MEKA

FDS SERIES
FIBER DOSING-FEEDING SYSTEM

Fully Automatic Equipment
For Steel and Synthetic Fibres

Perfect Solution for Fiber Feeding
Thanks to Flawless Dosing
and Strong Construction

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FIBER REINFORCED CONCRETE:
SOLUTION FOR BUILDING REINFORCEMENT AND CHANGING ARCHITECTURAL EXPECTATIONS

Concrete is a composite construction material obtained by mixing cement, water, various aggregates based on areas of use, and certain additives when required. Today, the qualities expected from concrete have increased due to changes in architectural expectations and development of construction technologies. Emergence of the need for using concrete in various areas caused some developments in concrete technology and concrete formula was developed. One of the most significant of these developments is the production of fiber reinforced concrete. In fact, fiber has been used as reinforcement material for a long time and it is not a new application for mankind. In Ancient Egypt, straws were used to reinforce bricks while horse hair or asbestos fiber was used to obtain a more flexible and robust construction material even thousands of years ago.

Metallic, polymeric, mineral or natural materials with certain length/diameter (fragility ratio) ratio added to fresh concrete with various methods and different amounts in order to positively change concrete properties are called fiber. Fibers are produced in various types and dimensions from materials such as steel, plastic, glass.

In general, fiber reinforcement decreases plastic and contraction shrinkage cracks in concrete, and increases wear, fraction and tensile strength and fatigue resistance. Fibers that minimize concrete damage due to freezing-dissolution in site concrete open to UV decrease rebound rate in shotcrete applications.

It is proven with many researches that the fiber added to concrete increases the concrete's ability to strain-transform under pressure and bending strength. Today, the use of fiber reinforced concrete applications that are the subject of many scientific researches is becoming widespread after finding out relevant benefits.

Fiber reinforcement concrete components are commonly used in applications including various structures such as industrial buildings, pavements, bridges, tunnel and channel coatings, hydraulic structures, explosion resistant buildings, security rooms, thin coatings and concrete cylinder.

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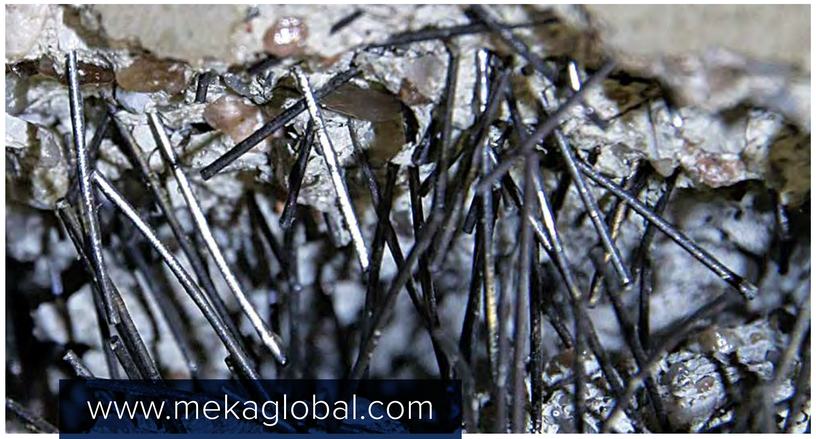

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FIBER REINFORCED CONCRETE PRODUCTION

Regardless of type of the fiber added to the concrete, its homogenous distribution and remaining the same after mixing the cement directly affects the contribution it makes to mechanical properties of the concrete. Homogenously distributed fibers prevent cracks in the concrete and make the concrete more robust by slowing down the progress of cracks within the concrete.

Measuring and adding fiber to mixer truck for a small quantity of fiber reinforced concrete

Primitive and risky method of fiber reinforced concrete production in terms of reliability is preparing the fiber reinforced concrete by adding fiber to the concrete in truck mixer and mixing for 5-15 minutes.

In this method, sudden water loss occurs when fiber is added to fresh concrete. Therefore the concrete may lose its slump value before homogenous mixture is obtained.

Since the concrete in truck mixer is a dense mixture containing all components, fiber reinforcement to fresh concrete may not be a suitable method for obtaining a homogenous mixture.

The operator’s manual addition to the truck mixer also poses a risk for person related production failures.

In addition, the mixer is operated for 5-15 minutes in order to allow the mixing when fiber is added after the mixer arrives to the site. A significant loss in production efficiency will occur due to long waiting durations of personnel and vehicles when this method is repeated for each truck.

Fiber reinforced concrete production in the plant with the fiber feeding system to be added to concrete plant

The most accurate choice for a concrete plant is not adding to the mixer, but to produce fiber reinforced concrete by a system feeding fiber to aggregate feeding belt. This system supported by plant automation allows highly accurate production and prevents user faults. Because, fiber additive less or more than the calculated amount directly affects the concrete quality.

