



# 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.

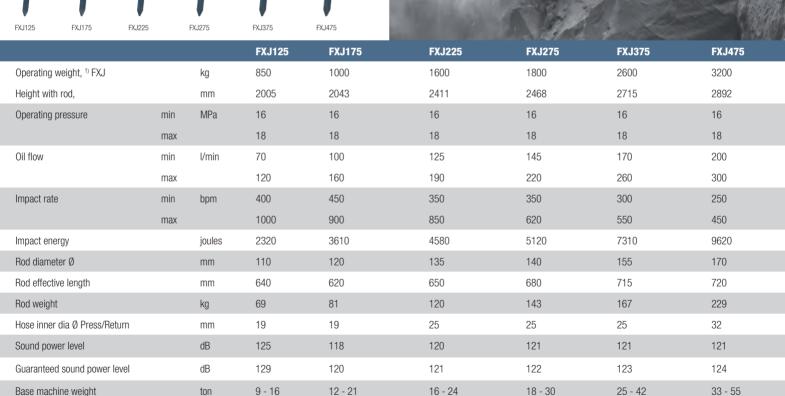
In 1971 Furukawa established a new factory in Yoshii for the production of crawler drills and demolition equipment. The demand for those products was so large, that in 1976 a second production unit was established in Takasaki. Since then from these two factories more than 100.000 hydraulic breakers were 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**

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 maintenence 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.





<sup>1)</sup> Operating weight with top bracket.

Specifications subject to change without notice

# **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.



### **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



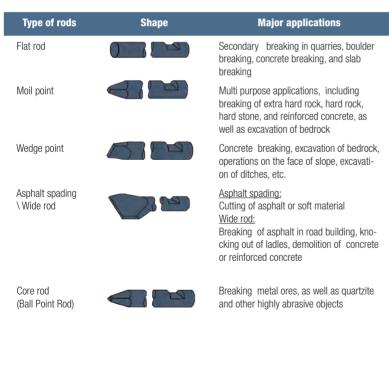
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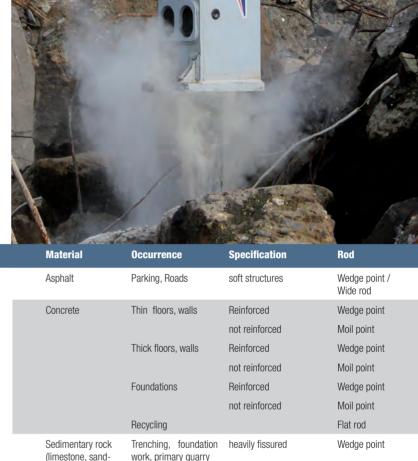
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# **TYPE OF ROD**

FRD is a recognized manufacturer of hydraulic breakers thanks to her experience. This experience is also used in the manufacture of rods. The FRD rod are beased on the in-house experience in the heat treatment of steel, the design of the breaker and the demands placed upon our customers made.







lightly fissured

heavily fissured

lightly fissured

monolithic

monolithic

Moil point

Moil point

Wedge point

Wedge point

Flat rod

Flat rod

Flat rod

stone, graywacke,

Crystalline rock

(magma, greensto-

ne, gabbro, granite

calcareous

sediment)

etc.)

breaking

breaking

Breaking oversizes

Trenching, foundation

work, primary quarry

Breaking oversizes

# FRD SENCI LUBE & OPTIONS

#### Senci Lube

The FRD Central lubrication concept eliminates the regular manual greasing intervals during operation and provides an optimum level of lubrication. This FRD designed automatic lubrication system is directly breaker frame mounted without external hose guiding and provides continuous adjustable greasing of the working tool guiding area. The filling level of the transparent screw cartridge can be easily monitored from the excavator cabin and if required exchanged within minutes.

### Sencio-Rod grease is characterized by:

- High load carrying capacity
- Good corrosion protection
- Good water resistance
- Good separation efficiency
- Wear reduction
- Oxidation resistance





#### Sencio Blue

**Rod grease** is a lithium-complex soap grease based on mineral oil. molybdenum disulphide (MoS2). It has good separation efficiency and reduces wear at high surface loads and temperatures up to 1100 °C



#### Sencio White

**BIO-Rod grease** based on selected, rapidly biodegradable, synthetic esters, which give a very stable lithium saponified grease. Sencio-BIO-Rod grease has been awarded the European Ecolabel, registration no. DE/027/089.



### **ARMOUR PLATES**

Extra protection against wear in trenching and quarry works



### **SWIVELS**

Extending the life of the hoses



#### **TOOLBOX**

All breakers have a toolbox with the necessary tools included.

# **DEALER NETWORK**

### **LOCAL SERVICE AND SUPPORT**

FRD seeks firstly to supply a product of undoubted integrity. Then back this up with a support network of dedicated Distributors to ensure whatever support, wherever and whenever needed. The FRD-Distributor combination has been made unbeatable.

FRD Distributors have been selected for their professional competence, their market coverage, their dedication to quality and their willingness to work. They receive intense training on all machines and systems and every support that a committed manufacturer can give them. They actively exchange experience between each other to ensure their clients get the latest lessons from the market. They are a skilled and fast team of professionals.

## **VALUE FOR MONEY**

Buying FRD products is a smart investment. Top quality for a reasonable price, with long lifetime, with low maintenance and less break-down-time. In the long term this choice makes financially better results.

Next steps? FRD Europe and its Distributors have a vast resource of information beyond what can be mentioned here. Do not hesitate to get in touch for more detail and an unbeatable quote.







Authoriz	ed di	strib	utor:			



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