



Aggregate Production Technologies

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ECOLOGICAL AGGREGATE PLANTS



CHALLENGER

- Energy saving
- Environmentally friendly
- High asphalt / concrete quality
- Capacity 250 - 450 t/h



MEGATON

- Can feed asphalt, concrete batch and cold mix plant simultaneously
- Environmentally friendly
- 3000 ton storage capacity
- 10.000 ton/day production capacity

VERTICAL IMPACT SHAFT (VSI) CRUSHER

- Special wear resistant hard alloys are used
- Enclose or open rotor according to aggregate type
- Up to 500 ton/hour capacity



COLD MIX PLANT

- Fast and easy installation
- Economical price
- Frequency controlled aggregate feeders
- Up to 500 ton/hour capacity





50% energy saving

Vertical Impact Shaft Crusher

According to aggregate type, different types of crushers can be used.



Filter

Micronized dust resulting from stone crushing and sieving in E-MAK Challenger system is collected and stocked by the asphalt plant's filter. Then it is used as filler material in asphalt production process and preventing pollution instead of scattering in the air.

Asphalt Plant



MEGATON AGGREGATE FACTORY

MEGATON is an advanced environmentally friendly, having recycling system, energy saving and working 24 hours/day aggregate preparation, stockpiling and feeding system, which can feed asphalt, concrete batch and cold mix plants simultaneously. For this reason, to have these superior specifications compared to similar systems, it passes through quietly hard and detailed design, verification and test works.

In Asphalt Production

Automatic feeding of asphalt plant with suitable aggregates for all types of asphalt without using loader and trucks.

In Concrete Production

Automatic feeding of concrete batch plant with suitable aggregates for all types of concrete without using loader and trucks.

In Cold Mix (Mechanical Stabilization) Production

Automatic feeding of cold mix plant with suitable aggregates for all types of cold mix without using loader and trucks.

In Aggregate Production

Pneumatic discharge lids for direct truck loading with any type and size of aggregate

- A system that continuously living, producing and able to feed.
- A system that contains aggregate recycling system.
- Instantly resizable volumes for each different size of aggregate, modular structure.
- Dust scattering which is the main problem in similar systems is minimized thanks to the filtering mechanism.
- Optimum aggregate flow rate achieved with the developed sieving system.
- Sieving capacity is increased 25% compared to existing systems.



Simultaneous asphalt, concrete and cold mix plants feeding feature



3000 ton aggregate stockpiling capacity



VERTICAL IMPACT SHAFT CRUSHER

- Enclosed or opened rotor according to aggregate type
- Desired aggregate gradation for asphalt, concrete and cold mix
- Cubic aggregate production that increase asphalt quality
- Hydraulic cover to provide easy maintenance
- Automatic lubrication system
- Wear resistant special alloy hammers and anvils
- Using invertor giving ability to work with desired rpm



Wear resistant special and hard alloy



Up to 500 t/h capacity





COLD MIX (MECHANICAL STABILIZATION) PLANT

- Cold mix plant is operated automatically as well as manual operation when required.
- Cold aggregate silos feeders are driven by speed controlled electrical motors to adjust feeding flow rate.
- Feeders speed can be adjusted from the command cabin during production process by the operator.
- Belts are 4 layers cord fabric and 1000 mm width. Conveyor belts are driven by at least 11 kW powered motor gearbox group.
- Mixer inner walls are covered by wear resistant, replaceable steel casting (Ni Hard 4) linings
- Mixer arms are made of steel casting and designed not to leave any un-swept area inside during mixing process.
- An automatic control automation system.



Frequency controlled aggregate feeders



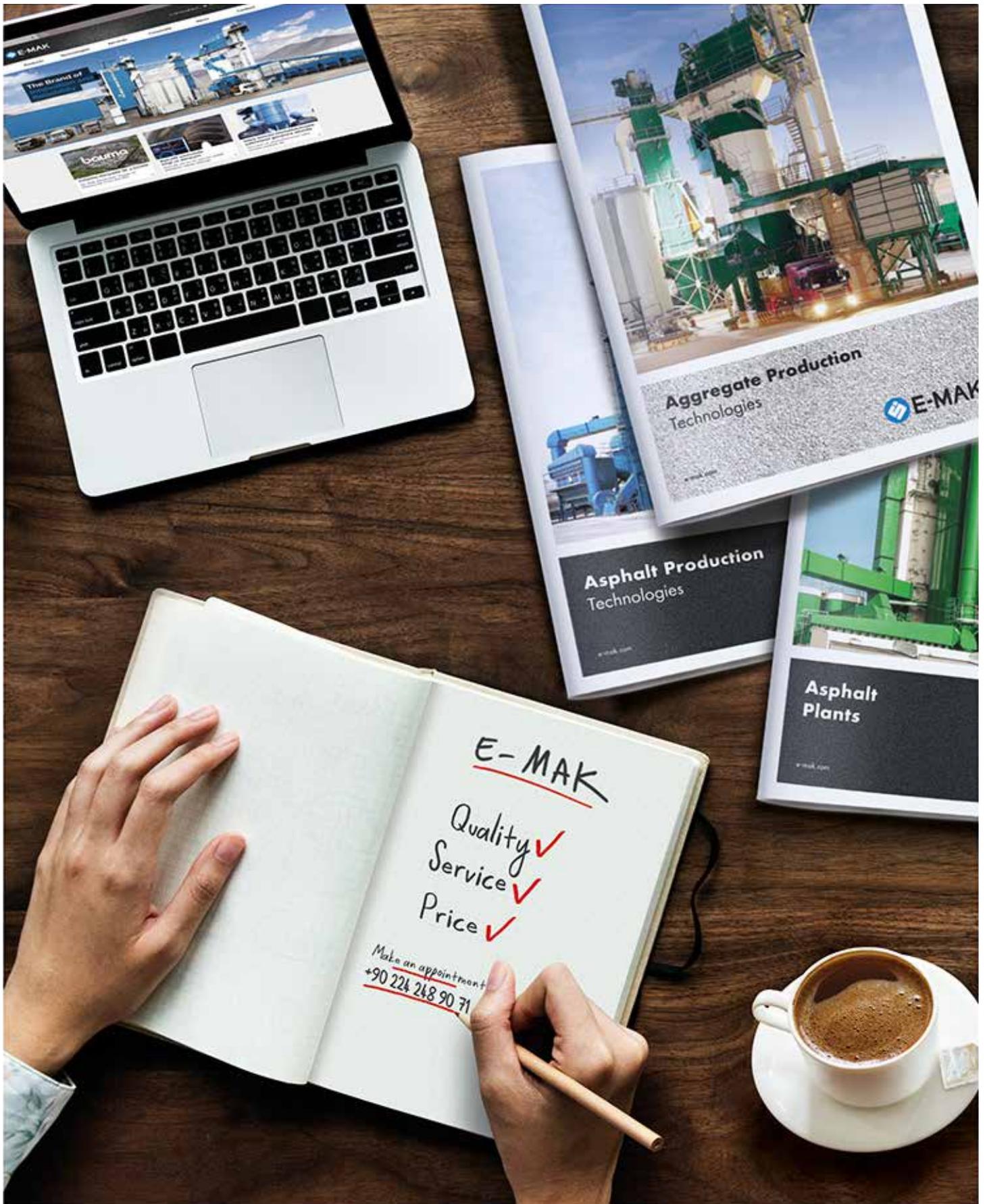
Mixer linings are wear resistant hard special alloy











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