

Our whole experience for you

SBM Mineral Processing

For more than 70 years we at SBM Mineral Processing have been developing and building machines and plants for the stone and earth industry. In addition to stationary plants, we delivered mobile plants to process aggregates for the concrete technology already at an early stage. Today, we are one of the leading manufacturers of track-mounted processing plants with **SBM MOBILE CRUSHING & SCREENING SOLUTIONS**.

We are true pioneers in the development of diesel-electric drive systems for all power classes, which we have been building for over 60 years. All our plants are „hybrid electrified“ today - thanks to extensive standardisation, they convince in natural stone and recycling operations with their outstanding production performance at low operating costs, maximum availability, and simple and safe operation.

With a qualified, cross-industry dealer and service network in all leading markets of the world, we ensure the sustainable and economic success of our customers.

HYBRID
ELECTRIFIED

SBM
MINERAL PROCESSING

1950

1980

First mobile track-mounted crushing plant HYBRID ELECTRIFIED

2016

New product line "SBM Mobile"

1960

First mobile crushing plant on wheels HYBRID ELECTRIFIED

2014

Consolidation MFL and SBM Mineral Processing



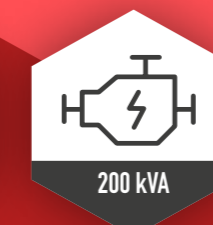
JAWMAX
450X

SBM
MINERAL PROCESSING

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JAWMAX450_ENG/10_2022



Texts and illustrations in this brochure may deal with or show additional equipment.
All technical information has been carefully prepared but is provided without warranty.
We reserve the right to change specifications or designs without prior notice.

MAXimise your results!

Mobile mineral processing technology made by SBM – advantages right down the line

SBM is pursuing a simple goal with its track-mobile processing plants: We offer the technically and economically leading solution in every power class. Efficient full-hybrid drives, best-in-class crushing

performance, productive screening and conveying equipment - all packaged in highly mobile plant technology with exemplary ease of operation.

DRIVE WITH A FUTURE

Constantly rising fuel costs, stricter environmental regulations, high burdens due to maintenance and repair:

It has never made more sense to change to intelligent hybrid technology in mobile processing!



CRUSHING TECHNOLOGY

SBM crushers combine maximum feed size and high throughput with precisely defined product quality: **Benefit from our decades of experience in all areas of crushing technology.**

PERFORMANCE WITHOUT COMPROMISE

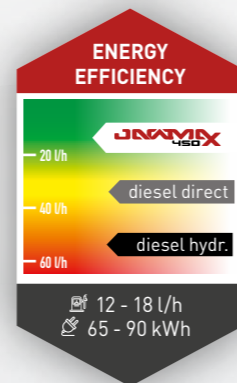
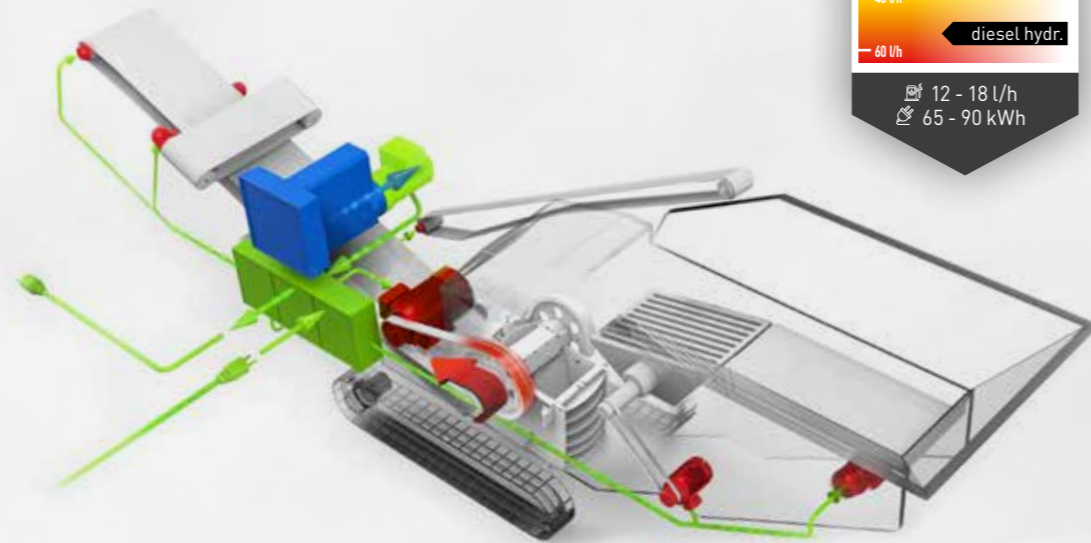
Optimum transfer, high throughput of the standard pre-screening and optional secondary screening unit and large stockpile volumes of the product conveyor belts ensure **full productivity and added value in operation.**

MORE MAN MORE MACHINE

Our constantly further developed control system **CRUSH CONTROL** actively supports your staff in all work steps and **optimises your processes in operation and maintenance.**

Hybrid Pioneers - since 1980

Benefit from the most sophisticated drive system in the market!



