



HYDRAULIC BREAKERS AND ACCESSORIES

PRODUCT RANGE

Furukawa Rock Drill stands for premium products you can trust. This delivery schedule is intended to provide you with an overview of

our hydraulic hammers.



<u>The company</u>	<u>Page 03 - 05</u>
FRD - Furukawa rock drill	04
Company milestones	05
<u>FRD hydraulic breakers</u>	<u>Page 06 - 07</u>
General about hydraulic hammers.	06
<u>The FX Series - 2</u>	<u>Page 08 - 17</u>
General about the FX - 2 series	08
Areas of use and application.	08
Technical drawing	10 - 11
Features and Benefits	10 - 11
Differences and characteristics.	12 - 14
Technical data	16 - 17
<u>the f series</u>	<u>Page 18 - 25</u>
General about the F series.	18
Areas of use and application.	18
Technical drawing	20
Deaths and benefits	21
Differences and characteristics.	22 - 23
Technical data	24 - 25
<u>The FXJ series</u>	<u>Page 26 - 37</u>
General about FXJ series.	26 - 27
Technical drawing	28 - 29
Features and Benefits	30
Areas of use and application.	
Differences and characteristics.	31 32 -
Technical data	35 36 - 37
<u>the rods</u>	<u>Page 38 - 45</u>
General about the rods.	38
Differences and characteristics.	39 - 41
Technical data	42 - 45
<u>The tool boxes</u>	<u>Page 46 - 47</u>
General about the scope of delivery. toolbox variations	46 46 - 47

<u>Accessories for hydraulic hammers</u>	<u>Page 48 - 49</u>
General about armor plates.	48
General information about the swivel adapter	49
<u>The SenciLube</u>	<u>Page 50 - 51</u>
General information about SenciLube	50
Differences and characteristics of sencio rod grease	51



FAST, SECURE, ON SITE

Our service for you

FRD tools represent premium equipment that our customers enjoy working with. The products have been developed to cover a wide range of applications, carrier devices and materials.

A wide network of selected distributors is at your disposal to guarantee the best possible support. They will give you confidence.

We provide support for all aspects of our product lines and we guarantee that you will find the suitable machines to meet your needs. Online

With our quality standards, we are always ready to offer you our technical expertise.

I know if you have any special requests. Working closely together, we can establish all the prerequisites so that you always work professionally. Take advantage -

Take advantage of our extensive knowledge and our range of smart machines with pre - Premium quality. Please feel free to contact us if you have any questions.

WE ARE FOR THIS



HIGH
QUALITY



RELIABLE
PRODUCTS



ABOVE
CUSTOMER SERVICE



THE DESIRE FOR PERFECTION

FRD - FURUKAWA ROCK DRILL

Few countries in the world so exemplify precision work and innovative technology like Japan.

The Japanese art of manufacturing with its aspiration for perfection is deeply rooted in the country's tradition. tion and it is something

that has been encouraged for centuries. All Furukawa Rock Drill products

(FRD) reflect this philosophy. The company was this -

created by its namesake Ichibei Furu - Kawa, who started a copper mining company in 1875. It repaired and served

He himself overhauled the imported rock drills he used at the Ashio copper mine. He designed his first machines in 1914 so that he could use them to extract rock to meet his needs. They also had to adapt perfectly to the constitution of the Japanese clipper.

Loin operators. These high performance -

The power and extremely robust tools laid the foundation for the success of his

company a few years later.

The Furukawa Group today consists of a total of 8 business groups, in which deep knowledge of metal processing as well as the design and construction of first-class machines play an important role.

FRD hydraulic hammers, surface drills, excavators and hydraulic demolition equipment are currently used around the world. The pre-

Mium machines break, drill, grab and shred a wide variety of materials, giving you reliable support in

various applications: in infrastructure construction, demolition, recycling, quarries, open pit mining, under -

terrestrial mining as well as in stone quarries natural. For this, FRD has branches in Europe, the United States, Latin America, Korea and China to pro -

Provide you with reliable support.

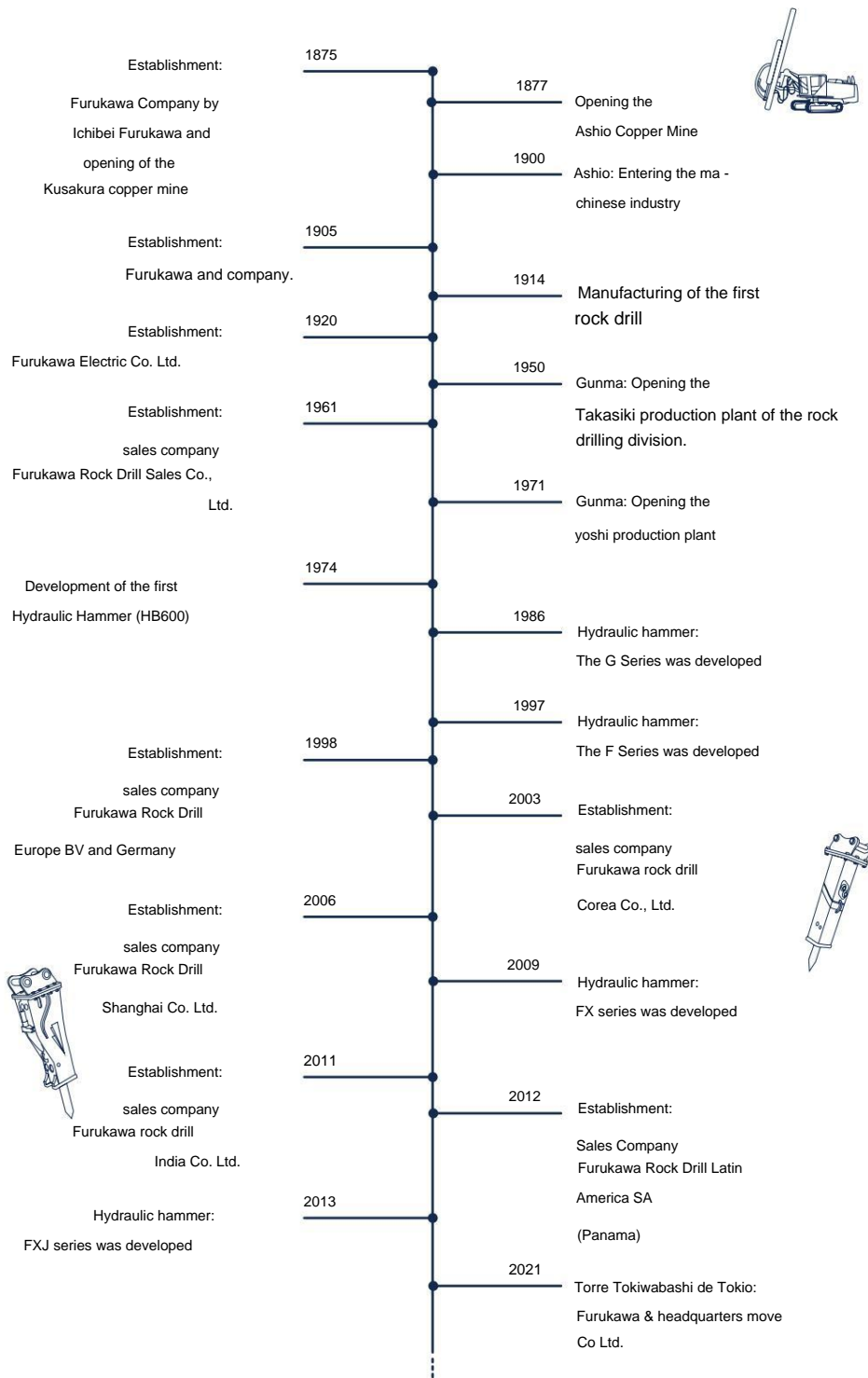
The desire for perfection continues to drive us.