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MEKA FDS SERIES
FIBER DOSING SYSTEM

Perfect Solution for Fiber Feeding Thanks to Flawless Dosing and Strong Construction

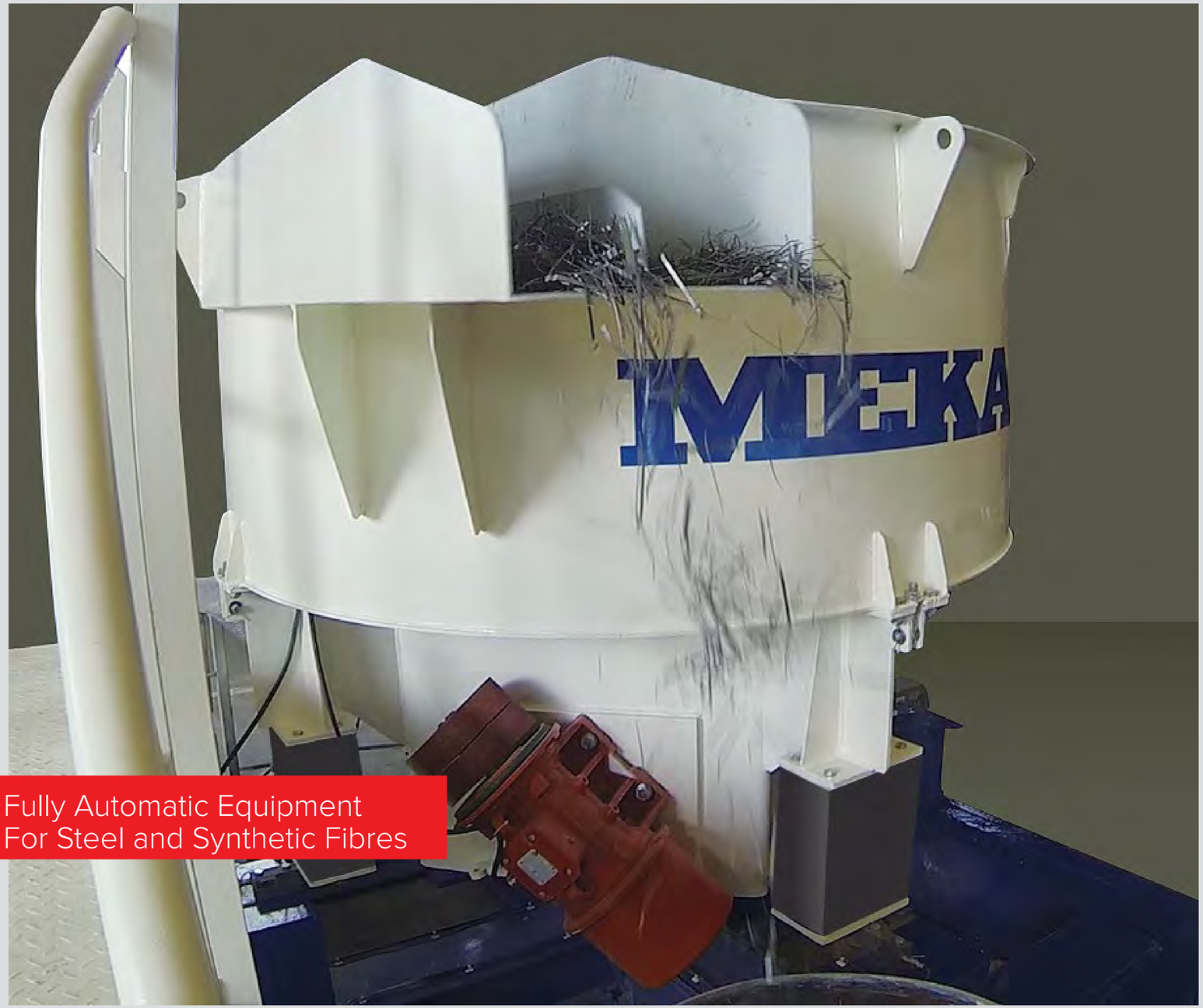
If the purpose is high capacity production, accurate weighing and mixture quality, MEKA Fiber Feeding Systems provide the best solution. Meka Fiber Feeding Systems with high weighing accuracy that can be used for steel/hard plastic and soft fibers are designed flexibly in order to meet various needs of our customers. Fiber feeding belt and other by-products are designed based on site installation and needs.

MEKA

MEKA FDS SERIES
FIBER DOSING SYSTEM

Meka fiber feeding system may be used for fiber reinforced concrete production in concrete plants, fiber reinforced stone mastic (TMA-SMA) asphalt production in asphalt plants, and for automatic and accurate fiber feeding and dosing in all kinds of production processes.

Weighing process can be integrated to plant automation for mixture quality and homogeneity check.



Fully Automatic Equipment
For Steel and Synthetic Fibres

MEKA

MEKA FDS Series Fibre Feeding/Dosing System supported by plant automation allows highly accurate production and prevents user faults. Because, fiber additive less or more than the calculated amount directly affects the concrete quality.

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WHY MEKA
FIBER FEEDING SYSTEM?

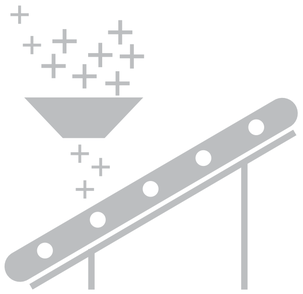
EASY MATERIAL LOADING FACILITIES

Steel and hard plastic fibers are generally sold in BIG-BAGs. Vessel of Meka Fiber Feeding System can be fed by BIG-BAG with the help of crane.

