



GLOBAL REFERENCE

THE EXCELLENCE IN **FILTRATION**, BY NATURE



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MATEC is a worldwide leader in the design and manufacturing of filtration and purification plants for waste water and silt. We design, manufacture and install complete and turnkey plants in any sector which deals with waste water and silt. The most important ones are mining, aggregates, sand and gravel, stone, concrete, ceramics, plastic and glass. We have developed extensive experience over 10 years and thousands of successful projects all across the world.

Through our systems we can guarantee the best results, allowing any working site to reach its maximum efficiency and production, because Matec systems maximize the returns of the plant, recovering precious materials and reducing disposal costs. We can provide our customers with the best quality machines, also thanks to components by top brands and the best assistance service.

workshop and offices cover a 5000 m² area, here we design and manufacture all our machines to offer 100% Made in Italy products. Matec is a well-established presence in every continent and we have developed branch offices in America, Brazil, France, UK, Australia, Marocco, Turkey and India, plus a global dealer network. Through our warehouses and dealers, we can easily supply the spare parts you need and give assistance. The need of constantly keeping a high level of both service and operational skills must be translated into a strong integration between Customer's needs and the daily comparison to the evolution of our reference markets. Our company mission is to create values through the supply of cutting edge products and services for customer's greatest satisfaction, at the same time respecting mankind and the environment.

Matec headquarters are in Massa, Tuscany, Italy. Our

FIELDS OF APPLICATION

- **✓** MINING, TAILING & CONCENTRATE
- **✓** AGGREGATES, SAND AND GRAVEL
- **✓** STONE CUTTING, MARBLE AND GRANITE
- **✓** CONCRETE AND TUNNELING
- **✓** RECYCLING AND SOIL WASHING
- **✓** GLASS AND CERAMIC
- **✓** CHEMICAL, PLASTIC, INDUSTRIAL APPLICATION





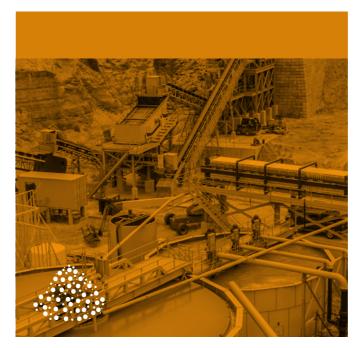




MINING
TAILING & CONCENTRATE

In the mining sector, the filter press is used for the tailing and the concentrate recovering. Coal mines have to deal with the problem of disposing of the uneconomic material, by-product of the coal production. Especially, Matec machines can dewater the waste fines suspended in water, recover them, clean water and eliminate tailing ponds.

Matec filter press is also used in the concentrate recovering. For this application, the cake output must have a very low residual moisture, 6 or 7%, and Matec filters can reach it through the installation of membrane plates which squeeze further and the core blow accessory to dry the cakes more. Processed rocks, coal and clay may contain a wide range of heavy materials, such as arsenic, lead, cadmium, chromium, iron, manganese, aluminum and nickel.



AGGREGATESSAND AND GRAVEL

Aggregates like gravel and in particular sand, because of their applications, need to be washed to recover fine particles and eliminate the silt which adheres to their surfaces. Usually, the water used for sand washing can be recycled by using settling ponds in which heavier particles settle down and where they are collected from the bottom to be stocked.

Recovery and storage of these materials, which must be disposed of with excavators, trucks and personnel at a later stage, have significant costs for aggregate production industry, also due to the fact that it is necessary to dedicate a large area to these operations. Matec filter press allows to get rid of settling ponds and produces dry cakes easy to stock and dispose of, it also recovers water which is particularly important in dry areas.



STONE CUTTING MARBLE AND GRANITE

In marble, granite and stone working, either in quarries or workshops or stone processing factories, water has multiple applications. From cutting to polishing, water is necessary to avoid the over-heating of tools and reduce dust produced in various processes. Then, water needs to be treated in order to be re-used in the closed production cycle or to be discharged in the environment safely.

Matec filter press is perfect to produce dry cakes with a 15% residual moisture and recover 99% of water, occupying the minimum amount of space.