That is why the Furukawa Group Innovation Laboratory continues to operate.

Actively conduct research on techniques.

cal innovations for even more power -

Complete, durable and easy-to-maintain machines that you can trust.





A FIRST CLASS TEAM

hydraulic hammers



Hydraulic hammers manufactured by FRD represent products of top quality, developed for a wide range of applications and materials.

Our series offers you high quality tools performance and low maintenance designed to meet your specific requirements.

Our hydraulic hammers reflect more than 50 years of engineering experience, extensive knowledge of steel and extensive practical experience gained with efficient impact systems.

for demolition work. Our three high-quality FRD series offer hammers

Hydraulic demolition machines suitable for every transporter and every task, from professionals to professionals. For maximum productivity and pleasant work.

See for yourself.



THE FX-2 GENERATION SERIES

Lasting impact

With the FX-2, we have taken our successful model and adapted it even more precisely to your needs.

The latest generation of the FRD small hammer series for mini excavators from 0.5 to 7 tonnes convinces with its low-maintenance monobloc design and premium materials, in particular:

Top quality hydraulic hammers, very durable and with the usual high efficiency. The FX -2 series features five models and three types of casing you can choose from. The three types of housing -

FT, S, XS come with a friendly user-friendly flange connection. This means that the connection brackets can be used to all types of quick change systems. He

The user-friendly S and XS housings are also characterized by particularly low noise and vibration levels. The new design makes

S and XS housing types are up to ten decibels quieter than the FT housing standard.

The XS housing type and the corresponding

The corresponding patented design of the FRD insertion tools also offers you the highest - The highest noise reduction level currently possible for small hydraulic breakers.

This makes working with hammers FRD hydraulics even easier to use.



Highlights of monobloc construction.



Low maintenance



Extremely durable



Suitable for many types of rods.

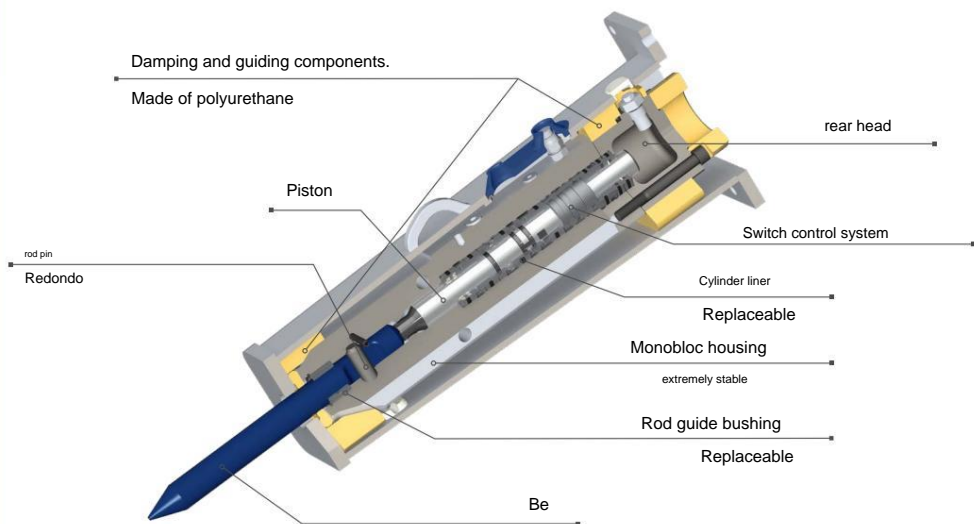
Areas of use and application.

- road construction
- Garden and landscaping
- Trench construction
- Secondary demolition work.
- Cleaning of crucibles and converters in foundry plants.



SCHEMATIC VIEW

Technical Drawing FX15 - FX35

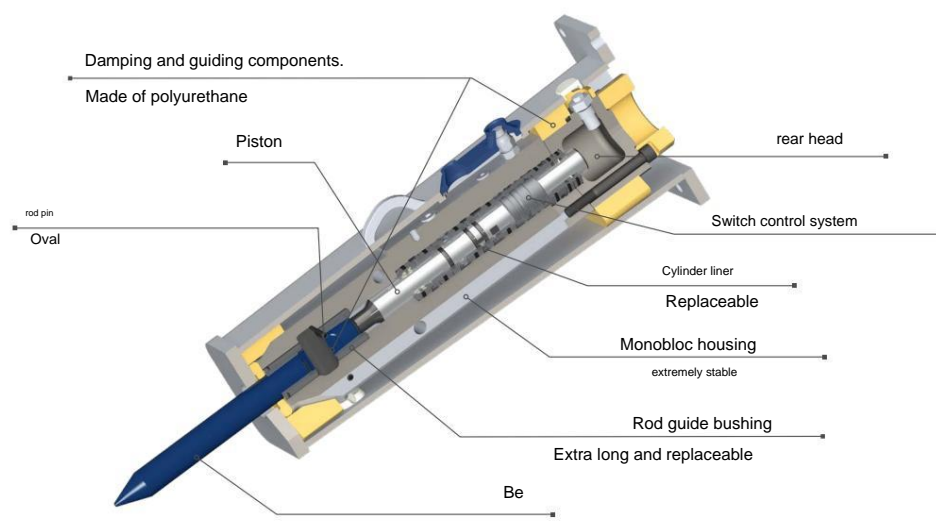


Features and benefits especially for FX15 to FX35

- Reduced maintenance costs thanks to the design monobloc with only two moving parts
- No through bolts to maintain
- No diaphragm to replace
- Replaceable rod guide bushing maintains rod in maximum performance
- Wide oil pickup range for performance fast and forceful and wide options transporters
- A variety of mounting options to suit any carrier and application
- A wide range of rods
- Includes two-year warranty with registration.

