



JCB ATTACHMENTS | LARGE HAMMERMASTER

A range of 6 large breakers from 800kg-3000kg suitable for a range of Hydraulic Excavators.



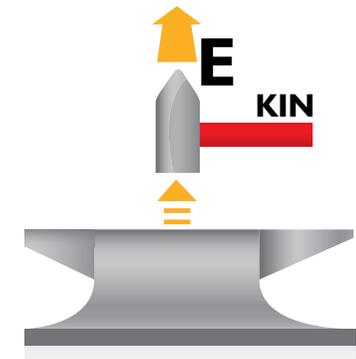
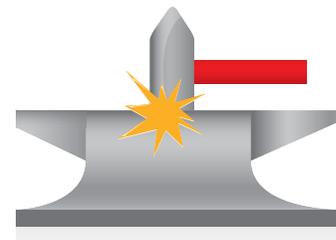
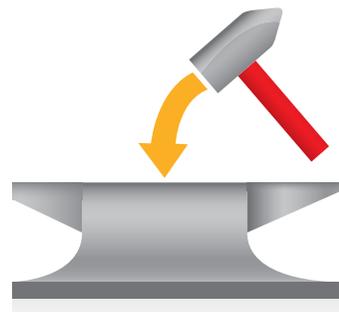
EFFICIENCY.

TO GET JOBS DONE QUICKLY AND EFFICIENTLY, JCB HAMMERMASTERS ARE DESIGNED TO BREAK AS MUCH MATERIAL AS POSSIBLE USING MINIMAL POWER. AMONGST OTHER THINGS, THESE TOOLS ARE FITTED WITH NUMEROUS INNOVATIVE, VERSATILITY-BOOSTING FEATURES.

Efficient Energy Recovery and Power Boost.

1 In order to generate maximum piston acceleration all of our Hammermasters combine hydraulic force and recovered energy in the hydraulic system through the use of a highly efficient internal control valve. Energy not absorbed by the rock is reused in the following blow which places less demand on the carrier. The blow frequency is increased, therefore the output of the breaker is also increased. Reused energy requires no additional hydraulic flow from the pump which hugely improves efficiency, ultimately saving fuel and money.

1



Powerful and versatile.

Because it's essential to have the right tool for any job, all our Hammermasters are available with either a moil or chisel tool as standard. This ensures maximum productivity and minimised operating costs.

These attachments have large diameter tools and pistons, making for a highly efficient energy transfer to the material you're breaking.

To make sure they'll work the distance, Hammermaster pistons are precision-built and temper-hardened.

Built to perform.

Unlike competitive units, our Hammermaster range is specially designed to work in perfect harmony with the JS excavator range, guaranteeing maximum performance in the shortest possible time.

To save even more precious time, you can set your chosen hammer flow rate in the DECU memory; this is then automatically activated when the hammer pedal is depressed.

The in-cab display can be set to advise the operator to reposition the breaker after 15 seconds has elapsed. This system is unique to JCB Excavators and prevents excessive tool wear.



BUILD **QUALITY** AND RELIABILITY.

HAMMERMASTERS ARE INCREDIBLY STRONG ALL-ROUND. CONSTRUCTION IS ROBUST, WITH AS MUCH BUILT-IN SIMPLICITY AS POSSIBLE TO MINIMISE POTENTIAL PROBLEMS.

Designed to last.

1 Our Hammermasters are designed with leading features as standard for maximum performance and reliability, giving you the most productivity with minimal servicing costs. Ultimately, you can enjoy a high return on investment which keeps you working for as long as possible.

2 A heavy duty housing constructed from high-wear-resistant steel ensures reliability regardless of application.

3 The tool end of the Hammermaster range is specially designed by JCB to the very highest standards, using a nickel-chrome alloy that's been optimised for arduous breaking applications.

You can use our heavy-duty rock claw to shift material in readiness for breaking; this protects the foot of the Hammermaster's housing and the hammer itself from damage (HM177Q upwards).



Full length cylinder sleeve.