EXCELLENT CONCRETE WITH COMPLETE MEASUREMENT

Required fiber amount is chosen for each mixture from indicators on control panel of Meka Fiber Feeding System or from concrete plant automation. Weighing system works with a margin of error less than 1% thanks to accurate load cells. Fiber weighed with reduced weighing method is discharged on aggregates on aggregate feeding belt or into feeding bucket by transfer belt. It is also possible to obtain various types of reports related to fiber in complete integration.

WHY MEKA
FIBER FEEDING SYSTEM?



AGGREGATE SPEED SENSITIVE FEEDING FOR HOMOGENOUS MIXTURE

In order to obtain the best mixture and high homogeneity in Meka fiber feeding system, fiber feeding speed is regulated to transfer speed of the aggregate, therefore the aggregate passes through a pre-mixture phase with fiber.

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WHY MEKA
FIBER FEEDING SYSTEM?

ROBUST BODY THAT CAN BE USED WITH ALL KINDS OF FIBER

Meka fiber feeding system is equipped with cylindrical spiral fiber feeding lines and installed on a robust steel structure. Two adjustable vibrators allow the required movement of the vessel.

PLUG-AND-PLAY STRUCTURE COMPLETELY INSTALLED AND TESTED IN THE FACTORY

Meka fiber feeding unit is pre-installed and tested in the factory and shipped in a condition ready to operate. Site installation is done quickly thus allowing immediate production.

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This MEKA Plants Equipped with two Meka Fiber Feeding System.
Hinkley Point C Nucleer Power Plant Construction / UK

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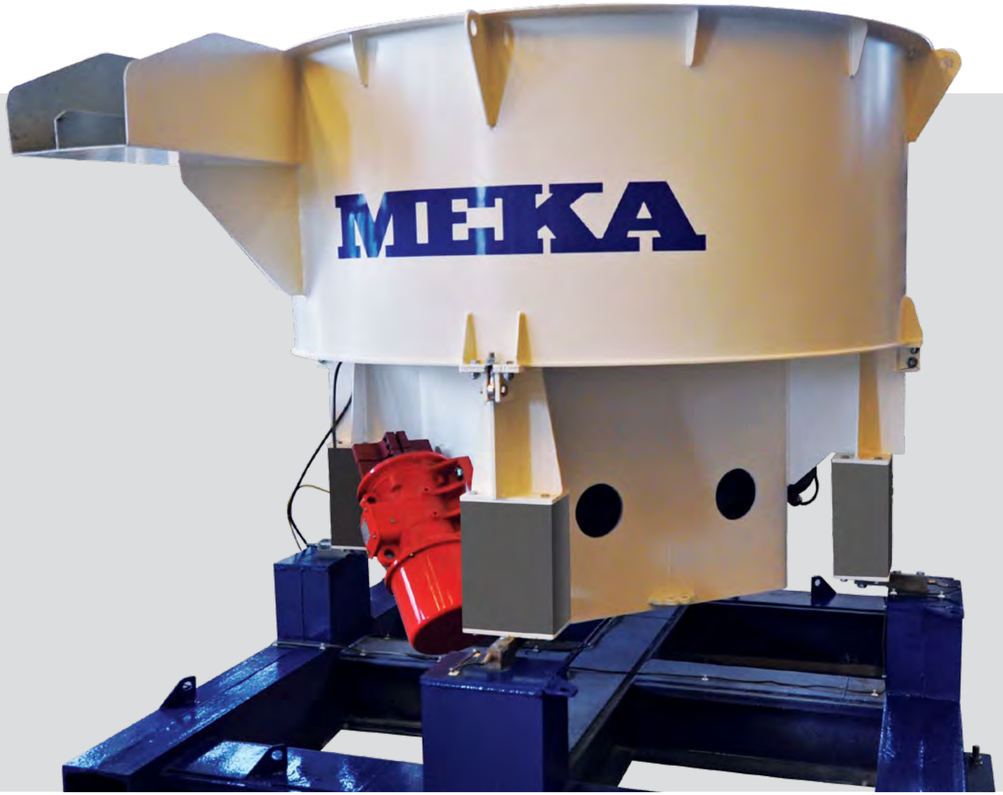
FIBER FEEDING SYSTEM

TECHNICAL SPECIFICATIONS

MODEL	A mm	B mm	C mm	D mm	E mm	POWER W	WEIGHT kg	CAPACITY kg/min*	FEEDER VOLUME litre**
MFD 1000	2490	2170	1935	1800	300	3920	1200	40-150	1000
MFD 2000	2590	2370	2370	2000	300	3920	1450	40-150	2000

* Capacity varies depending on fiber type used
** Theoretical value.



MEKA

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 m^2.

- 5.000 m^2 closed area in Ostim -ANKARA
- 18.000 m^2 in Temelli1 -ANKARA
- 22.000 m^2 in Temelli2 -ANKARA
- 30.000 m^2 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 sitewithin the shortest possible time.

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

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Tel: +90 312 397 91 33-34-35

sales@mekaglobal.com

www.**mekaglobal**.com

MEKA

Quality in detail

Original spare parts for crushing screening equipment offer you the reliability you need to protect your investment.