SCHEMATIC VIEW

Technical Drawing FX45 - FX55



Features and benefits especially for FX45 to FX55

- Reduced maintenance costs thanks to the design monobloc with only two moving parts
- Replaceable cylinder liner
- Extra-long, replaceable rod guide bushing keeps rod aligned for maximum life
- Oval rod pin for greater strength and contact surface.
- No diaphragm to replace
- Wide oil pickup range for performance fast and forceful and wide options transporters
- A variety of mounting options to suit any carrier and application
- A wide range of rods
- Includes two-year warranty with registration

THE FX-2 SERIES

Differences and characteristics.

FX15-2

The FX15-2 weighs practically a feather thanks to its operating weight of just 69 kilograms. The small FRD hydraulic hammer for vehicles from 0.5 to 1.5 tons impresses with its design, construction

high quality and high impact speed. Guaranteed high performance.

There are six different FRD rods available for the FX15-2. This leaves you with a wide range of applications. The FX15-2 comes with the case type FT.



AT

FX25-2

The FX25-2 supports vehicles from 1 to 2.5 tons in countless applications: breaking masonry, asphalt or stones. It is extremely robust and high-performing thanks to its high-quality structure. The FX25-2 can be combined with six FRD rods. For this version there are also the three types of housing FT, S and XS are available. When combined, all of this ensures seamless interaction for any application and any location.



AT

S

XS

FX35-2

The FX35-2 has been designed to expand your range of work, since this hydraulic hammer extremely Robust is suitable for conveyors from 1.5 to 4 tons. Six FRD rods are also available and the three types of housing FT, X and XS, to satisfy your needs. As a result, the FX35-2 is a Durable, high-performance premium hammer that Can be used in multiple applications and locations.



AT

S

XS

FX45-2

Unbeatable: the FX45-2 has been specifically designed for carriers from 2.5 to 5.5 tons. This version for mini excavators is extremely productive and reliable. Achieve much more performance per hour compared to all similar models on the market, thanks to a faster impact rate and greater tool penetration. There are six FRD rods available for the FX45-2 hydraulic breaker, as well as for the three casing types: FT, S and XS.



AT

S

XS

THE FX-2 SERIES

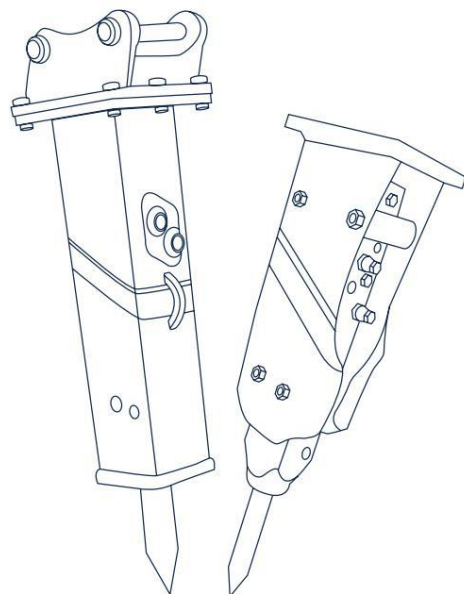
Differences and characteristics.


FX55-2

This premium hydraulic breaker is designed for 4 to 7 ton conveyors. Its innovative design requires fewer moving parts than the previous model. We were able to do the

FX55-2 is even lighter in combination with high-quality materials and without loss of performance. There are six FRD rods available for this hydraulic breaker.

It is also available in the three shell types FT, S and XS.




 THE FX-2 SERIES

Technical data

LENGTH ROD

MODEL	CASE TYPE	BASE WEIGHT OF THE MACHINE	OPERATING WEIGHT 2)	HEIGHT WITH ROD	ROD DIAMETER	EFFECTIVE	MAX HYDRAULIC INPUT POWER	OUTPUT FLOW	OPERATING PRESSURE	RELEASE RATE	NOISE LEVEL (GUARANTEED)	ROD DIAMETER HOSE (HD/ND)
		t	KG	MM	MM	MM	kilowatts	L/MIN	AMP	1 MINUTE	DB(A)	MM
FX15-2	AT	0,5 - 1,5	69	816	36	234	6,5	10-28	10 - 14 600	1500	116	9
FX25-2	AT	1,5 - 2,5	101	939	45	293	8,2	18 - 35	10 - 14 600	1500	118	12
FX25-2	S	1,5 - 2,5	112	961	45	293	8,2	18 - 35	10 - 14 600	1500	112	12
	XS			1051							110	
FX35-2	AT	1,5 - 4,0	146	1060	52	322	13,9	24 - 52	12 - 16 600	1300	124	12
FX35-2	S	1,5 - 4,0	157	1062	52	322	13,9	24 - 52	12 - 16 600	1300	119	12
	XS			1116							117	
FX45-2	AT	2,5 - 5,5	187	1167	60	355	16,0	30 - 60	12 - 16 600	1100	126	12
FX45-2	S	2,5 - 5,5	208	1173	60	355	16,0	30 - 60	12 - 16 600	1100	120	12
	XS			1227							117	
FX55-2	AT	4,0 - 7,0	245	1264	68	378	22,7	40 - 84	12 - 16 500	1100	126	12
FX55-2	S	4,0 - 7,0	280	1276	68	378	22,7	40 - 84	12 - 16 500	1100	119	12
	XS			1330							116	

1) Weights apply only to Std. carrier units. Any deviation must be agreed with FRD or with the transport unit manufacturer before placing it.

2) Weight including insertion tool, hose set and medium size fixing plate. (According according to CE directives)

Information

Subject to technical changes without prior notice.
notice from the manufacturer.



THE F SERIES

Simply unbeatable robustness

The F Series has been specially developed for mid-excavators and backhoes.

F series hydraulic breakers work perfectly in combination with supports from 5 to 12 tons. Still one of our most successful star products to date. There is a good reason for this, because the F Series



Technical data
on page 24 / 25

It is extremely robust, efficient and reliable. The premium product is available in four versions to suit a variety of operators and locations: F6BHL, F6FT, F6LN and F9LN.

Areas of use and application.

- road construction
- Garden and landscaping
- Trench construction
- Secondary demolition work.
- Cleaning of crucibles and converters in foundry plants.