The water used for the washing of trucks and mixers must be treated in order to be recovered and cement remains must be disposed of or recovered at the end of the working cycle.

MATEC offers two options in their plants for the clarification of water derived from pump and cement mixer washing in concrete and cement plants. Before the filtration and purification process is carried out by the filter press, the residue can be processed by a screw separator or a dewatering screen in order to separate and select aggregates.



RECYCLINGAND SOIL WASHING

The recycling sector is the one dedicated to the recovery of material deriving from crushing processes and soil washing. The material has to be washed to remove the polluting part, decontaminating it.

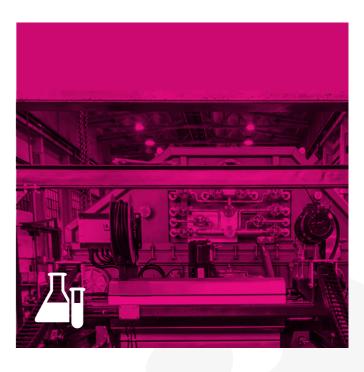
The system works with attrition cells, special tanks where the sand is agitated to eliminate contaminants through attrition, then the material is filtrated by the filter press. An important application is for the recovery of construction materials.



GLASS CERAMIC

In the glass workshops, the water must be treated to remove the residue deriving from glass working.

Whereas in the ceramic sector, the filter press can be used for the disposal of the slurry deriving from ceramic working or for the preparation of the ceramic pulp for the ceramic production process.



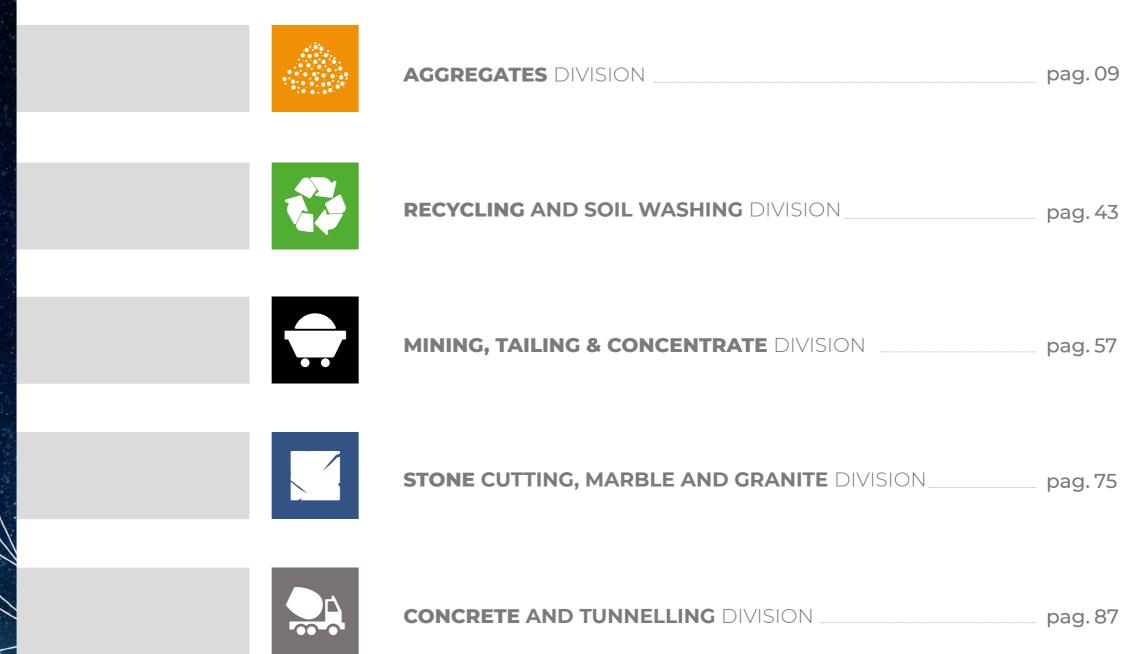
CHEMICALPLASTIC, INDUSTRIAL
APPLICATION

Matec machines and plants can be applied to other sectors. Wherever there is slurry to be treated Matec is the best solution on the market.











