

Excavator attachments

*Demolition, excavation line,
material handling, recycling*



SKILLS AND PASSION THAT GIVE RISE TO HISTORY!

In 1970 Mr. Giovanni Modugno began his career as a worker in a small mechanic turnery workshop in Molfetta and, since that year, so much has been done. After being a factory worker, factory manager and production manager, in 1989 he started with other partners a company of hydraulic demolition breakers, until 2004. In the same year he decides to found, together with his son Valerio, a family company for the design, production and sale of hydraulic breakers, which takes the name of "**HAMMER**". The values of a family company have allowed Hammer to establish itself on the global market through 10 branches spread across the continents and a capillary network of dealers and authorized workshops throughout the world.



100% MADE IN ITALY

Hammer guarantees a 100% Made in Italy product of the highest quality, entirely designed and manufactured in the 7 plants (an area of 30000 m²) located in the Industrial Area of Molfetta (BA).

Hammer begins with the design, production and sale of small and medium-sized hydraulic breakers, in addition to the sale of multi-brand spare parts.

Then it comes the introduction of the first examples of demolition shears, which paved the way in the field of demolition and recycling; later, Hammer decides to expand the range of hydraulic breakers, up to the FX 15000 model which, with a weight of 14500 kg, becomes the largest hydraulic breaker in the world.

After the huge success achieved in this segment, Hammer introduces the SB series that benefits from the particular monoblock construction.

This feature gives the structure a very high resistance to leverage efforts. The breaker is built in one piece and there are no side bolts and diaphragms.

It is the turn, then, of the grapple line, with the GR series: 9 models from 145 kg to 2700 kg with 3 different types of jaws, depending on the needs of the operator.

The demolition segment is then widened with the FP series (static hydraulic crusher for secondary demolition), the FR series (rotary hydraulic crusher for primary and secondary demolition) and the FK series (rotary hydraulic crusher for primary demolition).

RESEARCH AND DEVELOPMENT

Our work is based on continuous innovation and research in the 8 factories of Molfetta, where there are:

an equipped workshop with 65 high-productivity CNC machines;

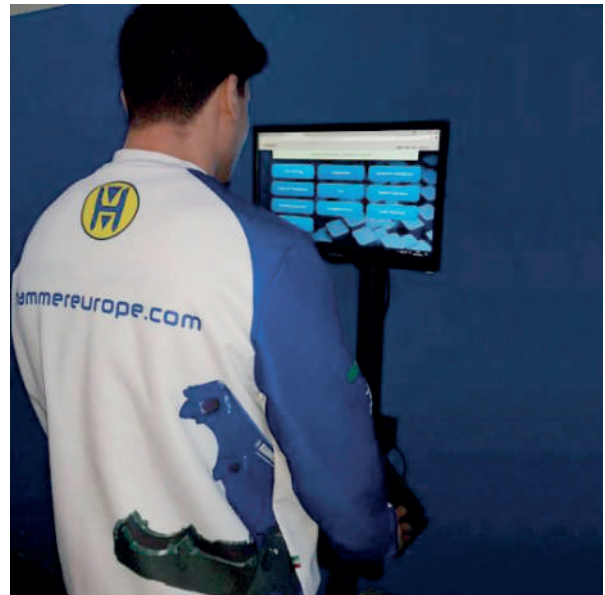
the grinding and testing department where we make sure of the absolute correctness of the various components of our products;

the carpentry department, equipped with 5 latest generation plasma cutting, 5 robot welding stations and 2 robot stations for assembly;

the assembly department, where the technical staff, composed of qualified people constantly updated on the new technologies of the sector, assembles the whole Hammer line;

a large spare parts warehouse that, thanks to the 6 automated modules that develop vertically, allows us to speed up and optimize the assembly of our range and to increase the storage area of 1000 m2.

Moreover, thanks to the Industry investment plan 4.0, we managed to further optimize the production process. The search for new solutions and innovations on existing products consists the basis of our activity to be protagonists in the market and to offer our customers always the best.



PRODUCT OVERVIEW

Hammer offers the right equipments for every needs



SB



FX



FX

Hydraulic breakers

pages 8-17



DX

Drum cutters

pages 18-21



FP

Static pulverizers

pages 22-23



FR



FK

Rotating pulverizers

pages 24-27



FRK

Demolition rotating pulverizers

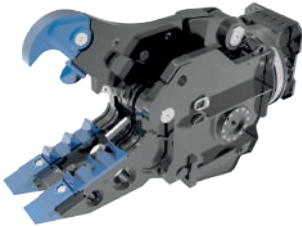
pages 28-29



NGK

Booster rotating pulverizers

pages 30-31



MQP

Multi-Quick Processors

pages 32-35



MCK

Concrete crushers

pages 36-37



KSC

Scrap shears

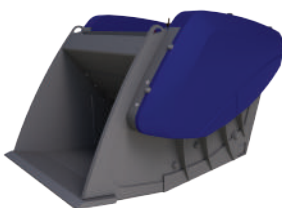
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GR

Selector grabs

pages 40-41



KB

Crushing buckets

pages 42-43



KR



Screening buckets

pages 44-45

STRENGTH AND EFFICIENCY

The hydraulic breaker is an equipment of the earth-moving and mining industry, whose components are subjected to high levels of stress, working mostly in difficult situations.

In order to make hydraulic breakers increasingly reliable and to guarantee performance and power, **HAMMER** has introduced the SB and FX lines, obtained thanks to in-depth R&D studies carried out in over 30 years of activity.

For the production of these ranges, the best high-alloy steels on the market 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 the quality of the materials used and the types of the same, so as to adapt them to the right ratio between the variables speed, pressure, temperature, obtaining thus greater durability.



SB
70-540kg



FX
700-14500kg



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

WE'RE ALWAYS READY FOR CHALLENGES

With ref. to SB and FX series, Hammer Srl, thanks to its experience, has chosen to design and build "nitrogen" breakers in order to obtain a high power distributed over a higher number of blows per minute, thus resisting high counterpressures up to 30 bar. The breaker is also very compactly structured in order to reduce stress on the excavator 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

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

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Application overview

Mining & quarrying



Preliminary works	<ul style="list-style-type: none"> › Overburden removal › Bench, road & ramp leveling › Roof, face & rib scaling
Secondary breaking	<ul style="list-style-type: none"> › Boulder reduction in rock pile › Removing blockages at crushing systems
Primary rock breaking	<ul style="list-style-type: none"> › Selective rock breaking › Blast-free mining

SB	FX (700-1700)	FX (2200-15000)
●	●	●
●	●	●
●	●	●

Demolition & renovation



Masonry structures	<ul style="list-style-type: none"> › Brickwork › Natural stone › Autoclaved aerated concrete
Concrete structures	<ul style="list-style-type: none"> › Lightweight concrete › Standard concrete
	<ul style="list-style-type: none"> › Heavyweight concrete
Composite steel & concrete structures	<ul style="list-style-type: none"> › Steel-reinforced concrete › Prestressed concrete › Fiber-reinforced concrete
Pavements	<ul style="list-style-type: none"> › Asphalt › Concrete › Composite surfaces

●	●	●
●	●	●
●	●	●
●	●	●
●	●	●

Construction



Earthworks	<ul style="list-style-type: none"> › Trenching › Pit building › Ground excavation
Tunneling	<ul style="list-style-type: none"> › Tunnel driving › Roof, face & rib scaling › Floor leveling
Dredging	<ul style="list-style-type: none"> › Canal deepening & extension › Dock deepening & extension
Gardening & Landscaping	<ul style="list-style-type: none"> › Fencing › Ground excavation › Rock breaking
Foundation works	<ul style="list-style-type: none"> › Ground leveling
Building construction	<ul style="list-style-type: none"> › Foundation pile driving

●	●	●
●	●	●
●	●	●
●	●	●
●	●	●
●	●	●

Metallurgical industry



Slag recycling	<ul style="list-style-type: none"> › Boulder reduction in slag heap › Removing blockages at crushing systems
Cleaning & debricking	<ul style="list-style-type: none"> › Ladles › Converter mouths › Kilns

●	●	●
●	●	●

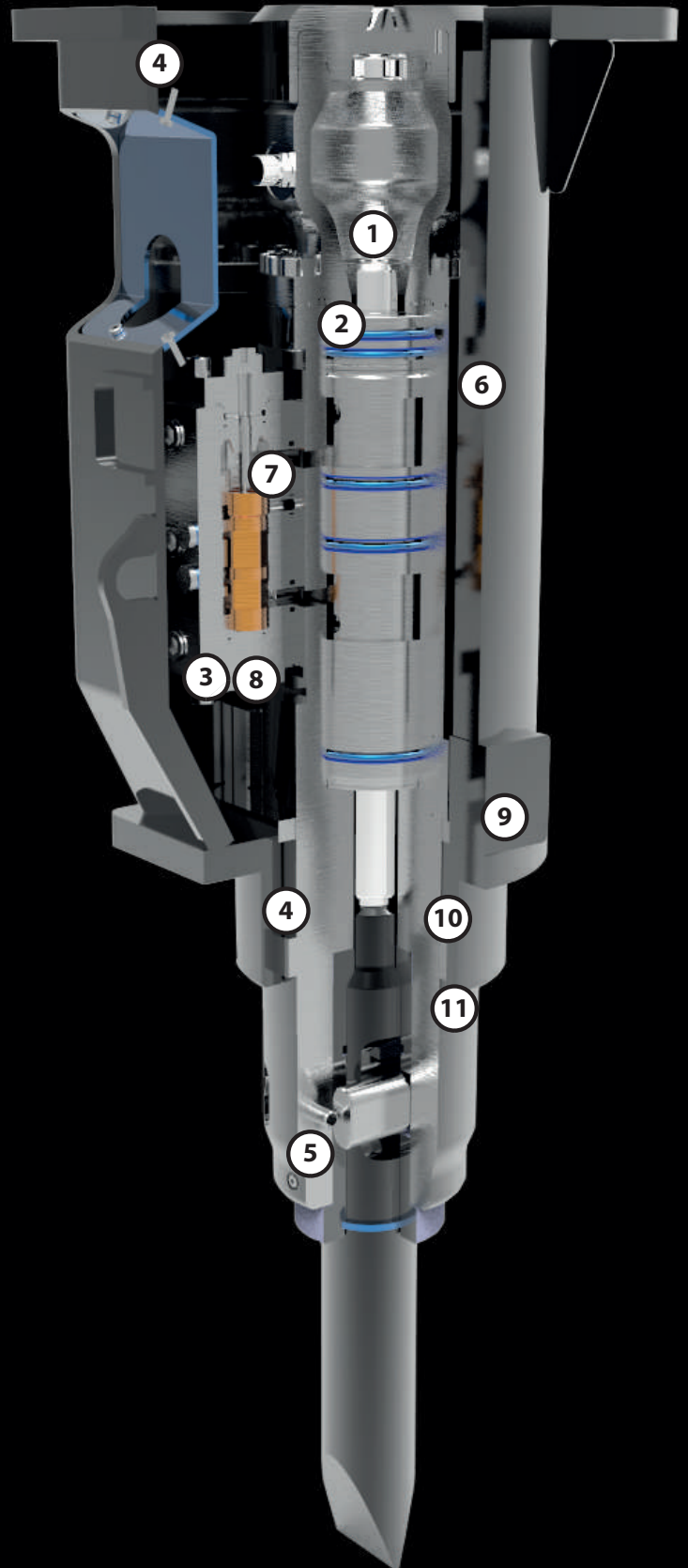
● Optimal ● Suitable ● Unsuitable

BREAK IN A SMART WAY

Monoblock hydraulic breaker without tie rods and diaphragm

SB SERIES

- 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 of the 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** Silenced body
The particular design, with a closed box casing as well as the insertion of sound-absorbing material, allowed to reach very low noise levels for a breaker.
- 5** Double retainer pin
The tool locking system with double retainer pin allows an adequate and uniform wear of the same and ensures longer maintenance intervals for the whole locking system.
- 6** Monoblock 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 get 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 such as to keep a constant energy of impact, as well as for reducing breakages in conditions of criticality.
- 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 section and with open front.





