

# Strength and efficiency

The hydraulic breaker is mainly used in earth-moving and mining industries, where components are subjected to high levels of stress, working mostly in difficult situations.

To make hydraulic breakers increasingly reliable and to guarantee both performance and power, Hammer has introduced the SB and FX lines, obtained thanks to in-depth R&D carried out throughout the years.

For the production of this equipment, top-quality alloy steels are used and the best heat treatment techniques developed.

The research and studies carried out have allowed us to obtain important results in terms of the technological and mechanical characteristics of the steels.

At the same time, studies were carried out in collaboration with the main producers of hydraulic seals (Trelleborg, Freudenberg, Nok).

Over the years we have therefore improved both quality and type of the materials used to reach the appropriate ratio between different speeds, pressures and temperatures, thus increasing durability.



**SB**  
60 - 520 KG

**FX**  
700 - 11000 KG

# We're always ready for challenges

Breakers of both SB and FX series are "nitrogen" breakers. Hammer, thanks to its experience, followed this path in order to obtain high power distributed over a higher number of blows per minute, thus resisting high counterpressures (up to 435 psi).



The breaker is also very compactly structured hence reducing stress on the excavator's arm and ensure greater durability of both the breaker and its components.

- The SB and FX hydraulic breakers can work on any type of excavator and on any single-acting hydraulic system; they are also suitable for hydraulic systems with high back pressure

- Hammer Breakers are equipped with special polyurethane shock absorbers that absorb vibrations, thus protecting the arm of the excavator and also reducing noise emissions, according to the requirements of directive 2000/14 / EC

While the SB series is suitable for carriers, mini excavators, miniblades, backhoe loaders, demolition robots. etc., the FX series is suitable for crawler and wheeled excavators of medium and large size.

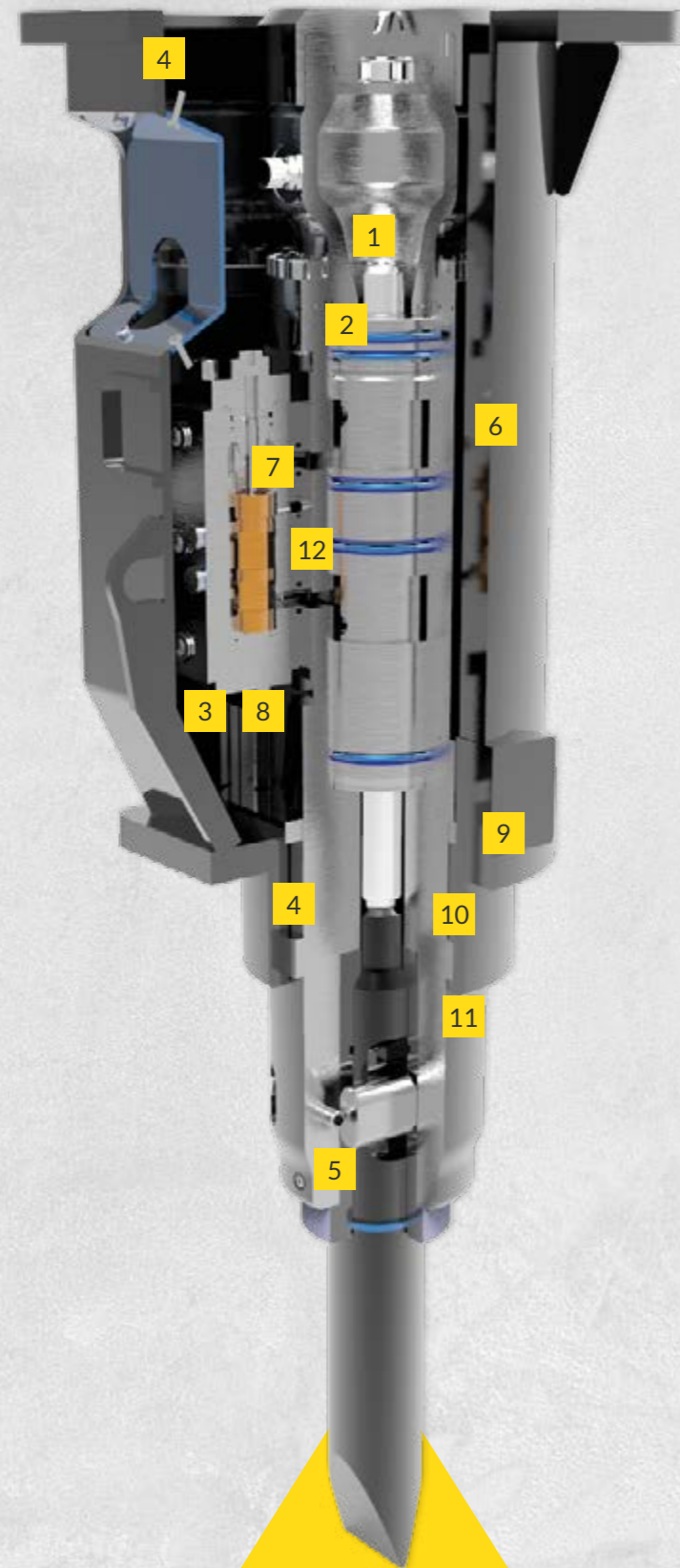
# Application overview

		SB	FX 700-1900	FX 2200-12000
 <b>Mining &amp; Quarrying</b>	Preliminary works			
	Overburden removal			
	Bench, road & ramp leveling	★	★	★
	Roof, face & rib scaling			
Secondary breaking				
Boulder reduction in rock pile	★	★	★	
Removing blockages at crushing systems				
Primary rock breaking				
Selective rock breaking	☆	★	★	
Blast-free mining				
 <b>Demolition &amp; Renovation</b>	Masonry structures			
	Brickwork			
	Natural stone	★	★	☆
	Autoclaved aerated concrete			
	Concrete structures			
	Lightweight concrete	★	★	★
	Standard concrete			
	Heavyweight concrete	☆	★	★
	Composite steel & concrete structures			
	Steel-reinforced concrete	★	★	★
Prestressed concrete				
Fiber-reinforced concrete				
Pavements				
Asphalt				
Concrete	★	★	★	
Composite surfaces				
 <b>Construction</b>	Earthworks			
	Trenching			
	Pit building	★	★	★
	Ground excavation			
	Tunneling			
	Tunnel driving			
	Roof, face & rib scaling	★	★	★
	Floor leveling			
	Dredging			
	Canal deepening & extension	★	★	★
Dock deepening & extension				
Gardening & Landscaping				
Fencing				
Ground excavation	★	★	☆	
Rock breaking				
Foundation works	☆	★	★	
Building construction	☆	★	★	
 <b>Metallurgical Industry</b>	Slag recycling			
	Boulder reduction in slag heap	★	★	★
	Removing blockages at crushing systems			
	Cleaning & debricking			
Ladles				
Converter mouths	★	★	☆	
Kilns				

 Optimal
  Suitable
  Unsuitable

## BREAK IN A SMART WAY

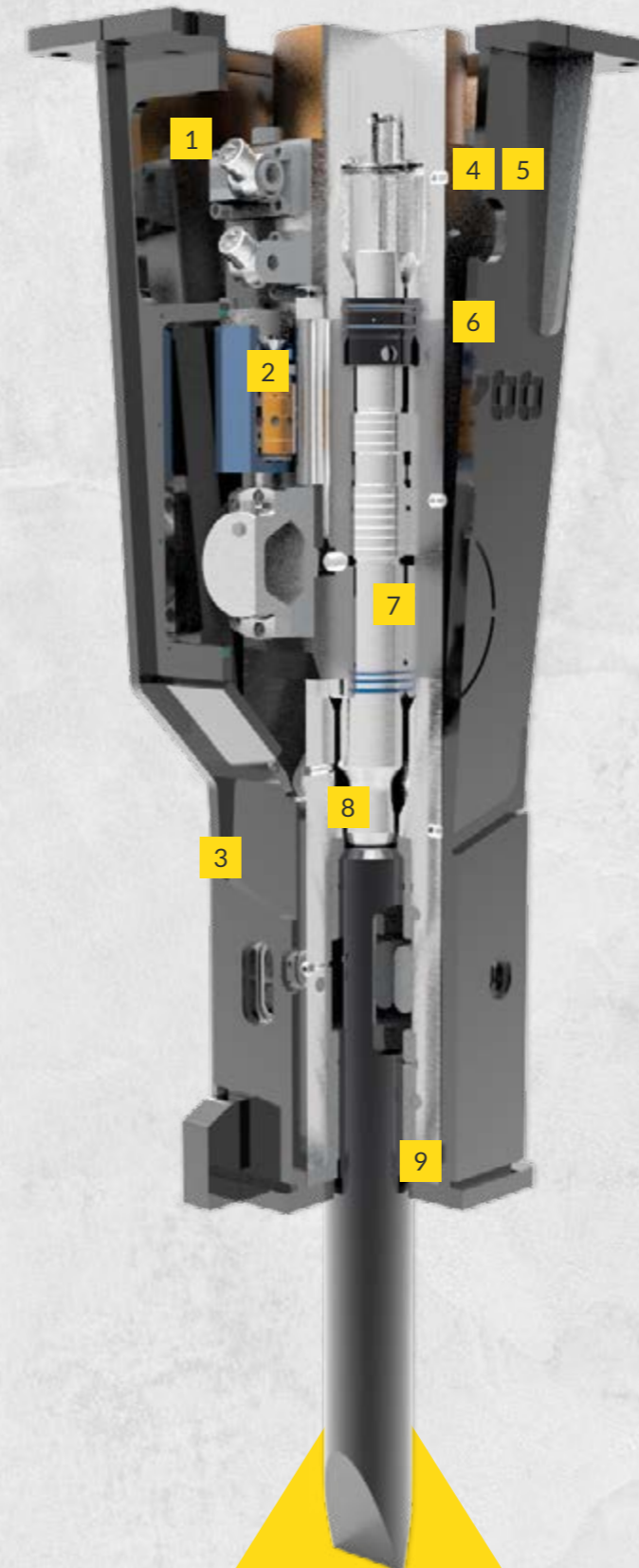
### Monobloc hydraulic breaker without tie rods and diaphragm