DRIVE SYSTEM JAWMAX 450

Motor	CUMMINS B6.7*
Operating speed	2-stage
Tank capacity Diesel/AdBlue	300 l / 38 l
Generator	200 kVA
Electric motor crusher	110 kW (up to 165 kW peak)
Plug-in grid connection (opt.)	400 V, 200 kVA; 50 - 60 hz
Plug-out power supply	400 V, 16A

* comply with the current emission regulations

Only SBM consistently relies on the advantages of the **purely electrical drive of conveying, crushing and screening components** in mobile crushing plants of all power classes.

In **independent diesel operation**, a motor/generator unit supplies the energy at low, constant speeds: **low-emission, quiet and extremely economical.**

All electric drives with their cable and plug-in connections are **practically maintenance-free**, do not cause any thermal or stand-by losses and decisively reduce environmental risks due to large hydraulic oil volumes.

In **optional mains operation**, you simply flip a switch, and everything about the plant works as usual - **only without diesel.**

JAWMAX 450: Simply tougher in the face

More power for more tasks

HARD FACTS

Inlet opening	1.100 x 700 mm
Feed size (max. diagonal space)	0 - 800 mm (up to 700 kg per single piece)*
Feed capacity	max. 450 t/h*
Final grain size	0 - 90 to 0 - 200 mm

* Depending on feed material, feed size and desired final grain size

Large, sturdy feed area, extra-variable two-deck screen and the powerful, very flexibly adjustable 1100 jaw crusher made by SBM:

JAWMAX 450 is consistently trimmed for the highest production output for every material. Whether as an all-rounder for extremely heterogeneous construction debris or as a powerful primary crusher for hard rock - JAWMAX 450 convinces with easy and simple feeding at continuously high output and premium-quality intermediate or final products.

<p>USE natural sandstone, sand & gravel</p> <p>LIMESTONE 0/800 to 0/200</p> <p>Product performance: 450 t/h Diesel consumption: 18 l/h Crushing jaws: MNMO</p>	<p>USE natural sandstone, sand & gravel</p> <p>RIVER GRAVEL 0/400 to 0/90</p> <p>Product performance: 210 t/h Diesel consumption: 16 l/h Crushing jaws: MN</p>	<p>USE construction debris & recycling</p> <p>CONCRETE & BRICK 0/500 to 0/90</p> <p>Product performance: 230 t/h Diesel consumption: 16 l/h Crushing jaws: MNMO</p>	<p>USE construction debris & recycling</p> <p>ASPHALT SLABS to 0/90</p> <p>Product performance: 220 t/h Diesel consumption: 17 l/h Crushing jaws: MNMO</p>
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Compact high performance - anytime, anywhere

Easy transport - minimum setup times - shorter routes on site

As a „real 40-t truck“ with specifically optimised transport dimensions and minimal feed and set-up requirements, the JAWMAX 450 effectively rationalises your construction site operations. Even inexperienced operators can make the system ready for operation in minutes - without additional tools, supported by the plant control, and safely from the ground.

Large angles of driving slope, the heavy-duty two-stage chain drive and the structurally optimised, extremely robust plant design make setting up or relocating the crusher amazingly easy even in difficult terrain.

We bring high performance to your construction site - and it's quick, safe, and easy!



TRANSPORT DIMENSIONS	LENGTH	WIDTH	HEIGHT	WEIGHT*
in transport	14.700 mm	2.880 mm	3.600 mm	40.400 kg
in use	16.400 mm	5.700 mm	4.200 mm	40.400 kg

*total weight including all options

BENDING ZONE

- sturdy deflector plate to protect the discharge belt
- reduction of blockages in recycling applications



FREQUENCY-CONTROLLED CIRCULAR VIBRATORY SCREEN

- width: 1.000 mm
- wear lining highly wear-resistant steel construction
- automatic control of the feeding speed according to crusher load

7,0 m³ FEED HOPPER

- highly wear-resistant steel construction
- three-sided, folding walls

ACTIVE PRE-SCREENING

- 2-deck circular vibratory screen
- width: 1.000 mm x length: 2.000 mm
- separate/complete discharge/bypass of the screen fractions via manual 3-way-flap

CRUSHER DISCHARGE CONVEYOR

- Rip-Stop
- discharge height: 4.000 mm
- stockpile capacity up to 190 t
- hydraulic folding for transport
- hydraulic lowering for inspection

MAGNETIC SEPARATOR

- permanent or electromagnet (optional)
- hydraulic height adjustable

PRE-SCREENING CONVEYOR

- discharge height: 3.000 mm
- stockpile capacity up to 110 t
- hydraulic folding for transport

DRIVE FRAME AND TRACK RUNNING GEAR

- reinforced and weight-optimised frame structure
- track running gear integrated in the frame
- proportional drive
- speed: max. 1.25 km/h
- climbing ability: 27 %

HYBRID ELECTRIFIED

OPTIONS

- belt roll scale for the discharge belts
- LED plant lighting
- mains/generator election system (Plug-In)
- refuelling pump