High production depth, a high level of standardization and inventories in line with market requirements guarantee the MEKA customers rapid availability of all necessary spare and wear parts.

MEKA Global also supply 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, screens and wet processing equipment.

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

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MEKA

Dear Partners,

Over its 32-year history, Meka has become one of the most successful representatives of the Turkish industry thanks to its consistent growth policy focused on concrete plants and crushing and screening technologies. With its qualified human resources, the company has been taking firm steps to become one of the industry's top players on a global scale.

Meka products are used in many regions of the world by industry leaders including Hochtief (Germany), Vinci (France), and Strabag (Austria), the top three companies on the ENR225 (Engineering News Record) list of contractor companies working globally based on business volume in foreign countries. In fact, many of the contractor companies on this list choose Meka concrete plants for concrete production in their projects.

As one of the companies with the greatest export share in Turkey, Meka's ultimate goal is to take its place as a worldwide brand. We strongly believe that Meka, a company defined by its clients as reliable, innovative, visionary, and problem-solving, will reach this target in a short time.

Yours sincerely

Mehmet KAYBAL
MEKA Chairman of the Board

WE WORK TO BE A WORLDWIDE BRAND AND TO CREATE VALUE WITH OUR INNOVATIVE AND QUALITY PRODUCTS

MEKA

ESTABLISHED IN 1987

We have over 30 years of experience and the passion of the first day.

focused on manufacturing of

CONCRETE PLANTS AND CRUSHING&SCREENING EQUIPMENT

MANUFACTURING CAPACITY

400 Crushing Screening Equipment
200 Concrete Batching Plant / year

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MEKA

MEKA PROVIDES SOLUTIONS

Experienced engineering team with excellent engineering background ensures that best solutions with maximum results are provided.

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MEKA

SOLUTIONS INVOLVING OUR EXCELLENT ENGINEERING BACKGROUND

The construction, mining and aggregate production industries continues to grow globally at an unprecedented pace, creating new opportunities each day. MEKA follows the industry and technology closely and develops unique solutions for its clients.

Today, Meka provides excellent solutions to the aggregate and concrete production industries thanks to its experienced engineering staff, technological production plants, and high-quality components.

Meka is a professional company that creates customized solutions rather than just providing machines. We believe it is this quality that has made us a worldwide brand. Because each client choosing our brand has different aggregate or concrete production purposes and needs, geographical conditions, and land properties, we provide customized solutions by determining those needs and designing our products accordingly. This is the reason why Meka crushing and screening equipment and concrete plants are preferred in a wide variety of regions including the UK, USA, Ecuador, Siberia, Chile, Comoros Islands, Australia, France, Russia, Costa Rica, and Algeria.

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MEKA

ROBUST AND SPECIAL COMPONENTS THAT ENSURE EFFICIENCY IN FULL CAPACITY

The primary quality that makes our products' ability to operate under challenging conditions special is durability. Our experienced engineers, technicians, and welding workers collaborate for excellence in calculation, design, and production processes in order to produce the very best equipment that can operate without problems. This means our products can overcome challenges such as tough natural conditions, long working hours, operation under high dynamic stress and heavy loads, and can work smoothly at maximum efficiency with low maintenance and operation costs for many years.

MEKA

EXPORT COUNTRIES

More Than 80 Countries...

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, Tatarstan, Azerbaijan, Austria, Afghanistan etc.

MEKA

WE HAVE PRODUCED MORE THAN 3,000 PLANTS AND HAVE GAINED INCALCULABLE EXPERIENCE

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MEKA

STRONG REFERENCES

We have produced more than 3,000 plants and have gained incalculable experience.

Heidelberg, Hochtief, Vinci Contractors, Lafarge, Gazprom, Italcementi Group, London Concretes/Aggregates, Holcim, Strabag Gmbh, Euro Cement Group, Breedon Aggregates, Knauf, Enka, Galfar, Alesco, Recon International, Richard Costain, Tekfen, Lakeshore Group, Gama, Orascom, CCC etc.

HEIDELBERG · VINCI · Holcim · LAFARGE · Italcementi Group · CEMEX · BREEDON AGGREGATES · KAZAKHMYS

HOCHTIEF · KNAUF · STRABAG · GAZPROM · COSTAIN · ENKA · ORASCOM CONSTRUCTION INDUSTRIES · EURO CEMENT

CCC · Galfar · ARAB CONTRACTORS · al Hassan · LES Lakeshore Group · RECON INTERNATIONAL · GAMA · SAUDI BINLADIN GROUP

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MEKA

MEKA OFFERS A BROAD PRODUCT RANGE INCLUDING CRUSHING-SCREENING MACHINES AND PLANTS, CONCRETE PLANTS, AND CONCRETE MIXERS.

Meka has the capacity to produce 300 concrete plants and crushing-screening plants in a year.

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MEKA

OUR PRODUCTS

CRUSHING-SCREENING PLANTS AND EQUIPMENT

Meka is a professional brand providing solutions for crushing-screening machinery and plants that require expertise, strong and active organization in design, production, and after-sales service.