- 1 More power, less vibration and maintenance.  
The SB breakers work with inertial nitrogen energy recovery, thus obtaining more power (more than 30%) and less vibration thanks to the nitrogen chamber that reduces maintenance costs, since it has no diaphragm.
- 2 Long lasting nitrogen charge.  
In the past, energy recovery breakers required frequent nitrogen refills; with the new sealing system and the new compound developed by Freudenberg they are able to guarantee a gas tightness equal to 300% more than in the past.
- 3 Protected tubes.  
The tubes are completely protected through the casing and they're suitable for every type of excavation, especially in narrow spaces.
- 4 The particular design, with a closed box casing as well as the addition of sound-absorbing material, allowed the breaker to have very low noise levels
- 5 Double retainer pin.  
The tool-locking system with a double retainer pin allows adequate and uniform wear of the same and ensures longer maintenance intervals for the whole locking system.
- 6 Monobloc body without tie rods.  
The entire SB series benefits from the particular monoblock construction; this feature gives the structure a very high resistance to leverage, during work. The breaker is built in one only piece and it is without tie rods, thus obtaining greater production and less maintenance as a result.
- 7 Only two moving parts.
- 8 For all types of installations (pressurization).  
The SB series tolerates high back pressure, and it has a wide calibration range of the required oil flow, in order to make the installation easier.
- 9 The piston moves in a single interchangeable cylinder liner that keeps the main body intact and that is easy to replace in case of necessity.
- 10 The piston is built with a special geometry as to keep a constant energy of impact, and to reduce damage in any critical condition.
- 11 Visibility and versatility.  
The models of the SB series, with their tapered shape, provide the operator with an excellent view during the work and allow to operate close to the walls, both in narrow and wide spaces.
- 12 Hydraulic system for blank firings.  
The hydraulic system creates a regenerative oil circuit that preserves the breaker from blank firings when the tool is not in contact with the rock.

## EFFICIENCY BECOMES POWER

### Hammer Hydraulic Breakers



- 1 Tubes with swivels.  
Tubes with swivels are fully protected from any misuse and, resistant to vibrations.
- 2 Operating pressure regulation.  
For the FX series (FX950-12000), it is possible to adjust the working pressure with a manual valve located frontally on the distribution box.
- 3 Anti-dust and underwater work setup  
You can prevent the entry of dust and water into the breaker by blowing air into the proper hole in the front part of the breaker, with a pressure of not less than 10 bar.
- 4 Automatic hydraulic greasing device (optional, mounted on the breaker).  
The Beka-Lube automatic lubrication system optimizes the lubrication procedure and reduces maintenance and downtimes
- 5 Automatic hydraulic greasing device with exclusive Hammer electric control (optional, mounted on the excavator).  
Innovative electric system with automatic grease distribution, less liable to vibration breakages thanks to its tank of grease with a capacity of 4 kg or 8 kg, making thus the system cheaper than all the other devices with single cartridges.
- 6 Manual blows adjustment.  
For the FX series (FX950-FX12000), the regulation of the blows is carried out manually by a valve located on the side of the breaker.
- 7 Hydraulic system for blank firings.  
The hydraulic system creates a regenerative oil circuit that preserves the breaker from blank firings when the tool is not in contact with the rock.
- 8 The piston is built with a special geometry as to keep a constant energy of impact, and to reduce damage in any critical condition.
- 9 Anti-dust system for tunnels (optional).  
The anti-dust system consists of a dustproof seal addition mounted in the lower bush to avoid the entry of impurities into the circuit. FX series breakers are suitable for secondary demolition work, excavations in quarry, work in urban areas, tunnels, pipelines, and railway tunnels and, concerning the biggest models, demolitions in open pit mining.

HAMMER LUBE is the result of intense cooperation between the Engineering Departments of Hammer and Meyerlub, both specialists in advanced technology. Hammer Grease is totally different from any other breaker's grease or oil.

- It is based on special synthetic components, with a strong affinity to metal surfaces due to their "polar" nature. This offers superior lubricating film strength, even in the most adverse operating conditions.

- Its physical characteristics perfectly match the Hammer lubricant supply systems (on-board Greasing Stations and Easy-Lub equipment)

#### HAMMER GREASE KEEPS ITS PROMISES!

- Total protection from friction, wear and scuffing, thanks to the exceptional film strength and metal affinity

- Complete and uniform distribution of lubricant on the whole surface, for a complete protection from wear and seizing

- Cost saving: highly efficient lubrication ensures complete protection, reducing drastically maintenance, spares and downtime costs. The exclusive and "state of the art" performance of Hammer Grease optimizes lubrication efficiency and significantly reduces lubricant's over-consumption and relevant costs.

#### CONSIDER THE DIFFERENCE

Hammer breakers, rolling bearings and machinery pins have very different engineering features; therefore lubrication requirements change accordingly. Hammer lube is a tailor-made product, thought intentionally for hydraulic breakers.

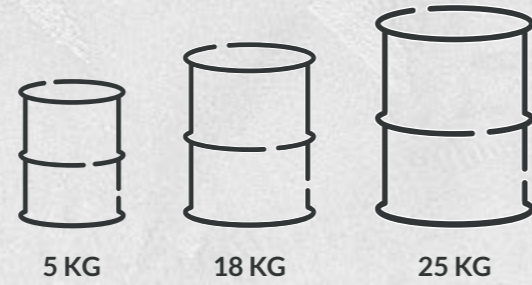
#### WHY IS CORRECT LUBRICATION SO IMPORTANT?

Hammer breakers operate at high frequencies under heavy loads, involving high thermal and mechanical stress. Inadequate lubricants generate excessive wear and deposits.

#### BREAKER LIFE SPAN, EFFICIENCY, AND RELIABILITY MAY BE SERIOUSLY AFFECTED.

Proper breaker lubrication is the combination of:

- Appropriate lubricating system design.
- Appropriate lubricant structure and composition.
- Perfect tuning between lubricant and application system.



# Product Series

Discover all our series

# SB-SQ SERIES

## HYDRAULIC BREAKERS WITHOUT TIE RODS

for excavators from 0.5 to 13 ton

### Break in a smart way!

More power / less vibrations and maintenance.  
 Long lasting nitrogen charge.  
 Protected tubes.  
 Silenced body.  
 Monobloc body without tie rods.  
 Double retainer pin.  
 Only two moving parts.  
 For all types of installations.  
 Visibility and versatility.



Mining & Quarrying



Demolition & Renovation



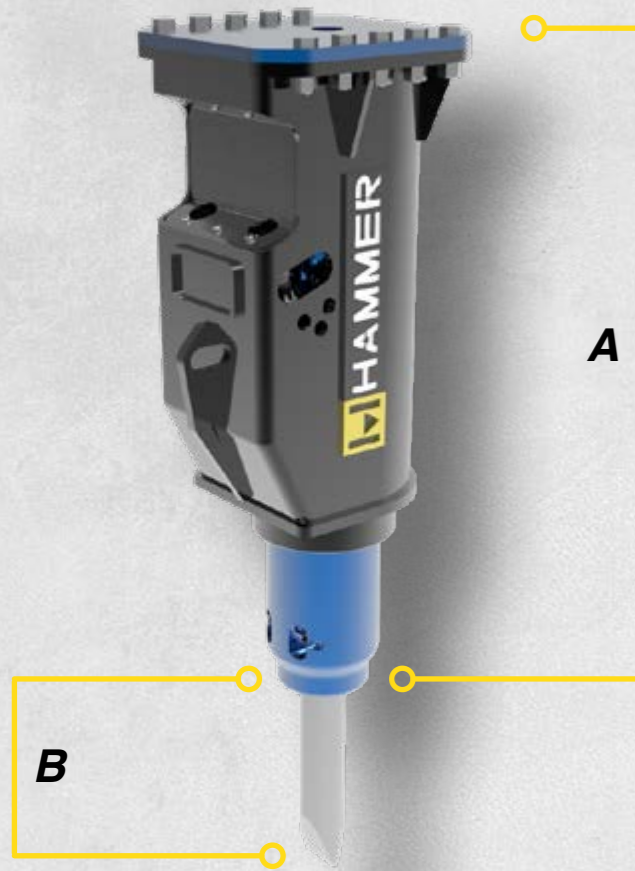
Metallurgic Industry



Construction



Recycling



#### BLUNT TOOL

Suitable for reinforced concrete and very compact rocks.



#### PYRAMID TOOL

Suitable for reinforced concrete and very compact rocks.



