep blade wear at a minimum, while replaceable wear plates protect the base metal of the jaw. The lower jaw crushing bars, two on each side, are also replaceable and can be interchanged to prolong life.



Weight and Dimensions

		MP318	MP324
Width (W)	mm	793	793
Hight (H)	mm	1307	1466
Length (L)	mm	2006	2178
Weight* housing, jaw	kg	2030	2740
Weight jaw	kg	850	1160
Jaw Depth	mm	670	760
Max. Jaw opening	mm	820	970
Tooth tip (A)	t	75	105
Cutter tip / tooth (B)	t	110	150
Primary cutter (C)	t	250	340

*Weight excluding bracket

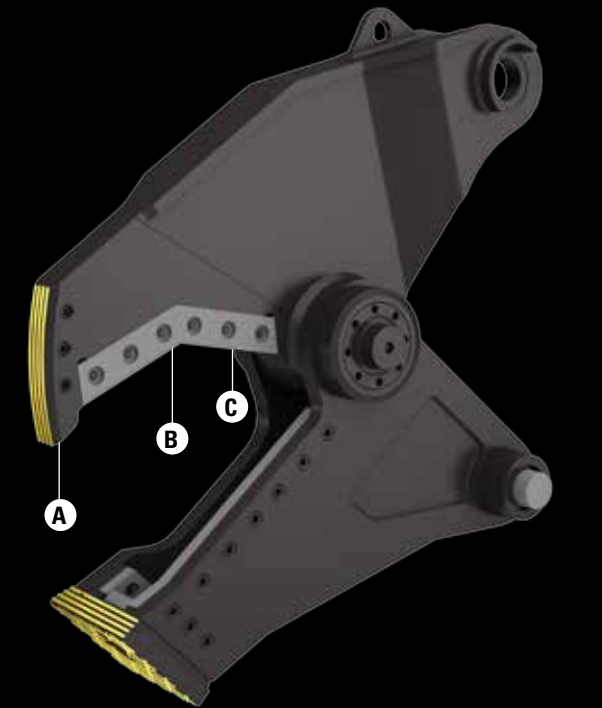


S (Shear) Jaw

The new Shear jaw is designed to better cut and reduce the size of metal items commonly found at demolition sites, such as steel plates, angle iron, channel iron, H-beams, pipes, rebar and tires. The S-jaw features a replaceable piercing tip and wear blade in the upper jaw and a cross blade with additional guiding blade in the lower jaw.

The straight lower jaw works with the apex of the upper jaw, compressing and flattening steel before the cut. It also maximises the shear force and creates a more efficient cut. The cutters are attached using bolts, and easily replaced.

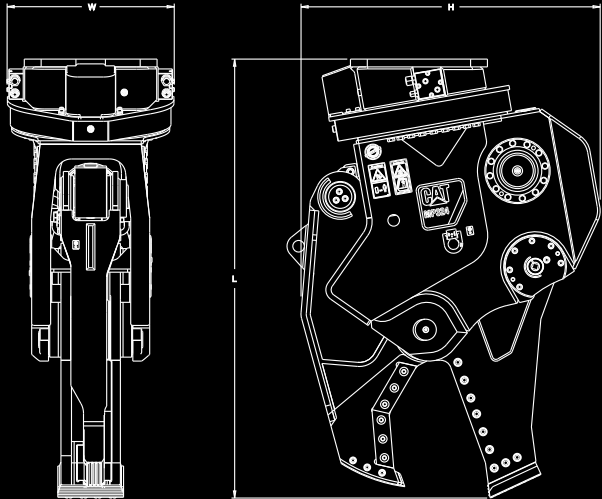
Reversible blades with a balanced hardness and yield/tensile strength keep blade wear to a minimum.



