

HYDRAULIC BREAKERS



WHERE **EXPERIENCE COUNTS**

FURUKAWA ROCK DRILL



TRADITION AND HIGH-TECH FROM ONE COUNTRY

Japan, country of old traditions, has proven its high technical performances in many different ways. Already many years ago Japanese electronic equipment contributed highly to the possibility to reach the moon and other planets. In almost every computer, telephone or any other kind of electronic equipment we can find some Japanese components. In the car industry Japanese engineers have achieved high performances in order to produce cars more efficient and economical. Car tests in different countries have often concluded that Japanese cars are the most reliable and with a minimum of maintenance cost. Also Furukawa is one of those traditional concerns, that could show continuous growth through their on going product improvement and development.

Everything started in 1875, when Furukawa opened their Kusakura Copper Mine. The mining job always required new and specific solutions to improve our production. For this reason Furukawa started in 1900 to produce their own mining equipment, which led to higher production levels of the mine. With this step Furukawa unintentionally created the base for a new, high technology concern. The better results with their custom made machinery soon created a demand for similar machines in other mines. To be able to fulfill these requirements, Furukawa started to separate their activities in different divisions.

In 1918 Furukawa Mining Co. Ltd was found and in 1920 Furukawa Electric Co. Ltd. Later in 1961 the start of Furukawa Rock Drill Co. Ltd was an answer to the demand to be able to sell worldwide, the machines, that initially were meant only for their own use.

In 1971 Furukawa established a new factory in Yoshii for the production of crawler drills and demolition equipment. The demand for those products was so large, that in 1976 a second production unit was established in Takasaki. Since then from these two factories more than 100.000 hydraulic breakers were delivered all over the world. In the meantime Furukawa Rock Drill division has built an international sales and service network, which secures an optimum after sales service for all equipment. Our slogan **WHERE EXPERIENCE COUNTS** we take as serious as other Japanese traditions and we hope you will approach us with your specific demands. We and our Distributor network are ready to help you.



FXJ SERIES



TECHNOLOGY THAT MAKES A DIFFERENCE

GREAT BREAKING POWER

The use of high quality materials and the highest quality production process results in a breaker body with less weight and higher output/performance. The impact energy is higher than ever.

OPERATOR FRIENDLY

With the new slim design the FXJ has a better accessibility in demolition and quarry. It provides high efficiency in trench work. In addition to its slim design, there is a newly designed top damper which reduces the noise and vibration.

IMPROVED DURABILITY

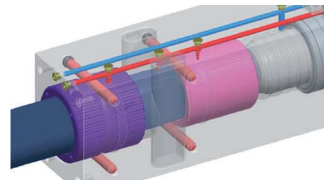
The use of the best quality materials and the highest quality standard in production creates a product that will work longer and is more efficient. The new floating rod seal, minimizes dust intake and result in an extended life time.

EASY SERVICE

To ease the service FRD developed the mono-block cylinder which reduced the parts. With this unique construction, there are no through bolts needed. With the new rod pin design and other improvements of the parts, the lifetime is longer and are easy to replace.

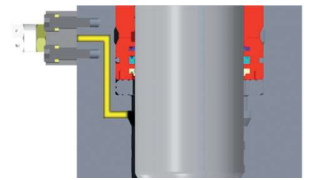
LOWEST LIFETIME COST

High quality materials give a longer lifetime to each part, which drastically reduces the total maintenance cost. Over long periods the advantages of less downtime and fewer parts to replace, results in a cost per year, which are the lowest in the market.



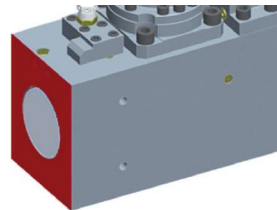
GREASING SYSTEM

Advanced greasing system that evenly distributes grease to front holder, front bushing and rod pins



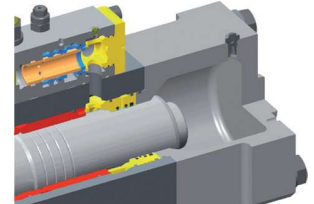
DUST CONTROL SYSTEM

2-Point Patent dust intake prevention system.



