

MEKA

MCSP SERIES COMPACT SAND PLANT

Meka Compact Plant Series are designed to remove silt and clay from sand

MEKA WET PROCESSING SOLUTIONS

MEKA offers an extensive product portfolio to work in many applications supporting customers in the washing minerals industry

www.mekaglobal.com





COMPACT SAND PLANT

MEKA Compact Plants ensure maximum efficiency by removing deleterious material while retaining valuable fines. The final product is drip-free and ready to ship. With its compact footprint, it fits into any plant either to replace an old washing system or to add value to the end product.

Each component of the MEKA Compact Plant is selected intelligently to give you the best value for your investment. Plant self-protects itself against running dry or oversize particles. All wear parts have very long service lives and when the day comes very easy to replace on-site.



MOST COMMON USES FOR MCSP SERIES COMPACT SAND PLANT

Manufactured Sand Production:

VSI Crushed sand usually contains more than 7% -200 mesh fines. All MCSP series compact plants can accept -4mm (1/8") crushed sand and on most of the applications will give a product gradation that perfectly matches standards. When producing manufactured sand, usually a lot of wear and electricity is consumed during the process. Any other washing method loses too much of the fines leaving the customer with less than ideal product and wasting plant capacity and power. High value fines report to settling ponds and become a problem while they could be profits.



MOST COMMON USES FOR MCSP SERIES COMPACT SAND PLANT

Frac Sand/Industrial Sand/Glass Sand Applications

All these applications are usually -20 mesh gradations. All these applications also demand very low ultra-fines in the final product. Basically, all the separation must take place between 200-100 mesh interval. A MCSP Plant hits this exact sweet spot during separation. In almost all of these applications a drying process usually follows. MEKA Dewatering Screen removes all free water that can be separated mechanically thus reducing the wait times or energy consumption during the drying process.

Washing High Clay Sands

When the feed has more than 10% water soluble clays and silts MEKA Compact Plants are the best choice to produce ready to sell product in just one pass. On most applications ultra fines can be reduced from 20% to less than 4% in a single pass. For tougher applications MEKA MCSP plants can easily be integrated with pre-wash plants. These plants require minimal additional water and allow to reduce fines from 36% to less than 4% in a single pass.

Ultra Fine Plants

UFP Plants perform very well when the job is to reduce load on thickeners, filter presses or settling ponds. Unfortunately their product is usually not very valuable. With simple adjustments a MEKA MCSP series plant will be able to recover at least 70% solids that would be recovered with a UFP Plant. Unlike an UFP Plant the product from a MCSP plant will have higher sale value and can be mixed with ¼" material to increase its sales value.





MEKA MCSP SERIES COMPACT SAND PLANT

Meka Compact Plant Series are designed to remove silt and clay from sand. All MCSP series plants are designed to have:

- Minimum footprint,
- Easy transportation (fits into 1 40' container)
- Easy and fast installation (if place and electricity is ready can be installed and ready to run in less than 8 hours)
- Drip-free, clean, ready-to-sell product.
- Minimum fines lost to wastes.
- Very easy maintenance.

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MEKA

GALVANIZED
MAINTENANCE PLATFORM

LOW NOISE AND HIGH QUALITY
VIBRATION MOTOR

METAL, RUBBER OR
POLYMER LINED

COMPACT DESIGN,
FAST INSTALLATION

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MEKA



EASILY CHANGE WORKING
ANGLE FOR ADAPTS TO
CHANGING CONDITIONS



FULLY RUBBER LINED FOR
INCREASED WEAR LIFE



FLOAT SYSTEM FOR SELF
REGULATION OF TANK
WATER LEVEL

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MEKA

HIGHLY EFFICIENCY RUBBER OR
STEEL SPRING FOR RIGHT VIBRATION

MANHOLE FOR MAINTENANCE

FACTORY WIRED, PLUMBED
AND TESTED



MEKA



UNDERFLOW DISTRIBUTION
BOX FOR SPLASH FREE
FLOW TO SCREEN



HIGH EFFICIENCY PU PANELS
FOR DEWATERING



MODULAR SCREEN DECKS
AND SIDE PROTECTION LINERS

MCSP 1-150 TECHNICAL SPECIFICATIONS

Hydrocyclone

1 off Weir Cavex G4-660/20 Hydrocyclone.
D50 Cutpoint 55 Microns
Liners: Site replaceable drop in natural rubber liners.
Inlet: 4th generation hydrocyclone with involute and ramped feed entry.