 **HAMMER**[®]
A KINSHOFER COMPANY



HYDRAULIC BREAKERS WITHOUT TIE RODS

8 models for excavators with operating weight from 0,5 to 11 ton

SB SERIES

- MORE POWER / LESS VIBRATIONS AND MAINTENANCE
- LONG LASTING OF THE NITROGEN CHARGE
- PROTECTED TUBES
- SILENCED BODY
- DOUBLE RETAINER PIN
- MONOBLOCK BODY WITHOUT TIE RODS
- ONLY TWO MOVING PARTS
- FOR ALL TYPES OF INSTALLATIONS
- VISIBILITY AND VERSATILITY



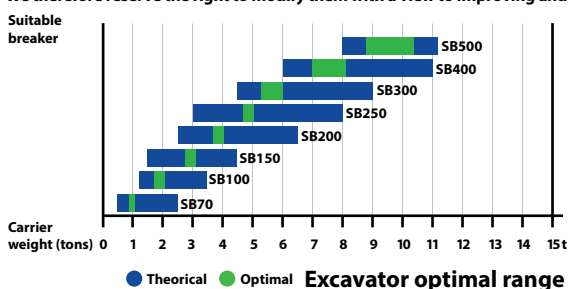
BREAK IN A SMART WAY

MODELS

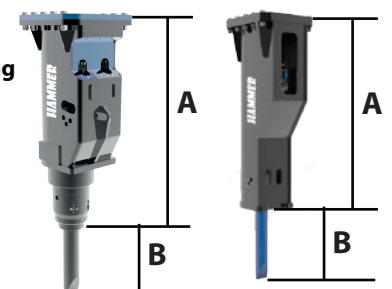
		SB70	SB100	SB150
CARRIER WEIGHT	t	0.5-2.5	1.2-3.5	1.5-4.5
WEIGHT	kg	70	100	145
BODY HEIGHT (A)	mm	583	666	666
TOOL HEIGHT (B)	mm	228	255	255
CHISEL DIAMETER	mm	40	45	48
REQUIRED OIL SUPPLY	l/min	13-20	15-30	18-40
OIL HAMMER PRESSURE	bar	100	110	110
BLOWS PER MINUTE	/min	800-1750	800-2300	800-2000
ENERGY PER BLOW	j	280	400	580
MAX. BACK PRESSURE	bar	30	30	30
INNER DIAM. IN HOSE	inch	1/2"	1/2"	1/2"
INNER DIAM. OUT HOSE	inch	1/2"	1/2"	1/2"

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Technical Drawing





**FIND OUT
MORE**



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



Pile Driver
Suitable for planting
wooden or concrete poles.



Asphalt Cutter
Suitable for cutting asphalt



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.



Wood Cutter Tool
Suitable for cutting all types
of wood.



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		SB200	SB250	SB300	SB400	SB500
CARRIER WEIGHT	t	2.5-6.5	3.0-8.0	4.5-9.0	6.0-11	8.0-11
WEIGHT	kg	190	250	320	430	540
BODY HEIGHT (A)	mm	869	869	904	1135	1135
TOOL HEIGHT (B)	mm	275	300	295	378	431
CHISEL DIAMETER	mm	55	65	75	80	90
REQUIRED OIL SUPPLY	l/min	25-55	30-60	50-70	75-90	85-110
OIL HAMMER PRESSURE	bar	130	140	160	150	150
BLOWS PER MINUTE	/min	900-1900	850-1800	600-1500	500-1300	600-1200
ENERGY PER BLOW	j	750	950	1200	1700	2300
MAX. BACK PRESSURE	bar	30	30	30	30	30
INNER DIAM. IN HOSE	inch	1/2"	1/2"	3/4"	3/4"	3/4"
INNER DIAM. OUT HOSE	inch	1/2"	1/2"	3/4"	3/4"	3/4"

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HAMMER GREASE

HAMMER GREASE 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 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)



Consider the difference

A Hammer breaker and rolling bearings or machinery pins are very different engineering components... so are their mechanical and functional lubrication requirements.

"Multipurpose" industrial greases are very far from specialist breaker lubricants.

Often many so called "breaker greases" are conventional greases with solid lubricants.

Why is correct lubrication so important?

A Hammer breaker operates at high frequency under heavy load, which means high thermal and mechanical stress.

Inadequate lubricants generate excessive wear and deposits.



Not-specific grease



Hammer Grease

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 full protection from wear and seizing
- Cost savings: highly efficient and correct lubrication will ensure full protection and dramatically reduce 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.



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.

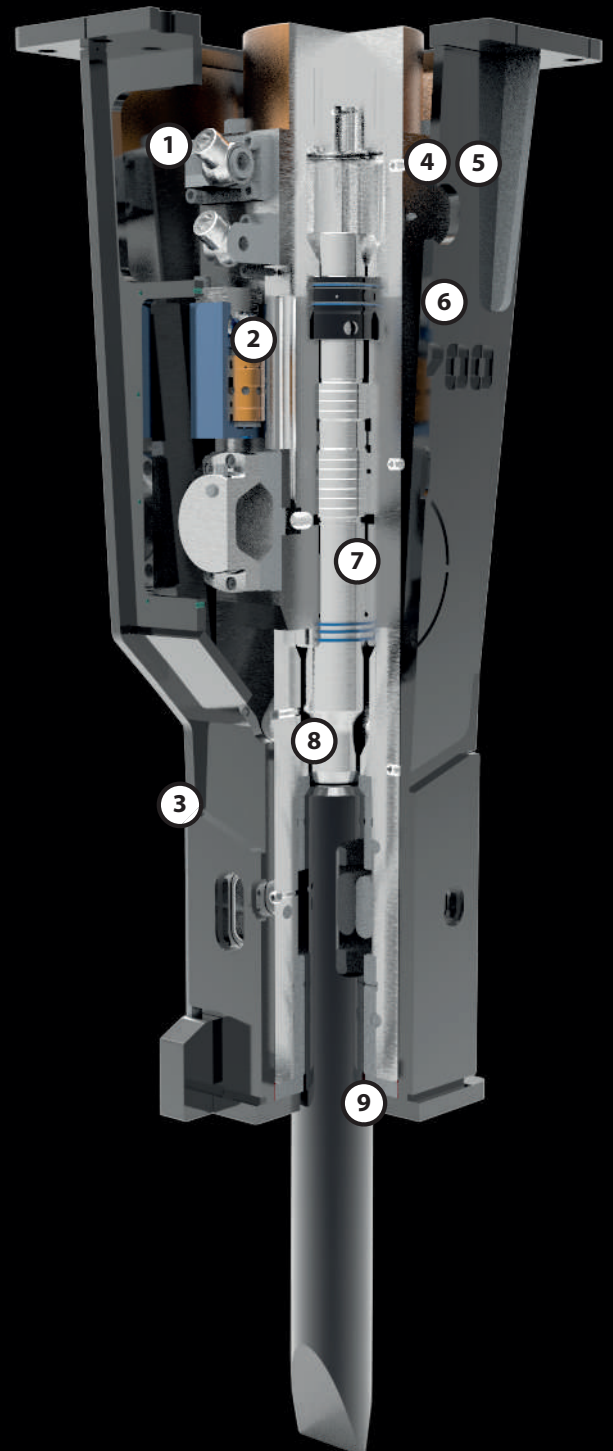
EFFICIENCY BECOMES POWER

Hammer Hydraulic Breakers

FX SERIES

- 1** Tubes with swivels fully protected from any bad uses and resistant to vibrations in case of lack of nitrogen in the chamber.
- 2** Regulation of the operating pressure
For the FX series (FX950-15000), it is possible to adjust the working pressure by a manual valve located frontally, on the distribution of the breaker.
- 3** Anti-dust and underwater work set up
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 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 own 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 adjustment of blows
For the FX series (FX950-FX15000), the regulation of the blows is carried out manually by an adjusting valve located on the side of the breaker.
- 7** Hydraulic system for blank firings
The hydraulic system is a regenerative oil circuit that avoids blank firings when the tool is not in contact with the rock.
- 8** The piston is built with a special geometry such as to keep a constant energy of impact, as well as for reducing breakages in conditions of criticality.
- 9** Anti-dust system for tunnels (optional)
The anti-dust system consists of the addition of a dustproof seal mounted in the lower bush so to avoid the entering of impurities in the circuit.

The breakers of the FX series, thanks to their power and efficiency and to the right ratio between weight and power, 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 HYDRAULIC BREAKERS

14 models for excavators with operating weight from 8 to 200 ton

- TUBES WITH SWIVELS FULLY PROTECTED
- ADJUSTING OF THE OPERATING PRESSURE
- ANTI-DUST AND UNDERWATER WORK SET UP
- AUTOMATIC HYDRAULIC GREASING DEVICE
- MANUAL ADJUSTMENT OF BLOWS
- HYDRAULIC SYSTEM FOR BLANK FIRINGS
- ANTI-DUST SYSTEM FOR TUNNELS

FX SERIES



EFFICIENCY BECOMES POWER

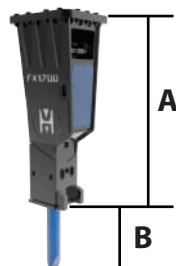
MODELS

		FX700	FX950	FX1300
CARRIER WEIGHT (t/lb)	t	8-15	10-16	14-24
WEIGHT	kg	700	950	1200
BODY HEIGHT (A)	mm	1310	1390	1470
TOOL HEIGHT (B)	mm	430	550	560
CHISEL DIAMETER	mm	95	115	120
REQUIRED OIL SUPPLY	l/min	70-100	90-120	110-140
OIL HAMMER PRESSURE	bar	160	165	170
BLOWS PER MINUTE	/min	600-900	600-900	400-900
ENERGY PER BLOW	j	2000	2600	3200
MAX. BACK PRESSURE	bar	25	25	25
INNER DIAM. IN HOSE	inch	3/4"	1"	1"
INNER DIAM. OUT HOSE	inch	3/4"	1"	1"

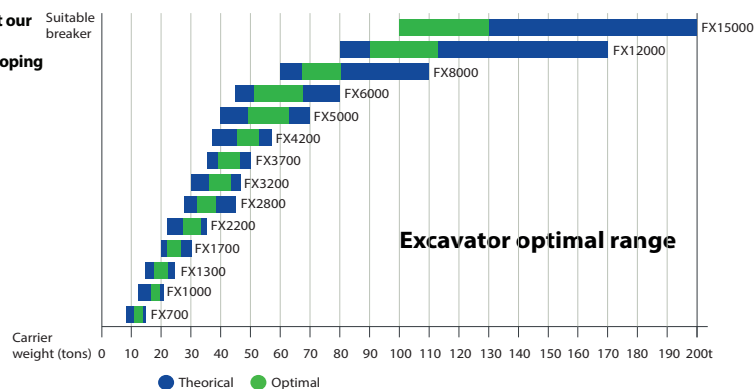
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Suitable breaker

Technical Drawing



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**FIND OUT
MORE**



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



Cobra Tool
Suitable for quarry works,
such as primary
demolition and reduction
of stone blocks.



Blunt Tool
Suitable for reinforced concrete and very
compact rocks.



Chisel Tool
Suitable for medium-hard and
layered rocks.



Pyramid Tool
Suitable for reinforced concrete and very
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**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 & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		FX1700	FX2200	FX2800	FX3200
CARRIER WEIGHT (t/lb)	t	20-30	22-35	28-45	30-47
WEIGHT	kg	1700	2200	2900	3200
BODY HEIGHT (A)	mm	1670	1840	2030	2030
TOOL HEIGHT (B)	mm	620	720	710	710
CHISEL DIAMETER	mm	135	150	160	160
REQUIRED OIL SUPPLY	l/min	130-160	165-190	180-240	200-260
OIL HAMMER PRESSURE	bar	180	180	180	180
BLOWS PER MINUTE	/min	400-800	400-800	350-700	300-650
ENERGY PER BLOW	j	4200	5400	8500	9000
MAX. BACK PRESSURE	bar	25	25	25	25
INNER DIAM. IN HOSE	inch	1"	1"	1" 1/4	1" 1/4
INNER DIAM. OUT HOSE	inch	1"	1" 1/4	1" 1/4	1" 1/4

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HAMMER HYDRAULIC BREAKERS


14 models for excavators with operating weight from 8 to 200 ton

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- AUTOMATIC HYDRAULIC GREASING DEVICE
- MANUAL ADJUSTMENT OF BLOWS
- HYDRAULIC SYSTEM FOR BLANK FIRINGS
- ANTI-DUST SYSTEM FOR TUNNELS

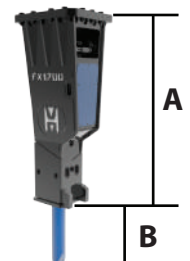


EFFICIENCY BECOMES POWER

MODELS		FX3700	FX4200	FX5000
 CARRIER WEIGHT (t/lb)	t	35-50	37-57	40-70
WEIGHT	kg	3700	4400	4850
BODY HEIGHT	mm	2250	2250	2390
TOOL HEIGHT	mm	790	790	700
CHISEL DIAMETER	mm	175	180	195
REQUIRED OIL SUPPLY	l/min	250-300	270-320	290-350
OIL HAMMER PRESSURE	bar	180	190	250
BLOWS PER MINUTE	/min	300-650	300-650	250-550
ENERGY PER BLOW	j	9500	12500	16500
MAX. BACK PRESSURE	bar	25	25	30
INNER DIAM. IN HOSE	mm	1" 1/4	1" 1/4	1" 1/4"
INNER DIAM. OUT HOSE	mm	1" 1/4	1" 1/4	1" 1/4"

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Technical Drawing



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**Automatic hydraulic greasing
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The Beka-Lube automatic
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and downtimes.