AGGREGATES DIVISION



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CLIENT SUNROCK

LOCATION USA

FILTERPRESS 1500x2000/190P

TPH 89.3

GPM 5400







LOCATION ISRAEL

FILTERPRESS 2000x2000/100P

TPH 45.52





CLIENTGRANITE ROCK

LOCATION USA

FILTERPRESS 1500x2000/190P

TPH 89.3

GPM 5400







CLIENT SOLVALOR

LOCATION FRANCE

FILTERPRESS 1500x2000/200P

TPH 92

LPM 18800

GPM 5000







CLIENT FRAC SAND

LOCATION

FILTERPRESS 1500x1500/160P

TPH 20

LPM 20000

GPM 5400



CLIENTOLD CASTLE

LOCATION USA

FILTERPRESS 1300x1300/160P

TPH 35

LPM 8000

GPM 2115







CLIENT PEDRIX

LOCATION BRAZIL

FILTERPRESS 1300x1300/120P

TPH 31.5

LPM 4000

GPM 1100







LOCATION

FILTERPRESS 1300×1300/100P

TPH 22

LPM 5200

GPM 1375





CLIENT IMPLENIA

LOCATION SWITZERLAND

FILTERPRESS 1300x1300/75P

TPH 15.3

LPM 3000

GPM 790







CLIENT HOCHEL ZPM

> LOCATION POLAND

FILTERPRESS 1300x1300/60P

TPH 36

LPM 7500

GPM 2000

CYCLES 3/4



CLIENT KOC

LOCATION TURKEY