Pump

Weir LPRIII 250/200 (10x8") Split Casing, Horizontal Slurry Pump
Liners: Replaceable, Natural Rubber with Natural Rubber Impeller
Gland: Dry Gland, consisting of Silicon Carbide Hard Wearing Face and Soft Rubber Seal.

Pump Motor

Siemens 55 Kw (400V 50Hz), 63Kw(460V 60Hz)

Pulleys/Belts

SPB Series Pulleys and Belts selected for 60Hz Electricity.

Sump Tank

Self-regulating sump level with float system.
Manhole with permanent gasket for easier maintenance.
Protection grizzly in sump to protect pump against oversize materials.
Lined front-chute for life-time protection
Minimum sump level sensor to protect pump against running dry.
Overflow gate to safely discharge excess water without any spillage.

Control Panel

Included on the fair machine.



MEKA

COMPACT SAND
PLANT
DEWATERING
SCREEN

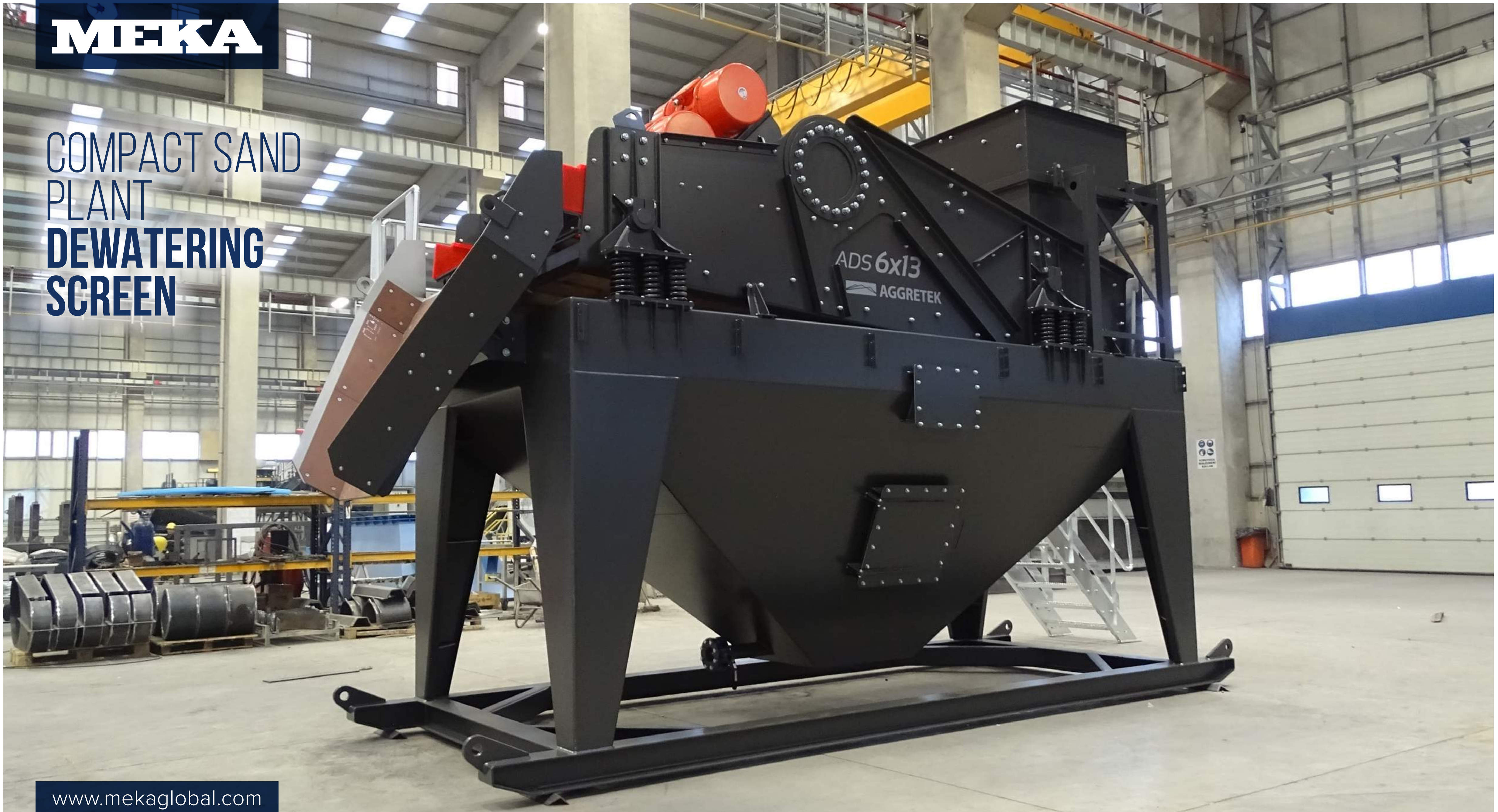
CLICK FOR
MEKA DEWATERING SCREEN
VIDEO



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MEKA

COMPACT SAND
PLANT
**DEWATERING
SCREEN**



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WHO IS MEKA?

THE CHOICE OF PROFESSIONALS IN THE AGGREGATE PRODUCTION,
READY-MIX CONCRETE AND MINING INDUSTRIES



ESTABLISHED IN 1987

We have 32 years of experience
and the passion of the first day.



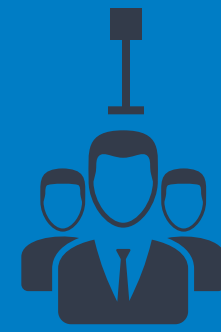
focused on manufacturing of

CONCRETE PLANTS AND CRUSHING & SCREENING EQUIPMENT



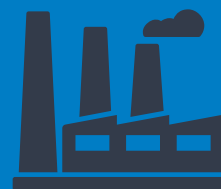
MANUFACTURING CAPACITY

600 Crushing Screening Equipment
200 Concrete Batching Plant / year



EXPERT ENGINEERING

Highly experienced engineers
within Meka work to design
machines that are
the most suitable
for our clients' needs.



MANUFACTURING FACILITIES

4 technological facilities
provide a total production area
of 75.000 m².

- 5.000 m² closed area in Ostim -ANKARA
- 18.000 m² in Temelli1 -ANKARA
- 22.000 m² in Temelli2 -ANKARA
- 30.000 m² in Eskişehir



WE PROVIDE A COMPLETE SCOPE OF SERVICES SUCH AS

- identifying customer's needs,
- project planning,
- design,
- engineering,
- manufacturing,
- quality control, commissioning,
- personnel training and
- after-sales support.