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		FX6000	FX8000	FX12000	FX15000
CARRIER WEIGHT	t	45-80	60-110	80-170	100-200
WEIGHT	kg	5800	7800	12000	14500
BODY HEIGHT	mm	2390	1840	2030	2030
TOOL HEIGHT	mm	620	720	710	710
CHISEL DIAMETER	mm	200	215	255	280
REQUIRED OIL SUPPLY	l/min	300-380	380-440	480-570	500-600
OIL HAMMER PRESSURE	bar	190	190	190	190
BLOWS PER MINUTE	/min	250-550	200-400	150-300	150-250
ENERGY PER BLOW	j	18500	23000	28000	35000
MAX. BACK PRESSURE	bar	30	30	30	30
INNER DIAM. IN HOSE	mm	1" 1/4	1" 1/4	1" 1/2	1" 1/2
INNER DIAM. OUT HOSE	mm	1" 1/4	1" 1/4	1" 1/2	1" 1/2

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DRUM CUTTERS

• 9 models for excavators with operating weight from 2 to 60 ton.


DX SERIES

- HIGH PROFITABILITY**
Robust and low maintenance, precise and profile-true cutting in hard soil and rock, easy reutilization of cut material.
- GREATER EFFICIENCY**
High pick force, extremely high cutting head torque and maximum cutting force due to reduction gear unit.
- MAXIMUM FLEXIBILITY**
Modular construction, large product range of drums and picks, fast and easy replacing of wear parts.



THE BEST SUITED COMPONENTS FOR YOUR PURPOSE

MODELS

		DX04	DX06	DX08	DX15
 CARRIER WEIGHT	t	2-4	4-6	6-8	8-15
WEIGHT	kg	250	250	250	420
NOMINAL POWER MAX.	kw	18-22	18-22	18-22	30
FLOW (MIN/MAX)	l/min	30-65	30-65	30-65	70-120

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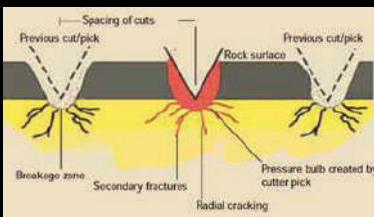
**FIND OUT
MORE**

The cutters with robust spur gearing are driven by high torque motors. In addition, they are equipped with a gear reduction to increase the cutting force. The optimal selection of drum and pick guarantees high performance for loosening of material and reduces wear. The best suited components for your task will provide optimum penetration into the rock at low vibration and noise levels.

Underwater operation in up to 25m water depth is no problem thanks to the heavy duty sealing system.



It is not the performance of the cutter (kW) which is decisive for the cutting operation, but the pick force due to the cutting head torque.



The optimum arrangement of the pick guarantees a high loosening performance and low wear. Thus a smooth cutting reduces vibration on the excavator.



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		DX20	DX30	DX35	DX45	DX60
CARRIER WEIGHT	t	15-20	20-30	30-35	35-45	45-60
WEIGHT	kg	850	1400	1460	2550	2800
NOMINAL POWER MAX.	kw	45	60	90	120	140
FLOW (MIN/MAX)	l/min	100-190	120-210	240-340	250-500	360-550

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DRUM CUTTERS

• 9 models for excavators with operating weight from 2 to 60 ton.

STANDARD DRUM VERSIONS:

Benefit from the variety of drums available in different strengths for all kinds of operations. Special drum versions are available on request.



Excavating Drum

For cutting soft to medium-hard rock. With select pick for maximum productivity and loosening performance.



Profiling Drum

For shaping and leveling soft to medium-hard rocks. Higher density of pick for clean surfaces at reduced vibration.



Demolition Drum

For cutting medium-hard to hard rock and concrete. High running smoothness and reduced vibration due to wear-protected spiral sheet.

PICK VERSIONS:

The specific selection of the pick for the required operation guarantees an optimum loosening performance and low wear.



Standard Pick

For soft to medium-hard rocks. (Asphalt, argillite)



Heavy Duty Pick

For medium-hard to very hard rocks. (Limestone, concrete)



Wear-Protected Pick

For very abrasive rocks. (Sandstone, furnace gravel)



Wood Pick

For wood applications. (Tree stumps)



DX SERIES

MODELS

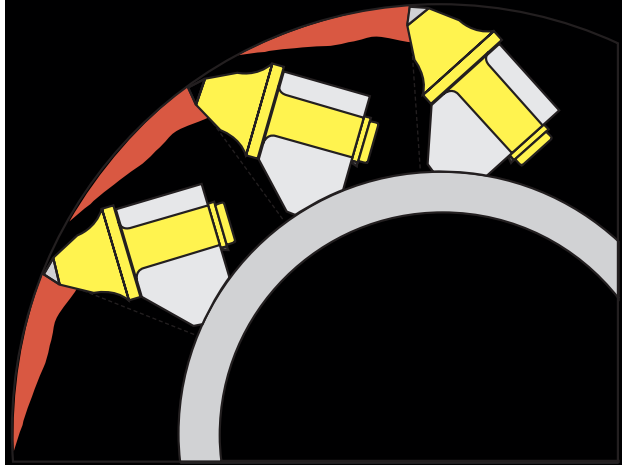
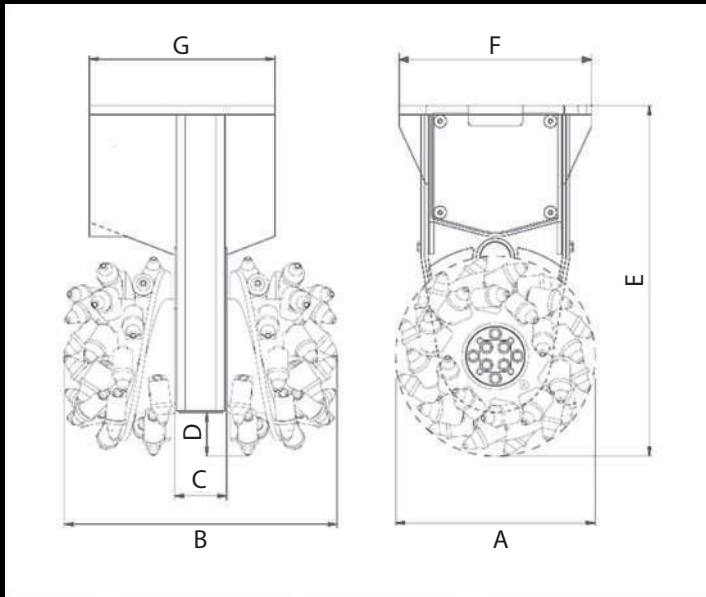
	Weight	Torque*	Cutting force	Nominal power	Flow min. - max.	Rotations per minute	Operating weight
	(ca. kg/lbs)	(Nm/ft.lbs.)	(N/lbf)	(kW / J/s)	(l/min / GPM)	(@ l/min)	(t/lbs)
DX04-Excavating	250 / 550	2330 / 1718	13320 / 2930	18 / 18000	30 - 65 / 7.9 - 17.2	71 @ 30 / 150 @ 65	2 - 4 / 4400 - 8800
DX04-Demolition	250 / 550	2330 / 1718	13320 / 2930	18 / 18000	30 - 65 / 7.9 - 17.2	71 @ 30 / 150 @ 65	2 - 4 / 4400 - 8800
DX04-Profiling	250 / 550	2330 / 1718	20260 / 4457	18 / 18000	30 - 65 / 7.9 - 17.2	71 @ 30 / 150 @ 65	2 - 4 / 4400 - 8800
DX06-Excavating	250 / 550	2800 / 2065	16000 / 3520	18 / 18000	40 - 65 / 10.6 - 17.2	77 @ 40 / 130 @ 65	4 - 6 / 8800 - 13200
DX06-Demolition	250 / 550	2800 / 2065	16000 / 3520	18 / 18000	40 - 65 / 10.6 - 17.2	77 @ 40 / 130 @ 65	4 - 6 / 8800 - 13200
DX06-Profiling	250 / 550	2800 / 2065	24350 / 5357	18 / 18000	40 - 65 / 10.6 - 17.2	77 @ 40 / 130 @ 65	4 - 6 / 8800 - 13200
DX08-Excavating	250 / 550	3900 / 2876	22290 / 4904	22 / 22000	50 - 65 / 13.2 - 17.2	63 @ 50 / 82 @ 65	5 - 8 / 11000 - 17600
DX08-Demolition	250 / 550	3900 / 2876	22290 / 4904	22 / 22000	50 - 65 / 13.2 - 17.2	63 @ 50 / 82 @ 65	5 - 8 / 11000 - 17600
DX08-Profiling	250 / 550	3900 / 2876	33920 / 7462	22 / 22000	50 - 65 / 13.2 - 17.2	63 @ 50 / 82 @ 65	5 - 8 / 11000 - 17600
DX15-Excavating	420 / 924	5500 / 4056	27160 / 5975	30 / 30000	80 - 120 / 21.1 - 31.7	81 @ 80 / 122 @ 120	9 - 14 / 19800 - 30800
DX15-Demolition	420 / 924	5500 / 4056	27160 / 5975	30 / 30000	80 - 120 / 21.1 - 31.7	81 @ 80 / 122 @ 120	9 - 14 / 19800 - 30800
DX15-Profiling	420 / 924	5500 / 4056	27160 / 5975	30 / 30000	80 - 120 / 21.1 - 31.7	81 @ 80 / 122 @ 120	9 - 14 / 19800 - 30800
DX20-Excavating	850 / 1870	9900 / 7300	36000 / 7920	45 / 45000	120 - 190 / 31.7 - 50.2	67 @ 120 / 106 @ 190	12 - 20 / 26400 - 44000
DX20-Demolition	850 / 1870	9900 / 7300	36000 / 7920	45 / 45000	120 - 190 / 31.7 - 50.2	67 @ 120 / 106 @ 190	12 - 20 / 26400 - 44000
DX20-Profiling	850 / 1870	9900 / 7300	42580 / 9368	45 / 45000	120 - 190 / 31.7 - 50.2	67 @ 120 / 106 @ 190	12 - 20 / 26400 - 44000
DX30-Excavating	1400 / 3080	14000 / 10325	45530 / 10017	60 / 60000	140 - 210 / 37 - 55.5	57 @ 140 / 86 @ 210	18 - 30 / 39600 - 66000
DX30-Demolition	1400 / 3080	14000 / 10325	45530 / 10017	60 / 60000	140 - 210 / 37 - 55.5	57 @ 140 / 86 @ 210	18 - 30 / 39600 - 66000
DX30-Profiling	1400 / 3080	14000 / 10325	45530 / 10017	60 / 60000	140 - 210 / 37 - 55.5	57 @ 140 / 86 @ 210	18 - 30 / 39600 - 66000
DX30-Tunneling	1400 / 3080	14000 / 10325	45530 / 10017	60 / 60000	140 - 210 / 37 - 55.5	57 @ 140 / 86 @ 210	18 - 30 / 39600 - 66000
DX35-Excavating	1460 / 3212	24100 / 17774	78380 / 17244	90 / 90000	240 - 340 / 63.4 - 89.8	55 @ 240 / 78 @ 340	25 - 35 / 55000 - 77000
DX35-Demolition	1460 / 3212	24100 / 17774	78380 / 17244	90 / 90000	240 - 340 / 63.4 - 89.8	55 @ 240 / 78 @ 340	25 - 35 / 55000 - 77000
DX35-Profiling	1460 / 3212	24100 / 17774	78380 / 17244	90 / 90000	240 - 340 / 63.4 - 89.8	55 @ 240 / 78 @ 340	25 - 35 / 55000 - 77000
DX35-Tunneling	1460 / 3212	24100 / 17774	78380 / 17244	90 / 90000	240 - 340 / 63.4 - 89.8	55 @ 240 / 78 @ 340	25 - 35 / 55000 - 77000
DX45-Excavating	2550 / 5610	36100 / 26624	95000 / 20900	120 / 120000	300 - 500 / 79.3 - 132.1	48 @ 310 / 77 @ 500	30 - 45 / 66000 - 99000
DX45-Demolition	2550 / 5610	36100 / 26624	95000 / 20900	120 / 120000	300 - 500 / 79.3 - 132.1	48 @ 310 / 77 @ 500	30 - 45 / 66000 - 99000
DX45-Profiling	2550 / 5610	36100 / 26624	95000 / 20900	120 / 120000	300 - 500 / 79.3 - 132.1	48 @ 310 / 77 @ 500	30 - 45 / 66000 - 99000
DX60-Excavating	2800 / 6160	43500 / 32080	114470 / 25183	140 / 140000	360 - 555 / 95.1 - 146.6	45 @ 360 / 70 @ 550	40 - 60 / 88000 - 132000
DX60-Demolition	2800 / 6160	43500 / 32080	114470 / 25183	140 / 140000	360 - 555 / 95.1 - 146.6	45 @ 360 / 70 @ 550	40 - 60 / 88000 - 132000
DX60-Profiling	2800 / 6160	43500 / 32080	114470 / 25183	140 / 140000	360 - 555 / 95.1 - 146.6	45 @ 360 / 70 @ 550	40 - 60 / 88000 - 132000