Meka's R&D team consists of 35 experts in the design of crushing-screening and washing machines that require intense knowledge and experience to develop. Our team provides professional solutions for the needs of industry, turning designs into excellent machines in our factories, which have a total of 75,000 square meters equipped with modern technology and equipment.

With solutions that focus on the crushing, screening and washing of rocks, ores and mineral materials, Meka has a machinery portfolio that can satisfy all needs of aggregate production and the mining industry, and the ability to develop special designs for different productions. In the screening industry, where even hours matter, it provides fast and accurate technical solutions in domestic and foreign after-sales service; we also provide spare part support within hours, which is the greatest need of the industry, in our own offices or those of local distributors.

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MEKA

OUR PRODUCTS

CONCRETE BATCHING PLANTS AND SOLUTIONS

The root of Meka's corporate success is its international success in building concrete plants.

The roots of our company lie behind our international success in concrete plant design and production. Over the years we have gained priceless experience in terms of concrete plants, which were our only focus for a long time.

Meka has developed and produced mobile, fixed, and compact concrete plants, concrete recycling systems, and fiber feeding systems for many projects including concrete road, RCC, and precast applications. Today, more than 3,000 Meka plants in over 80 countries on five continents contribute to the construction of a better world. Meka is preferred by global leaders such as Holcim, Lafarge, Cemex, Heidelberg, and is acknowledged as "The Choice of Professionals" worldwide.

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MEKA

CRUSHING&SCREENING EQUIPMENT

FEEDERS
Pan Feeders with Grizzly Scalper
Grizzly Feeder
Pan Feeders

CRUSHERS
Jaw Crushers
Cone Crushers
Primary Impact Crushers
Secondary Impact Crushers
Tertiary Impact Crushers
Vertical Shaft Impact Crushers

SCREENS
Horizontal Screen
Inclined Screen
Grizzly Screen

WET PROCESSING
Fine Material Washers
Bucket Wheel Dewaterer
Compact Sand Plants
Coarse Material Washer

MOBILE SOLUTIONS
Track Mounted Crusher
Portable Mobile Solutions

CONVEYING

CONCRETE BATCHING EQUIPMENT

READY MIX CONCRETE PLANTS
Mobile Concrete Plants
Compact Concrete Plants
Stationary Concrete Plants
Dry Batch Concrete Plants

CONCRETE MIXERS
Single Shaft Concrete Mixers
Twin Shaft Concrete Mixers
Planetary Concrete Mixers
Mobile Twin Shaft Mixers

SPECIAL SOLUTIONS
Precast Concrete Plants
RCC Concrete Plants

CONCRETE BATCHING PLANTS COMPONENTS
Cement and Powder Silos
Automation System
Fiber Dosing Systems
Concrete Recycling Systems
Components & Options
Mobile Aggregate Feeding
Conveyor
Spare Parts

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TURKEY

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GEORGIA

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TRACKED CRUSHER

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HORIZONTAL SCREEN

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COMPACT SAND PLANT **DEWATERING SCREEN**

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IGA ISTANBUL AIRPORT CONSTRUCTION PROJECT

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LONDON HEATROW AIRPORT CONSTRUCTION PROJECT

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BELGIUM

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RUSSIA / SOCHI OLYMPICS VILLAGE CONSTRUCTION PROJECT

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THE BIGGEST WET CONCRETE PLANT IN LONDON