Reflexes
from Serie F



Extremely
robust and durable



Extremely
durable



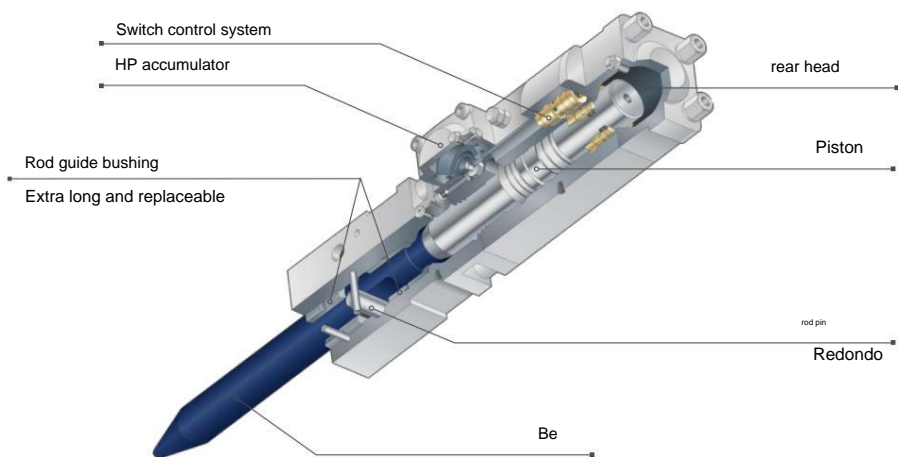
Great
construction





SCHEMATIC VIEW

Technical drawing F6 and F9.



F Series Features and Benefits

- Extremely robust and durable
- Large piston for maximum impact energy
- Replaceable rod guide bushings keep rod in proper alignment for maximum durability.
- Two rod pins for greater contact with steel and double life
- Wide oil pickup range for performance fast and forceful and wide options transporters
- A variety of mounting options to suit any carrier and application
- A wide range of rods
- Includes two-year warranty with registration





THE F SERIES

Differences and characteristics.

F6

The F6BHL is equipped with a special housing for backhoe loaders. It is ideal for vehicles between 3.5 and 10 tons. With this housing, the Premium hydraulic breaker can be optimally positioned in the transport position of the backhoe loader. This ensures that it can be used on the road. The F6BHL has impact power

exceptionally high for its performance group and also has a very robust design. There are five FRD rods available for this model.



BHL

F6

The F6FT premium hydraulic breaker is perfect for 5 to 9 ton conveyors.

It offers particularly high performance and easily breaks natural stone, asphalt and concrete. The hydraulic hammer is supplied with type FT housing and flanged connection. This design, being the classic connection, also represents the most favorable solution to couple various quick-change systems to a hydraulic hammer in a flexible and fast way.

There are five FRD rods available for the F6FT



AT

F6

Vehicles from 5 to 9 are suitable for the F6LN.

tons. It has a low noise and vibration housing. This makes this version a

convincing choice thanks to its high impact power with low noise levels. The F6LN is therefore perfect in all situations where minimizing noise is essential. The LN housing ensures that the F-series FRD hydraulic hammer runs up to 4 dB(A) quieter than

the standard FT housing.

There are five FRD rods for the F6LN.



LN

F9

This F-series model is designed to work with conveyors from 6 to 12 tons.

The F9LN comes with the noise-reducing LN housing. Meaning: The hydraulic hammer works exceptionally well, but especially quietly. Therefore, it is suitable for use in those places where

It is necessary to maintain a low noise level while ensuring high performance.

There are five FRD rods available for the F9LN.



LN



THE F SERIES

Technical data

LENGTH ROD

MODEL	CASE TYPE	BASE WEIGHT OF THE MACHINE	OPERATING WEIGHT 2)	HEIGHT WITH ROD	ROD DIAMETER	EFFECTIVE	MAX HYDRAULIC INLET FLOW	OUTPUT POWER	OPERATING PRESSURE	STROKE RATE	NOISE LEVEL (GUARANTEED)	ROD DIAMETER HOSE (HD/ND)
		T	KG	MM	MM	MM	kilowatts	L/MIN	AMP	1 MINUTE	DB(A)	MM
F6	BHL	3,5 - 10	365	1450	75	450	21,0	50 - 90	10 - 14	650 - 1050	129	12
F6	AT	5 - 9	365	1450	75	450	21,0	50 - 90	10 - 14	650 - 1050	129	12
F6	LN	5 - 9	350	1400	75	450	21,0	50 - 90	10 - 14	650 - 1050	125	12
F9	LN	6 - 12	535	1595	90	500	27,5	65 - 110	12 - 17	550 - 900	125	19

1) Weights apply only to Std. carrier units. Any deviation must be agreed with FRD or with the transport unit manufacturer before placing it.

2) Weight including insertion tool, hose set and medium size fixing plate. (According according to CE directives)

information

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notice from the manufacturer.

FXJ SERIES DIE

Uniquely forceful and progressive

We have managed to systematically advance a new generation of premium hydraulic breakers with the FXJ series.

For the FXJ series, we have designed a mechanism low-maintenance impact tool and slim design to further extend the life of the high performance tool: design monobloc eliminates the cylinder, front head and separate through bolts.

The square edge design also makes the FXJ series even stronger, lighter and more productive. Through

The bolts have been completely omitted until the FXJ475. New valve design reduces hydraulic oil temperature and increases performance, and we have also allowed a greater oil intake range. This has allowed us to design a series of hammers that offer faster impact speeds and ?.

The incredibly efficient FXJ series premium hydraulic breakers are

The FXJ series at a glance



Unique on the market with these features of design. The FXJ series has eight models, including four size hydraulic hammers medium (FXJ125-FXJ275) and four large (FXJ375-FXJ1070).

There are several FRD rods available. Our heavyweights FXJ770 and FXJ1070 continue to be manufactured with the proven design

due to its size; but now also with some news,

Performance-enhancing features such as Heavy Duty Cushioned Through Bolts due to vibrations and with a larger diameter, the sleeve replaceable cylinder, the new design of the valves and higher gas pressure in the cylinder head rear.

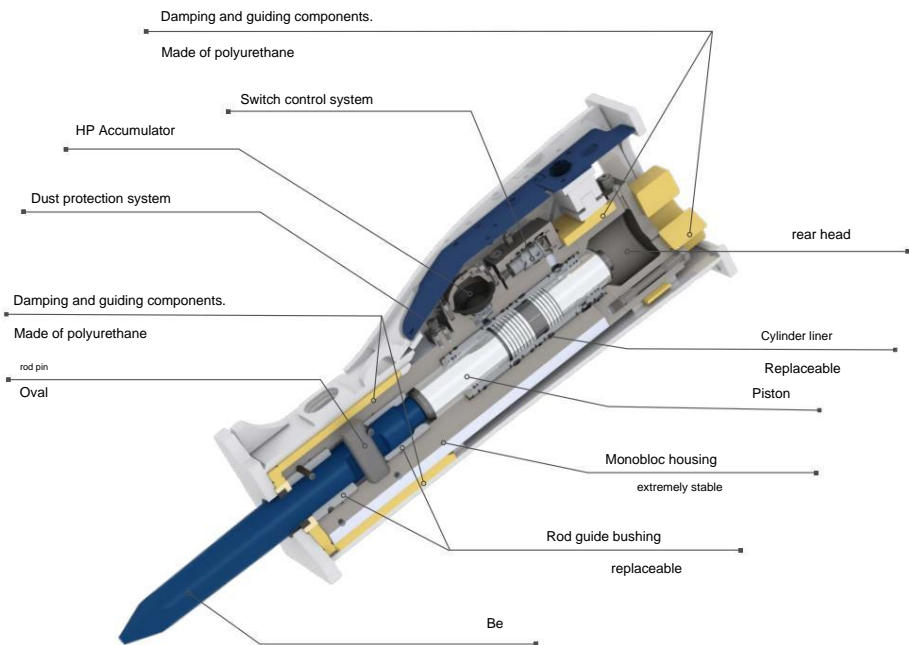
Both hydraulic hammers are tools of latest generation on the market.