#### CHISEL TOOL

Suitable for medium-hard and layered rocks.



#### MOIL POINT

Suitable for concrete, medium-hard and not layered rocks.



#### PILE DRIVER

Suitable for planting wooden or concrete poles.



#### WOOD CUTTER TOOL

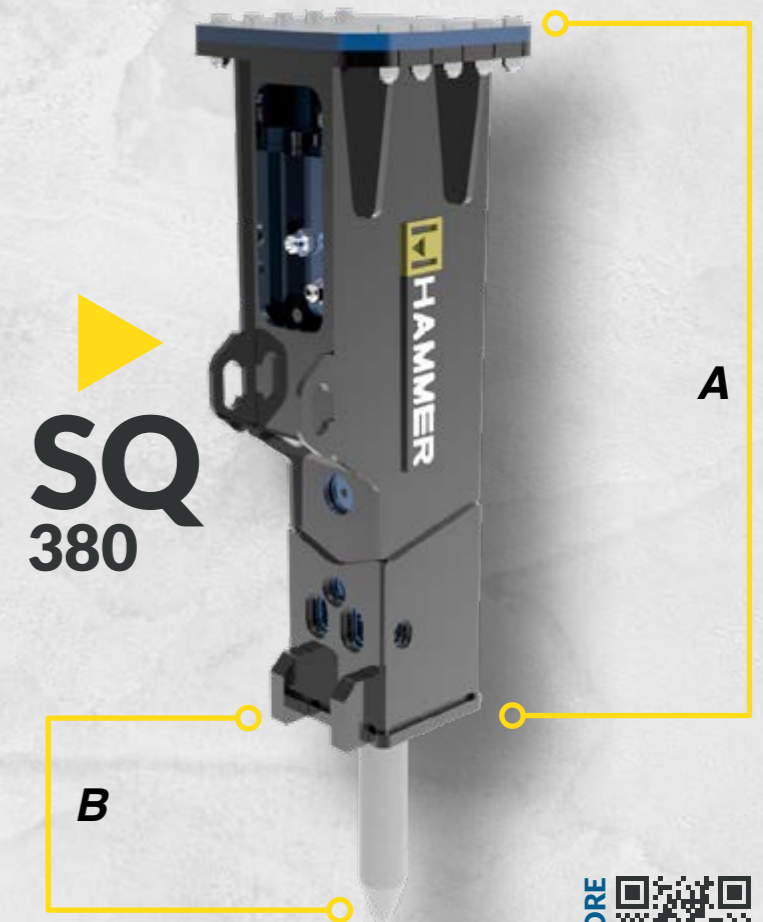
Suitable for cutting all types of wood.



#### ASPHALT CUTTER

Suitable for cutting asphalt.

Models		SB55	SB70	SB100	SB150	SB200	SB250	SB300	SQ380	SQ520
Carrier weight	t	0.5-1.4	0.5-1.6	1.2-2.5	1.5-3.8	2.5-5	3-6.5	4.5-8.5	5-10	7-13
Weight	kg	60	70	100	135	190	240	280	350	500
Body height (A)	mm	583	583	666	666	869	869	904	1000	1150
Tool height (B)	mm	200	228	255	255	275	300	295	385	430
Tool diameter	mm	40	40	45	48	55	65	74	77	85
Required oil supply	l/min	15-20	18-23	20-30	22-40	25-55	30-60	50-70	50-80	65-90
Oil hammer pressure	bar	110	110	110	110	130	140	160	160	170
Blows per minute	/min	800-1700	800-1750	800-2300	800-2000	900-1900	850-1800	600-1500	500-1150	400-1000
Energy per blow	j	250	280	400	580	750	950	1200	1600	2400
Max. Back pressure	bar	30	30	30	30	30	30	30	30	30
Inner diam. in hose	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"
Inner diam. out hose	inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"



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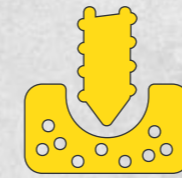
**Efficiency becomes power!**

- Tubes with swivels fully protected.
- Operating pressure adjustment.
- Anti-dust and underwater work setup.
- Automatic hydraulic greasing device.
- Hydraulic system for blank firings.
- Manual blow adjustment.
- Anti-dust system for tunnels.



**AUTOMATIC HYDRAULIC GREASING DEVICE**

Optional mounted on the breaker\*  
The Beka-Lube automatic lubrication system optimizes the lubrication procedure and reduces maintenance and downtimes.



**Mining & Quarring**



**Demolition & Renovation**



**Metallurgic Industry**



**Construction**



**Recycling**



**MOIL POINT**  
Suitable for concrete, medium-hard and not layered rocks.



**PYRAMID TOOL**  
Suitable for reinforced concrete and very compact rocks.



**CHISEL TOOL**  
Suitable for medium-hard and layered rocks.



**BLUNT TOOL**  
Suitable for reinforced concrete and very compact rocks.



**COBRA TOOL**  
Suitable for quarry works, such as primary demolition and reduction of stone blocks.

Models		FX700	FX800	FX950	FX1300	FX1700	FX1900	FX2200
Carrier weight	t	9-13	10-15	11-16	13-19	18-24	22-26	23-29
Weight	kg	700	850	950	1200	1650	1850	2200
Body height (A)	mm	1310	1320	1390	1470	1670	1790	1840
Tool height (B)	mm	430	550	550	560	620	725	720
Tool diameter	mm	95	105	115	120	135	140	150
Required oil supply	l/min	70-100	80-110	90-120	110-140	130-160	140-180	165-190
Oil hammer pressure	bar	160	165	165	170	180	180	180
Blows per minute	/min	600-900	600-900	600-900	400-900	400-800	400-800	400-800
Energy per blow	j	2000	2500	2600	3200	4200	4700	5400
Max. Back pressure	bar	25	25	25	25	25	25	25
Inner diam. in hose	inch	3/4"	1"	1"	1"	1"	1"	1"
Inner diam. out hose	inch	3/4"	1"	1"	1"	1"	1"	1"

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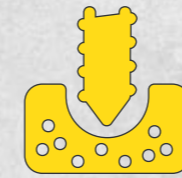
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Models		FX2800	FX3200	FX3700	FX4200	FX5000	FX8000	FX12000
Carrier weight	t	28-35	30-38	35-48	36-52	42-57	60-100	85-170
Weight	kg	2900	3200	3700	4400	4800	7300	11000
Body height (A)	mm	2030	2030	2250	2250	2300	3700	4440
Tool height (B)	mm	710	710	790	790	790	800	760
Tool diameter	mm	160	160	180	180	180	215	255
Required oil supply	l/min	180-240	200-260	250-300	270-320	270-320	380-440	480-570
Oil hammer pressure	bar	180	180	180	190	190	190	190
Blows per minute	/min	350-700	300-650	300-650	300-650	350-700	200-400	150-300
Energy per blow	j	8500	9000	9500	12500	13500	23000	28000
Max. Back pressure	bar	25	25	25	25	25	30	30
Inner diam. in hose	inch	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4
Inner diam. out hose	inch	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4	1" 1/4

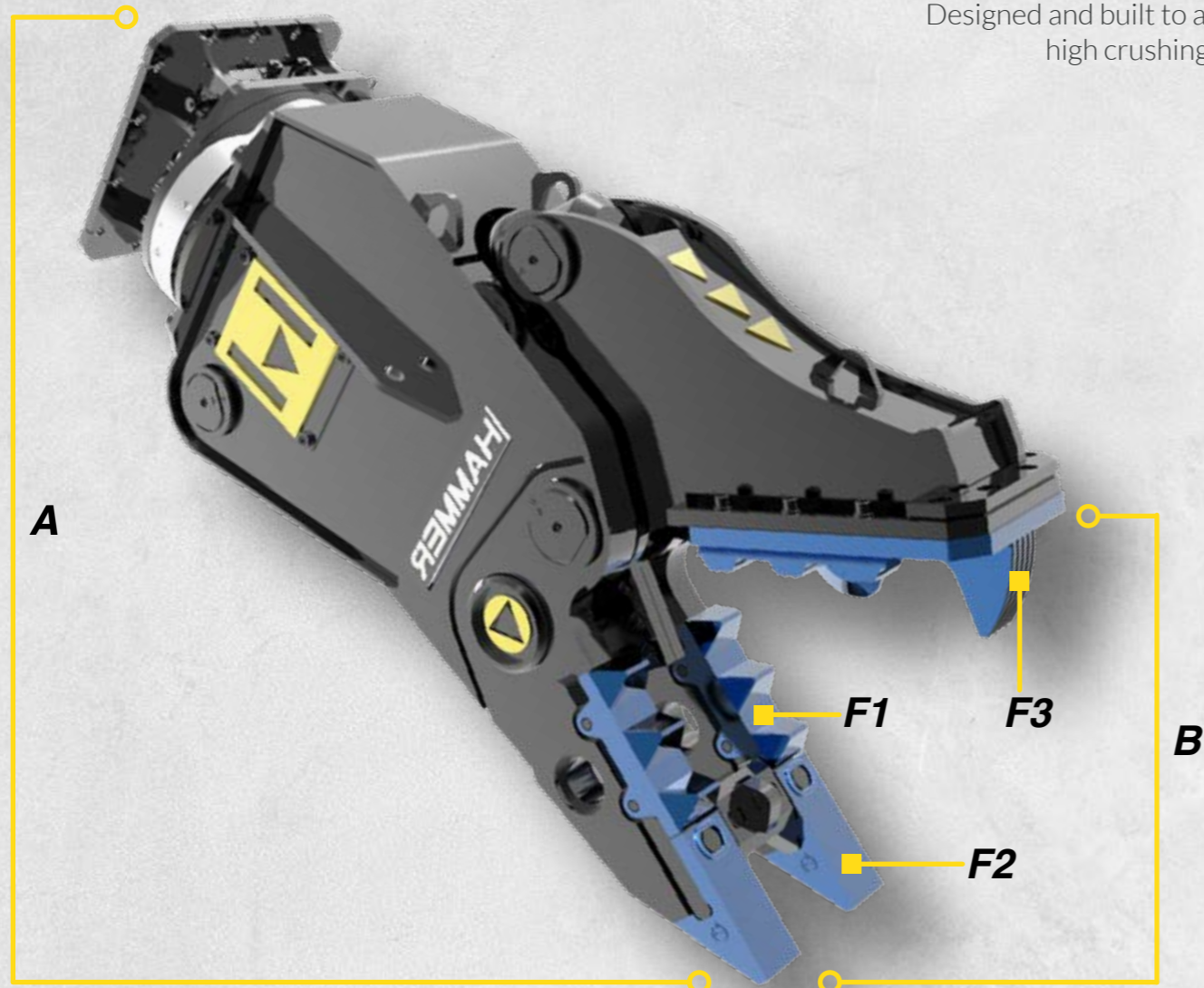
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for excavators from 3 to 90 ton

