



# FOLLOW THE LEADERS

EXCAVATION LINE  
FX *series*

**With our passion, always at your service!**  
We Sell Solutions and Innovations for Demolition



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## Skill 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.

Hammer guarantees a 100% Made in Italy product of the highest quality, entirely designed and manufactured in the 7 plants (an area of 30000 m<sup>2</sup>) 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 comes the introduction of the first examples of demolition shears, which paved the way for the demolition and recycling segment; at this point, 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 or diaphragms. It is the turn, then, of the grapple line, with the GR series: 7 models from 145 kg to 2000 kg with 3 different types of jaws, depending on the needs of the operator.

The demolition segment is then widened with the FP series (fixed 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 7 factories of Molfetta, where there are:

- an equipped workshop with 65 high-productivity CNC machines;
- the grinding and testing department in which 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, in which 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 increase the storage area of 1000 m<sup>2</sup>.

Moreover, thanks to the Industry investment plan 4.0, we managed to further optimize the production process.

The search for new solutions and innovation on existing products are the basis of our activity to be present on the market as protagonists and to offer our customers always the best.

# EXCAVATION LINE







EXCAVATION LINE

## FXseries

### Hammer hydraulic breaker

The breakers of the FX series, thanks to their power and efficiency and to the right relationship between weight and power are suitable for secondary demolition work, excavations in quarry, work in urban areas, galleries, pipelines and railway tunnels and, concerning the biggest models, demolitions in open pit mining.

#### Automatic hydraulic greasing device (optional, mounted on the breaker)

The Beka-Lube automatic lubrication system optimizes the lubrication procedure and reduce maintenance and downtimes

#### 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 cartridges

#### Regulation of the operating pressure

For the FX series (FX1300-FX15000) it is possible to regulate the working pressure from 160 bar to 200 bar by a manual adjusting valve located frontally on the distribution of the breaker

#### Blows manual adjustment

For the FX series (FX1300-FX15000), the regulation of the blows is carried out manually by an adjusting valve located on the side of the breaker

#### Anti-dust and for underwater work predisposition

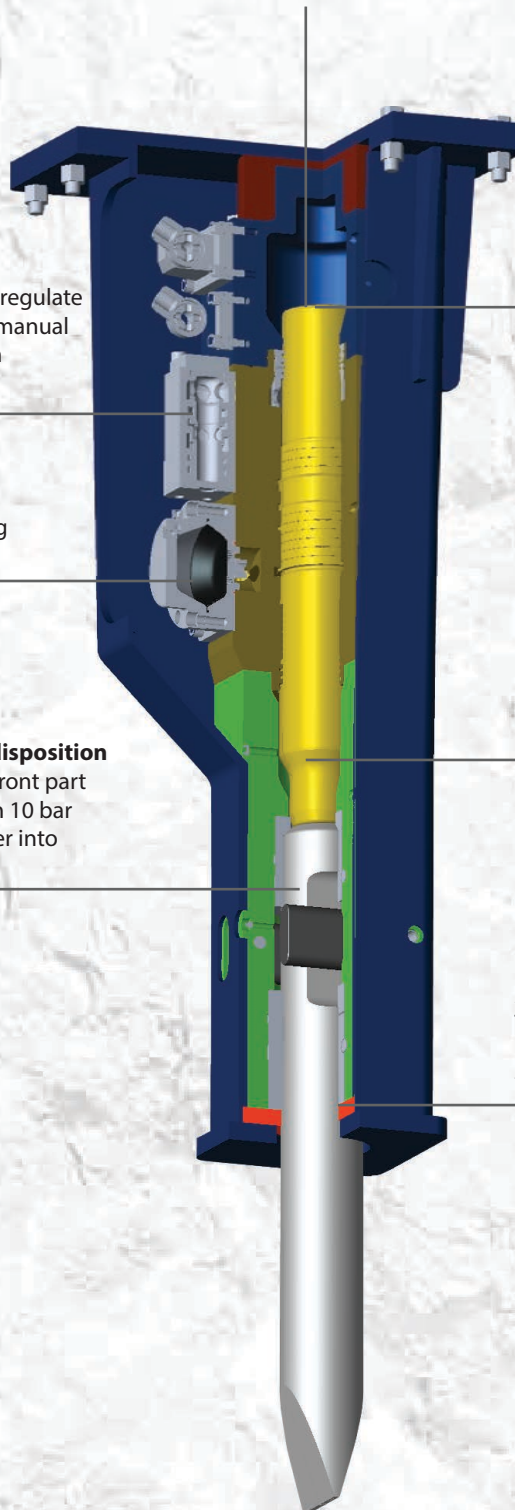
By blowing air into the proper hole in the front part of the breaker with a pressure not less than 10 bar you can prevent the entry of dust and water into the breaker

#### Hydraulic system for blank firing

The hydraulic system is a regenerative circuit of oil that avoids blank firings when the tool is not in contact with the rock

#### Anti-dust system for galleries (optional)

The anti-dust system provides for the addition of a dustproof seal mounted in the lower bush so to avoid the entering of impurities in the circuit





## FXseries

Hammer  
hydraulic breaker



### Moil Point

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



### 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.



### Cobra Tool

Suitable for quarry works such as primary  
demolition and reduction of blocks.