* at 35 MPa (350 bar) / 5040 psi

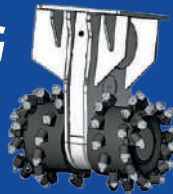


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DRAWINGS



EXCAVATING DRUM



PROFILING DRUM



DEMOLITION DRUM



Drum Cutters KDC dimensions

Type	Diameter drum A (mm/in)	Width drum B (mm/in)	Width shaft C (mm/in)	Cutting depth D (mm/in)	Height complete E (mm/in)	Upper connection F x G (mm/in)	Picks # (pcs.)
DX04-Excavating	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX04-Demolition	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX04-Profiling	230 / 9.1	500 / 19.7	90 / 3.5	53 / 2.1	690 / 27.2	320 x 310 / 12.6 x 12.2	2 x 43
DX06-Excavating	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX06-Demolition	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX06-Profiling	230 / 9.1	500 / 19.7	90 / 3.5	53 / 2.1	690 / 27.2	320 x 310 / 12.6 x 12.2	2 x 43
DX08-Excavating	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX08-Demolition	350 / 13.8	500 / 19.7	90 / 3.5	65 / 2.6	700 / 27.6	320 x 310 / 12.6 x 12.2	2 x 22
DX08-Profiling	230 / 9.1	500 / 19.7	90 / 3.5	53 / 2.1	690 / 27.2	320 x 310 / 12.6 x 12.2	2 x 43
DX15-Excavating	495 / 19.5	630 / 24.8	135 / 5.3	85 / 3.4	835 / 32.9	405 x 475 / 16 x 18.7	2 x 24
DX15-Demolition	495 / 19.5	630 / 24.8	135 / 5.3	85 / 3.4	835 / 32.9	405 x 475 / 16 x 18.7	2 x 24
DX15-Profiling	495 / 19.5	680 / 26.8	135 / 5.3	85 / 3.4	835 / 32.9	405 x 475 / 16 x 18.7	2 x 30
DX20-Excavating	550 / 21.7	750 / 29.5	145 / 5.7	120 / 4.7	965 / 38	530 x 510 / 20.9 x 20.1	2 x 28
DX20-Demolition	550 / 21.7	750 / 29.5	145 / 5.7	120 / 4.7	965 / 38	530 x 510 / 20.9 x 20.1	2 x 28
DX20-Profiling	465 / 18.3	655 / 25.8	145 / 5.7	78 / 3.1	923 / 36.3	530 x 510 / 20.9 x 20.1	2 x 38
DX30-Excavating	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 620 / 23.6 x 24.4	2 x 28
DX30-Demolition	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 620 / 23.6 x 24.4	2 x 28
DX30-Profiling	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX30-Tunneling	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX35-Excavating	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX35-Demolition	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX35-Profiling	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX35-Tunneling	615 / 24.2	900 / 35.4	170 / 6.7	125 / 4.9	1095 / 43.1	600 x 650 / 23.6 x 25.6	2 x 28
DX45-Excavating	760 / 29.9	1200 / 47.2	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 32
DX45-Demolition	760 / 29.9	1200 / 47.2	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 32
DX45-Profiling	760 / 29.9	1200 / 47.2	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 28
DX60-Excavating	760 / 29.9	1400 / 55.1	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 40
DX60-Demolition	760 / 29.9	1400 / 55.1	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 40
DX60-Profiling	760 / 29.9	1400 / 55.1	240 / 9.5	135 / 5.3	1345 / 53	740 x 780 / 29.1 x 30.7	2 x 60

STATIC PULVERIZERS

8 models for excavators with operating weight from 3 to 60 ton

Designed for secondary demolition, Hammer static Pulverizers can both break up reinforced concrete structures and separate the steel.

FP SERIES



- REPLACEABLE WEAR PLATES
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- WEAR PARTS ARE REPLACEABLE ON SITE
- SPEED VALVE *optional
- DESIGNED AND BUILT TO ACHIEVE HIGH CRUSHING FORCE

FIRST QUALITY SECONDARY DEMOLITION

MODELS

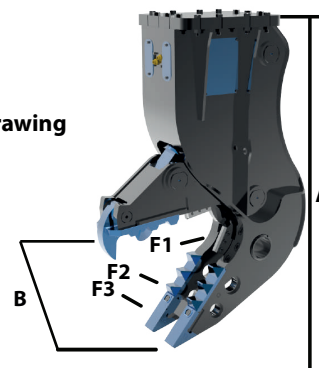
		FP03*	FP06*	FP11
t		3-10	6-13	13-18
kg		360	600	1200
l/min		20-70	40-100	140-180
bar		250	250	300
A	mm	1280	1650	2000
B	mm	400	510	660
mm		160	160	200
F1	t	90	115	155
F2	t	40	50	65
F3	t	25	35	50
Ø Max	mm	25	25	30

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* The FP03-06 types have replaceable tooth unlike the others FP types that have plates

Technical Drawing





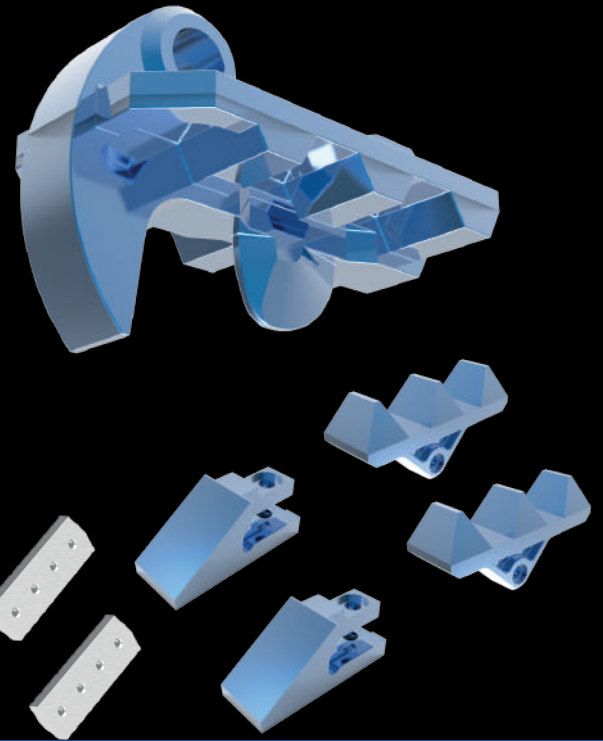
**FIND OUT
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**ALL THE PARTS THAT MOSTLY UNDERGO
WEARING ARE EASILY REPLACEABLE**



SPEED VALVE (OPTIONAL)

PRESSURE UP TO 300 BAR



SPEED VALVE
(Optional)



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		FP15	FP20	FP25	FP30	FP40
	t	13-22	16-25	20-32	24-40	30-60
	kg	1450	2150	2650	2950	3850
	l/min	140-200	200-250	200-300	220-300	350-450
	bar	300	300	300	300	300
A	mm	2100	2500	2700	2800	2810
B	mm	680	850	875	950	1280
	mm	200	200	300	300	300
F1	t	165	180	200	245	290
F2	t	70	85	85	110	140
F3	t	55	60	70	85	110
Ø Max	mm	30	40	40	50	50

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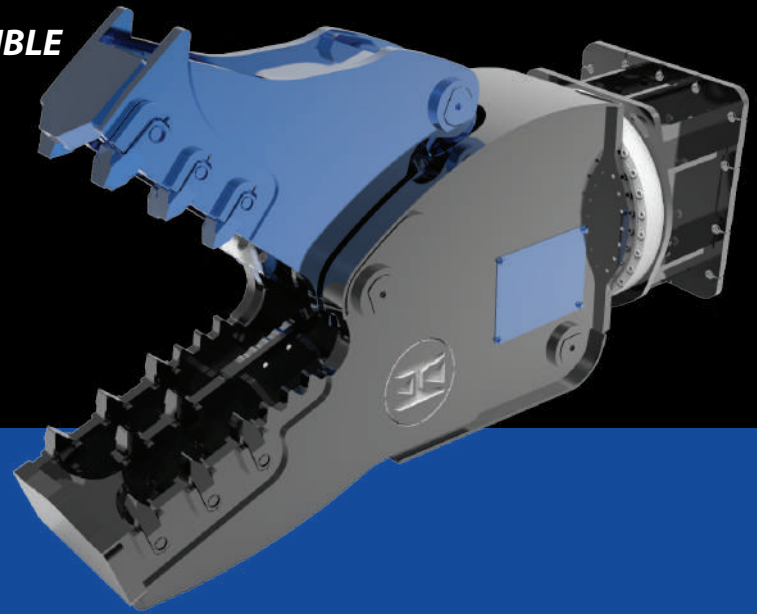
ROTATING PULVERIZERS

12 models for excavators with operating weight from 1.5 to 90 ton

The rotary pulverizers of the new FR series have been developed for primary and secondary demolition. The jaws are designed for each application area.

FR SERIES

- REPLACEABLE WEAR PLATES
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- WEAR PARTS REPLACEABLE ON SITE
- SPEED VALVE *optional
- DESIGNED AND BUILT TO ACHIEVE HIGH CRUSHING FORCE

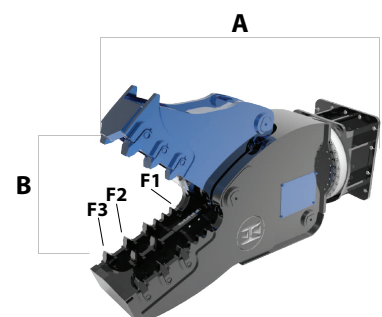


NO LIMITS TO DEMOLITION

MODELS		FR02 ^{NEW}	FR04	FR07	FR09	FR12	FR15
	t	1.5-7	5-10	6-13	9-15	12-20	14-23
	kg	220	500	750	950	1450	1700
	l/min	20-50	50-70	60-100	70-110	110-160	140-200
	bar	250	250	260	260	300	300
	°	360°	360°	360°	360°	360°	360°
	l/min	5-8	5-8	5-8	5-8	20-25	20-30
	bar	70	70	70	70	70	70
A	mm	1050	1400	1570	1600	1850	1950
B	mm	355	440	600	650	680	710
	mm	160	160	160	160	200	200
F1	t	80	100	115	140	180	195
F2	t	40	50	55	65	110	120
F3	t	25	30	35	40	57	65
∅ Max	mm	20	20	25	25	35	40

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Technical Drawing



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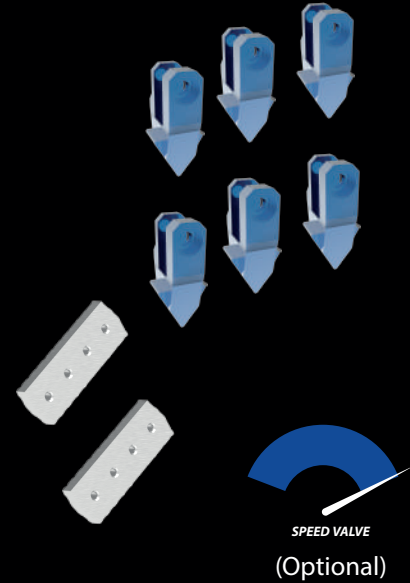
**FIND OUT
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ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE



SPEED VALVE (OPTIONAL)

PRESSURE UP TO 300 BAR



SPEED VALVE
(Optional)



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION

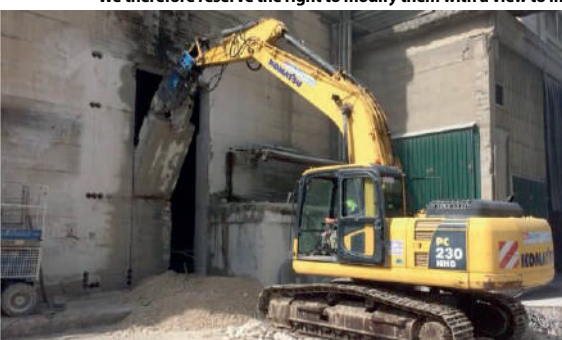


METALLURGICAL INDUSTRY

MODELS

		FR21	FR26	FR32	FR42	FR54	FR80
t		16-27	20-32	26-40	32-55	40-65	55-90
kg		2050	2500	3500	4200	5900	7800
l/min		180-230	200-300	300-350	350-400	400-500	450-550
bar		300	300	300	300	300	300
°		360°	360°	360°	360°	360°	360°
l/min		20-30	20-30	40-50	40-50	40-50	60-80
bar		70	70	70	70	70	70
A	mm	2200	2300	2510	2700	2900	3950
B	mm	800	920	1000	1150	1280	1400
mm		200	200	200	200	300	300
F1	t	234	250	370	505	545	620
F2	t	135	140	225	285	330	435
F3	t	80	85	125	146	175	210
Ø Max	mm	45	50	50	60	65	70

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ROTATING PULVERIZERS

11 models for excavators with operating weight from 5 to 90 ton

The rotary pulverizers of the new FK series have been developed for primary demolition.