SERVICE STAYS FOREVER

MEKA supervisors are ready
to be on your site within the
shortest possible time.

MEKA



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MEKA Global is a prominent manufacturer of crushing&screening and wet processing equipment and engineering solutions to aggregate production, mining, cement and ready mix concrete industries all over the World.

We are based in Ankara (Turkey) and currently we are providing industrial services and products to customers in more than 80 countries including USA, Russia, Chile, England, Poland, Estonia, Romania, Bulgaria, Serbia, Kosovo, Bahrain, Kuwait, Qatar, UAE, Oman, Lebanon, Iraq, Iran, Jordan, Syria, Saudi Arabia, Yemen, Algeria, Sudan, Morocco, Bangladesh, Cameroon, Libya, Burkina Faso, Uganda, Nigeria, Ethiopia, Kazakhstan, Ukraine, Georgia, France, Tajikistan, Azerbaijan, Austria, Afghanistan etc

Experienced MEKA engineering team with excellent engineering background provide cost-effective and efficient products and solutions to our customers.

MEKA Global also manufacturing and supply spare parts including jaws, concaves, mantles, blow bars, piano wires, punch plate, mesh, polyurethane mats, springs, couplings, bearings, filters, rollers, hydraulic pumps/motors, gearboxes, valves, wear parts, engine parts, cushion and skirting rubber to suit a whole range of other OEM crushers and screeners.



MEKA PROVIDES QUALITY SPARE PARTS AND EXCELLENCE SERVICE FOR CONTINUOUS PRODUCTION AND PERFORMANCE



JUST IN TIME

As we are aware that our customers are in need of non-stop production anytime and anywhere, we not only deliver quality parts for continuous performance but also maintain a sales network entire world. As a result, you can always rely on MEKA Global.

MEKA can deliver the spare parts in crushing&screening, cement and mining industries including electrical, mechanical and electronic components, anywhere in the world and just in time in a very short deliver time.



MEKA

THE CHOICE OF PROFESSIONALS
IN THE AGGREGATE PRODUCTION,
READY-MIX CONCRETE AND MINING INDUSTRIES

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