SCHEMATIC VIEW

Technical drawing FXJ125 - FXJ475



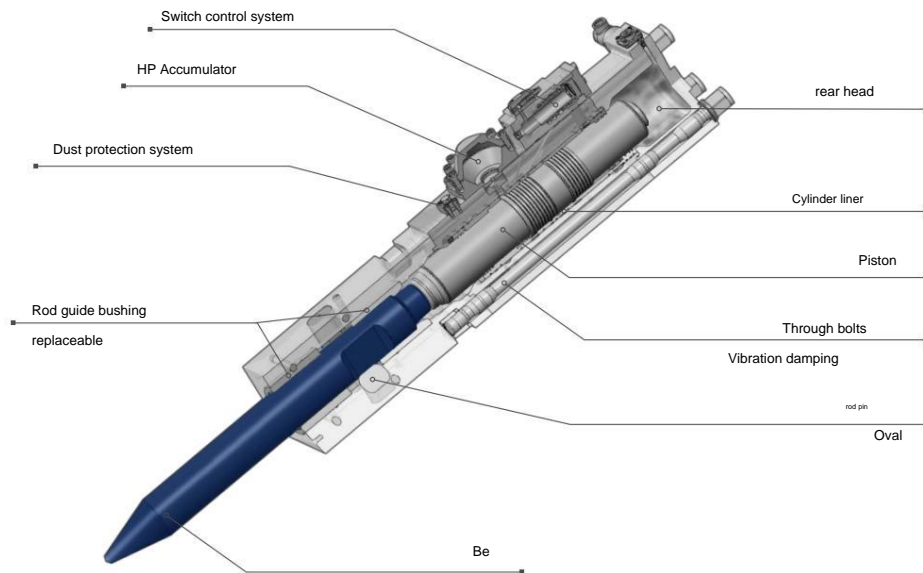
Features and benefits especially for FXJ125 to FXJ475

- Reduced maintenance costs due to monoblock design
- Without separate cylinder and front cylinder, and bolts interns thanks to Monobloc design
- Square unibody design promises the greatest endurance



SCHEMATIC VIEW

Technical drawing FXJ770 - FXJ1070



Features and benefits especially for FXJ770 to FXJ1070

- Square front cylinder and cylinder construction for greater resistance
- Vibration damping through bolts Larger diameter for longer life
- The newly designed piston increases the contact surface with the rod.
- Increased pressure on the back of the head for greater impact power

Information: Without FXJ125 thru-bolt construction - 475 | With through bolt construction of FXJ770 - 1070

FXJ Series Highlights



Reduced
operating costs



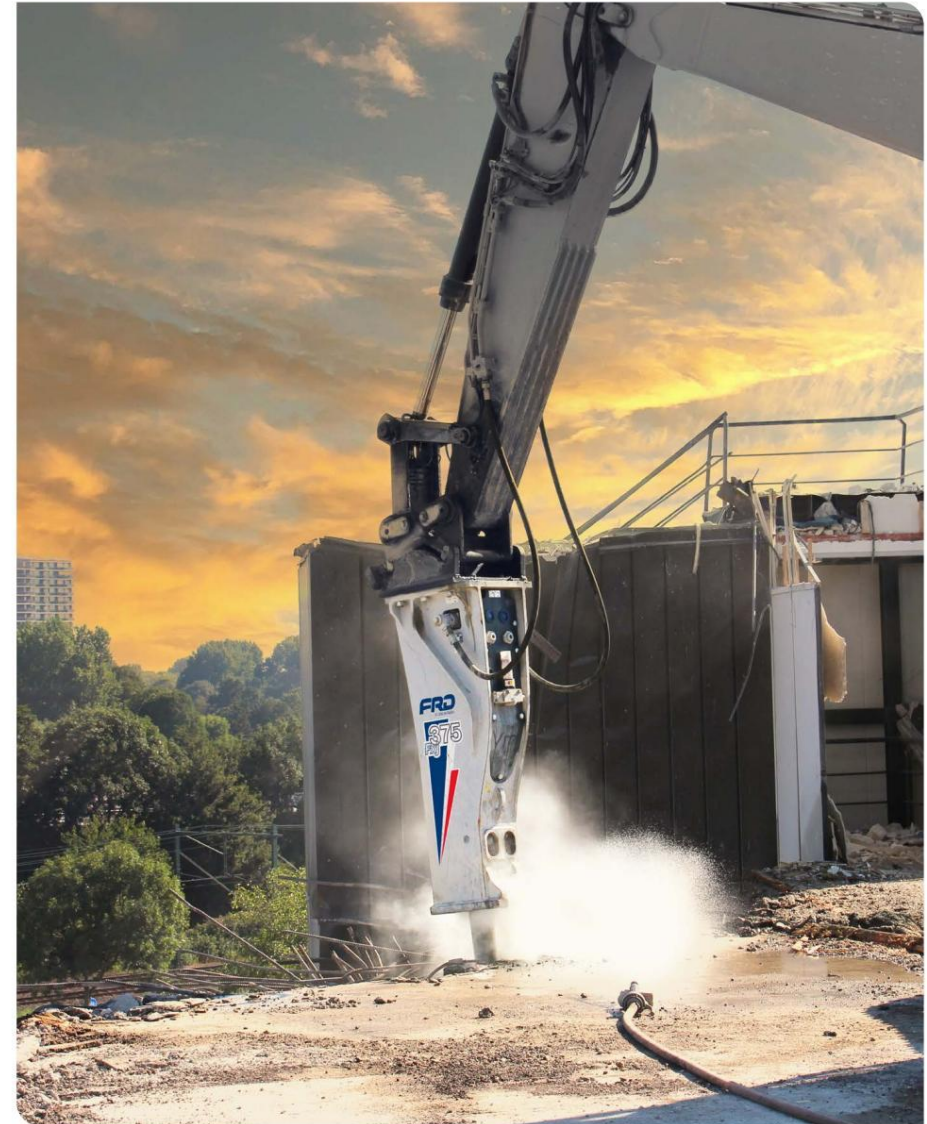
High
durable



Damping system for
low sound and vibration

FXJ Series Features and Benefits

- Replaceable cylinder liner with ports concentric rings keep the piston aligned to achieve maximum impact and reduces overall maintenance costs.
- Higher performance due to improved design of the valve reduces the temperature of the fluid hydraulic
- An active check valve vents the area of impact during the upward movement of the piston, minimizing the entry of abrasive dust and expelling the lubricant contaminated with dust of the rod guide system (excluding FXJ 125).
- Greater range of hydraulic flow for use in a greater number of transporters
- Minimizes internal contamination by three point dust prevention
- Increased contact surface with the rod due to newly designed impact piston
- The larger surface area of the guide bushings of the rod keeps rod optimally aligned for greater impact force
- SV housing (sound and vibration damping system), the system isolates the drive unit percussion and casing using elements shock absorbers and guides made of polyurethane and sealing the openings of the hydraulic hammer reduces noise and vibration levels.
- Increased and improved lubrication for wear components.
- Two long oval rod pins with a Simple but reliable locking system for a quick rod change and greater durability



Areas of use and application.