FK SERIES

- REPLACEABLE WEAR PLATES
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- WEAR PARTS REPLACEABLE ON SITE
- SPEED VALVE *optional
- DESIGNED AND BUILT TO ACHIEVE HIGH CRUSHING FORCE

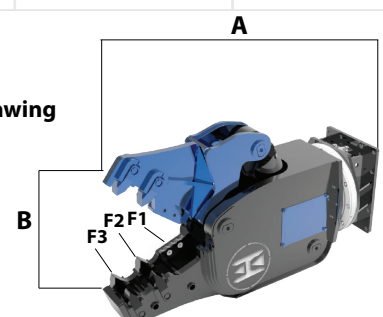


THE RIGHT SHAPE FOR THE PRIMARY DEMOLITION

MODELS		FK05	FK08	FK10	FK13	FK16	FK22
t		5-10	6-13	9-15	12-20	14-23	16-27
kg		500	750	950	1350	1700	2100
l/min		50-70	60-100	70-110	110-160	140-200	180-230
bar		250	260	260	300	300	300
°		360°	360°	360°	360°	360°	360°
l/min		5-8	5-8	5-8	20-25	20-30	20-30
bar		70	70	70	70	70	70
A	mm	1350	1520	1640	1850	2000	2400
B	mm	460	600	670	720	760	900
mm		160	160	160	200	200	200
F1	t	100	115	140	180	195	234
F2	t	50	55	65	110	120	135
F3	t	30	35	40	57	65	80
Ø Max	mm	20	25	25	35	40	45

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Technical Drawing





**FIND OUT
MORE**

ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE



SPEED VALVE (OPTIONAL)

PRESSURE UP TO 300 BAR



SPEED VALVE
(Optional)



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		FK27	FK33	FK43	FK55	FK81
t		20-32	26-40	32-55	40-65	55-90
kg		2500	3500	4200	5900	7800
l/min		200-300	300-350	350-400	400-500	450-550
bar		300	300	300	300	300
°		360°	360°	360°	360°	360°
l/min		20-30	40-50	40-50	40-50	60-80
bar		70	70	70	70	70
A	mm	2600	2800	3080	3420	3600
B	mm	980	1015	1230	1350	1550
mm		200	200	200	300	300
F1	t	250	370	505	545	620
F2	t	140	225	285	330	435
F3	t	85	125	146	175	210
Ø Max	mm	50	50	60	65	70

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DEMOLITION ROTATING PULVERIZERS

8 models for excavators with operating weight from 6 to 55 ton

The rotary pulverizers of the new FRK series have been developed for primary and secondary demolition.

FRK SERIES

- ROTATION CIRCUIT FILTERS
- ROTATION FRAME WITH ADDITIONAL OIL PASSAGE
- DOUBLE ROTATION MOTORS FOR EXTRA ROTATION POWER
- GUIDE PLATE AT PIVOT POINT FOR MORE PRECISE ALIGNMENT AND GREATER JAW STABILITY
- REPLACEABLE TEETH AND CUTTING BLADES
- BEARING POINTS DESIGNED FOR OPTIMUM LOAD HANDLING AND FOR REDUCED WEARING
- REPLACEABLE WEAR PLATES



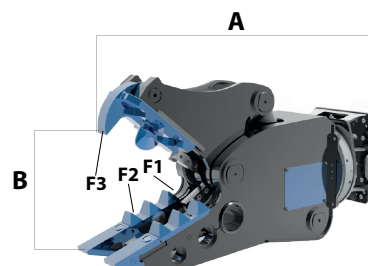
DESIGNED TO LONGLAST!

MODELS

		FRK07	FRK10	FRK13
	t	6-13	9-17	12-20
	kg	780	1000	1400
	l/min	60-100	70-110	110-160
	bar	320	320	350
	°	360°	360°	360°
	l/min	20-40	20-40	30-60
	bar	100	100	140
A	mm	1580	1620	1900
B	mm	575	605	685
	mm	160	160	200
F1	t	130	150	190
F2	t	65	70	120
F3	t	40	45	60
Ø Max	mm	30	30	40

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Technical Drawing

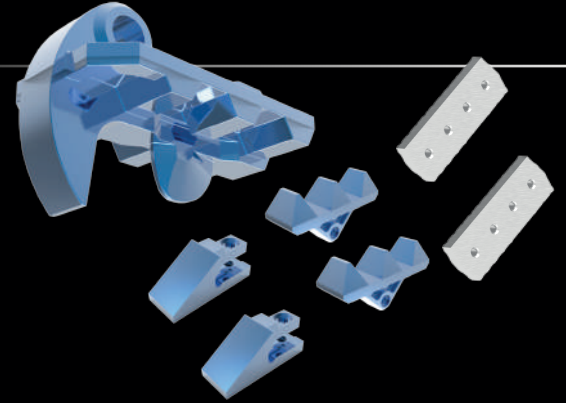




**FIND OUT
MORE**

ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE

- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- WEAR PARTS REPLACEABLE ON SITE
- SPEED VALVE *optional
- DESIGNED AND BUILT TO ACHIEVE HIGH CRUSHING FORCE



SPEED VALVE (OPTIONAL)

PRESSURE UP TO 350 BAR



SPEED VALVE
(Optional)



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		FRK17	FRK21	FRK26	FRK32	FRK42
	t	14-23	16-27	20-32	26-40	32-55
	kg	1650	2000	2400	3300	4200
	l/min	140-200	180-230	200-300	300-350	350-400
	bar	350	350	350	350	350
	°	360°	360°	360°	360°	360°
	l/min	40-60	40-60	40-60	40-60	40-60
	bar	140	140	140	140	140
A	mm	2000	2100	2300	2500	2700
B	mm	710	780	900	1000	1120
	mm	200	200	200	200	200
F1	t	195	220	250	370	505
F2	t	120	120	140	225	285
F3	t	65	70	85	125	146
Ø Max	mm	40	50	55	60	65

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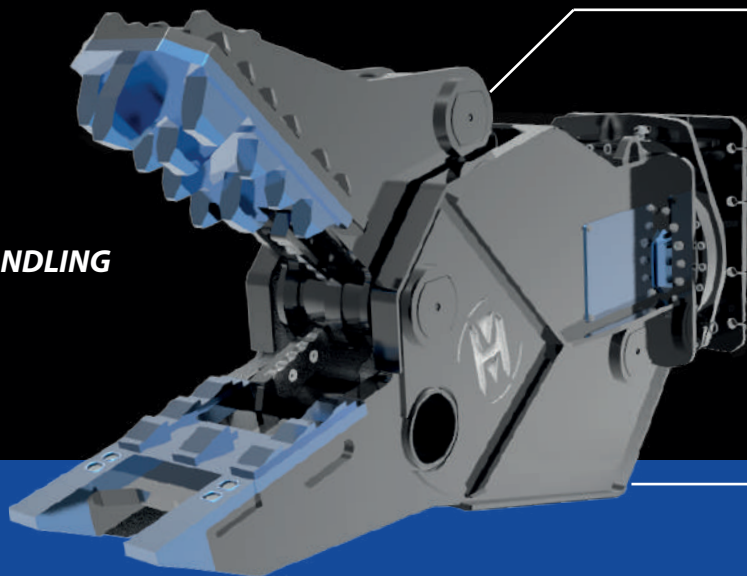
BOOSTER ROTATING PULVERIZERS

3 models for excavators with operating weight from 13 to 50 ton

The rotary pulverizers of the new NGK series have been developed for primary and secondary demolition.

NGK SERIES

- ROTATION CIRCUIT FILTERS
- ROTATION FRAME WITH ADDITIONAL OIL PASSAGE
- DOUBLE ROTATION MOTORS FOR EXTRA ROTATION POWER
- GUIDE PLATE AT PIVOT POINT FOR MORE PRECISE ALIGNMENT AND GREATER JAW STABILITY
- REPLACEABLE TEETH AND CUTTING BLADES
- BEARING POINTS DESIGNED FOR OPTIMUM LOAD HANDLING AND FOR REDUCED WEARING
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION



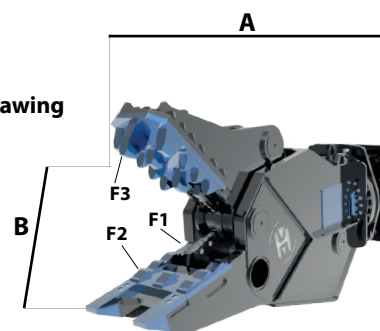
UNPARALLELED PERFORMANCE AND DURABILITY!

MODELS

		NGK1500	NGK2500	NGK3500
t		13-27	18-35	26-50
kg		1650	2400	3500
l/min		140-200	180-230	300-350
bar		300-550	300-550	300-550
°		360°	360°	360°
l/min		40-60	40-60	40-60
bar		140	140	140
A	mm	2000	2450	2850
B	mm	750	800	900
mm		200	200	200
F1	t	250	310	435
F2	t	145	160	270
F3	t	80	95	135
Ø Max	mm	55	65	75

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Technical Drawing



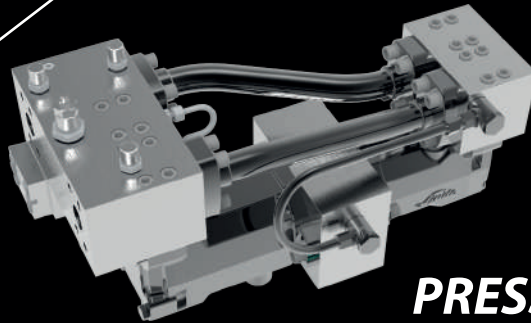
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USE OF MORE PERFORMING MATERIALS

OPTIMIZATION OF THE PIN STOPS

ENHANCED ROTATION SYSTEM (DOUBLE MOTOR WITH FILTER)



- WEAR PARTS REPLACEABLE ON SITE
- BOOSTER
- DESIGNED AND BUILT TO ACHIEVE HIGH CRUSHING FORCE

PRESSURE UP TO 550 BAR



MINING & QUARRYING



DEMOLITION & RENOVATION

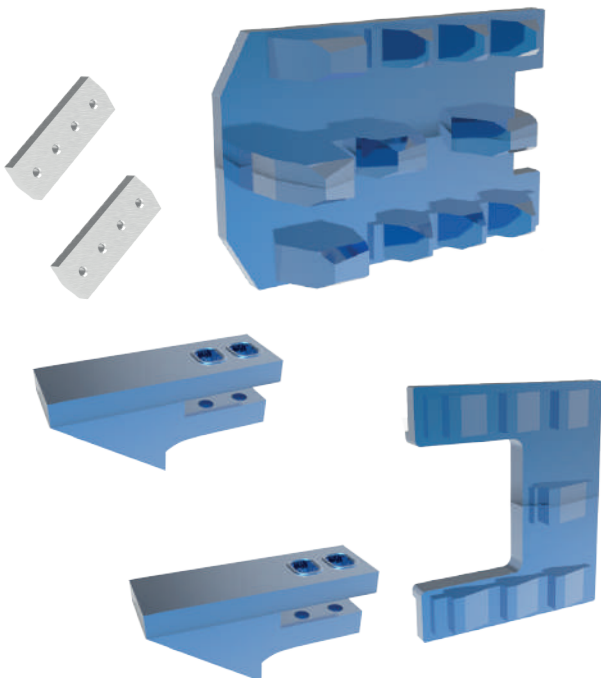


CONSTRUCTION



METALLURGICAL INDUSTRY

ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE

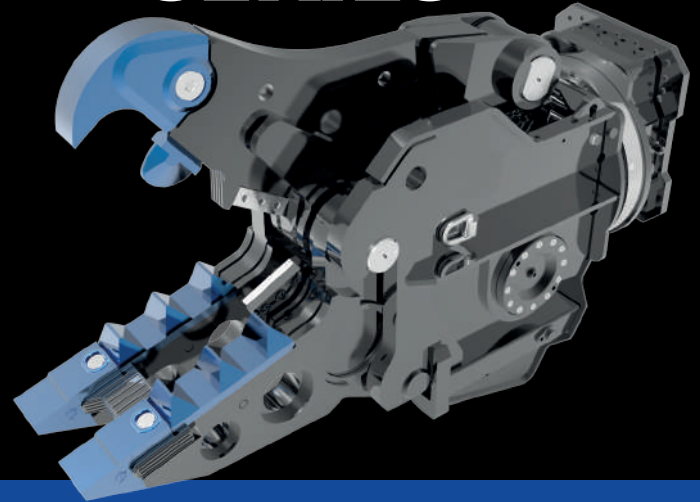


MULTI-QUICK PROCESSORS

4 models for excavators with operating weight from 18 to 65 ton

Used for cutting and crushing concrete with steel reinforcement and for cutting steel structures, the Multi-Quick **HAMMER** Processor with DemaPower and DemaLink has been developed for primary and secondary demolition. It has 6 jaw options: Combi, Demolition, Pulverizer, Steel, Tank and Universal jaws

