

Aggregate Production Technologies

E-MAK
Innovation and Reliability







Aggregate Plants

Challenger



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

Vertical Impact Shaft (VSI) Crusher



- > Special wear resistant hard alloys
- > Enclosed or open rotor according to aggregate type
- > Up to 500 ton/hour capacity

Megaton



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

Cold Mix Plant



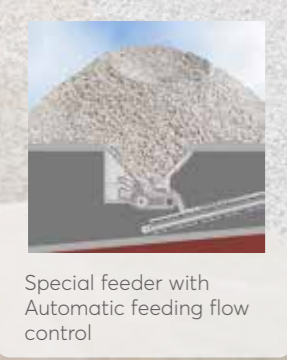
- > Fast and easy installation
- > Economical price
- > Frequency controlled aggregate feeders
- > Up to 500 ton/hour capacity

Challenger



No gas and dust emissions
Clean environment

No loader
Low cost
Safe work



Special feeder with Automatic feeding flow control

Ballast aggregate 0.25% moisture

(According to aggregate type: min. 20, max. 110 mm)

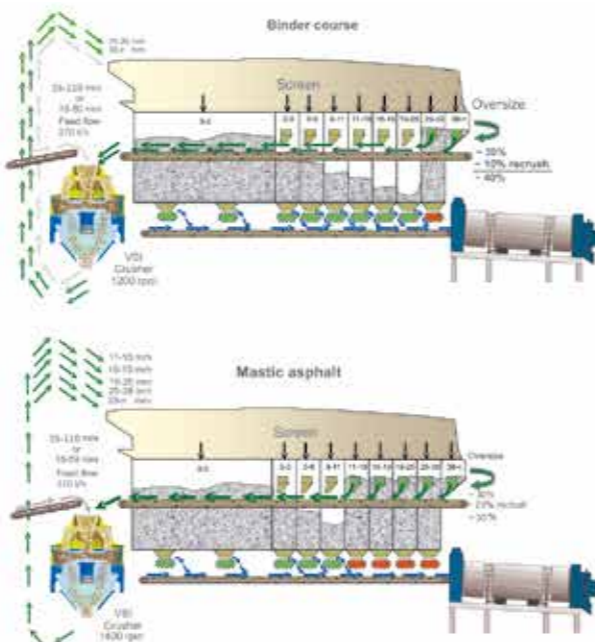


- ~~0-5 mm
~%5-8 moisture~~
- ~~2-5 mm
~%5-8 moisture~~
- ~~5-8 mm
~%2-4 moisture~~
- ~~8-11 mm
~%1,5-3 moisture~~
- ~~11-16 mm
~%1-2,5 moisture~~
- ~~16-20 mm
~%1-2,5 moisture~~
- ~~20-26 mm
~%0,7-1,5 moisture~~
- ~~26-29 mm
~%0,5-1 moisture~~

↑Aggregate ↑Dust ↑Asphalt

Challenger Aggregate Distribution

Closed aggregate preparation system (crushing, sieving, stockpiling, feeding) integrated to asphalt plants.



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



SIMULTANEOUS ASPHALT, CONCRETE AND COLD MIX PLANTS FEEDING



Megaton

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.

For Asphalt Production

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

For Concrete Production

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

For 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.

For Aggregate Production

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

ADVANTAGES

- > 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.