### Design to last!

Double motors for an excellent rotation and high power.  
 Integrated "relief" valve to avoid pressure peaks on the rotating motor.  
 Double-turn ball bearing (from model FRK17 up).  
 Designed and built to achieve high crushing force.



Mining & Quarrying



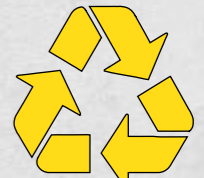
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Construction



Recycling

Models		FRK03	FRK06	FRK10	FRK13	FRK17	FRK21
Carrier weight	t	3-8	6-13	9-17	12-20	14-23	16-27
Weight	kg	330	570	1000	1400	1650	2000
Excavator oil flow capacity	l/min	30-70	60-100	70-110	110-160	140-200	180-230
Excavator working pressure	bar	280	320	300	300	300	300
360° Rotation	°	360°	360°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	10-25	20-40	20-40	30-60	40-60	40-60
Rotation Pressure	bar	100	100	100	140	140	140
A	mm	1280	1450	1620	1900	2000	2100
B	mm	415	520	605	655	720	780
Steel blade length	mm	120	150	150	160	200	200
F1	t	110	130	150	190	195	220
F2	t	60	65	70	120	120	120
F3	t	35	40	45	53	63	70
Ø Max	mm	28	30	30	40	40	50

Models		FRK26	FRK32	FRK42	FRK60	FRK80
Carrier weight	t	20-32	26-40	32-55	50-70	65-90
Weight	kg	2400	3300	4200	4800	6650
Excavator oil flow capacity	l/min	200-300	250-350	350-450	400-500	450-600
Excavator working pressure	bar	320	320	350	350	350
360° Rotation	°	360°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	40-60	40-60	40-60	40-60	50-70
Rotation Pressure	bar	140	140	140	140	140
A	mm	2300	2500	2700	2965	3300
B	mm	880	1000	1100	1250	1400
Steel blade length	mm	200	200	250	250	250
F1	t	250	370	505	610	735
F2	t	140	225	285	345	415
F3	t	80	100	115	140	170
Ø Max	mm	55	60	65	70	80

THE ROTARY PULVERIZERS OF THE NEW FRK SERIES HAVE BEEN DEVELOPED FOR PRIMARY AND SECONDARY DEMOLITION.

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**FRK**  
SERIES

DEMOLITION ROTATING PULVERIZER

for excavators from 3 to 90 ton

**Design to last!**

Double motors for an excellent rotation and high power.  
 Integrated "relief" valve to avoid pressure peaks on the rotating motor.  
 Double-turn ball bearing (from model FRK17 up).  
 Designed and built to achieve high crushing force.



Mining & Quarring



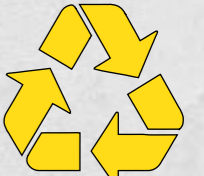
Demolition & Renovation



Metallurgic Industry



Construction



Recycling

**FEEL THE POWER**



PRESSURE UP TO **350 BAR**



ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE

**\*OPTIONAL SPEED VALVE**  
FROM MODEL FRK17 UP



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# MCK SERIES

## 2-CYLINDER CONCRETE CRUSHER

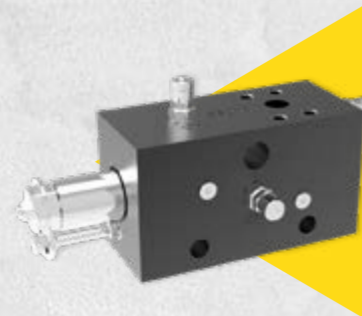
for excavators from 1 to 80 ton

### Not even the hardest job can withstand the MCK!

- Double motors for an excellent rotation and high power (MCK18 up).
- Double-turn ball bearing (MCK18 up).
- Jaws highly resistant.
- High cutting power.
- Cylinders fully protected from possible debris during demolition.



“A” JAW



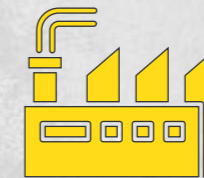
\*OPTIONAL SPEED VALVE  
FROM MODEL MCK18 UP



Mining  
& Quarrying



Demolition  
& Renovation



Metallurgic  
Industry



Construction



Recycling



▶ MCK01



“F” JAW  
CRUSHER



“A” JAW

Models		MCK01	MCK03-A	MCK06-A	MCK03-F	MCK06-F	MCK10-F
Carrier weight	t	1-4*	3-9	7-15	3-9	7-15	10-17
Weight	kg	190	300	650	300	650	1200
Closing force	t**	38	50	60	50	60	70
Jaw opening	mm	390	400	550	400	525	780
Jaw depth	mm	400	430	600	430	600	690
Width upper jaw	mm	50	40	45	40	45	50
Height	mm	980	1150	1500	1150	1500	1800
Length of cutting blades	mm	100	100	165	100	165	200
Opening/Closing Pmax	bar*	220	260	320	260	320	320
Flow	l/min	20-50	30-50	70-120	30-50	70-120	90-150
Rotation Pmax	bar	120	100	100	100	100	140
Flow	l/min	10-25	10-30	10-30	10-30	10-30	40-60
Back pressure max.	bar	-	-	-	-	-	-
Cycle time Opening/Closing	sec	1.8/2.5	1.8/2.5	2.2/3.0	1.8/2.5	2.2/3.0	2.4/3.1

\* EXCAVATORS WITH  
WEIGHT FORM 1 TO 4 ton.

👤 For excavators with remote control ( with sabliser )



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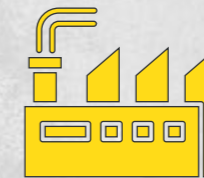
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Mining & Quarrying



Demolition & Renovation



Metallurgic Industry



Construction



Recycling

- Hydraulic system fully protected by the frame.
- Perfect jaws geometry ensures that blades remain sharp longer.
- Wearing jaws and blades easily replaceable on site
- \*optional Customized jaws are available for every customer need .



“L” JAW  
WOOD CUTTER



“F” MCK  
CRUSHING KIT



“F” JAW



“A” JAW

USED FOR CUTTING AND CRUSHING CONCRETE WITH STEEL REINFORCEMENT AND FOR CUTTING STEEL STRUCTURES, THE HAMMER CONCRETE CRUSHER HAS BEEN DEVELOPED FOR PRIMARY AND SECONDARY DEMOLITION.

Models		MCK10-A	MCK15-A	MCK15-L	MCK15-F	MCK18-A	MCK24-A	MCK30-A	MCK40-A
Carrier weight	t	10-17	14-20	14-20	14-20	18-25	20-35	25-45	35-55
Weight	kg	1200	1400	1400	1400	2000	2425	3250	4200
Closing force	t**	70	78	78	78	84	96	108	124
Jaw opening	mm	780	825	854	825	1000	1150	1360	1500
Jaw depth	mm	690	780	780	780	865	935	1335	1135
Width upper jaw	mm	50	55	55	55	60	70	80	90
Height	mm	1800	1980	1980	1980	2195	2390	2545	2845
Length of cutting blades	mm	200	200	200	200	200	250	300	300
Opening/Closing Pmax	bar*	320	320	320	320	320	320	320	320
Flow	l/min	90-150	110-170	110-170	110-170	150-250	200-300	250-350	300-500
Rotation Pmax	bar	140	140	140	140	140	140	140	140
Flow	l/min	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Back pressure max.	bar	-	-	-	-	-	-	-	-
Cycle time Opening/ Closing	sec	2.4/3.1	2.3/3.0	2.3/3.0	2.3/3.0	2.3/3.0	2.5/3.4	3.3/3.6	3.2/3.4

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# MCK SERIES

## 2-CYLINDER CONCRETE CRUSHER

for excavators from 1 to 80 ton

### Not even the hardest job can withstand the MCK!

- Double motors for an excellent rotation and high power (**MCK18 up**).
- Double-turn ball bearing (**MCK18 up**).
- Jaws highly resistant.
- High cutting power.
- Cylinders fully protected from possible debris during demolition.



