

ITALIAN CRUSH

MB CRUSHER BRINGS BUCKETLOADS OF COST-EFFECTIVE SOLUTIONS TO THE MOBILE CRUSHING AND SCREENING SECTOR WITH ITS UNIQUE AND INNOVATIVE CRUSHING BUCKETS AND SCREENERS

It's a sizzling 50 degrees Celsius in the small Saudi village of Al Kharj. At a bare and dusty quarry in this area south of the capital Riyadh, you'd be forgiven for mistaking the harsh and baking landscape as the surface of an alien, hostile planet. However, despite the conditions, the Lime & Sandlime Bricks company has to go about recovering inert material from the quarry to be reused for the construction of the new subway in Riyadh. And helping them do that tirelessly in the extreme conditions are MB Crusher's BF135.8 crusher bucket and the MB-S18 screening bucket.

As the two of these marvels of mobile crushing and screening go about lifting up limestone rocks, gravel, stones and even some small boulders into their cauldron-like cavity and then proceed to grind, pulverise, churn and screen them into fine, construction-grade material, the toughness and tenacity of the innovative products are clear and apparent.

While the BF135.8 is designed for excavators weighing over 43t, the MB-S18 screening bucket is suitable for excavators of 20-35t. In fact, MB manufactures its largest models to satisfy the needs of operators in the quarry sector, where the performance of hourly production yields and of resistance over time are necessary. MB's patented system allows achieving the expected manufacturing targets and a strong reduction in consumption costs, even with particularly sturdy materials – all valid reasons why the company's products were chosen for this project and also why MB Crushers are common sights in quarries and job sites in the entire Middle East and GCC region.

But cut to Fara Vicentino near Venice, Italy, the home of MB Crusher. The salubrious climate of the place where the crushers and screeners are made may be a far cry from the oppressive conditions of the Saudi desert where the machines are ably proving themselves, but it is here



As a pioneer of the mobile crushing bucket concept, MB Crusher has expanded its portfolio to include crushers and screeners of various capacities.



that their legendary toughness is imprinted in their DNA.

For more than 15 years, MB Crusher has been supplying the world with its unique mobile crushing and screening equipment, which may have spawned many an imitation but, as the company points out, never anything close to the original.

Ever since it gave the world its first jaw bucket crusher in 2001, there has been no looking back for the company. MB offers the largest line of patented crusher buckets all over the world. It all started when the Azzolin family, with more than 60 years of experience in crushing for the excavation, road work, quarrying and demolition sectors, decided to think out of the box. Not satisfied with the traditional crusher concept, they wanted to replace it with a version that had built in flexibility and the mobility of an accessory, yet being applicable to excavators and returning the performance of a larger machine. This vision resulted in the first crushing bucket with a worldwide patent.

Today the company is established globally through seven international subsidiaries and has logistics centres located in various countries around the world along with an extensive network of authorised dealers and service support worldwide - including in the Middle East. Yet it stands true to its core values of innovation and excellence and prides itself on making products that are of the highest "Made in Italy" quality, a fact which Najmeddine Sahraoui, regional manager for the Middle East region at MB Crusher, is proud of.

"MB buckets crushers are the only ones in the world that do not need drainage and they also ensure higher productivity compared to the countless imitations of our original unit," he says. "In fact, MB's crushing power exceeds 110m³/hour thanks to our exclusive power enhancer, which allows the bucket to crush the hardest and most tenacious materials such as basalt and granite. This ensures a finished product with the lowest price in the market and in compliance with the high quality standards required for waste material reuse."

Sahraoui adds that MB buckets have proven themselves to be the most effective as well as eco-friendly tools in demolitions, recycling, excavations, road works, quarries, mines and environmental remediation.

"MB Crusher buckets are made for crushing, screening, dividing and reusing inert material directly on site and we are the only manufacturer in the world able to offer a complete range of 18 crushers. These include crushers and screeners for excavators, loaders, skid-steer loaders and backhoes from 2.8 to 70-plus tons all backed up with our industry

leading 24-month warranty."

Speaking to CMME about his company's presence in the Middle East, he adds: "The quarrying sector here may be less active than before, but the Middle East market is a very dynamic one that's growing at a high speed. There are many projects for the future where our machines can make a difference. So we're sure there will be a lot of applications for MB products, both in the public and the private sector. Also, the infrastructure industry has one of the biggest potential for growth and opportunities for investment, and we think that this would have a significant impact on our crushing and screening equipment."

Elaborating about the demand in the region, he says: "Many of our customers are using the BF90.3 (for excavators from 21t) and the BF120.4 (for excavator from 30t) crusher buckets. But we also have customers using our bigger models - the BF135.8 and the BF150.10, which is the biggest crusher bucket in the world, for excavator weighting up 70t. These models are very efficient in quarry locations, that have often huge extensions and where big machines work. But also for big projects of road constructions and pipelines."

Among the bigger jobs in the region that MB's equipment is involved in is a limestone quarry in Lebanon's Kfardebyan area in the Mount Lebanon region. The customer is



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using MB's BF90.3 crusher bucket to crush limestone from excavation to recycle and sell it as aggregate for buildings.