4 Whether the monoblock or standard design, all JCB large Hammermasters feature a replaceable outer shell. This protective layer takes all the knocks from your tasks and, being made of Hardox, it is designed to last and protect the internal components

HM870Q - HM1270Q - HM1570Q

Monoblock Design

Should tie rods fail, significant damage to the breaker will follow. HM870Q-HM1570Q have a unique fastening system which does not use long side bolts. Due to this design, the potential for leaks is reduced. The Monoblock design removes strains associated with bending forces and increases the life of the Hammermaster.

HM1770Q - HM2470Q - HM3070Q

Standard Design

HM1770Q-HM3070Q models uses head bolts with helicoil insert threads designed to distribute torque load equally. This means that routine servicing can be done on site without the need for specialist tools, reducing downtime.

Protective features.

5 To improve the longevity of Hammermaster components, our Autostop feature reduces blank firing. This provides excellent protection against unnecessary wear for the tools and tool retaining pins, especially when working in low visibility areas (eg. trenching). Additionally, HM1770Q-HM3070Q Hammermasters can be used in Autostart mode which is ideal when breaking less stable material.



PRODUCTIVITY AND PERFORMANCE.

OUR LARGER HAMMERMASTERS ARE FITTED WITH THE VERY LATEST INNOVATIVE TECHNOLOGY TO ENSURE EXCELLENT RESULTS ON ANY SITE.

Power control.

1 We've improved performance in hard applications by fitting a power control valve to our largest Hammermasters (HM1770Q upwards). This device varies frequency and impact energy for optimum results.

Our Power Boost feature is fitted to all models in the range. This device converts hydraulic input into more output by recycling recoil energy (see page 2).

Autostart (HM1770Q-HM1270Q-HM3070Q)

HM1770Q-HM3070Q Hammermasters give the user a choice between Autostop and Autostart and allows you to change between these two modes in around five minutes. The Autostart mode should be used when breaking less stable material.

Autostop and Autostart ensures that Hammermasters always work productively and efficiently by placing less strain on the breaker and carrier.



EASE OF USE.

TO SAVE YOUR OPERATORS' TIME, WE'VE DESIGNED OUR HAMMERMASTER RANGE TO BE EXTREMELY ERGONOMIC AND SIMPLE TO OPERATE.

Autogrease.

1 All large Hammermasters are fitted with the JCB Autogrease system; a screw fit, transparent cartridge which is easily visible from the cab. This means the operator can monitor grease levels without leaving the cab. It also removes the need for manual greasing which saves time on site whilst also improving productivity and safety.

Ready to go.

2 Hammermasters are supplied with everything you need to start breaking: a hanger bracket, hoses, grease, grease gun, a toolbox and, of course, your choice of tool. This means operators don't have to waste time finding and installing the right hoses.

3 To make it even easier to switch tools on-site, the retaining pins are very accessible, while everything you need to make the change is supplied in the toolbox. With a JCB quickhitch, you can change attachments like a Hammermaster in seconds, meaning operators can get straight to work.

Because your hammer will be perfectly matched to your JCB excavator, you can simply pick up the unit with the quickhitch, connect the hoses, set the pressure and start breaking.



SERVICEABILITY.

AT JCB, WE APPRECIATE THAT WHEREVER YOU'RE OPERATING, YOU'LL HAVE ONE EYE ON THE COST OF OWNERSHIP OF YOUR MACHINERY. THAT'S WHY WE'VE MADE SURE THAT THE HAMMERMASTER RANGE PROVIDES PLENTY OF SERVICE WITHOUT REQUIRING PLENTY OF SERVICING.

Minimal servicing, made easy.

Because our Autostop feature reduces blank firing the breaker is protected from excess wear, keeping your Hammermaster breaking for longer. Service intervals are extended and cost of ownership is reduced accordingly. Once the tool has broken the rock the breaker stops further blows automatically.

Breaking material can be a dusty task, so we've equipped the range with extensive dust protection to guard internals, provide long life and reduce grease consumption. Our active single-stage seal is highly effective against rock, debris and dust, protecting components like bushings, the impact ring, retainer bars and the piston.