“C” JAW

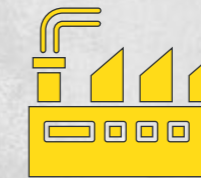
USED FOR CUTTING AND CRUSHING CONCRETE WITH STEEL REINFORCEMENT AND FOR CUTTING STEEL STRUCTURES, THE HAMMER CONCRETE CRUSHER HAS BEEN DEVELOPED FOR PRIMARY AND SECONDARY DEMOLITION.



Mining  
& Quarrying



Demolition  
& Renovation



Metallurgic  
Industry



Construction



Recycling

- Hydraulic system fully protected by the frame.
- Perfect jaws geometry ensures that blades remain sharp longer.
- Wearing jaws and blades easily replaceable on site
- \*optional** Customized jaws are available for every customer need .



“C” JAW

Models		MCK10-C	MCK15-C	MCK18-C	MCK24-C	MCK30-C	MCK40-C
Carrier weight	t	10-17	14-20	18-25	20-35	25-45	35-55
Weight	kg	1200	1400	2100	2425	3300	4320
Closing force	t**	70	78	84	96	108	124
Jaw opening	mm	780	825	1000	1150	1360	1500
Jaw depth	mm	690	780	865	935	1335	1135
Width upper jaw	mm	50	55	60	70	80	90
Height	mm	1800	1980	2195	2390	2545	2845
Length of cutting blades	mm	200	200	200	250	300	300
Opening/Closing Pmax	bar*	320	320	320	320	320	320
Flow	l/min	90-150	110-170	150-250	200-300	250-350	300-500
Rotation Pmax	bar	140	140	140	140	140	140
Flow	l/min	40-60	40-60	40-60	40-60	40-60	40-60
Back pressure max.	bar	-	-	-	-	-	-
Cycle time Opening/ Closing	sec	2.4/3.1	2.3/3.0	2.3/3.0	2.5/3.4	3.3/3.6	3.2/3.4

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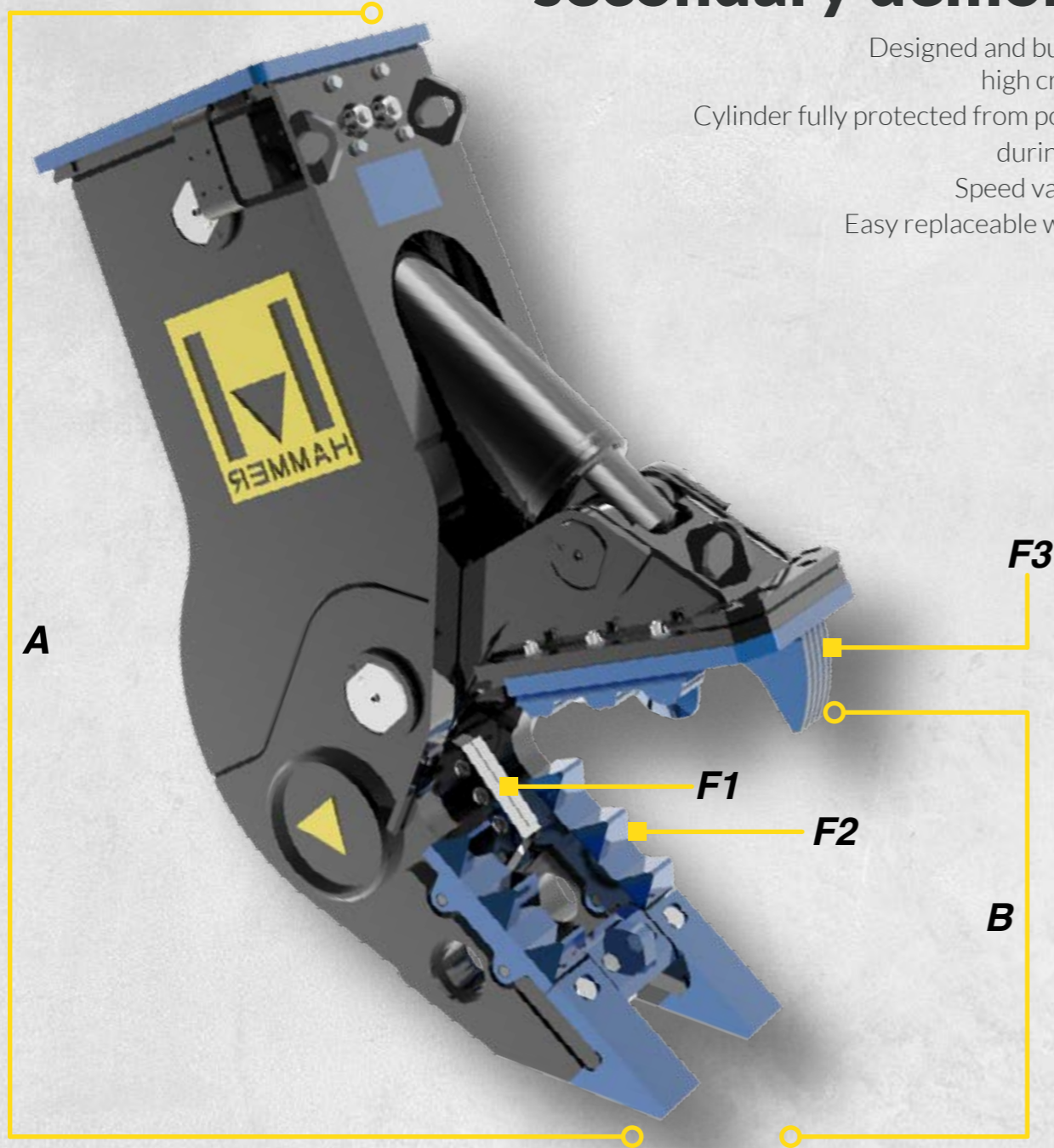
# FPK SERIES

## STATIC PULVERIZERS

for excavators from 15 to 60 ton

# First quality secondary demolition

Designed and built to achieve high crushing force.  
Cylinder fully protected from possible debris during demolition.  
Speed valve \*optional.  
Easy replaceable wearing parts.



Mining & Quarring



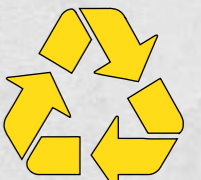
Demolition & Renovation



Metallurgic Industry



Construction



Recycling

Models		FPK16	FPK21	FPK32	FPK42
Carrier weight	t	15-25	20-35	27-45	35-60
Weight	kg	1600	2000	3000	4000
Excavator oil flow capacity	l/min	140-200	200-250	220-280	260-340
Excavator working pressure	bar	350	350	350	350
A	mm	2090	2230	2450	2750
B	mm	745	840	980	1200
Steel blade length	mm	200	200	300	300
F1	t	240	285	355	415
F2	t	100	125	155	200
F3	t	70	80	95	110
Ø Max	mm	35	45	55	70



ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE

**\*OPTIONAL SPEED VALVE**



DESIGNED FOR SECONDARY DEMOLITION, HAMMER STATIC PULVERIZERS CAN BOTH BREAK UP REINFORCED CONCRETE STRUCTURES AND SEPARATE THE STEEL.



# FR SERIES

## ROTATING PULVERIZERS

for excavators from 5 to 32 ton

# No limits to demolition

Rotation 360°.

Integrated "relief" valve to avoid pressure peaks on the rotating motor.