- Demolition work
- foundation work
- Trench construction
- Direct extraction from the quarry.
- bouldering work
- excavation work
- Cleaning and disassembly of brick coverings.

FXJ125 SERIES DIE UP TO 275

Differences and characteristics.

FXJ125

Extremely efficient and versatile: The FXJ125 mid-range hammer has been developed especially for medium and mobile excavators and boom systems. Tool holders with a weight of 9 to 16 tons are suitable for the premium tool. The monobloc design of the hydraulic breaker ensures maximum efficiency with a long service life. Eliminating through bolts has also been shown to significantly reduce downtime.

The result: simply powerful.



SV

FXJ175

The FXJ175 mid-range hammer for vehicles weighing 12 to 21 tons reflects its design and is an extremely powerful hydraulic hammer with a long service life. This premium work tool is equipped as standard with integrated piston stroke adjustment, optimizing overall performance. The FXJ175 has been prepared for automatic lubrication systems at the factory and can be connected

directly to our lubrication system SenciLube.



SV

FXJ225

Superior crushing force: The FXJ225 hydraulic hammer is optimized for conveyors weighing between 16 and 26 tons. The extremely robust FRD percussion mechanism with design monobloc also accompanies you in demanding jobs, for example in demolition projects or as a production machine in a quarry, and reliably at all times. The advanced design

The well-thought-out design of this premium tool also guarantees a particularly long service life.



SV

FXJ275

The FXJ275 is a particularly powerful and reliable all-rounder in the premium segment: it has

It has been designed for a wide range of vehicles weighing between 21 and 30 tonnes. The low-pressure FRD hydraulic breaker maintenance comes with all

award-winning features of the FXJ series and offers a unique, high-quality tool

performance thanks to its monobloc design, dust protection system, new valve design to reduce hydraulic oil temperatures and percussion piston

redesigned.



SV

FXJ375 SERIES DIE UP TO 1070

Differences and characteristics.

FXJ375

The FXJ375 model has been designed for excavators of the class from 25 to 42 tons.

The very robust hydraulic hammer is suitable for a wide range of applications.

The advanced unibody design and new structural concept have allowed us to increase significantly the performance of the model.

Equipped with an adjustment mechanism piston stroke, the length of the piston stroke of the FXJ375 regulates the power characteristics and speed during ongoing operation, optimizing thus the overall performance.



SV

FXJ475

Excavators of the class from 33 to 55 tons

They are the perfect carriers for this premium FRD hydraulic hammer. The monobloc design, rear head gas pressure and new percussion piston ensure you can rely on a high-performance, robust and quiet tool. It breaks, for example, blue granite in Scandinavia and large rocks in Spain.

The FXJ475 is ready for factory automatic lubrication.



SV

FXJ770

It is ideal for weights between 44 and 75 tons. He

Extra large hammer features a shirt replaceable cylinder, higher gas pressure in the rear cylinder head, greater surface area of the rod guide bushings and heavy duty through bolts diameter and large diameter with cushioning newly designed vibrations. It is planned for the primary and secondary excavation without blasting in works and quarries, in open pit mining and underground, as well as for the demolition of massive reinforced concrete structures.



SV

FXJ1070

The FXJ1070 is the largest switch in the series.

It is suitable for carriers from 65 to 110

tons. The premium model is ideally designed for mass demolition work, direct extraction or quarry operations in quarries, land grading or deepening

of channels. The FXJ1070 is extremely robust and high performance. This is achieved thanks to the higher gas pressure in the rear head, the new shape of the percussion piston and the larger diameter, vibration-damped Heavy Duty through bolts.



SV

THE FXJ SERIES

Technical data

LENGTH ROD

MODEL	CASE TYPE	BASE WEIGHT OF THE MACHINE	OPERATING WEIGHT 2)	HEIGHT WITH ROD	ROD DIAMETER	EFFECTIVE	MAX HYDRAULIC INLET FLOW	OUTPUT FLOW	OPERATING PRESSURE	FLOW RATE	NOISE LEVEL (GUARANTEED)	ROD DIAMETER HOSE (HD/ND)
MEDIUM HYDRAULIC HAMMERS		t	KG	MM	MM	MM	kilowatts	L/MIN	AMP	1 MINUTE	DB(A)	MM
FXJ125	SV	9 - 16	800	2005	110	640	36,0	70 - 120	16 - 18 400 - 1000		129	19
FXJ175	SV	12 - 21	1000	2043	120	620	48,0	100 - 160	16 - 18 450 - 900		120	19
FXJ225	SV	16 - 25	1600	2411	135	650	57,0	125 - 190	16-18	350 - 850	121	25
FXJ275	SV	21 - 30	1800	2468	140	680	66,0	145 - 220	16-18	350 - 620	122	25
LARGE HYDRAULIC BREAKERS												
FXJ375	SV	25 - 42	2600	2715	155	715	78,0	170-260	16 - 18 300 - 550		123	25
FXJ475	SV	33 - 55	3200	2892	170	720	90,0	200 - 300 16 - 18		250 - 450	124	32
FXJ770	SV	44 - 75	4800	3390	190	860	102,0	250 - 340 16 - 18		250 - 420	124	32
FXJ1070	SV	65 - 110	6600	3800	210	980	126,0	280 - 420	16-18	200 - 375	128	32

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2) Weight including insertion tool, hose set and medium size fixing plate. (According according to CE directives)

Information:

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PERFECT IN INTERACTION

Rods for FRD hydraulic hammers

FRD rods reflect extensive experience in steel, steel processing and design.


This allows us to offer our clients

Rods tailored to fit all FRD hydraulic hammers, ensuring high productivity and low operating costs.