Weight and Dimensions

		MP318	MP324
Width (W)	mm	793	793
Hight (H)	mm	1298	1419
Length (L)	mm	1897	2082
Weight* housing, jaw	kg	1840	2530
Weight jaw	kg	660	940
Jaw Depth	mm	500	620
Max. Jaw opening	mm	350	400
Tooth tip (A)	t	100	130
Cutter tip / tooth (B)	t	170 apex	230 apex
Primary cutter (C)	t	370 throat	390 throat

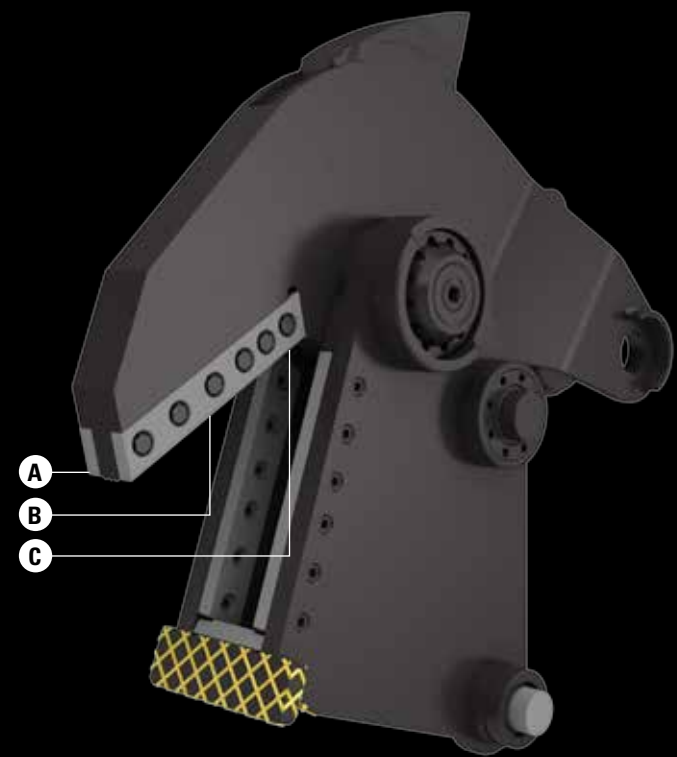
*Weight excluding bracket



TS (Tank Shear) Jaw

Tank Shear jaws are used for accurate demolition of plate steel, ships, railway carriages and silos (tanks) for storing grain, oil and fuel. They can also be used for structures such as warehouses, transit sheds and other storage buildings made of plate steel.

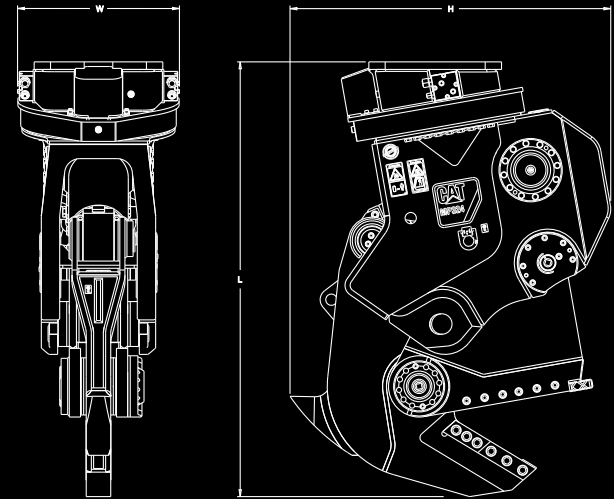
Specially designed jaws with cuttings strips produce straight, smooth cuts.



Weight and Dimensions

MP324		
Width (W)	mm	793
Hight (H)	mm	1571
Length (L)	mm	2129
Weight* housing, jaw	kg	2700
Weight jaw	kg	1130
Jaw Depth	mm	490
Max. Jaw opening	mm	500
Tooth tip (A)	t	110
Cutter tip / tooth (B)	t	130
Primary cutter (C)	t	300

*Weight excluding bracket



U (Universal) Jaw

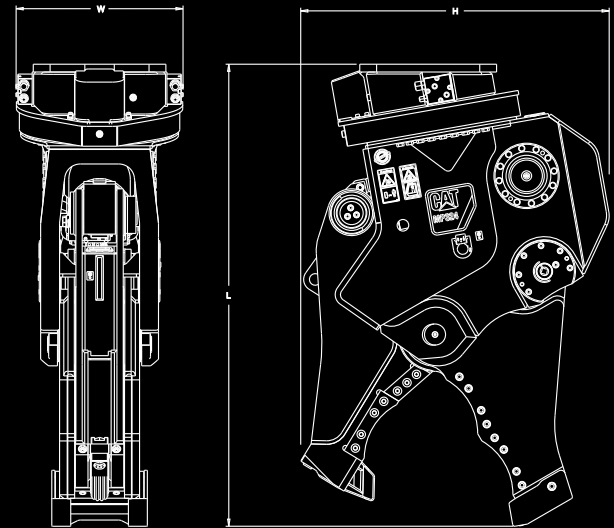
Universal jaws cut reinforced concrete into small manageable chunks for later crushing (and separating out the rebar) in a mobile crusher. They can be used in both primary and secondary demolition work.