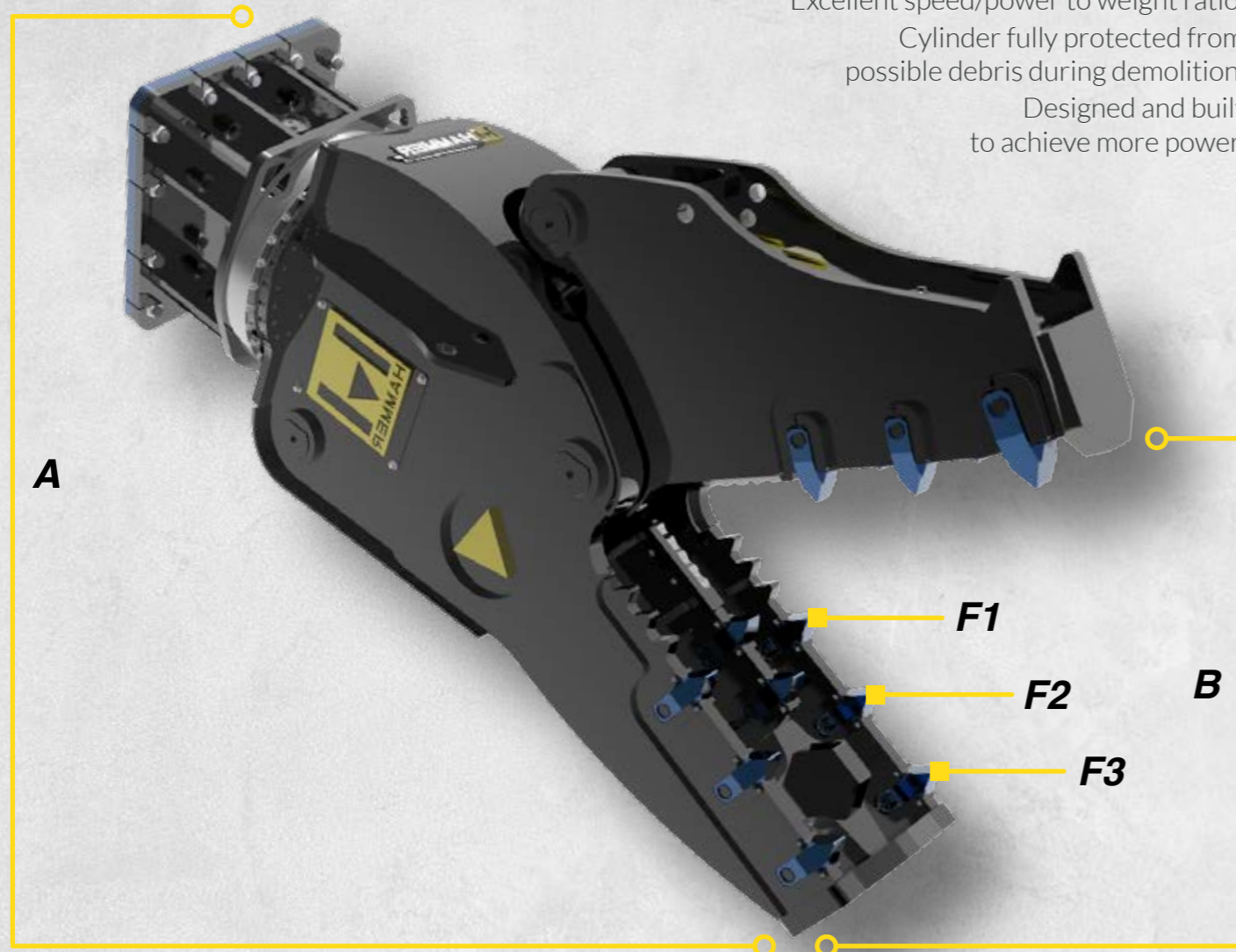
Double-turn ball bearing **(from model FR15 up)**.

Double motor for extra power and precision **(from model FR15 up)**.

Excellent speed/power to weight ratio.

Cylinder fully protected from possible debris during demolition.

Designed and built to achieve more power.



Mining  
& Quarrying



Demolition  
& Renovation



Metallurgic  
Industry



Construction



Recycling

**FEEL  
THE  
POWER**

**PRESSURE  
UP TO  
350 BAR**



ALL THE PARTS THAT  
MOSTLY UNDERGO  
WEARING ARE EASILY  
REPLACEABLE

Models		FR04	FR07	FR09	FR12	FR15	FR21	FR26
Carrier weight	t	5-10	8-13	11-15	14-18	16-22	18-27	24-32
Weight	kg	550	790	950	1450	1700	2050	2500
Excavator oil flow capacity	l/min	50-70	60-100	70-110	110-160	140-200	180-230	200-300
Excavator working pressure	bar	280	300	300	300	300	300	300
360° Rotation	°	360°	360°	360°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	5-8	5-8	5-8	20-25	20-30	20-30	20-30
Rotation Pressure	bar	100	100	100	70	70	70	70
A	mm	1400	1570	1600	1850	1950	2200	2300
B	mm	440	600	650	680	710	800	920
Steel blade length	mm	160	160	160	200	200	200	200
F1	t	100	115	140	180	195	234	250
F2	t	50	55	65	110	120	135	140
F3	t	30	35	40	57	65	80	85
Ø Max	mm	20	25	25	35	40	45	50

THE ROTARY PULVERIZERS OF THE NEW FR SERIES HAVE BEEN DEVELOPED FOR PRIMARY AND SECONDARY DEMOLITION. THE JAWS ARE DESIGNED FOR EACH APPLICATION AREA.

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**Power and performance  
against your scraps**

Extremely high cutting power and optimal performance/weight ratio.

Double motors for an excellent rotation and high power.

Cylinder fully protected from possible debris during demolition.

Body and jaws made of wear resistant steel.

Double-turn ball bearing (from model KSC22 up).

Strong jaw guiding system.

Blades made of indexable steel 4 or 8 times.



THE HAMMER KSC SCRAP SHEARS ARE DESIGNED TO ACHIEVE AN OPTIMAL POWER TO WEIGHT RATIO.

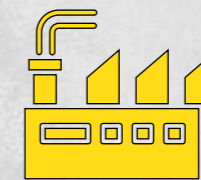
ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE



Mining & Quarrying



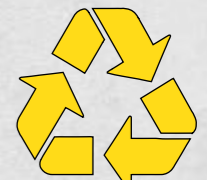
Demolition & Renovation



Metallurgic Industry



Construction



Recycling

Models		KSC03	KSC06	KSC11	KSC17	KSC22
Excavator weight - stick mounting	t	1.5-7	5-12	10-20	13-26	14-28
Excavator weight - boom mounting	t	1.2-5	3-8	7-14	10-20	12-21
Weight	kg	300	480w	1100	1750	2150
Excavator oil flow capacity	l/min	80-100	70-100	150-200	150-250	150-250
Excavator working pressure	bar	280	250	280	320	320
360° rotation	°	360°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	5	20-30	20-30	40-60	40-60
Rotation Pressure	bar	120	80	140	140	140
A	mm	1330	1880	2210	2400	2570
B	mm	265	350	430	470	490
C	mm	230	348	480	480	470
Cutting Force**	kn	1850	2750	3800	4450	4650
Ø Max	mm	25	30	45	65	70
■	mm	22	25	35	55	60
—	mm	5	6	10	15	15
I	mm	80	100	200	275	300
H	mm	60	70	140	180	200

Models		KSC32	KSC45	KSC60	KSC70
Excavator weight - stick mounting	t	20-35	32-55	45-65	65-100
Excavator weight - boom mounting	t	20-30	25-40	35-55	40-50
Weight	kg	3100	4100	5700	7000
Excavator oil flow capacity	l/min	200-300	300-400	350-450	450-550
Excavator working pressure	bar	320	350	350	350
360° rotation	°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	40-60	40-60	40-60	40-60
Rotation Pressure	bar	140	140	140	140
A	mm	2720	3050	3400	4000
B	mm	570	620	660	820
C	mm	490	540	585	700
Cutting Force**	kn	6300	7550	9550	11000
Ø Max	mm	90	100	110	130
■	mm	80	90	100	115
—	mm	20	22	25	30
I	mm	400	450	500	600
H	mm	260	280	310	350

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## HYDRAULIC SCRAP SHEARS

for excavators from 2 to 100 ton

# Power and performance against your scraps

Extremely high cutting power and optimal performance/weight ratio.

Double motors for an excellent rotation and high power.

Cylinder fully protected from possible debris during demolition.

Body and jaws made of wear resistant steel.

Double-turn ball bearing (from model KSC22 up).

Strong jaw guiding system.

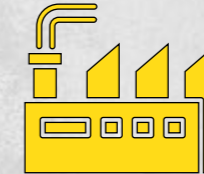
Blades made of indexable steel 4 or 8 times.



Mining & Quarrying



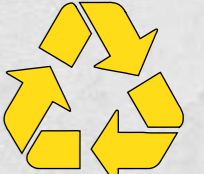
Demolition & Renovation



Metallurgic Industry



Construction



Recycling

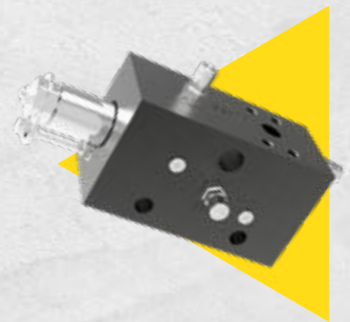
# FEEL THE POWER



## PRESSURE UP TO 350 BAR

- Optimized pin stops
- Replaceable tip
- Specific design
- Use of more performing materials
- Rotation 360°

**\*OPTIONAL SPEED VALVE**  
FROM MODEL KSC22 UP



# x2

## ENHANCED ROTATION SYSTEM

(DOUBLE MOTOR WITH FILTER)

THE HAMMER KSC SCRAP SHEARS ARE DESIGNED TO ACHIEVE AN OPTIMAL POWER TO WEIGHT RATIO.

ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE

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## MOBILE RAIL CUTTER

for excavators from 9 to 23 ton

### Ready, set, cut!

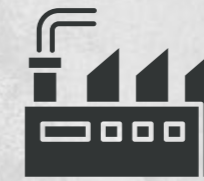
Rotation 360°.  
 Integrated "relief" valve to avoid pressure peaks on the rotating motor.  
 Excellent speed/power to weight ratio.  
 Cylinder fully protected from possible debris during demolition.



