



ITALIAN CRUSHER BUCKETS MAKE ON SITE RECYCLING FEASIBLE

More than seven years ago, MB Meccanica Breganzese, introduced a new way of crushing: its crusher buckets' flexibility widened the boundaries of the recycling culture, the company says.

The first model was the BF 90.3 bucket/crusher. Now the company makes four models following the success of the 90.3. Market research with customers, showed that all operators currently using them, consider them useful and economical for both large and small jobs. Ease of transport and inexistent usage costs, make them practical for crushing even small quantities, many customers said.

"The crusher bucket solves all our problems," one of MB's customers said. He explained that their BF 90.3 was used for on site recycling, in demolition and digging yards and in two quarries the company owns.

In the area of recycling, the agility of a MB crusher bucket-fitted excavator, allows it to reach any corner and crush directly into the body of a truck.

This avoids the necessity to stockpile and the need for a wheel loader. On one MB customer site, demolition rubble from multiple sites, together with excavation material and materials from natural rock quarries, are brought together for processing and the use of the bucket crusher has made complete recovery of demolition material possible. For instance this material, once dumped, is now extremely valuable in the road sector.

In the quarry and yard, the sizes the company prefers to use are 0 to 70mm for surface layers and 80 to 150mm for used as a drainage layer in road subgrade. One of the features the customer particularly

appreciates is the machine's autonomy in that it needs no support equipment, although the client explained that in a quarry, it is coupled with a separating screen because sizes must be divided.

The flexibility and autonomy of the MB bucket crusher are particularly appreciated on difficult jobs such as historically significant sites. The company demolished one whole bridge span and crushed the material on site using a Caterpillar 325 LN excavator and a MB CRUSHER, Meccanica Breganzese crusher bucket. Thanks to its 3m width, the slightly oversized machine guaranteed the stability needed to carry out the crushing.

The customer said, "It is an incredible tool as a crusher. It is without comparison and 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 general manager Guido Azzolin said, "Recycling debris and crushing right on site, are more and more requirements that cannot be disregarded. These days our product is increasingly more common - it is no longer considered

niche or specialised - as standard equipment for many construction companies."

MB, Meccanica Breganzese has its headquarters in the province of Vicenza, in Breganze, near Venice, Italy, where the company's name comes from, and it has designed and manufactured four models for various applications and work categories. Applications include demolition, road construction, excavation, breaking up compacted soils, crushing quarry rock environmental remediation, vineyard deep plowing.

Crusher Buckets for Demolition and Recycling

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 recy-



cling 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 Breganzese's 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 Breganzese's

customer 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. 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. Only tracked excavators and very nimble machines could access the area along the river. The company demolished one whole bridge span 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!" ■

CRUSHING WITHOUT LIMITS

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 BF60.1, BF 70.2 and BF 120.4, respectively smaller, medium and larger than the original version.

BF60.1:

The machine weighs 1500 kg and is recommended for excavators weighting from 8 to 14 tons.

Crushing is achieved by a jaw and the mouth aperture measures 60x45. The buckets capacity is 0.50 m³. The size of the crushed material can be adjusted between 2-10 cm. hourly production is between 9.1-19.8 m³, calculated on the basis of medium-toughness material in optimum conditions.

BF 70.2:

The machine weighs 2250 kg and is recommended for excavators weighing from 14 to 20 tons. Crushing is achieved by a jaw and the mouth aperture measures 70x55 cm (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-tou

BF 90.3:

The machine weighs 3,500 kg and is recommended for excavators weighing from 20 to 28 tons. Crushing is achieved by a jaw and the mouth aperture measures 90x45 cm (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 4,900 kg and is recommended for excavators weighing 28 and up tons. Crushing is achieved by a jaw and the mouth aperture measures 120x45 cm (width x height). The bucket's capacity is 1 m³. 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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