Vertical Impact Shaft (VSI) Crusher

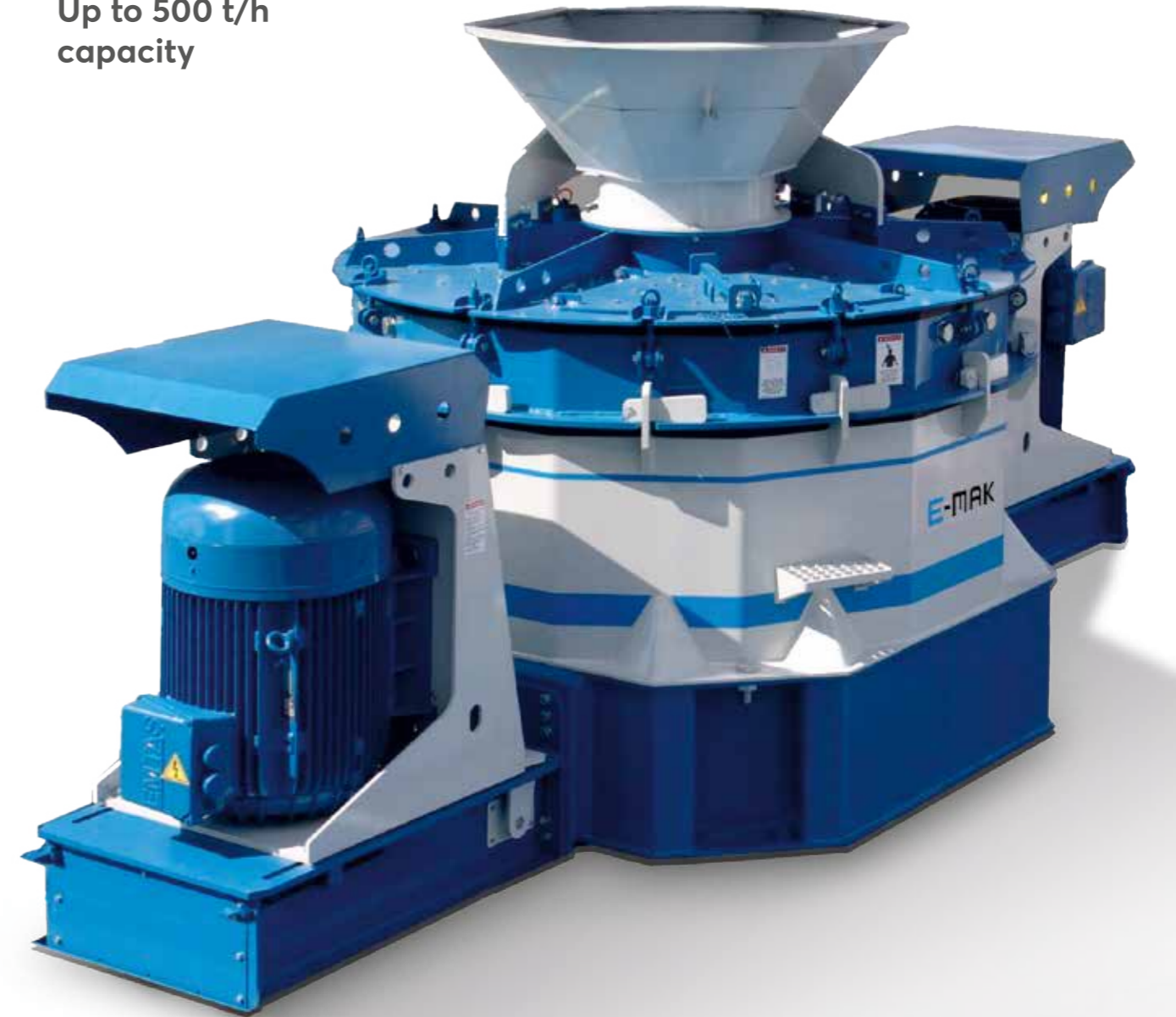
Çeşitli asfalt katmanlarının ve beton cinslerinin üretiminde ihtiyaç duyulan çeşitli gradasyonlardaki agregaları hız frekans kontrolü sayesinde istenilen boyutlarda elde edebilme imkanı.

ADVANTAGES

- > Enclosed or open rotor according to aggregate type
- > Desired aggregate gradation for any 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 inverter giving ability to work with desired rpm
- > Inverter controlled motors enable to work at required RPM

**Wear resistant
special and hard alloy**

**Up to 500 t/h
capacity**





Cold Mix

Mechanical Stabilization Plant

By integrating cement and emulsion systems, it provides the opportunity to produce cement-bound granular base and emulsified asphalt.