Mining & Quarrying



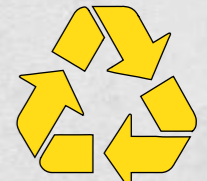
Demolition & Renovation



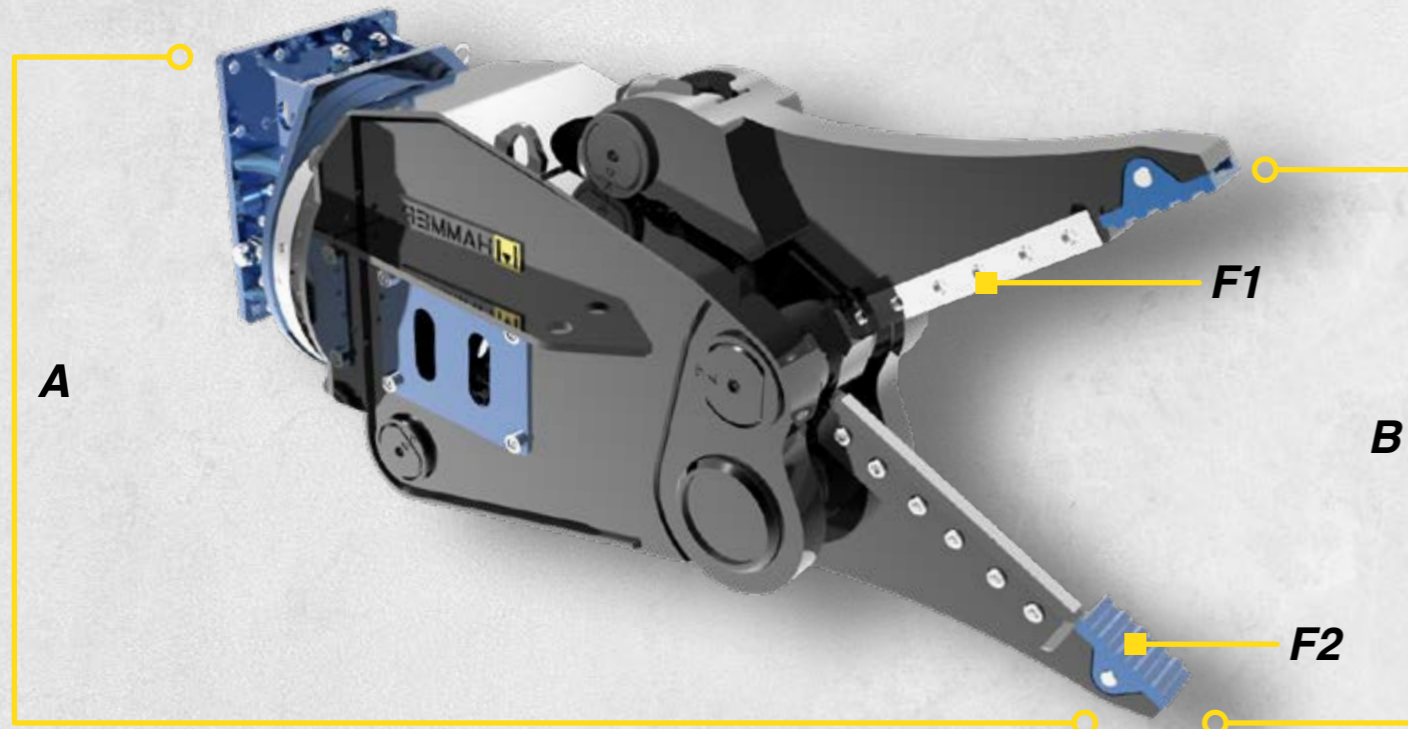
Metallurgic Industry



Construction



Recycling



Models		CS10	CS17
Carrier weight	t	9-17	14-23
Weight	kg	980	1650
Excavator oil flow capacity	l/min	70-110	140-200
Excavator working pressure	bar	320	350
360° Rotation	°	360°	360°
Rotation oil flow capacity	l/min	20-40	40-60
Rotation Pressure	bar	100	140
A	mm	1794	2020
B	mm	753	870
Total Steel blade length	mm	450	520
F1	t	80	195
F2	t	41	120



- Easily interchangeable and reversible blades
- Straight blades for a smooth and precise cut
- Sharp jaws allow components to be removed from vehicles



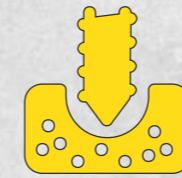
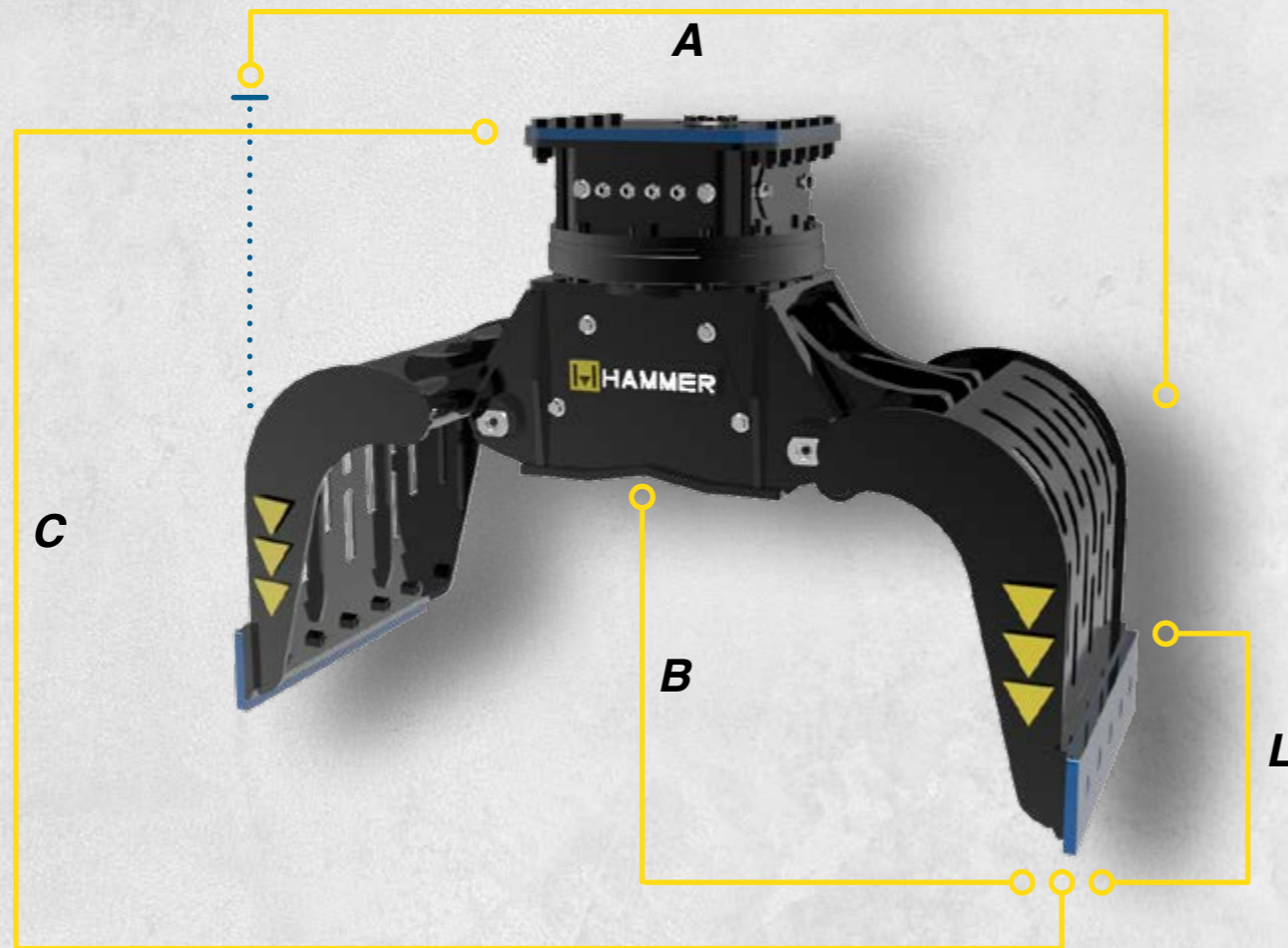
## MULTI-PURPOSE GRABS

for excavators from 1 to 52 ton

# Grab up everything!

Replaceable wear plates (400hb).  
Robust and fully integrated rotation.  
Relief valve for hydraulic rotation.  
Cylinder fully protected from possible debris during demolition.  
Opening/Closing lock valve **\*optional**.

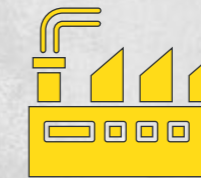
Kit for two hydraulic lines system  
**(GR15-GR75) \*optional**.  
*This kit can only be purchased at the moment of the order. It is not possible to add this kit after the product installation.*



Mining  
& Quarring



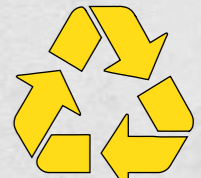
Demolition  
& Renovation



Metallurgic  
Industry



Construction



Recycling

Models		GR10	GR15	GR25	GR45
Carrier weight	t	1-3	1.5-4	4-7	5-12
Weight + Standard Jaw	kg	93	145	240	480
Weight + Demolition Jaw	kg	/	155	310	560
Weight + Teeth Jaw	kg	/	155	245	480
Excavator oil flow capacity	l/min	14	15	20	25
Excavator working pressure	bar	180	200	250	250
360° Rotation	°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	8-16	10-20	10-20	15-25
Rotation Pressure	bar	80	100	100	100
A	mm	700	925	1170	1500
B	mm	270	300	370	470
C	mm	680	700	825	1045
L	mm	300	400	500	600

Models		GR75	GR100	GR150	GR210
Carrier weight	t	7-16	13-19	17-30	25-45
Weight + Standard Jaw	kg	700	1000	1500	1890
Weight + Demolition Jaw	kg	980	1380	1750	/
Weight + Teeth Jaw	kg	710	1000	1510	/
Excavator oil flow capacity	l/min	45	50	75	170
Excavator working pressure	bar	250	300	300	310
360° Rotation	°	360°	360°	360°	360°
Rotation oil flow capacity	l/min	15-25	40-60	40-60	30
Rotation Pressure	bar	100	100	100	210
A	mm	1635	1780	1950	2400
B	mm	520	570	675	690
C	mm	1130	1225	1550	1450
L	mm	700	800	1020	1250

THE NEW MULTI PURPOSE GRABS OF GR SERIES ARE DESIGNED FOR HANDLING, RECYCLING AND SMALL DEMOLITIONS.