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UK / HINKLEY POINT C NUKLEER POWER PLANT CONSTRUCTION PROJECT

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MEXICO
UNITED STATES EMBASSY
CONSTRUCTION PROJECT

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UK /RAF MAHRAM AIRPORT CONSTRUCTION PROJECT

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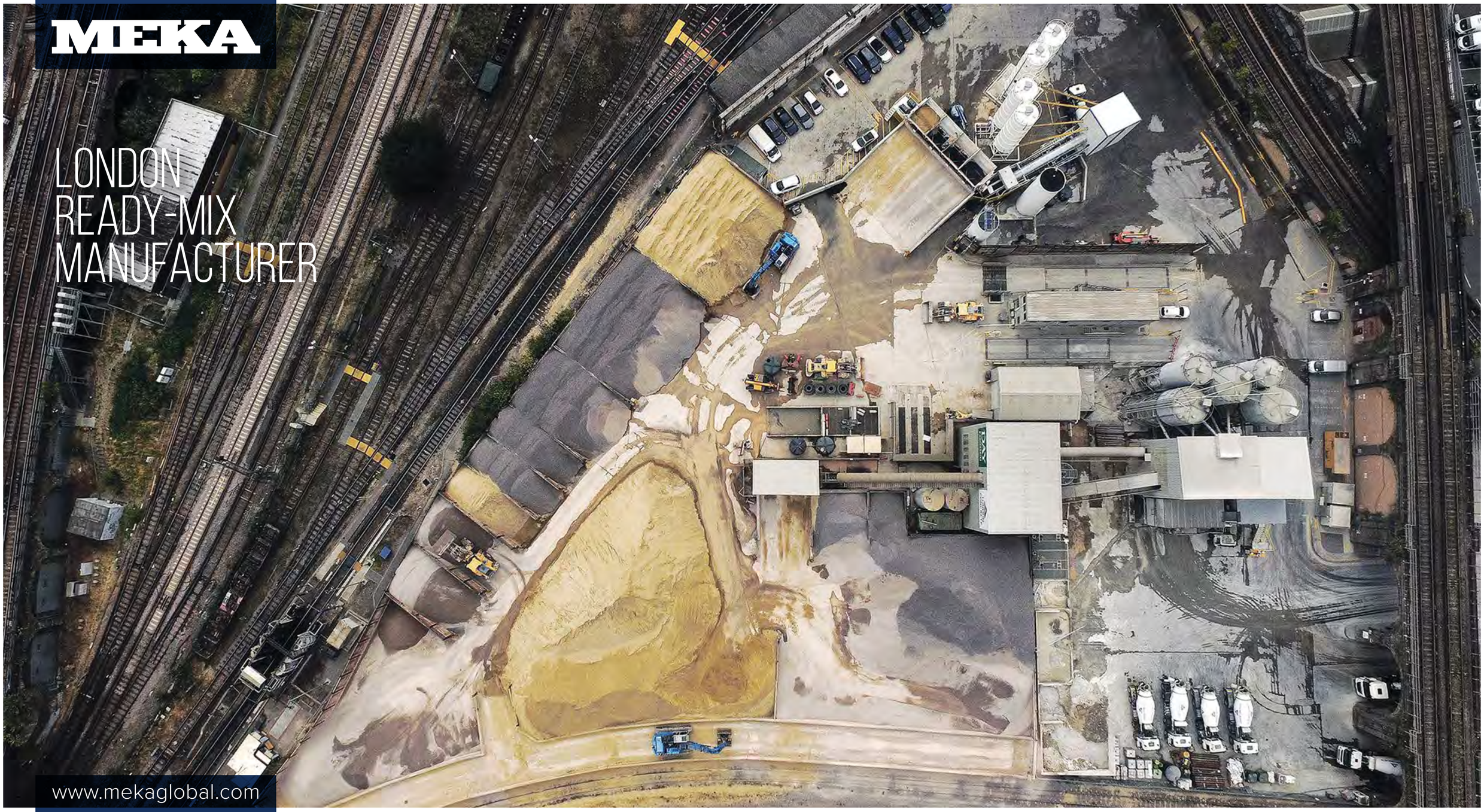
LONDON READY-MIX MANUFACTURER



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SCOTLAND

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MEKA

NICARAGUA

MEKA

RCC PLANT FOR DAM CONSTRUCTION

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MEKA CONCRETE MIXERS

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ESTABLISHED IN 1987

We have 30 years of experience
and the passion of the first day.

focused on manufacturing of

CONCRETE PLANTS AND CRUSHING&SCREENING EQUIPMENT

MANUFACTURING CAPACITY

350 Crushing Screening Equipment
200 Concrete Batching Plant / year





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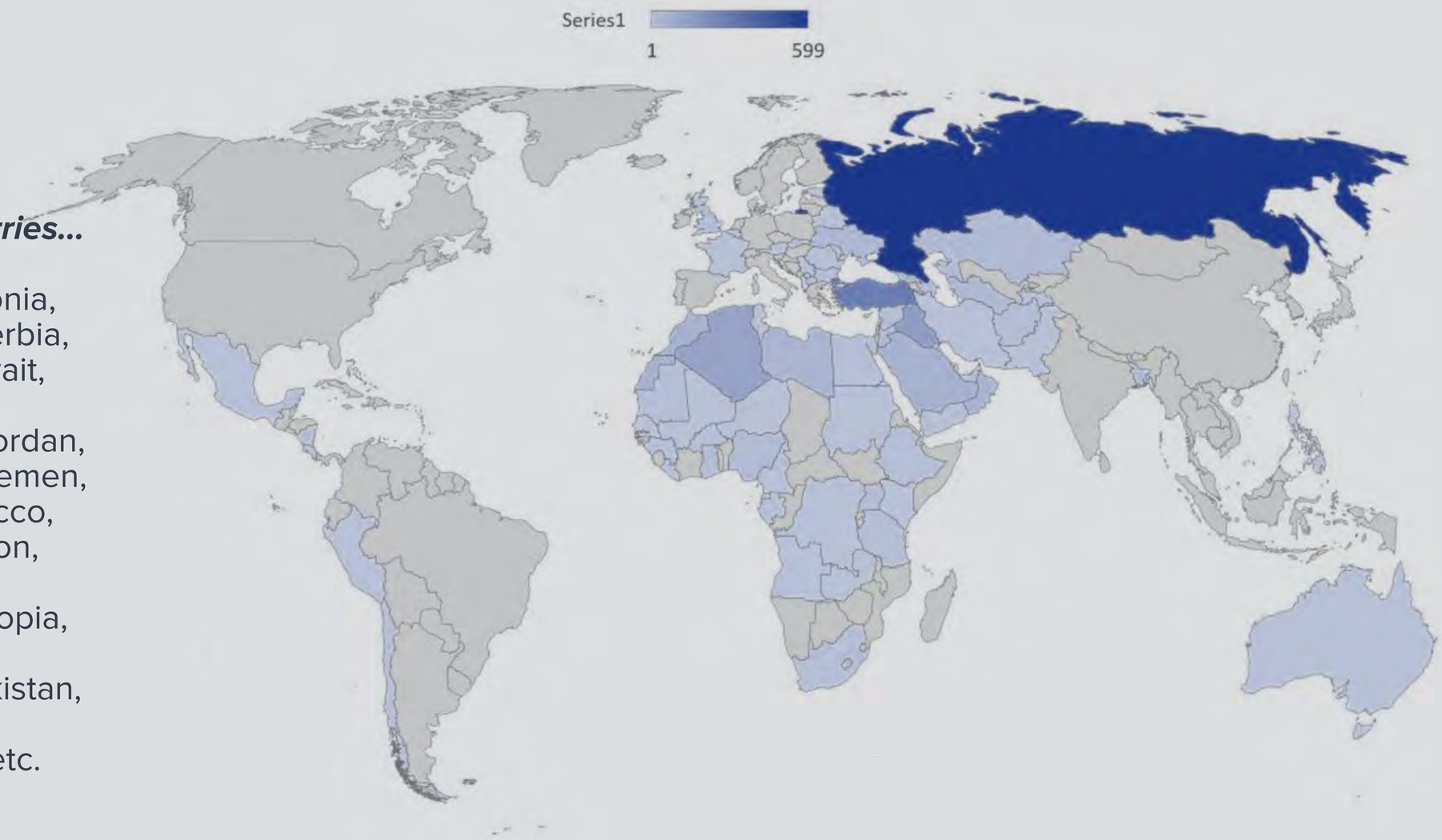
EXPORT COUNTRIES