FILTERPRESS 1200x1200/170P

TPH 18.92

LPM 8500

GPM 2245.46







LOCATION TURKEY

FILTERPRESS 1200x1200/170P

TPH 24.4

LPM 6000

GPM 1600





CLIENTLACIN AGREGA

LOCATION TURKEY

FILTERPRESS 1200x1200/170P

TPH 26.88







LOCATION USA

FILTERPRESS 1200×1200/100P

TPH 22

LPM 6500

GPM 1756





CLIENT SKSM SOBOTKA

LOCATION POLAND

FILTERPRESS 1000x1000/140P

TPH 18.8

LPM 18000

GPM 4755







FILTERPRESS 1000x1000/120P

TPH 19

LPM 18000





CLIENT VALLI

LOCATION ITALY

FILTERPRESS 1000x1000/100P

TPH 13.5

LPM 5200

GPM 1370





CLIENT BETTONI

LOCATION ITALY

FILTERPRESS 1000x1000/100P

TPH 13.5

LPM 10000

GPM 2640





CLIENT KSD

LOCATION UK

FILTERPRESS 800x800/100P

TPH 7.2







CLIENT CHRISTCHURCH

LOCATIONNEW ZELAND

FILTERPRESS 1000x1000/120P

TPH 19

LPM 5200

GPM 1400







LOCATION TURKEY

HORIZONTAL THICKENER

TPH 13.5

LPM 6000

GPM 1600





CLIENTJMOULD

LOCATION

FILTERPRESS 2000x2000/200P

TPH 50

LPM 12000

GPM 3000





CLIENT