Frequency controlled aggregate feeders

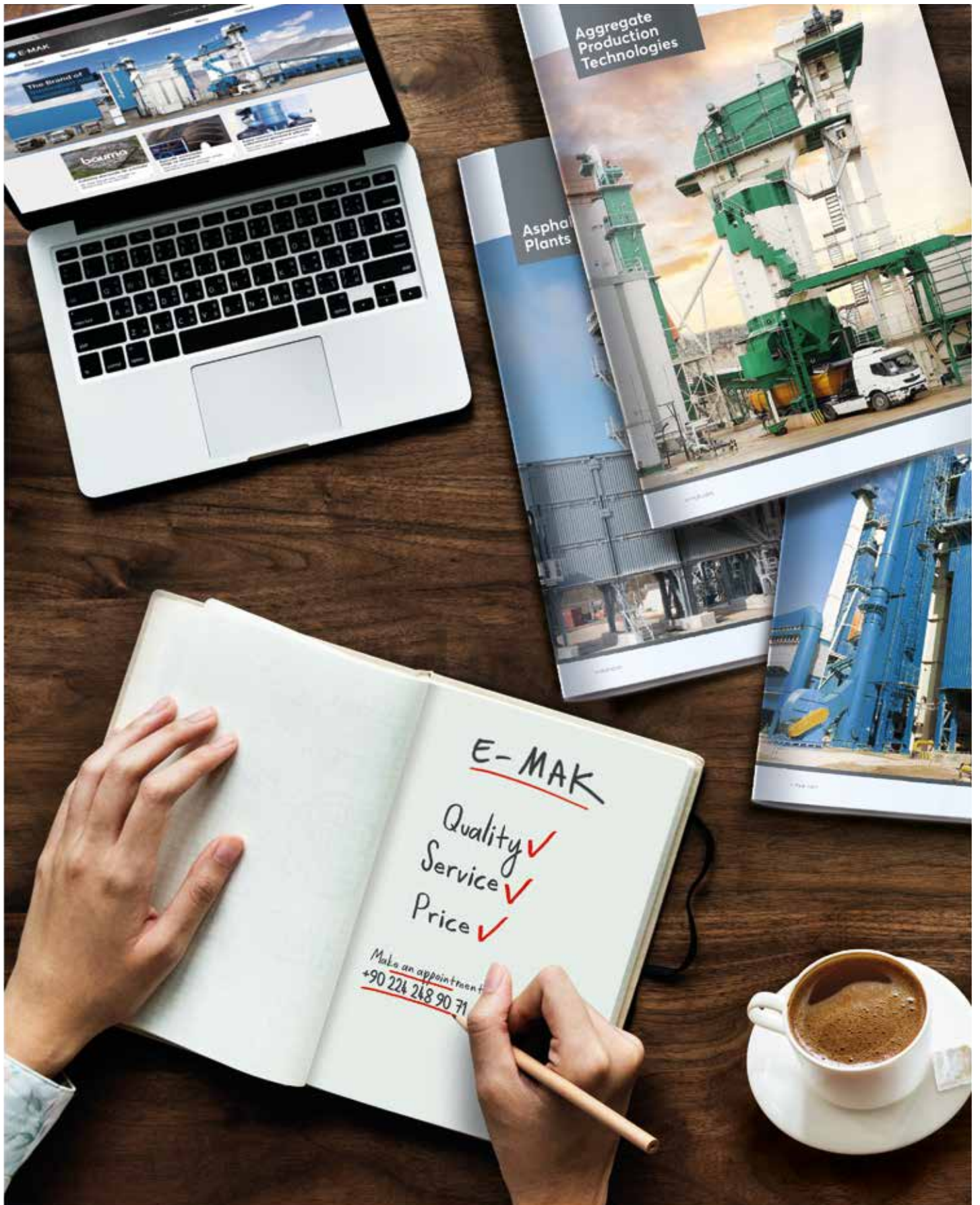
Wear resistant hard special alloy mixer linings



ADVANTAGES

- > Cold mix plant is operated automatically as well as manual operation.
- > 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, easily 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.





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E-MAK reserves right to change or modify technical data and specifications at any time without notice.