1 We provide a specially tailored toolbox with every Hammermaster so that your operators have everything they need to remove pins and re-gas the breaker, saving time on site.

Backing you up.

2 Genuine JCB lubricants are formulated to guarantee maximum service life of the breaker, working tools and bushings. Our Extreme Hammer Grease, for example, is a mineral-and-oil-based compound with solid lubricants and it's effective in temperatures from -20 to 1100°C.

Wherever you are in the world, you can get spare parts for your breaker quickly, courtesy of the JCB global dealership and distributor network – the best backup in the business.

Our large Hammermasters are fitted with Autogrease and Autostop, designed to improve productivity, and save money.



SAFETY.

SAFETY IS KEY ON ANY SITE, WHICH IS WHY THE HAMMERMASTER RANGE IS BUILT WITH THE WELLBEING OF WORKERS, BYSTANDERS AND THE ENVIRONMENT IN MIND.

Silenced as standard.

Our breakers are compliant with regulations like the Noise and Outdoor Equipment Directive (2000/14/EC). This means they're designed to reduce noise pollution for workers and residents, with no performance sacrifice. The JCB Hammermaster range boasts some of the quietest breakers in the world thanks in no small part to our innovative dampening system. This is isolated from the percussion mechanism using elastic damping parts.

The elastically suspended mechanism serves three purposes:

1. Acoustically silences the Hammermaster.
2. Reduces vibrations to the carrier machine and operator as there is no metal to metal contact between percussion mechanism and breaker box.
3. Protects the power cell from excessive wear.

A safer world.

1 To keep the site (and the environment) safe from potentially hazardous hydraulic leaks, Hammermaster hoses are supplied with a spiral guard to protect against damage.

The tools we supply with our breakers are tailor made for the job, so they'll help keep your equipment as safe and reliable as ever.



CHOOSING THE RIGHT BREAKER.

NO MATTER WHICH MACHINE (S) YOU WANT TO EQUIP, WE'VE GOT HAMMERMASTER BREAKER ATTACHMENTS THAT ARE DESIGNED TO BE PERFECTLY IN TUNE WITH YOUR MACHINERY.

Choosing the right breaker.

It is essential that a breaker is correctly matched to its host machine to ensure maximum productivity and efficiency. The table below gives a guideline on how to select the correct breaker for a specific machine or production requirement. The following table can be used both left to right and right to left.



WEIGHT	
Tonne	lbs
10 - 17	22050 – 37480
15 - 24	33070 – 52910
17 - 28	37480 – 61730
18 - 34	39680 – 74950
26 - 40	57330 – 88200
32 - 50	70500 – 110000



JCB BREAKER
HM870Q
HM1270Q
HM1570Q
HM1770Q
HM2470Q
HM3070Q



MAXIMUM ATTAINABLE PRODUCTION					
Soft concrete with or without rebar		Hard concrete with or without rebar		Secondary Breaking	
m ³ / shift	yd ³ / shift	m ³ / shift	yd ³ / shift	m ³ / shift	yd ³ / shift
135 - 260	177 - 340	55 - 140	72 - 183	N/A	N/A
185 - 380	242 - 497	90 - 250	118 - 327	250 - 500	327 - 654
290 - 600	380 - 785	190 - 420	248 - 550	385 - 800	503 - 1046
300 - 650	392 - 850	200 - 425	362 - 556	400 - 825	523 - 1079
375 - 800	491 - 1046	225 - 500	294 - 654	475 - 1000	621 - 1308
500 - 1100	654 - 1439	300 - 700	392 - 916	625 - 1250	818 - 1635

Choosing the right tool.

Choosing the correct tool has a major impact on the reliability, wear and performance of the breaker and tool.