More Than 80 Countries...

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, Tatarstan, Azerbaijan, Austria, Afghanistan etc.



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CONCRETE PLANTS AND CRUSHING&SCREENING EQUIPMENT

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MEKA

OUR PHILOSOPHY

Manufacturing and delivery of high quality equipment according to individual preferences of our customers from all over the world.

MEKA

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.

MEKA

SALES GO UP AND DOWN SERVICE STAYS FOREVER

Our experienced service team is here to support you no matter where you are located. Around 40 supervisors are ready to be on your sitewithin the shortest possible time.

Wide spare parts stocks and trained personnel in many locations worldwide will ensure you get the fastest support for your equipment.

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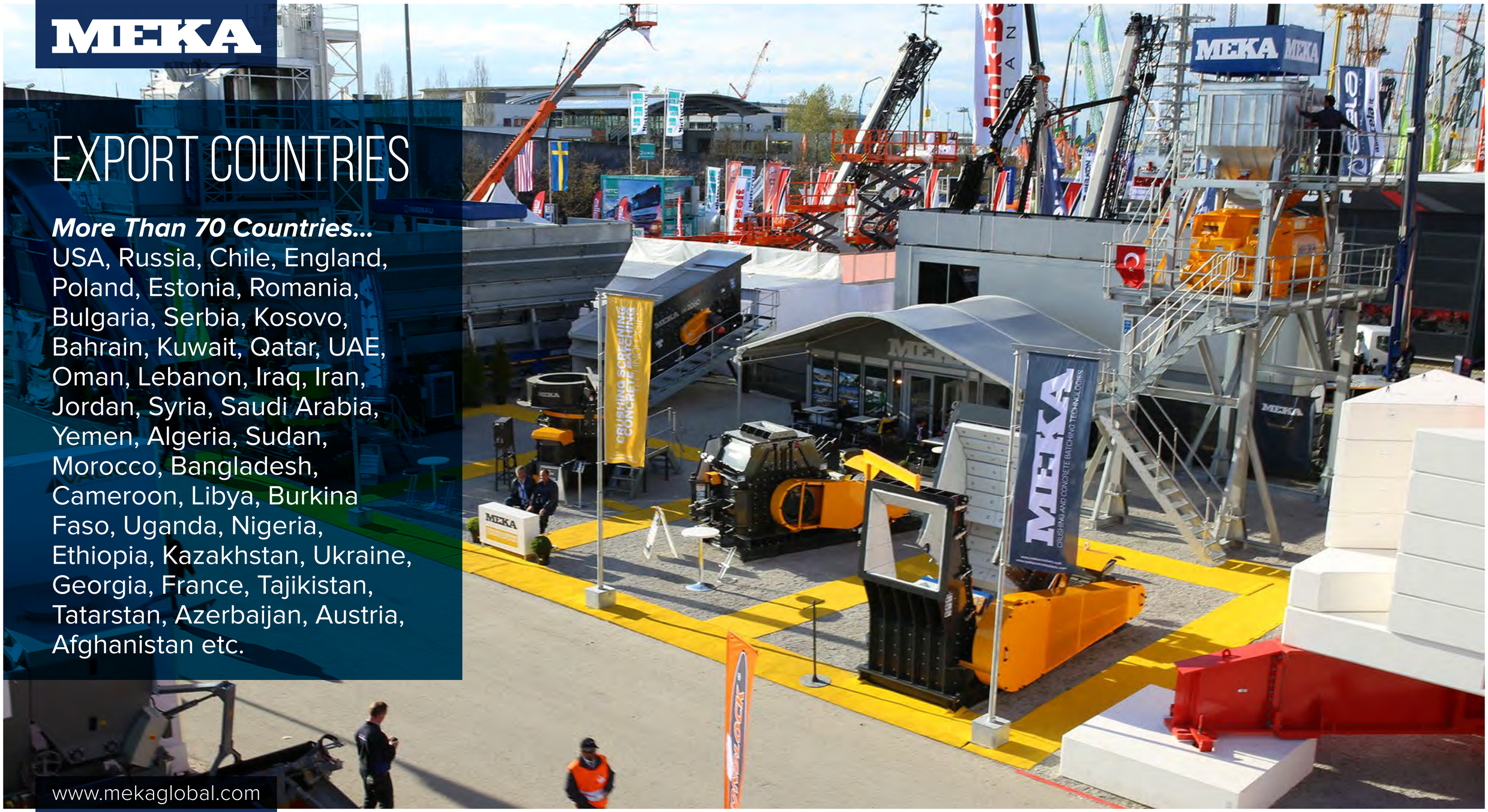
MEKA