EXCAVATION LINE

## FXseries

### Hammer hydraulic breaker

#### Kit For Gallery

Hammer offers a specific system for heavy-duty gallery work, which allows you to extend the maintenance intervals and thus reduce costs. The kit involves the use of bushes and piston suitable for this kind of working situation. It is also possible to use a spray mist kit for dust abatment, by means of a strong water jet on the tool operation area.

#### Underwater Kit

We offer a kit for the most demanding use of the breaker, i.e. under water.

To avoid the entry of water inside the breaker, our hammers are set up so that they can be installed a kit for underwater work.

#### Automatic greaser lube

It can be mounted on all Hammer breakers.

It greases automatically by using the delivery oil of the breaker.

It provides greater productivity and time savings.

The latest generation of Hammer greasing devices do not require replacing the cartridge, with a high reduction of costs.





FXseries  
Hammer  
hydraulic breaker

DATA SHEET

Complete with:

- N.1 Plate for bracket
- N.2 Tools (chisel, blunt, moilpoint or pydamidal)
- N.1 Nitrogen adapter

Optional:

- N.2 Hoses
- N. Special tools (cobra)
- N.1 Nitrogen bottle 1.5 lt
- N.1 Automatic greaser lube
- N.1 Kit for gallery
- N.1 Underwater kit

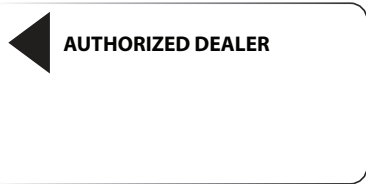


| Model  |       | FX700   | FX1000  | FX1300  | FX1700  | FX2200  | FX2800  | FX3200  |
|--|-------|---------|---------|---------|---------|---------|---------|---------|
| Peso excavatore<br>Carrier weight<br>Poids de l'engin porteur<br>Trägergewicht<br>Peso excavadora  | t     | 8-15    | 12-21   | 14-24   | 20-30   | 23-35   | 28-45   | 30-47   |
| Peso martello<br>Weight<br>Poids<br>Gewicht<br>Peso  | kg    | 700     | 1050    | 1250    | 1700    | 2200    | 2900    | 3200    |
| Altezza con utensile standard<br>Height with standard tool<br>Hauteur avec outil standard<br>Höhe inkl. Standardmeißel<br>Altura con puntero estándar                        | mm    | 1900    | 2050    | 2400    | 2700    | 3000    | 3300    | 3400    |
| Diametro dell'utensile<br>Chisel diameter<br>Diamètre de l'outil<br>Meißeldurchmesser<br>Diámetro del puntero  | mm    | 95      | 115     | 120     | 135     | 150     | 160     | 160     |
| Portata olio rich.<br>Required oil supply<br>Débit d'huile nécessaire<br>Erforderliche Ölmenge<br>Caudal del aceite  | l/min | 70-100  | 135     | 105-140 | 130-160 | 165-190 | 180-240 | 200-260 |
| Pressione dell'olio regolata al martello<br>Oil pressure adjusted to the hammer<br>Pression de l'huile vers le marteau<br>Betriebsdruck<br>Presión del aceite en el martillo | bar   | 160     | 165     | 170     | 180     | 180     | 180     | 180     |
| Numero dei colpi / min.<br>Blows per minute<br>Coups par minute<br>Schlagzahl / Min.<br>Número de golpes/min.  | /min  | 600-900 | 600-900 | 400-900 | 400-800 | 400-800 | 350-700 | 300-650 |
| Energia del colpo<br>Energy per blow<br>Energie par coup<br>Schlagzahl/<br>Energia del golpe   | J     | 2000    | 3000    | 3200    | 4200    | 5400    | 8500    | 9000    |
| Contropressione max<br>Max. back pressure<br>Contre-pression maxi<br>Max. Gegendruck<br>Contrapresión max.   | bar   | 25      | 25      | 25      | 25      | 25      | 25      | 25      |
| Diametro tubo entrata<br>Inner diam. IN hose<br>Diam. intérieur tuyau H.P.<br>Innendurchm. Hammervorlauf<br>Diám. interior manguera presión                                  | inch  | 3/4"    | 1"      | 1"      | 1"      | 1"      | 1" 1/4  | 1" 1/4  |
| Diametro tubo uscita<br>Inner diam. OUT hose<br>Diam. intérieur tuyau B.P.<br>Innendurchm. Hammerrücklauf<br>Diám. interior manguera retorno                                 | inch  | 3/4"    | 1"      | 1"      | 1"      | 1" 1/4  | 1" 1/4  | 1" 1/4  |









# FOLLOW THE LEADERS

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APPLICATIONS



  
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Specifications are subject to change without notice.