# GR SERIES

## MULTI-PURPOSE GRABS

for excavators from 1 to 52 ton

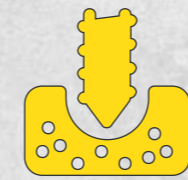
### Grab up everything!

Replaceable wear plates (400hb).  
 Robust and fully integrated rotation.  
 Relief valve for hydraulic rotation.  
 Cylinder fully protected from possible debris during demolition.  
 Opening/Closing lock valve *optional*.

Kit for two hydraulic lines system **(GR15-GR75) optional**.  
*This kit can only be purchased at the moment of the order. It is not possible to add this kit after the product installation.*



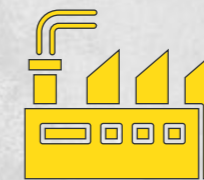
**GR + STANDARD JAW**



Mining & Quarring



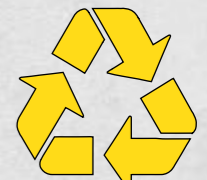
Demolition & Renovation



Metallurgic Industry



Construction



Recycling



**GR + DEMOLITION JAW**



**GR + TEETH JAW**



ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE



CURB HANDLING KIT



FULL SIDE CLOSING KIT



TOOTHED SIDE CLOSING KIT

THE NEW MULTI PURPOSE GRABS OF GR SERIES ARE DESIGNED FOR HANDLING, RECYCLING AND SMALL DEMOLITIONS.

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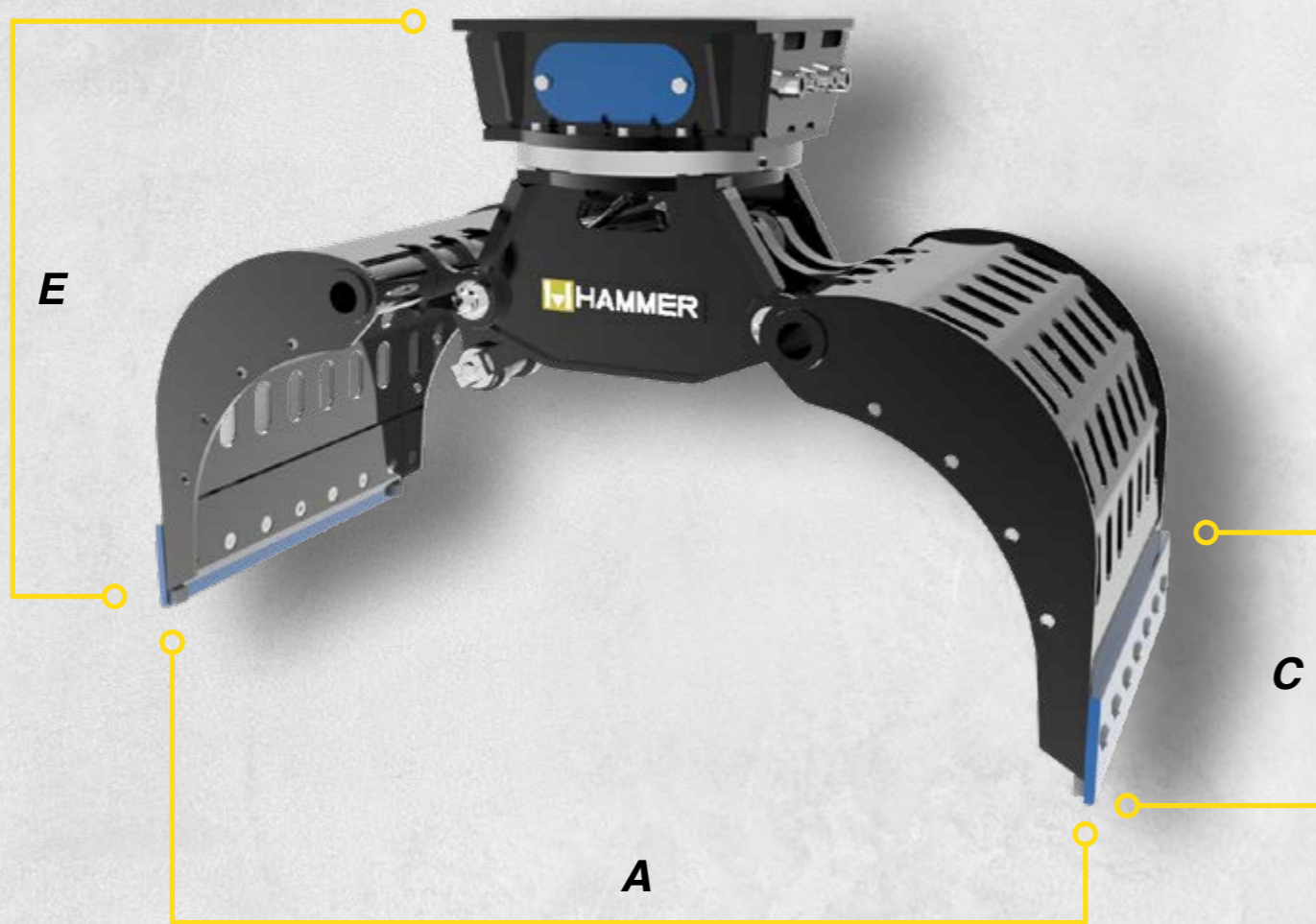
## SORTING GRABS

for excavators from 2.5 to 75 ton

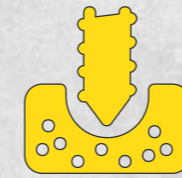
# More power in your hands!

Replaceable wear plates (400hb).  
Robust and fully integrated rotation.  
Relief valve for hydraulic rotation.  
Cylinder fully protected from possible debris during demolition.

**Double cylinder** starting from **PSG95**.  
**"Mechanical Stop"** on the blade to ensure constant wear recovery.



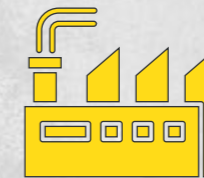
**PSG + STANDARD JAW**



Mining  
& Quarring



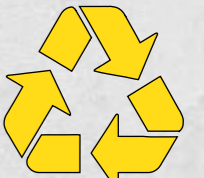
Demolition  
& Renovation



Metallurgic  
Industry



Construction



Recycling

Models		PSG12	PSG25	PSG35	PSG50	PSG80	PSG95	PSG110
Carrier Weight	t	2,5-3,5	3,5-4,5	4,5-6	6-10	10-15	13-18	15-21
Weight	kg	140* / 140**	240* / 245**	405* / 425**	445* / 465**	840* / 890**	970* / 1060**	1040* / 1140**
A	mm	800	1160	1400	1545	1760	1950	1950
Height Closed Jaws	mm	745	900	1075	1170	1340	1490	1490
C	mm	450	500	600	700	800	800	920
Width Closed Jaws	mm	550	790	875	930	1070	1180	1180
E	mm	740	810	960	1000	1135	1250	1250
n° of cylinders	n°	1	1	1	1	1	2	2
Cap SAE	m³	0,1	0,15	0,2	0,25	0,4	0,5	0,6
Excavator working pressure	bar	210	250	300	300	320	350	350
Rotation oil flow capacity	l/min.	20	25	40	50	100	120	120
Rotation Pressure	bar	120	120	140	140	210	210	210
Rotation oil flow capacity	l/min.	3	3	5	5	10 / 20***	10 / 20***	10 / 20***

Models		PSG140	PSG200	PSG250	PSG300	PSG400	PSG500
Carrier Weight	t	17-28	24-35	28-45	35-50	45-65	50-75
Weight	kg	1530* / 1655**	1890* / 2030**	2480* / 2715**	2790* / 3480**	3910* / 4400**	4220* / 4850**
A	mm	2120	2400	2420	2800	2850	3050
Height Closed Jaws	mm	1615	1735	1915	2130	2165	2280
C	mm	1020	1205	1205	1500	1500	1650
Width Closed Jaws	mm	1310	1360	1385	1540	1780	1860
E	mm	1405	1450	1660	1750	1880	1935
n° cylinders	n°	2	2	2	2	2	2
Cap SAE	m³	0,8	0,95	1,0	1,3	1,5	1,8
Excavator working pressure	bar	350	350	350	350	350	350
Rotation oil flow capacity	l/min.	170	170	200	200	250	250
Rotation Pressure	bar	210	210	210	210	250	250
Rotation oil flow capacity	l/min.	10 / 20***	15 / 30***	15 / 30***	15 / 30***	15 / 30***	15 / 30***

\* PSG WITH STANDARD JAW  
\*\* PSG WITH DEMOLITION JAW  
\*\*\* DOUBLE MOTOR

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