MQP SERIES



DEMOLITION, CUTTING AND CRUSHING IN A SINGLE TOOL

- | The patented DemaPower cylinder provides up to 20% more power and reduces cycle times to under 5 seconds.***
- | Rotation circuit filters.***
- | Rotation frame with additional oil passage.***
- | Double rotation motors for extra rotation power.***
- | Guide plate at pivot point for more precise alignment and greater jaw stability.***
- | Replaceable teeth and cutting blades.***
- | Bearing points designed for optimum load handling and for a reduced wearing.***
- | Replacing of the jaws on site in less than 10 minutes, thanks to DemaLink system.***



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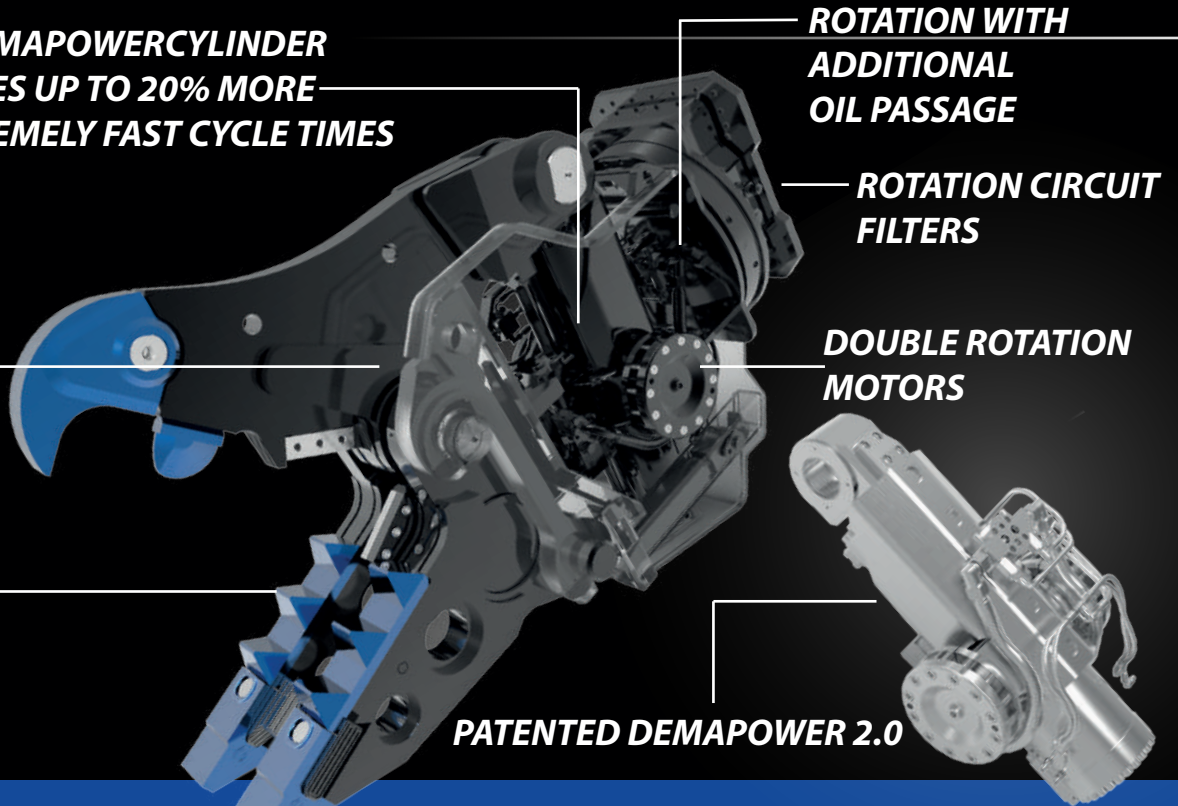
**FIND OUT
MORE**

PRESSURE UP TO 380 BAR

THE PATENTED DEMAPOWER CYLINDER CONCEPT PROVIDES UP TO 20% MORE POWER AND EXTREMELY FAST CYCLE TIMES

GUIDE PLATE AT PIVOT POINT FOR MORE PRECISE ALIGNMENT AND GREATER JAW STABILITY

ALL WEAR PARTS ARE REPLACEABLE ON SITE



MINING & QUARRYING



DEMOLITION & RENOVATION

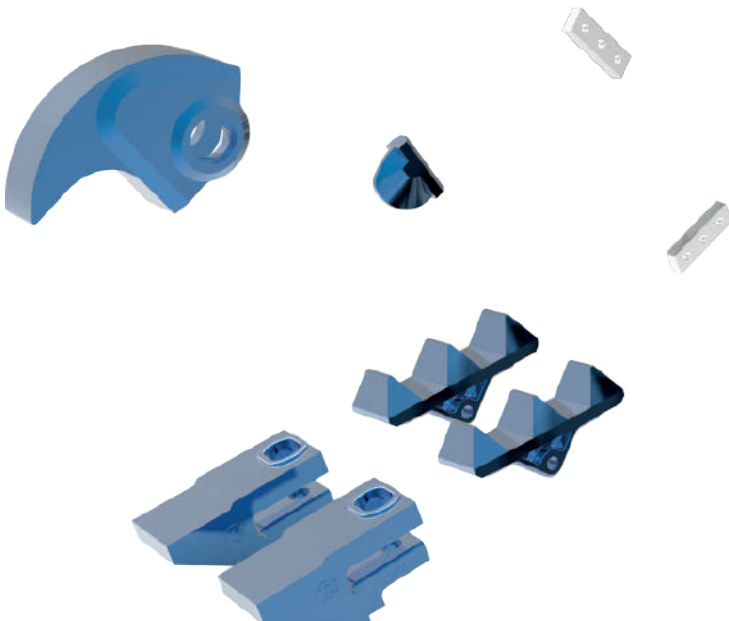


CONSTRUCTION



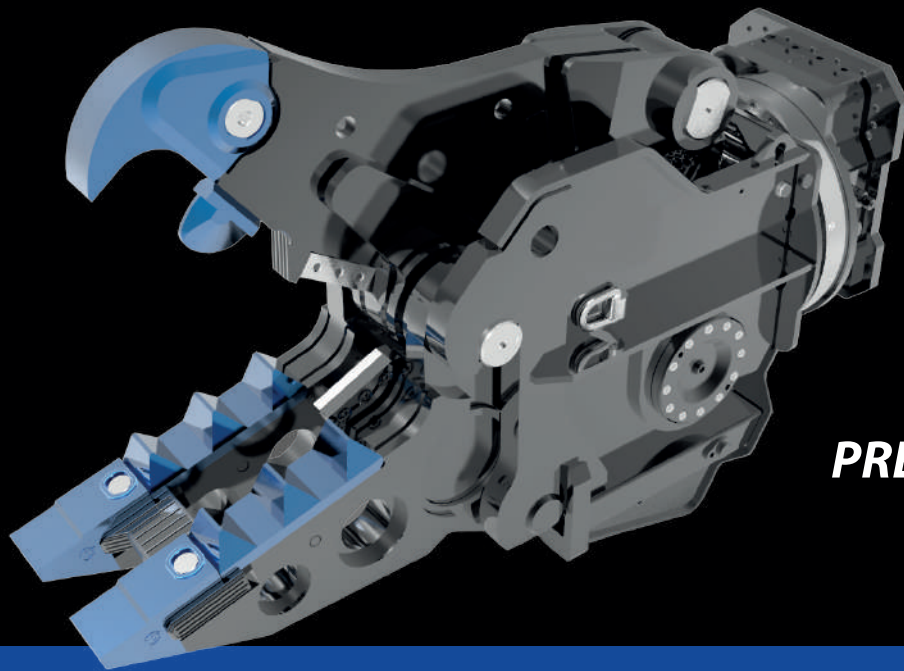
METALLURGICAL INDUSTRY

ALL THE PARTS THAT MOSTLY UNDERGO WEARING ARE EASILY REPLACEABLE



MULTI-QUICK PROCESSOR

4 models for excavators with operating weight from 18 to 65 ton



MQP SERIES

PRESSURE UP TO 380 BAR

DEMOLITION, CUTTING AND CRUSHING IN ONE ONLY TOOL

MODELS



		MQP-25-Y	MQP-30-Y	MQP-45-Y	MQP-60-Y
t		18-25	22-35	32-50	45-65
kg		1130	1400	1740	2350
mm		1095	1205	1330	1450
mm		640	720	720	880
A	mm	1130	1190	1290	1485
B	sec	1.5-2.3	2.0-2.3	2.0-2.9	2.0-2.8



MODEL C		MQP-25-C	MQP-30-C	MQP-45-C	MQP-60-C
Weight (complete force with yoke)	kg	1960	2600	3200	4600
Weight (upper & lower jaws)	kg	830	1200	1460	2250
Closing force*	kN	735	880	1175	1370
Jaw opening	mm	785	875	990	1150
Width lower jaw	mm	375	440	450	480
Width upper jaw	mm	90	100	100	100
Height	mm	1940	2155	2360	2600
Jaw depth	mm	810	920	975	1050

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MODEL D		MQP-25-D	MQP-30-D	MQP-45-D	MQP-60-D
Weight (complete force with yoke)	kg	1950	2450	3150	4375
Weight (upper & lower jaws)	kg	820	1050	1410	2025
Closing force*	kN	785	930	1225	1420
Jaw opening	mm	785	870	990	1175
Width lower jaw	mm	470	470	515	550
Width upper jaw	mm	90	100	100	100
Height	mm	1980	2160	2355	2600
Jaw depth	mm	810	900	960	1090



MODEL P		MQP-25-P	MQP-30-P	MQP-45-P	MQP-60-P
Weight (complete force with yoke)	kg	1990	2500	3250	4650
Weight (upper & lower jaws)	kg	860	1100	1510	2200
Closing force*	kN	735	880	1175	1370
Jaw opening	mm	790	880	980	1150
Width lower jaw	mm	400	470	515	560
Width upper jaw	mm	325	350	400	450
Height	mm	1980	2165	2355	2620
Jaw depth	mm	810	830	945	1050



MODEL S		MQP-25-S	MQP-30-S	MQP-45-S	MQP-60-S
Weight (complete force with yoke)	kg	1900	2375	3015	4400
Weight (upper & lower jaws)	kg	770	975	1275	2050
Closing force*	kN	2695	3040	3825	4315
Jaw opening	mm	370	410	465	540
Width lower jaw	mm	320	355	375	410
Width upper jaw	mm	100	120	120	120
Height	mm	1750	1910	2105	2355
Jaw depth	mm	560	600	700	750



MODEL T		MQP-25-T	MQP-30-T	MQP-45-T	MQP-60-T
Weight (complete force with yoke)	kg	2050	2560	3160	4325
Weight (upper & lower jaws)	kg	900	1160	1420	1975
Closing force*	kN	2650	3235	4170	5930
Jaw opening	mm	330	335	390	400
Width lower jaw	mm	265	305	305	355
Width upper jaw	mm	100	120	120	150
Height	mm	1910	2070	2260	2415
Jaw depth	mm	570	575	630	660



MODEL U		MQP-25-U	MQP-30-U	MQP-30-U	MQP-45-U
Weight (complete force with yoke)	kg	/	/	2575	3090
Weight (upper & lower jaws)	kg	/	/	1175	1350
Closing force*	kN	/	/	980	1325
Jaw opening	mm	/	/	590	690
Width lower jaw	mm	/	/	500	525
Width upper jaw	mm	/	/	280	310
Height	mm	/	/	2040	2210
Jaw depth	mm	/	/	7900	830