MATERIAL	USE	SPECIFICATION	TOOL
Asphalt	Road surfaces	Soft structure	Chisel
Concrete	Thin floors, walls	Reinforced	Moil
	Thick floors, walls	Non-reinforced	Chisel
		Reinforced	Moil
	Foundations	Non-reinforced	Chisel
Sedimentary rock (limestone, sandstone etc.)	Trenching, foundation work, primary quarry breaking	Reinforced	Moil
		Non-reinforced	Chisel
	Recycling	-	Blunt
Crystalline rock (magma, greenstone, granite etc.)	Trenching, foundation work, primary quarry breaking	Heavily fissured	Chisel
		Lightly fissured	Moil
	Monolithic	Moil	
Breaking oversizes	-	Chisel	
	Heavily fissured	Chisel	
Lightly fissured	-	Blunt	
	Monolithic	Blunt	
Breaking oversizes	-	Blunt	



CHISEL - standard tool for penetrative work, e.g. mining, foundations, trenching, demolition



MOIL - universal, for layered rock and reinforced concrete, where twisting could occur



HM870Q



HM1270Q



HM1570Q



HM1770Q



HM2470Q



HM3070Q

SPECIFICATION.



HM1770Q - HM2470Q - HM3070Q

Silenced as standard.

1 115 – 121db. Ideal for close proximity work

JCB Autogrease.

2 120 shots an hour minimising wear and increasing efficiency

Large diameter tools.

3 Maximum power transfer with less chance of chipping

Oval Retainers.

4 Greater retention with double the life. Once worn turn them around

Hardox Rock Claw (HM1770Q-HM3070Q).

5 Operator aid to move rock without damaging the breaker housing

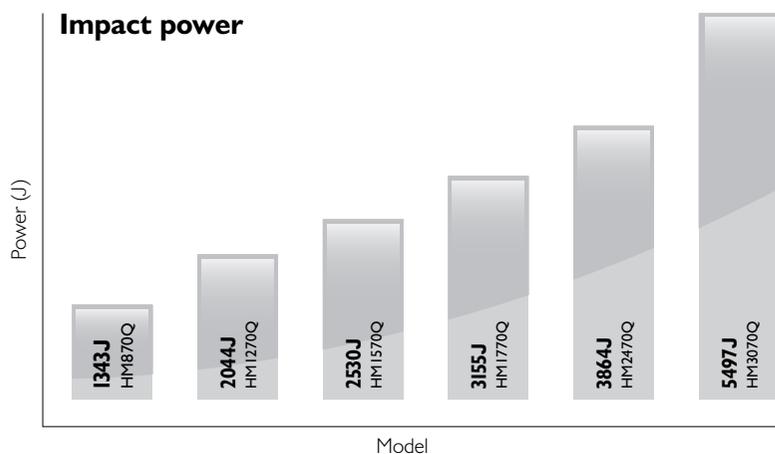


The range.

There is a Hammermaster suitable for each JS Excavator in our range. Universal Hammermasters are supplied with the same great features as the rest of the range but are supplied without a hanger bracket allowing them to be fitted to non JCB carriers.



		HM870Q	HMI270Q	HMI570Q	HMI770Q	HM2470Q	HM3070Q
		JS115-190 & Universal	JS115-190 & Universal	JS160-JZ255 & Universal	JS200-JS260 & Universal	JS240-360 & Universal	JS290-460 & Universal
Carrier class	t	11-19	11-19	16-20	20-26	24-36	>30
Weight	kg	800	1200	1500	1800	2200	3000
Impact energy	joules	1343	2044	2530	3155	3864	5497
Blow rate	bpm	650-850	550-750	520-700	400-680	375-600	380-600
Sound	db	115	120	122	122	122	121
Oil flow	l/min	100-120	120-140	140-160	140-160	135-200	210-270
Back pressure	bar	35	35	35	35	35	35



DIMENSIONS		HM870Q	HMI270Q	HMI570Q	HMI770Q	HM2470Q	HM3070Q
Tool diameter	mm	100	120	135	140	150	165
Length	mm	1462	1593	1700	1796	1933	2196
Width	mm	410	495	495	495	650	688
Depth	mm	560	630	630	660	700	810