In Saudi, the BF90.3 crusher bucket is crushing excavated coral rocks to 2cm for reuse in sanitation backfills. Also in Saudi, three MB products - the MB-R900 drum cutter, the BF135.8 crusher bucket and the MB-S23 screening bucket - are working in a quarry to recycle very hard granite material for reuse in road construction.

"MB's crushers and screeners are particularly suitable in road works," Sahraoui says. "Applicable to any kind of excavator, loader, skid-steer and backhoe loader, they crush and select the material in order to reuse it directly on site as road base, drainage filling, trench filling. Thanks to the jaw adjustments, they allow self-production of stabiliser materials for pavements and sub-

bases, according to client's needs. Moreover, they bring considerable savings by reducing or even eliminating transportation costs, as you need just one operating machine to function. With less machinery on site the environment is also safeguarded."

MB Crusher is the inventor of the crusher bucket and offers the widest range of crusher buckets, available for all operating machines, from excavators and loaders to backhoes and skid-steers. Sahraoui notes that the company holds a series of certifications, including UNI EN ISO 9001:2008, CE, TUV, GOST and RINA for its welding processes, and uses Hardox-certified materials in its manufacturing to offer products that have a clear edge in the market.

"MB Crusher's focus on innovation is proven by the number of awards that we have won over the years, including the 1° Grand Prix at the 2007 International Exhibition of Inventions

in Geneva. With our experience we use a AAA+ type hydraulic system. MB buckets, in fact, are the only ones to have a low hydraulic demand both in terms of the need for pressure and hydraulic flow rate," he points out.

"Also, the AAA+ plumbing series allows substantial hydraulic cooling during the work steps, thus lengthening excavator life. The extreme compactness and low centre of gravity improves balance and drastically reduces strain on the excavator arm, eliminating impact and vibration. This results in high productivity and quality in terms of homogeneity of the crushed products in all construction sites."

With its consistently high quality and constant innovation, MB products represent the best solution for several growing sectors where productivity, performance, cost-efficiency and durability are all essential. ●

BF90.3 S4 CRUSHER BUCKET

ORIGINAL BUCKET REACHES FOURTH GENERATION

According to MB Crusher, its flagship model, the BF90.3, is the first crusher bucket ever in the world. Designed to resist the most challenging conditions on any site, the BF90.3 is extremely compact and versatile.

Periodically updated and made more powerful over the years, it is suitable for all crushing operations, even the most challenging, and maintains the same results in terms of performance with all types of material.

But now, the Italian company says, a good thing has gotten even better with the introduction of the BF90.3 S4 - a more powerful and updated version of the company's flagship, exactly one year on from the last update.

Productivity has been increased, thanks to a functional restyling of the internal structure of the machine, which allows for an increase in performance and strength. Reliability has also been improved in terms of stability and working precision, and a reduction has

been effected simultaneously in the standard maintenance time thanks to an integrated centralised greasing system.

Also, thanks to higher levels of power and the strengthening of parts and sections subject to the most stress and wear, the updated model offers increased resistance and performance, even in the most extreme operational conditions.

MB says its R&D department has taken into consideration the suggestions of its clients, who use the equipment in the widest range of applications. Studying their experiences and learning from them has provided the company many solutions and performance enhancement methods that benefit the equipment's application on job sites.

As Diego Azzolin, MB's head of production, says: "Revolution and innovation are not static factors, but instead present a continuous challenge for improvement." And with the BF90.3 S4, MB claims to have risen to that challenge.



MB-LS220

A REVOLUTION IN SCREENING

The world premiere of the latest MB model, the new screening bucket MB-LS220, took place at Bauma 2016, ushering in what MB calls not just a screening bucket, but a screening concept evolution.

Designed specifically for owners of loaders and backhoe loaders from 12 to 35t, who need to select waste material but until now had no option available to them on the market, the new MB-LS220 now allows them great flexibility to use their existing machines for new tasks.

The MB-LS220 allows optimisation of loaders and backhoe loaders, transforming them in a few minutes into an efficient mobile screening plant, able to process debris in all the process phases. As it does not need to operate over the pile of material, which is often the case with other excavator screeners, the MB-LS220

can be used to facilitate and speed up the processing of the material on different sides of the same construction site.

This screening bucket has many applications and can be used in any type of process for separation of waste or natural materials, being capable of sifting through material of various sizes. For example, it can be used in drainage jobs to obtain an end product that can act as protection for underground pipelines.

"As per tradition, MB always tries to offer customers innovative solutions that allow them to work in the best conditions, optimising the customer's fleet with this new screening bucket. Constant research and attention to customer needs put MB in a position to offer the most powerful and comprehensive range ever," says the company.



The MB-LS 220 is the latest and largest in MB's LS series of mobile screening buckets. The series has two more models, the smaller of which is the MB-LS 140, suitable for skid steer loaders and backhoe loaders from 2.6t, and the MB-LS 170, which is designed for skid steer loaders and backhoe loaders from 6.5 to 11t.

All MB screening buckets are equipped with interchangeable modular panels to allow a rapid change of grid size. The unique and innovative conical basket shape is designed to significantly increase the hourly production performance and to sift all the material scooped, with no residue.