This is achieved by manufacturing FRD rods from a special alloy that has a very high degree of purity. Various types of top quality rods are available. As a result, high-quality rods provide you

reliable support in application areas more versatile. Whether in construction of roads, in demolition work, excavation of trenches, work in quarries, advance of tunnels or in mining. For the FRD series of hydraulic breakers are


Highlights of FRD Rods



High performance



Premium quality



Endurance

3D: overview of all rods




THE RODS

Differences and characteristics.


Cone-rod

3D - Representation



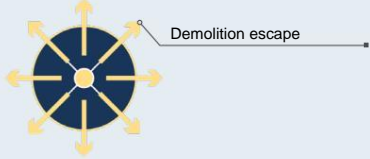
The conical tip is ideal for general work thanks to its excellent penetration capacity and good wedging effect in all directions. In

Sketches - illustration



The tip of the cone does not produce any twisting effect. Its tip facilitates optimal positioning and is especially effective with small diameter rods, such as those of the FX series.

Pressure distribution view




Demolition escape

This type of rod is suitable for very different fields of application: it breaks concrete, sedimentary rocks, as well as limestone, sandstone, greywacke and calcareous sediments.


Moil Rod

3D - Representation

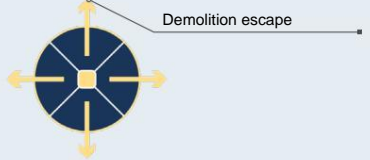


The moil tip rod represents a further development of the conical tip, it has good four-way wedging effect and the twisting effect is low. Its pyramidal shape ensures optimal positioning and is best suited for large diameter rods such as those used with the F and FXJ series.

Sketches - illustration



Pressure distribution view




Demolition escape

This type of rod is suitable for very different fields of application: it breaks concrete, sedimentary rocks, as well as limestone, sandstone, greywacke and calcareous sediments.


wedge rod

Wedge rod offers excellent cranking action coining in two directions. The force transmitted by the hammer is distributed in an area larger in line with its flat cutting edge and more broad. It breaks reinforced concrete very well and is ideal in the primary fracture range for crushing rocks with severe fractures. Other fields of Application include excavation of trenches and pits, as well as work on slopes with slopes of the land.

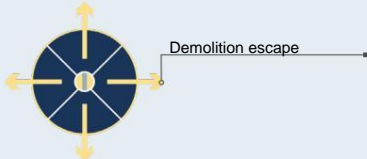
3D - Representation



Sketches - illustration



Pressure distribution view




Wide chisels and asphalt shovels

Wide chisels and asphalt shovels have a straight blade edge and have much wider cutting edges than a wedge bar.


Meaning: Force distribution and area production are greater.

They vary in design and are therefore suitable for different application areas. As its name suggests, the asphalt shovel is optimized for asphalt work. The asphalt shovel finds its place of use wherever it is necessary cutting asphalt or soft materials. The wide chisel is designed to break up asphalt surfaces, but can also be used to open spoons pouring and is suitable for breaking concrete (armed).


3D - Representation



Sketches - illustration



Pressure distribution view



flat rod


The flat rod optimally transfers all the impact force of the hammers to the material to be crushed.

This does not penetrate the material.


This type of rod is the tool of choice, for example, for secondary demolition in quarries and bouldering, and is suitable for concrete demolition or slag transportation. It is perfect to separate concrete and reinforcement in the sector of recycling. It is very good for breaking stones.

large size in crushing operations secondary. When it comes to jobs primary fracturing, its areas of application include volcanic rock, diabase, gabbro, granite with slight cracking.

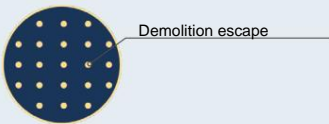
3D - Representation



Sketches - illustration



Pressure distribution view




Center rod


The central rod features a hard steel core. Made of tungsten carbide, ensuring that the tip of the rod always remains sharp. It has a solid wedge effect in four directions and the torque effect is low. Its way pyramid facilitates optimal positioning.

The core rod is used to break ores metallic and quartzite, although it is also suitable for other highly abrasive materials.

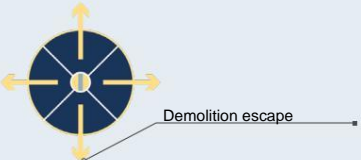
3D - Representation



Sketches - illustration



Pressure distribution view





FRD RODS FOR FX AND F SERIES

Technical data

FX15-2FT y S	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (38 MM)	MM	MM	KG
PUSSY	370	234	2,8
MOLO	-	-	-
CUÑA	370	234	2,8
DEPARTAMENT	370	234	2,8
BROAD	440	115	3,7
ASPHALT SHOVELS	440	125	3,7
CENTER	-	-	-

FX25-2FT y S	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (45 MM)	MM	MM	KG
PUSSY	460	293	5
MOLO	-	-	-
CUÑA	440	293	5
DEPARTAMENT	460	293	5
BROAD	440	120	5
ASPHALT SHOVELS	450	100	5
CENTER	460	293	5

FX25-2XS	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (45 MM)	MM	MM	KG
PUSSY	515	293	5,8
MOLO	-	-	-
CUÑA	515	293	5,8
DEPARTAMENT	515	293	5,8
BROAD	ON ENFRAGADO		
ASPHALT SHOVELS	ON ENFRAGADO		
CENTER	460	293	5

FX35-2FT y S	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (52 MM)	MM	MM	KG
PUSSY	510	322	8
MOLO	-	-	-
CUÑA	510	322	8
DEPARTAMENT	510	322	8
BROAD	500	140	8,5
ASPHALT SHOVELS	510	115	8,5
CENTER	510	322	8

FX35-2XS	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (52 MM)	MM	MM	KG
PUSSY	565	322	8,5
MOLO	-	-	-
CUÑA	565	322	8,5
DEPARTAMENT	565	322	8,5
BROAD	ON ENFRAGADO		
ASPHALT SHOVELS	ON ENFRAGADO		
CENTER	510	322	8

FX45-2FT y S	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (60 MM)	MM	MM	KG
PUSSY	560	355	11
MOLO	-	-	-
CUÑA	560	355	11
DEPARTAMENT	560	355	11
BROAD	500	150	9
ASPHALT SHOVELS	520	130	9
CENTER	560	355	11

FX45-2XS	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (60 MM)	MM	MM	KG
PUSSY	615	355	12,1
MOLO	-	-	-
CUÑA	615	355	12,1
DEPARTAMENT	615	355	12,1
BROAD	ON ENFRAGADO		
ASPHALT SHOVELS	ON ENFRAGADO		
CENTER	560	355	11

FX55-2FT y S	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (68 MM)	MM	MM	KG
PUSSY	600	378	15
MOLO	-	-	-
CUÑA	600	378	15
DEPARTAMENT	600	378	15
BROAD	560	150	16,5
ASPHALT SHOVELS	590	150	16,5
CENTER	600	378	15