Requirements of Excavator

Operating pressure (open/close): max. 35 MPa (350 bar)

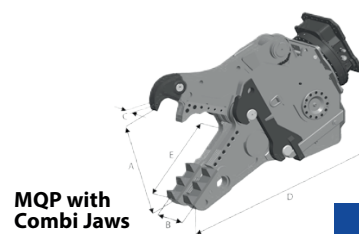
Recommended pump capacity (open/close):

MQP-25	120 - 200 l/min
MQP-30	150 - 250 l/min
MQP-45	200 - 300 l/min
MQP-60	300 - 400 l/min

Operating pressure (rotation): max. 14 MPa (140 bar)

Recommended pump capacity (rotation): 40 - 60 l/min

Technical Drawings



MQP with Combi Jaws

2 CYLINDER-CONCRETE CRUSHERS

10 models for excavators with operating weight from 3 to 80 ton

- ROTATION CIRCUIT FILTERS
- ROTATION FRAME WITH ADDITIONAL OIL PASSAGE
- DOUBLE ROTATION MOTORS FOR EXTRA ROTATION POWER
- GUIDE PLATE AT PIVOT POINT FOR MORE PRECISE ALIGNMENT AND GREATER JAW STABILITY
- REPLACEABLE CUTTING BLADES
- BEARING POINTS DESIGNED FOR OPTIMUM LOAD HANDLING AND FOR REDUCED WEARING
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- SPEED VALVE *ONLY FOR DEMAPOWER MODELS

MCK SERIES



**NOT EVEN THE
HARDEST JOB CAN
WITHSTAND
THE MCK!**

DemaPower2.0 **DemaPower2.0** **DemaPower2.0**

MODEL	MCK03	MCK06	MCK10	MCK15	MCK20	MCK25
	3-9	7-15	10-17	14-20	18-25	20-35
	300	650	1100	1500	2000	2425
Closing force t**	50	60	70	85**	105**	120**
Jaw opening mm	400	680	780	900	1000	1150
Jaw depth mm	430	600	690	780	865	935
Width upper jaw mm	40	45	50	55	60	70
Height mm	1150	1500	1800	1980	2195	2390
Length of cutting blades mm	100	200	200	200	200	250
Opening/Closing Pmax bar*	260	320	320	380*	380*	380*
Flow l/min	30-50	70-120	90-150	110-170	150-250	200-300
Rotation Pmax bar	100	100	140	140	140	140
Flow l/min	10-30	10-30	40-60	40-60	40-60	40-60
Back pressure max. bar	-	-	-	-	-	-
Cycle time Opening/Closing sec	1.8-2.5	2.2-3.0	2.4-3.1	2.3-3.0	2.3-3.0	2.5-3.4

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*standard version pressure bar: 320



**FIND OUT
MORE**

- | The patented DemaPower cylinder provides up to 20% more power and reduces cycle times to under 5 seconds.
- | Rotation circuit filters.
- | Rotation head with additional oil passage.
- | Double rotation motors for extra rotation power.
- | Guide plate at pivot point for more precise alignment and greater jaw stability.
- | All cutting blades are exchangeable.
- | Bearing points engineered for optimum load handling and reduced wear.

Used for cutting and crushing concrete with steel reinforcement and for cutting steel structures, the **HAMMER** Concrete Crusher with DemaPower has been developed for primary and secondary demolition.



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

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MODEL	DemaPower2.0 MCK35	DemaPower2.0 MCK45	DemaPower2.0 MCK60	DemaPower2.0 MCK75
	25-45	35-55	50-70	60-80
	3250	4200	5300	6300
Closing force t**	135**	155**	180**	200**
Jaw opening mm	1360	1500	1600	1750
Jaw depth mm	1335	1135	1235	1350
Width upper jaw mm	80	90	100	100
Height mm	2545	2845	2995	3225
Length of cutting blades mm	300	300	300	400
Opening/Closing Pmax bar*	380*	380*	380*	380*
Flow l/min	250-350	300-500	400-600	500-700
Rotation Pmax bar	140	140	140	200
Flow l/min	40-60	40-60	40-60	60
Back pressure max. bar	-	-	-	10***
Cycle time Opening/Closing sec	3.3-3.6	3.2-3.4	2.8-3.9	2.8-3.8

**standard version closing force ton: MCK 15: 68, MCK20: 84,
MCK25: 96, MCK35: 108, MCK45: 124, MCK60: 144,
MCK75: 160



SCRAP SHEAR

5 models for excavators with operating weight from 3 to 50 ton

The **HAMMER** KSC scrap shears are designed to achieve an optimal power to weight ratio.

KSC SERIES

- ROTATION CIRCUIT FILTERS
- ROTATION FRAME WITH ADDITIONAL OIL PASSAGE
- DOUBLE ROTATION MOTORS FOR EXTRA ROTATION POWER
- GUIDE PLATE AT PIVOT POINT FOR MORE PRECISE ALIGNMENT AND GREATER JAW STABILITY
- REPLACEABLE CUTTING BLADES
- BEARING POINTS DESIGNED FOR OPTIMUM LOAD HANDLING AND FOR REDUCED WEARING



SCRAPS, TIME IS RUNNING OUT...

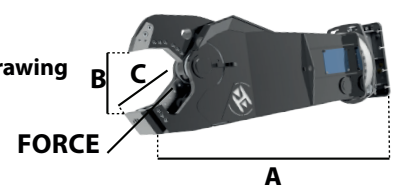
MODELS

		KSC06	KSC11	KSC22
	t	3-8	7-14	14-20
	t	5-12	12-21	20-30
	kg	480	1100	2150
	l/min	70-100	150-250	150-200
	bar	250	320	320
	°	360°	360°	360°
	l/min	20-30	20-30	40-60
	bar	80	140	140
A	mm	1880	2210	2570
B	mm	350	430	490
C	mm	348	480	470
CUTTING FORCE**	kn	2750	3800	4650
∅ Max	mm	30	45	70
	mm	25	35	60
	mm	6	10	15
	mm	100	200	300
	mm	70	140	200

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Technical Drawing



**FIND OUT
MORE**

**ALL THE PARTS THAT MOSTLY UNDERGO
WEARING ARE EASILY REPLACEABLE**

PRESSURE UP TO 350 BAR



SPEED VALVE (OPTIONAL)

**ENHANCED ROTATION SYSTEM
(DOUBLE MOTOR)**

- OPTIMIZED PIN STOPS
- REPLACEABLE TIP
- SPECIFIC DESIGN
- SPEED VALVE *optional
- USE OF MORE PERFORMING MATERIALS



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		KSC32	KSC42
	t	18-25	32-50
	t	25-35	25-35
	kg	3100	4100
	l/min	200-300	300-400
	bar	320	350
	°	360°	360°
	l/min	40-60	40-60
	bar	140	140
A	mm	2720	3050
B	mm	570	620
C	mm	490	540
CUTTING FORCE**	kn	6300	7550
∅ Max	mm	90	100
	mm	80	90
	mm	20	22
I	mm	400	450
II	mm	260	280



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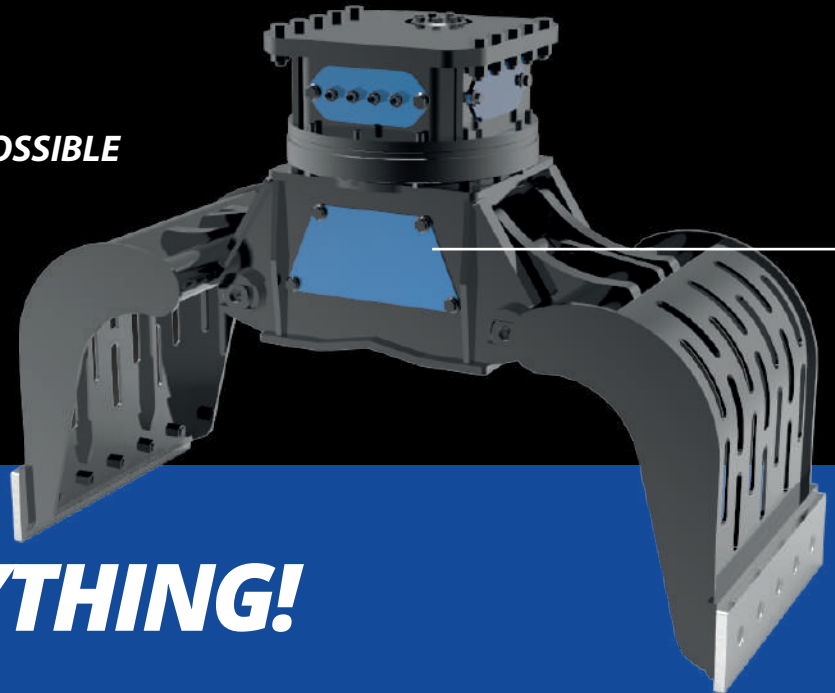
MULTI PURPOSE GRABS

9 models for excavators with operating weight from 1.5 to 80 ton

The new multi purpose grabs of GR series are designed for handling, recycling and small demolitions.

GR SERIES

- REPLACEABLE WEAR PLATES
- ROBUST AND FULLY INTEGRATED ROTATION
- BUILT-IN RELIEF VALVE
- CYLINDER FULLY PROTECTED FROM POSSIBLE DEBRIS DURING DEMOLITION
- WEAR BLADES (400HB)



GRAB UP EVERYTHING!

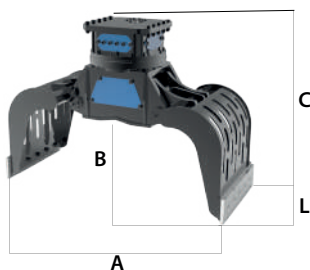
MODELS

		GR15	GR25	GR45	GR75
t		1.5-4	4-7	5-12	7-16
kg		145	240	380	700
l/min		15	20	25	45
bar		200	200	200	210
°		360°	360°	360°	360°
l/min		10-20	10-20	10-20	10-20
bar		80	80	80	80
A	mm	925	1170	1500	1635
B	mm	300	370	470	520
C	mm	685	825	1045	1130
L	mm	400	500	600	700

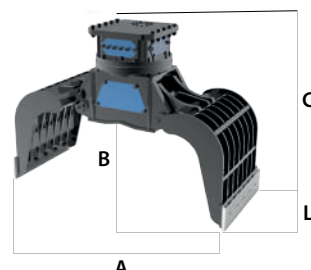
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Technical Drawing

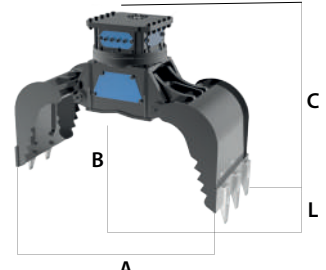
GR + STANDARD JAWS



GR + DEMOLITION JAWS



GR + TEETH JAWS

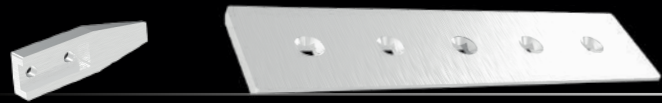


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**FIND OUT
MORE**

**ALL THE PARTS THAT MOSTLY UNDERGO
WEARING ARE EASILY REPLACEABLE**

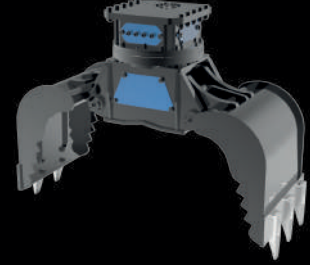
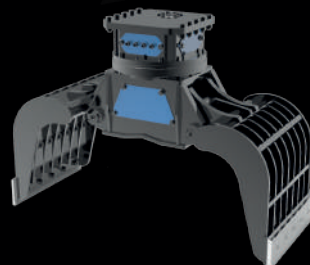
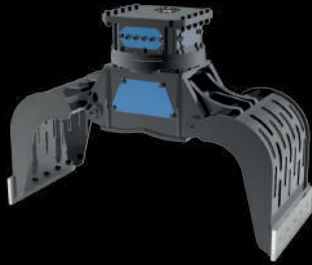


AVAILABLE WITH 3 DIFFERENT TYPES OF JAWS

GR + STANDARD JAWS

GR + DEMOLITION JAWS

GR + TEETH JAWS



PRESSURE UP TO 350 BAR



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



METALLURGICAL INDUSTRY

MODELS

		GR100	GR150	GR200	GR350	GR600
	t	13-19	17-30	30-50	35-60	50-80
	kg	1000	1500	2210	2330	4165
	l/min	50	75	120	120	200
	bar	300	300	350	350	350
	°	360°	360°	360°	360°	360°
	l/min	10-20	30	40-60	40-60	40-60
	bar	80	80	140	140	140
A	mm	1780	1950	2325	2355	2700
B	mm	570	675	-	-	-
C	mm	1225	1550	1481	1496	1818
L	mm	800	1020	1250	1400	1500

