Crusher Buckets for Demolition and Recycling from MB Meccanica Breganzese

The four models of BF Crusher Buckets produced by MB Meccanica Breganzese are easy to attach, use and are very versatile. The bucket crusher cuts production costs by removing the hire and transport of machines and by reducing or eliminating dumping of materials, which is very beneficial in the area of recycling. Released to the market over seven years ago, these crusher buckets have introduced a new way of crushing, their extraordinary flexibility of use has widened the boundaries of the recycling culture enormously.

One of the first models of hydraulic equipment fitted with a jaw crusher to be used with an excavator, was the BF 90.3 bucket/ crusher from Meccanica Breganzese. *"Recycling debris and crushing right on site are more and more requirements that cannot be disregarded by companies, both big and small, working in the construction, demolition and building sector as well as in earthmoving in general,"* says Guido Azzolin, General Manager of Meccanica Breganzese. *"These days, our product is increasingly more common; it is no longer considered niche or specialised equipment, it is becoming standard equipment for any construction company"*.

MB Meccanica Breganzese has its headquarters in the province of Vicenza, in Breganze (Italy), where the company's name comes from and it has designed and manufactured four different models of bucket crushers for various applications and work categories. The application areas of this technology are wide ranging and include demolition, road construction, excavation plus special applications, such as the breaking up of vineyard soil and the crushing of quarry rocks and other materials, environmental remediation.

The features that have contributed to the success of these crushers include: versatility of use, the capability for on site crushing in any situation where a tracked excavator can go and finally, but perhaps most importantly, the cost reductions that they offer. Thanks to their high production capacity (the average model achieves an hourly production of 18/40m³), the bucket crushers can be used in large, small and medium sites, doing away totally with the hire and transport costs of machines fitted with a crusher.

The bucket crusher works together with a tracked excavator, that is commonly available on any construction site. The transport costs of the bucket crusher are negligible, as it is moved like any attachment or digging bucket. The bucket crusher reduces and often eliminates the costs for the disposal of demolition materials.

Market research into the use of these crusher buckets by Meccanica Breganzeses' customers, show that all companies currently using them consider them to be useful and economical for both large and small jobs. The ease of transport and very low costs make these crushers practical for crushing even small quantities.

One of MB Meccanica Breganzeses' customers said, *"The crusher bucket solves all of our problems,"* the client explained that their BF 90.3 bucket crusher is used both for on site recycling, in the demolition and digging yards and in the two quarries the company owns. The technology of jaw crushing makes it particularly suitable for any application.

In the area of recycling, the equipment is irreplaceable because of its versatility, ease of transport and agility that allows it to reach any corner and crush directly in the body of a truck, avoiding the necessity to stockpile, move and load the material with the loader. In recycling sites, material selection is made manually as well as with the use of machines equipped with a magnetic metal separator. These machines pick out only iron while the different materials contained in the rubble like wood, plastic and copper must still be separated manually.

They visited the recycling site of their client, where demolition rubble from multiple sites together with excavation material and materials from natural rock quarries, are brought here for processing. The use of the bucket crusher has made the complete recovery of demolition material possible. For instance, this material, which was once taken to dumps, is extremely valuable in the road sector.

In the Quarry and in the yard, the sizes the company prefers to use are two: 0-7cm for surface layers and 8-15cm used as a drainage layer for the road bed. One of the features the customer particularly appreciates is the machine's superb autonomy that needs no other equipment to work in recycling sites. The client explains that in a quarry it is coupled with a separating screen because sizes must be divided.

The flexibility and autonomy of the bucket crusher are particularly appreciated in 'difficult' yards, as on historical sites where only tracked excavators and very nimble machines can access the area. The company demolished one whole bridge span along a river and the material was crushed on site using the crusher buckets. The equipment was used in conjunction with a 280 Quintal Tracked Excavator, in this case a 325 LN Caterpillar. Thanks to its 3m in width, the slightly oversized machine guaranteed the stability needed to carry out the crushing.

The customer said that, *"It is an incredible tool as a crusher, without comparison, it solves a lot of our problems. I use it in recycling and also in the quarry and it is so easy to move! I was sure about the purchase the moment I saw it working!"*

MB Meccanica Breganzese has designed four models of bucket crushers that are already available on the market. After the success of the BF 90.3 model and in order to meet the requirements of a wide customer base, three more models have been designed: The BF 60.1, BF 70.2 and BF 120.4, respectively smaller, medium and larger than the original version.

Crushing Without Limits

BF 60.1:
The machine weighs 1,500kg and is recommended for excavators weighing 8-12 tons. Crushing is achieved by a jaw and the mouth aperture measures 60x45cm (width x height). The bucket's capacity is 0.50 m³. The size of the crushed material can be adjusted between 2 -10 cm. Hourly production is between 9.1 and 19.8 m³, calculated on the basis of medium-toughness material in optimum conditions.

BF 70.2:
The machine weighs 2,250kg and is recommended for excavators weighing from 12 - 20 tons. Crushing is achieved by a jaw and the mouth aperture measures 70x55cm (width x height). The bucket's capacity is 0.60 m³. The size of the crushed material can be adjusted between 2 -12cm. Hourly production is between 12 and 30 m³, calculated on the basis of medium-toughness material in optimum conditions.

BF 90.3:
The machine weighs 3,500kg and is recommended for excavators weighing 20 - 28 tons. Crushing is achieved by a jaw and the mouth aperture measures 90 x45cm (width x height). The bucket's capacity is 0.75 m³. The size of the crushed material can be adjusted between 2 -12cm. Hourly production is between 18 and 40 m³, calculated on the basis of medium-toughness material in optimum conditions.

BF 120.4:
The machine weighs 4,900kg and is recommended for excavators weighing 28 tons and up.. Crushing is achieved by a jaw and the mouth aperture measures 120x45cm (width x height). The bucket's capacity is 1m³. The size of the crushed material can be adjusted between 2 -12cm. Hourly production is between 25 and 50 m³, calculated on the basis of medium-toughness material in optimum conditions.

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