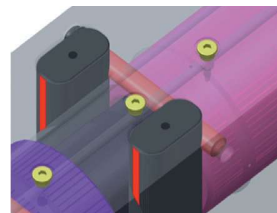
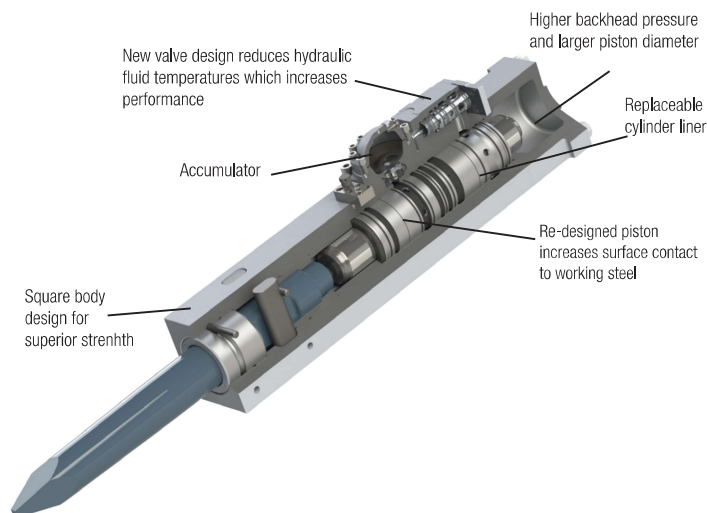
SLIM BODY DESIGN

The rectangular design allows better pressure distribution



VALVE DESIGN

Low resistance reduces hydraulic fluid temperatures which increases the efficiency



SMART DEVELOPED ROD PIN

Load is decreased by the long rod pin, which enlarge the supporting area



REDESIGNED PISTON

Increased contact area to the impact surface of the rod

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FXJ SERIES

FRD's line of hydraulic breakers for excavators represents the latest in design technology. With multiple patented enhancements, the FXJ series improves day-to-day performance, offering less maintenance and downtime, smoother operation, superior strength and the highest level of reliability. A wider hydraulic flow range allows for use on a broad range of carriers reducing inventory while increasing utilization.



			FXJ125	FXJ175	FXJ225	FXJ275	FXJ375	FXJ475
Operating weight, ¹⁾ FXJ		kg	850	1000	1600	1800	2600	3200
Height with rod,		mm	2005	2043	2411	2468	2715	2892
Operating pressure	min	MPa	16	16	16	16	16	16
	max		18	18	18	18	18	18
Oil flow	min	l/min	70	100	125	145	170	200
	max		120	160	190	220	260	300
Impact rate	min	bpm	400	450	350	350	300	250
	max		1000	900	850	620	550	450
Impact energy		joules	2320	3610	4580	5120	7310	9620
Rod diameter Ø		mm	110	120	135	140	155	170
Rod effective length		mm	640	620	650	680	715	720
Rod weight		kg	69	81	120	143	167	229
Hose inner dia Ø Press/Return		mm	19	19	25	25	25	32
Sound power level		dB	125	118	120	121	121	121
Guaranteed sound power level		dB	129	120	121	122	123	124
Base machine weight		ton	9 - 16	12 - 21	16 - 24	18 - 30	25 - 42	33 - 55

¹⁾ Operating weight with top bracket.

Specifications subject to change without notice

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FXJ SERIES

As usual FRD has designed the FXJ series to offer the benefits of minimum maintenance needs and a maximum of user convenience and output assurance. Large noise reductions of some 6 dbA has been achieved against past models. Reduced vibration effects likewise make the models more friendly for users and the immediate user environment. Modern design and increased power complements a carefully thought through physical structure.



FXJ770

FXJ1070

ADVANTAGES FXJ SERIES

- High reliability
- High power and performance (adjustable blows/blow energy)
- Can work in any type of application/material
- Low maintenance design
- Minimized moving parts
- Adjustable valve for maximum performance on each type/size of excavator
- Auto grease connection
- Compressed air connection for anti dust or working underwater
- FXJ frame for low noise and vibration
- Dust suction prevent function



			FXJ770	FXJ1070
Operating weight, ¹⁾	kg		4800	6550
Height with rod	mm		3390	3800
Operating pressure	min	Mpa	16	16
	max		18	18
Oil flow	min	l/min	250	280
	max		340	420
Impact rate 1/min	min	bpm	250	200
	max		420	375
Impact energy	joules		11850	13690
Rod diameter Ø	mm		190	210
Effective length Rod	mm		860	980
Weight Rod	kg		315	434
Hose inner dia Ø HD, ND	mm		32	32
Noise level guaranteed	dB(A)		124	128
Base machine weight	t		44-75	65-100

¹⁾ Operating weight with top bracket.

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