Weight and Dimensions

		MP318	MP324
Width (W)	mm	793	793
Hight (H)	mm	1274	1464
Length (L)	mm	2000	2194
Weight* housing, jaw	kg	1980	2690
Weight jaw	kg	770	1100
Jaw Depth	mm	570	680
Max. Jaw opening	mm	470	650
Tooth tip (A)	t	85	115
Cutter tip / tooth (B)	t	160 s. cutter	160 s. cutter
Primary cutter (C)	t	300 p. cutter	350 p. cutter

*Weight excluding bracket



MP300 – Cutting-edge performance

The fully integrated MP300 has a host of features that ensure cutting-edge performance in the field.

MP318 Cutting capacity*

		CC	D	P	S	U
Narrow I-beams		IPE 300	n/a	n/a	IPE 300	n/a
Wide I-beams		HE-A 200	n/a	n/a	HE-A 200	n/a
Bar round	mm	65	n/a	n/a	65	n/a
Bar square	mm	60	n/a	n/a	60	n/a
Plate**	mm	n/a	n/a	n/a	12	n/a
Pipe	mm	n/a	n/a	n/a	219x8	n/a

MP318 Crushing capacity

Concrete thickness	mm	550	600	550	n/a	450
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MP324 Cutting capacity*

		CC	D	P	S	U	TS
Narrow I-beams		IPE 400	n/a	n/a	IPE 400	n/a	n/a
Wide I-beams		HE-A 260	n/a	n/a	HE-A 260	n/a	n/a
Bar round	mm	80	n/a	n/a	80	n/a	n/a
Bar square	mm	70	n/a	n/a	70	n/a	n/a
Plate**	mm	n/a	n/a	n/a	14	n/a	25
Pipe	mm	n/a	n/a	n/a	273x9	n/a	n/a

MP324 Crushing capacity

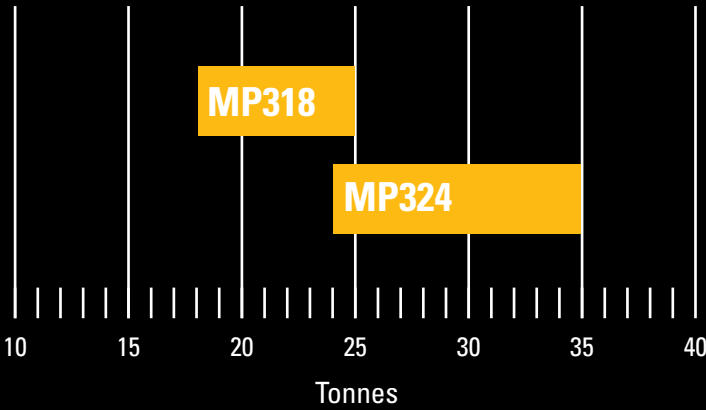
Concrete thickness	mm	650	700	650	n/a	600	n/a
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		MP318	MP324
P. max O/C	bar	350	350
Flow O/C	L/min	150	225
P. rotation	bar	140	140
Flow rotation	L/min	40	40
Return Flow opening	L/min	240	370
Cycle time O/C	sec	1.0 / 1.6	1.2 / 1.8

*The exact cutting capacity is an indication. It depends on excavator operation pressure and performance and the condition of the jaws.

**Tensile strength steel 370 Mpa

The right Multi-Processor for your machine





CONTACT your Cat dealer

Plus all the benefits of doing business with Cat: spare parts, service contract, financing, engineering ...

The Caterpillar dealer network is a global resource available to all our customers.

You may have your own maintenance and service facilities, or you may prefer to outsource all your equipment care so you can focus on your core business. Either way, your Cat dealer can provide whatever level of support you need – from on-line to on-site. Cat dealers can also offer innovative financial arrangements and counter purchase agreements.

Manufactured to the highest standards

Caterpillar is the world's number one producer of construction and mining equipment, and the industry's largest manufacturer of work tools. Our record of manufacturing excellence is unsurpassed. Caterpillar produces using 6-Sigma principles to ensure our products meet your needs.

If you're looking for peace of mind, contact your Cat dealer today.

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