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Versatile, powerful and safe

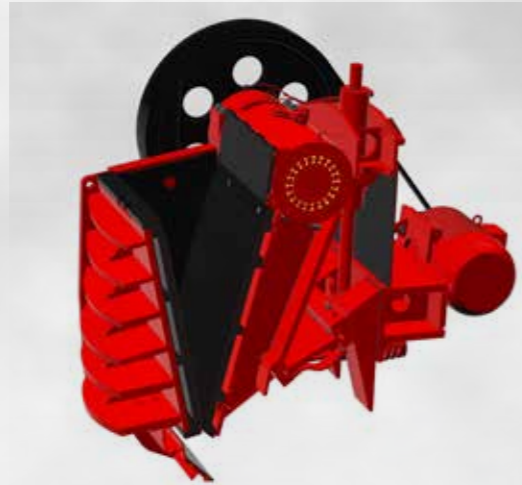
All our knowledge for your tasks

Especially developed for mobile applications the new single-toggle jaw crusher STE 110-70 is integrated as a supporting element into the frame of JAWMAX 450. And this optimises structural stability, reduces vibrations, and significantly prolongs the working life of the whole plant. Due

to its large feed opening and stroke (34 mm) the crusher is very versatile and can easily be fine-tuned under load without any problems. Various sensors, automatic foreign matter detection, and overload protection optimise continuous production without downtime.

HOUSING

- welded and annealed steel structure
- FEM-optimised due to integration in the frame
- optimised inlet geometry to ensure maximum material feed
- maintenance-free mechanical inlet flap
- simple change of lateral wear parts



CRUSHING JAWS

- high-strength and robust manganese cast crushing jaws
- simple and quick changing of crushing jaws
- turnable crushing jaws (180°) ensure optimum utilisation and reduced stockkeeping

DRIVE

- electric motor 110 kW (peak load up to 165 kW)
- 2 rotation speeds 290-320 min-1
- belt drive with tensioner
- reversion of rotation possible

CRUSHER

- level sensor for crusher chamber
- automatic gap opening for overloads
- crusher drive forwards / backwards turning
- simple crusher gap adjustment (40 – 160 mm) under load
- application up to 400 MPa crushing strength
- foreign matter detection plus 3-stage safety system
- crusher start-up with full feed opening
- automatic lubrication unit for wedge system

SAFETY

- crusher inlet cover
- simple removal of blockages
- protection system for crusher discharge conveyor

Always the right tools

Original crushing jaws made by SBM get the best from your crusher

Only crushing jaws in OEM quality ensure the full performance of your SBM crusher and prevent uncontrollable wear. Precisely matched to the crushing characteristics of our technology, our originals simply deliver more, longer, and more economically.



This illustration helps you to choose the optimum impact bars for normal crushing operations. For special applications, please contact your SBM partner.

Everything under „CRUSH CONTROL“

Up-to-date support in operation and maintenance

Intuitive operability, fast reactions if necessary and significantly reduced workload of machine operators, technicians or dispatchers are the advantages of our control system CRUSH CONTROL with mobile radio-based app solution.

INTUITIVE & SAFE

- simple plant start/stop via classic push buttons
- operator guidance and status display via 10-inch colour display
- quick adjustment of performance parameters via touch screen

OPTIMISED PRODUCTIVITY

- continuous monitoring of all plant functions
- load-dependent crusher feeding via frequency-controlled feed chute
- comfortable and safe one-man operation of the complete plant via multifunctional remote control from excavator/loader

ALWAYS INFORMED

- current location and machine data via **personalised app solution**
- accessible at any time and from everywhere via the internet
- individually configurable information on operating data, production output (opt.) and maintenance status of your plant

QUICK SUPPORT

- authorised remote access to machine functions by SBM technicians or SBM customer service
- fast troubleshooting or process optimisation without on-site intervention

THE COMFORT PLUS IN SERIES

- 10 integrated functions
- complete plant operation
- proportional drive control
- radio link monitoring with emergency shutdown



Find here the access to our app.

The professionals at your side

Comprehensive dealer support for all industries

We are continuously expanding our international dealer network with strong and experienced sales and service partners. Together with our product specialists, they will find the right solution for you and accompany you throughout the whole life of the plant.

Find your SBM partner in your region here

CUSTOMER SERVICE AND SALES

The trained customer consultants of our trade partners will support you in selecting the track-mobile crushing plants best-suited for YOU with the corresponding equipment. They will provide you with information and forecasts on production output as well as investment costs, making your investment transparent and secure in the medium- and long-term range.



PARTS LOGISTICS

SBM partners provide professional back-up in the quick supply of spare and wear parts, thus ensuring full availability of your key machines.

The WEB shop simplifies your orders.

QUALIFICATION

From machine handover to regular training for your employees - our partners offer a wide range of services for every industry.

MAINTENANCE & SERVICE

Whether it is scheduled regular maintenance, a large all-round service or rapid intervention on the construction site - our partners are ready to help: competent, well-prepared and dependable.