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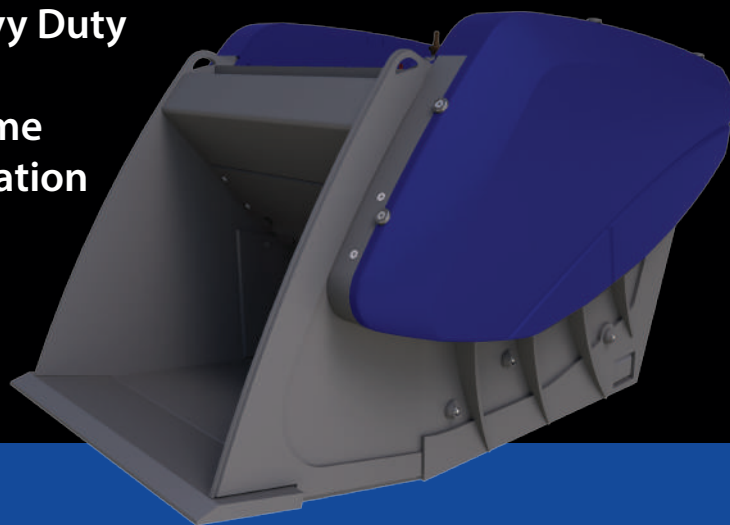


CRUSHING BUCKETS

5 models for excavators with operating weight from 10 to 55 ton

- Reverse Block: prevents blocking of material thanks to forward and backward motion of crushing plates.
- Economy: thanks to minimum of space and time requirements, minimum of tool wear and further use of crushed material without difficulty.
- Higher efficiency thanks to robust Heavy Duty construction.
- Material processing and preparation time is reduced significantly. One-man operation is no problem.
- Maximum of flexibility thanks to mobile and versatile applications.
- Quick and easy change of wearparts.

KB SERIES



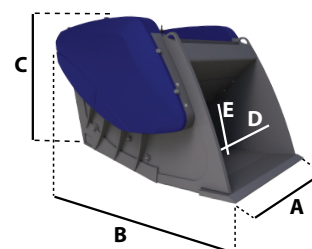
QUALITY CRUSHING

MODELS

		KB15	KB20	KB30	KB35	KB50
	t	10-16	13-20	19-24	24-40	35-45
	kg	1500	2000	3000	4200	6000
	l/min	90-100	115-125	130-140	170	250
	bar	270	300	300	300	300
A	mm	740	850	1030	1130	1420
B	mm	1800	1800	2050	2150	2250
C	mm	1100	1170	1330	1400	1450
D	mm	600	700	820	920	1220
E	mm	450	450	500	500	550
load volumes	m ³	0.5	0.6	0.65	0.7	1.05

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Technical Drawing



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**FIND OUT
MORE**

The crushers extremely high throughput function with minimal wear costs ensures a high-value cubical and consistant end product.

Thanks to its solid and strong build, our crusher is able to machine natural rock as well as recycling materials. The use of top quality materials is the basis of our policy. Thanks to a switching plate specially designed to be mounted upwards instead of downwards (as in common crushing buckets, in which the movement is "parallel"), our system generates an aggressive "8" movement that allows the beginning of the crushing in the upper part of the jaw and then creates a post-crushing in the lower part of the grinding chamber when the material comes out of the crusher.

PRESSURE UP TO 300 BAR



MINING & QUARRYING



DEMOLITION & RENOVATION



CONSTRUCTION



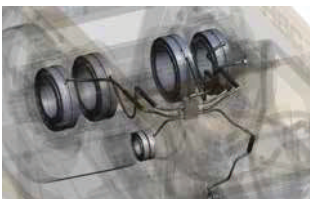
METALLURGICAL INDUSTRY



More power thanks to the double spring system



Optimized weight and especially solid casted pendulum



Central lubrication



ROTATING SCREENING BUCKETS

5 models for excavators with operating weight from 5 to 35 ton

The screening bucket's compact and heavy duty structure ensures a reliable screening capacity with low running costs.

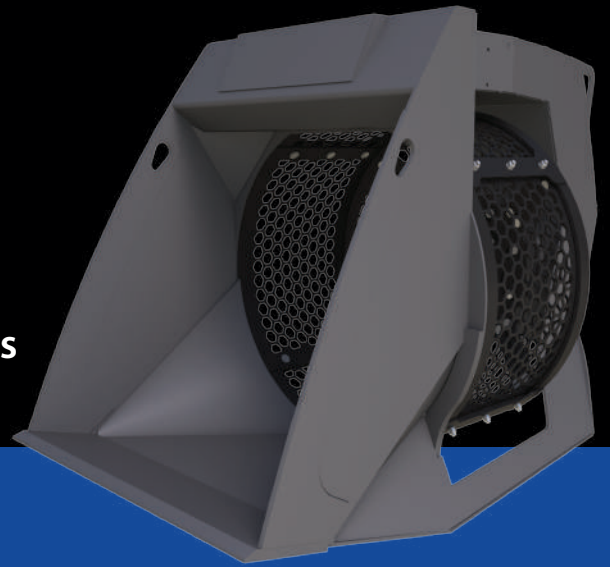
This machine enables materials to be classified and separated more precisely.

The exchangeable grids allow for sieving and screening in different, variable sizes.

The grids can be used for pre-filtering (prior to crushing) and for final classification purposes. These buckets are used for working with natural rock, for recycling and in agriculture. Also available for skidsteers.

We take pride in ensuring that all our materials and components are top quality

KR SERIES



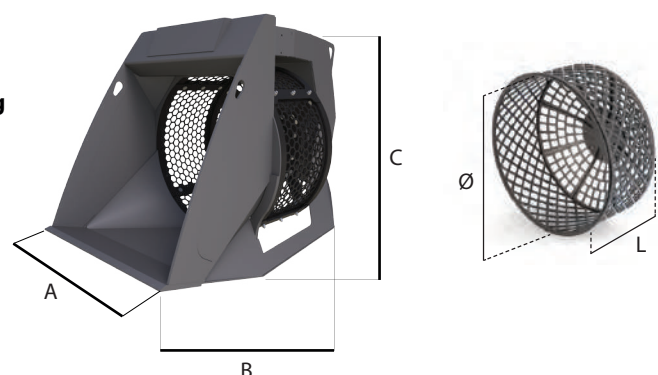
RECYCLE AND SAVE!

MODELS

		KR05	KR07	KR10	KR15	KR20
t		5-10	8-14	13-20	18-26	24-35
kg		350	750	1200	1500	2200
l/min		25	75	75	75	125
bar		130	160	160	160	160
A	mm	900	1000	1200	1500	1800
B	mm	1150	1580	1880	2010	2315
C	mm	940	1160	1570	1780	2140
Ø	mm	700	900	1100	1300	1550
L	mm	430	592	720	780	850
load volumes m ³		0.4	0.75	1.0	1.5	2.2

*All illustrations and numerical data in this catalog are purely indicative and subject to change at our discretion and without notice. We therefore reserve the right to modify them with a view to improving and continuously developing our product.

Technical Drawing



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**FIND OUT
MORE**

Optionals accessories and easy exchangeable parts are available.

- High efficiency: different screening grids.
- Fast and easy replacing of screening grids.
- Teeth for better plunge behavior.
- Optional wear and tear side plates available upon request.
- Constant output, even with sticking sieverings, thanks to optional brush.
- Optional Crush Control inside the cabin with display, so to have sight into the screening grid (the camera and the display are charged by the excavator's battery).



PRESSURE UP TO 200 BAR



MINING & QUARRYING



DEMOLITION & RENOVATION



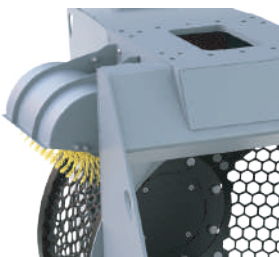
CONSTRUCTION



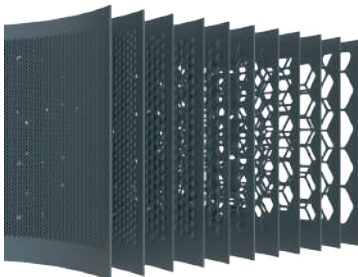
METALLURGICAL INDUSTRY



Crush Control



Brush



**Easy replacing
of screening
grids**



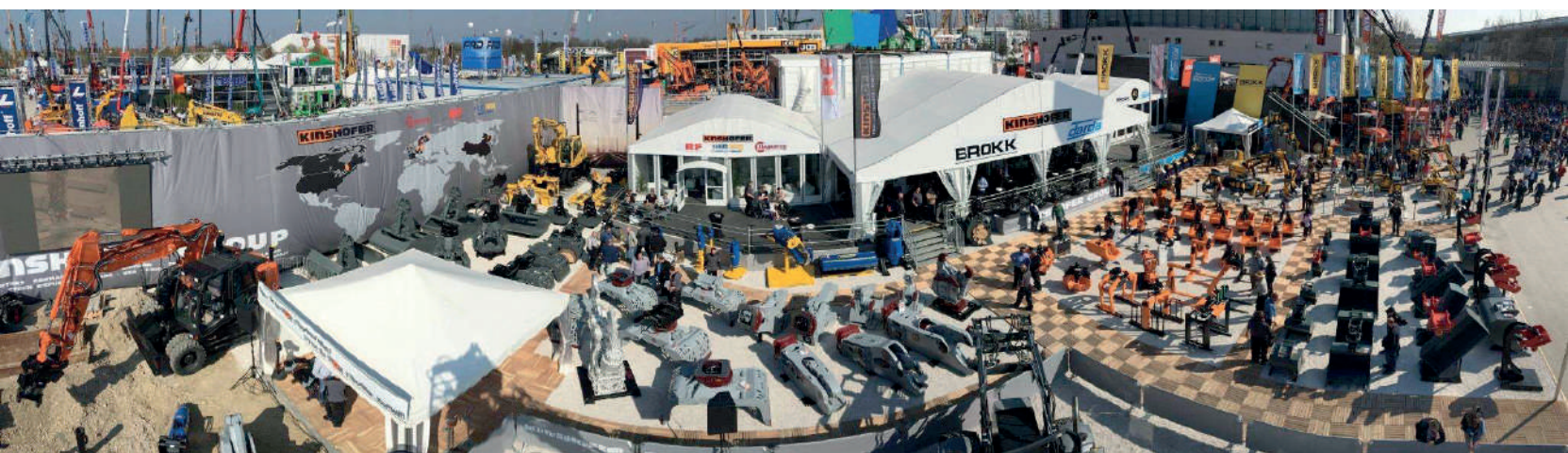
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Drueckverstaerker BOOSTER
Intensificateur de puissance BOOSTER
Multiplicador de potencia BOOSTER
Интенсификатор давления



Peso attrezzatura
Equipment weight
Eigengewicht
Poids de l'outil
Peso del implemento
Вес оборудования

Rotazione continua 360°
360° rotation
360° Kontinuierliche Rotation
Rotation continue 360°
Rotación continua a 360°
Непрерывное вращение на 360°



Peso escavatore
Excavator weight
Baggergewicht
Poids du porteur
Peso Escavadora
Вес экскаватора

Portata olio della rotazione
Rotation oil flow capacity
Oelfluss der Rotation
Débit hydraulique rotation
Caudal de aceite necesario para la rotación



Peso escavatore - posto benna
Excavator weight - stick mounting
Baggergewicht - Loeffelstiehlmontage
Poids du porteur - au but du
Peso escavadora al segundo brazo
Вес экскаватора (Рукоять)

Pressione di esercizio rotazione
Rotation Pressure
Oeldruck der Rotation
Pression hydraulique rotation
Presión necesaria para la rotación
Давление ротации



Peso escavatore - posto braccio
Excavator weight - boom mounting
Baggergewicht - Baggerarmmontage
Poids machibe - montage a la place du
balancier
Peso escavadora al balancin

Pressione di esercizio escavatore
Excavator working pressure
Oeldruck der Bagger
Pression hydraulique excavateur
Presión de la Escavadora
Давление откр./закр. челюстей



F3

Forza in punta
Tip force
Schliesskraft auf die Spitze
Force à la pointe
Fuerza en punta
Мощность на наконечнике

Portata olio escavatore
Excavator oil flow capacity
Oelfluss der Bagger
Débit hydraulique excavateur
Caudal aceite de la Escavadora
Поток откр./закр. челюстей



Lunghezza lama
Steel blade length
Messerlaenge
Longuer couteau
Anchura cuchilla
Длина ножей

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