EXPORT COUNTRIES

More Than 70 Countries...

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, Tatarstan, Azerbaijan, Austria, Afghanistan etc.



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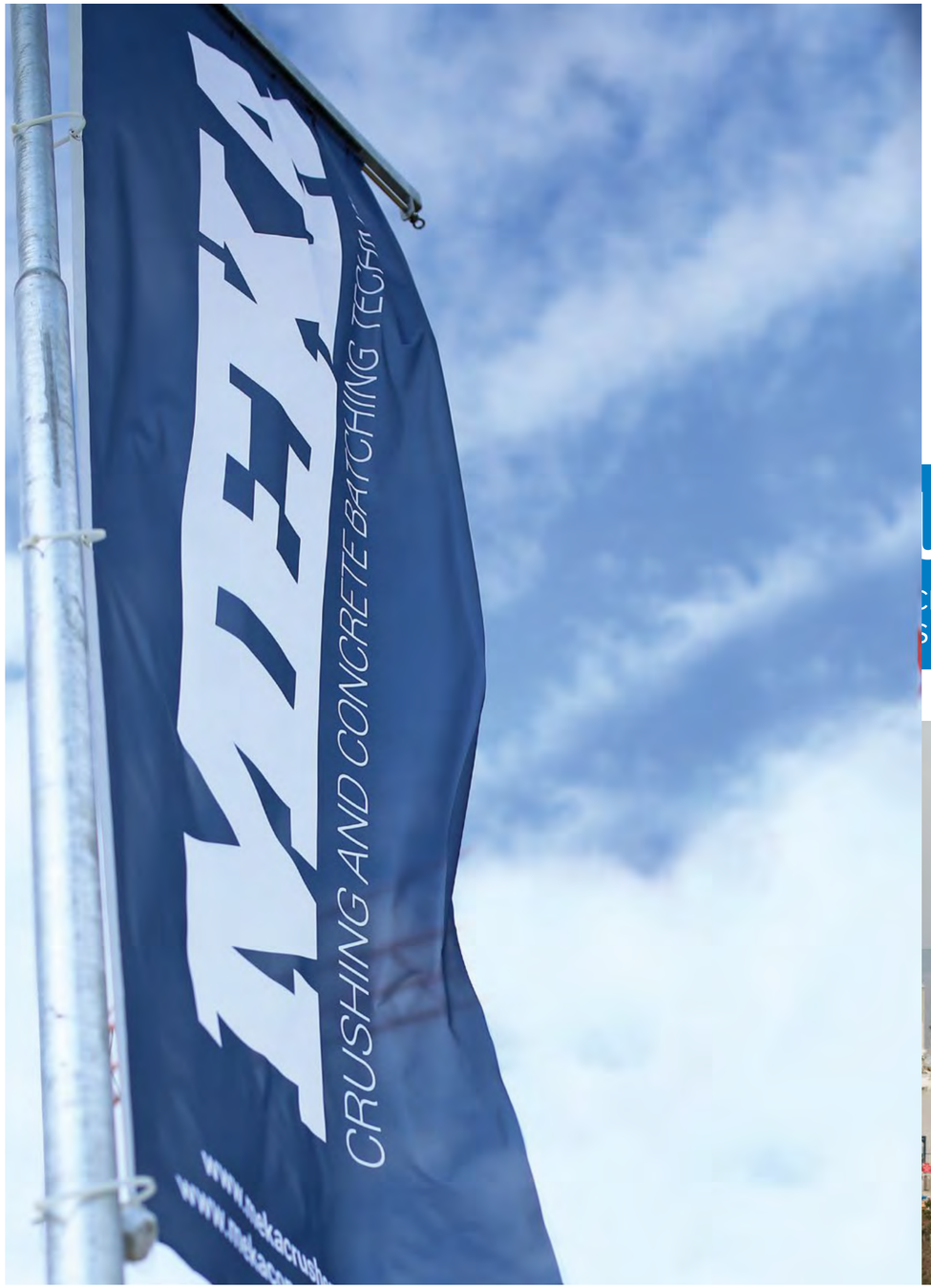

MEKA

UTIONS

CHING PLANTS
SING SYSTEMS

CRUSHING & SCREENING SOLUTIONS

FEEDERS / CRUSHERS / SCREENS / CONVEYING
WET PROCESSING / MOBILE SOLUTIONS