FX55-2XS	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (68 MM)	MM	MM	KG
PUSSY	655	378	16,4
MOLO	-	-	-
CUÑA	655	378	16,4
DEPARTAMENT	655	378	16,4
BROAD	ON ENFRAGADO		
ASPHALT SHOVELS	ON ENFRAGADO		
CENTER	600	378	15

F6	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (75 MM)	MM	MM	KG
PUSSY	-	-	-
MOLO	730	450	21,5
CUÑA	730	450	21,5
DEPARTAMENT	730	450	21,5
BROAD	670	150	20
ASPHALT SHOVELS	700	150	20
CENTER	730	450	21,5

F9	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (90 MM)	MM	MM	KG
PUSSY	-	-	-
MOLO	840	500	35,5
CUÑA	840	500	35,5
DEPARTAMENT	840	500	35,5
BROAD	740	180	33
ASPHALT SHOVELS	780	200	33
CENTER	840	500	35,5



THEFRDRRODSFORSERIESFX J

Technical data

FXJ125	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (110 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1070	680	69
CUÑA	1070	680	69
DEPARTAMENT	1070	680	69
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1070	680	69

FXJ175	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (120 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1110	695	76
CUÑA	1110	695	76
DEPARTAMENT	1110	695	76
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1110	695	76

FXJ770	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (190 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1735	860	315
CUÑA	1735	860	315
DEPARTAMENT	1735	860	315
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1735	860	315

FXJ1070	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (210 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1940	980	434
CUÑA	1940	980	434
DEPARTAMENT	1940	980	434
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	-	-	-

FXJ225	LENGTH	DURATION OF USE	WEIGHT
WITH A CROW (135 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1250	737	120
CUÑA	1250	737	120
DEPARTAMENT	1250	737	120
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1250	737	120

FXJ275	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (140 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1310	770	135
CUÑA	1310	770	135
DEPARTAMENT	1310	770	135
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1310	770	135

FXJ375	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (155 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1405	810	172
CUÑA	1405	810	172
DEPARTAMENT	1405	810	172
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1405	810	172

FXJ475	LENGTH	DURATION OF USE	WEIGHT
WITH CROW (170 MM)	MM	MM	KG
PUSSY	-	-	-
MOJ	1510	830	221
CUÑA	1510	830	221
DEPARTAMENT	1510	830	221
BROAD	-	-	-
ASPHALT SHOVELS	-	-	-
CENTER	1510	830	221





SCOPE OF DELIVERY

The tool boxes

Always well equipped thanks to FRD tool cases!

The special tool that takes your collection to a new level!

All hydraulic breakers are supplied with a tool bag or box. For the FX-2 series, the Scope of delivery includes a tool bag.

For F and FXJ series, two storage bags are included. different tools. Boxes are provided tools.

They contain the most important special tools, for example to allow a quick change of the rod.

FX Series Tool Box



F Series Tool Box



FXJ Series Tool Box



manual grease gun



Sencio Blanco



HYDRAULIC BREAKING ACCESSORIES

armor plates

The FRD armor plate is the optimal additional protection against wear. In trenches, during channel work or when working in quarries, Hardox reinforcement The plate provides maximum protection.

for your hydraulic hammer. Subsequent It is possible to simply update it welding it to the hydraulic hammer casing.

Outstanding aspects of the Armor plates

- 1 Robust use protection
- 2 Extremely durable
- 3 Straight mounting

HYDRAULIC BREAKING ACCESSORIES

The swivel adapter

No more annoying incidents! Thanks to the FRD rotating adapter. This prevents the hydraulic hoses from kinking or deforming and facilitates an optimal connection.

Quick benefits thanks to simple mounting on the hammer body. Wear parts, such as seals, can be replaced without problems.

Outstanding aspects of the Swivel adapter

- 1 Reduce work absences
- 2 Extremely durable
- 3 Simple retrofitting

EFFICIENT, DEMAND-ORIENTED, HASSLE-FREE

Our lubrication system: Sencilube

The FRD Sencilube lubrication system

It guarantees optimal lubrication of the rod guide bushings at all times and fully automatically. The uncomfortable

The complicated system mounts directly to the switch housing. Facilitates continuously adjustable lubrication of

the tool area and consequently ensures optimal lubricant supply. The level of Filling the cartridges is also easy control from the excavator cabin thanks to its transparent cartridge. Equally simple: change the cartridge.

Reflexes
from Sencilube



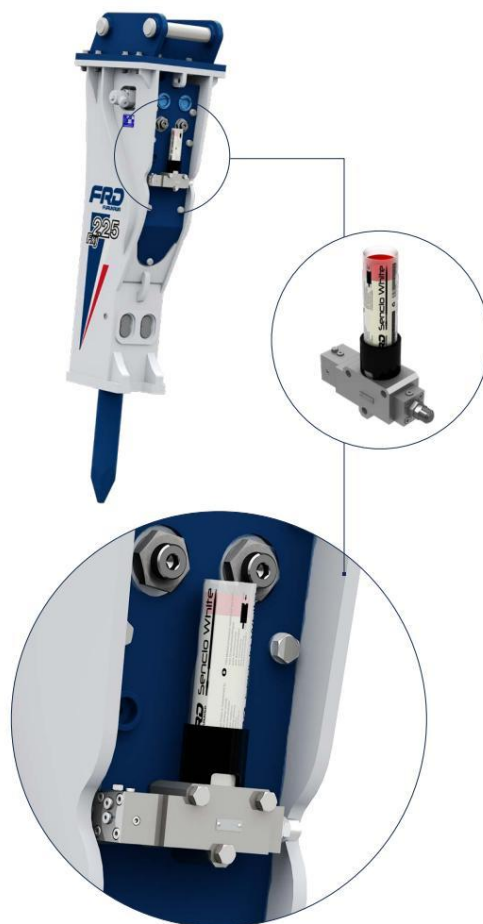
Optimum
lubricant supply



Reduced
maintenance



Straight
Hammer casing assembly



OUR SENCIO ROD GREASE

Differences and characteristics.

Blue Sencio

Sencio Blue rod grease has been specially developed to provide optimal lubrication to wear bushings hydraulic hammers, helping to prevent both wear and tear of the tool. The Sencio Blue tool paste is produced with a solid lubricant combination composed of copper/graphite and molybdenum disulfide (MoS₂). It's fat like - The position guarantees a reliable separation effect and reduced wear on elevated surfaces. They withstand pressures and temperatures of up to 1100 °C. (P/N FGC-06713-1)



Sencio Blanco

Sencio White BIO rod grease has been approved by the Commission for use in ecologically sensitive applications for the construction and mining industries. The special formula is composed of selected synthetic esters which, after saponification of lithium, produce

It produces an extremely robust lubricating grease that also biodegrades quickly. The lubricants resulted in a high VKA value and high pressure absorption. (N/P FGC-06625)



EU ECO LABEL DE / 027 / 089