FEATURES	HM870Q	HMI270Q	HMI570Q	HMI770Q	HM2470Q	HM3070Q
Energy Recovery & Power Boost	<input type="checkbox"/>					
Power Control Valve	<input type="checkbox"/>					
Heavy Duty Rock Claw	<input type="checkbox"/>					
Monoblock design with no side bolts	<input type="checkbox"/>					
Servicable with hand tools	<input type="checkbox"/>					
Programmable in DECU Memory	<input type="checkbox"/>					
Autostart	<input type="checkbox"/>					
Autostop	<input type="checkbox"/>					
Autogrease	<input type="checkbox"/>					
Tool Box	<input type="checkbox"/>					
Dust Protector	<input type="checkbox"/>					
Hanger bracket, hoses and choice of tool	<input type="checkbox"/>					

VALUE ADDED.

JCB'S WORLDWIDE CUSTOMER SUPPORT IS FIRST CLASS. WHATEVER YOU NEED AND WHEREVER YOU ARE, WE'LL BE AVAILABLE QUICKLY AND EFFICIENTLY TO HELP MAKE SURE YOUR MACHINERY IS PERFORMING TO ITS FULL POTENTIAL.



1 Our Technical Support Service provides instant access to factory expertise, day or night, while our Finance and Insurance teams are always on hand to provide fast, flexible, competitive quotes.

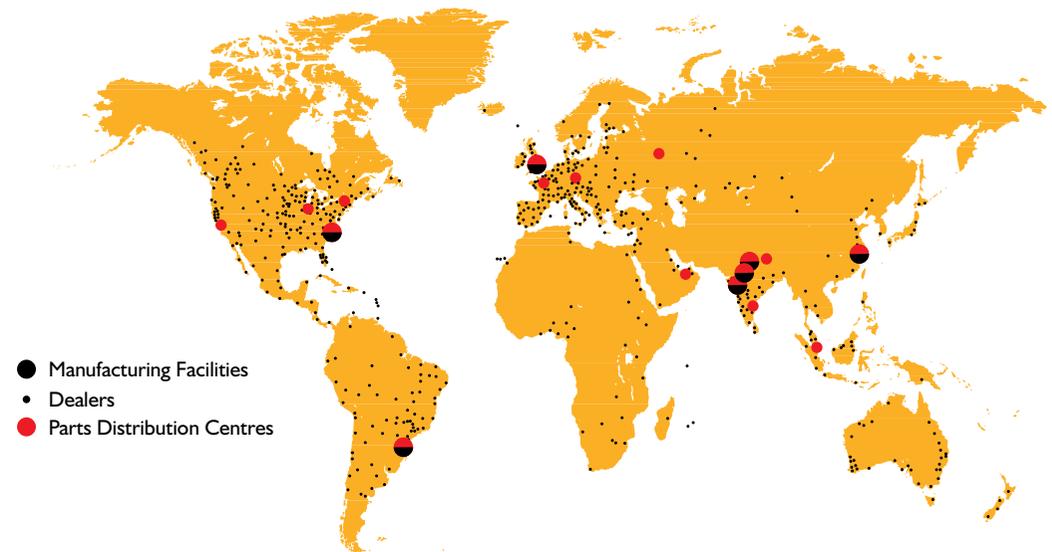
2 The global network of JCB Parts Centres is another model of efficiency; with 15 regional bases, we can deliver around 95% of all parts anywhere in the world within 24 hours. Our genuine JCB parts are designed to work in perfect harmony with your machine for optimum performance and productivity.



3 JCB Assetcare offers comprehensive extended warranties and service agreements, as well as service-only or repair and maintenance contracts. Irrespective of what you opt for, our maintenance teams around the world charge competitive labour rates, and offer non-obligation quotations as well as fast, efficient insurance repair work.



Note: JCB LIVELINK and JCB ASSETCARE may not be available in your region, so please check with your local dealer.







ONE COMPANY, OVER 300 MACHINES.

Your nearest JCB dealer

JCB Attachments Large Hammermaster

A range of 6 large breakers from 800kg-3000kg suitable for a range of Hydraulic Excavators.

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Download the very latest information on this product range at: www.jcb.com

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