CLIENT KE LUNESS

LOCATION UK

FILTERPRESS 1500x2000/120P

TPH 30

LPM 22600

GPM 6000







CLIENTCAVE NORD

LOCATION ITALY

FILTERPRESS 1500x1500/100P

TPH 30

LPM 5000

GPM 1300







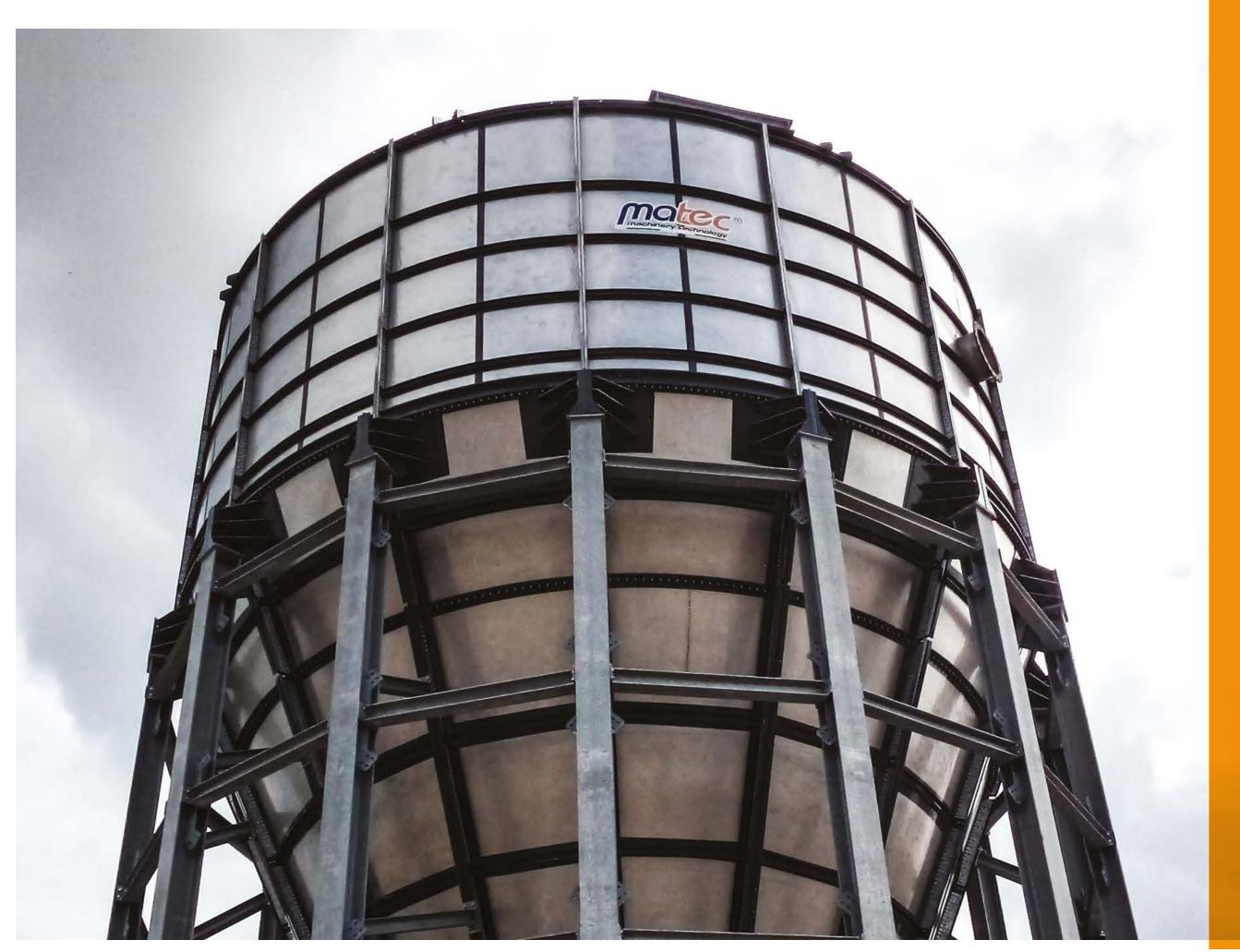
LOCATION

FILTERPRESS 1500X2000/120P

TPH 700 m³

LPM 28000

GPM 7567





CLIENT MELON ARIDOS

LOCATION CILE

VERTICAL CONE THICKNER

LT 280000

LPM 10000

GPM 2700









RECYCLING AND SOIL WASHING DIVISION



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CLIENT WENTVALLEY

LOCATION UK

FILTERPRESS 1500X1500/200P

TPH 31.34





CLIENT COLLARD

LOCATION UK

FILTERPRESS 1500X2000/150P

TPH 24





CLIENT TARMAC

LOCATION UK

FILTERPRESS 1500X1500/200P

TPH 18.8







CLIENT SIBELCO

LOCATION FRANCE

FILTERPRESS 1300X1300/100PX2

TPH 17

LPM 1400

GPM 370







CLIENTMICOPERI

LOCATION ITALY

FILTERPRESS 1300X1300/80Px2

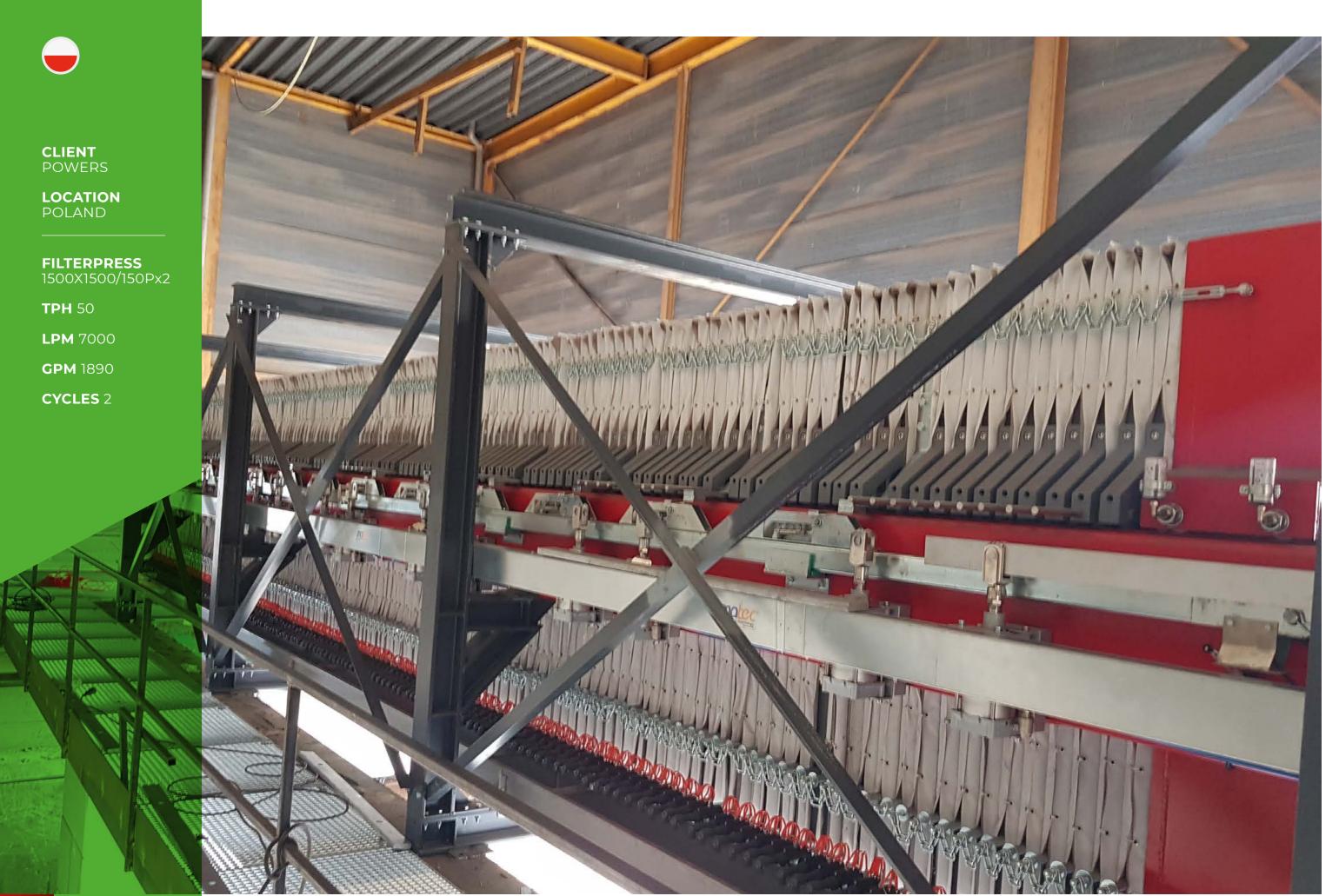
TPH 17

LPM 3200

GPM 845











CLIENT UNIGRÀ

LOCATION ITALY

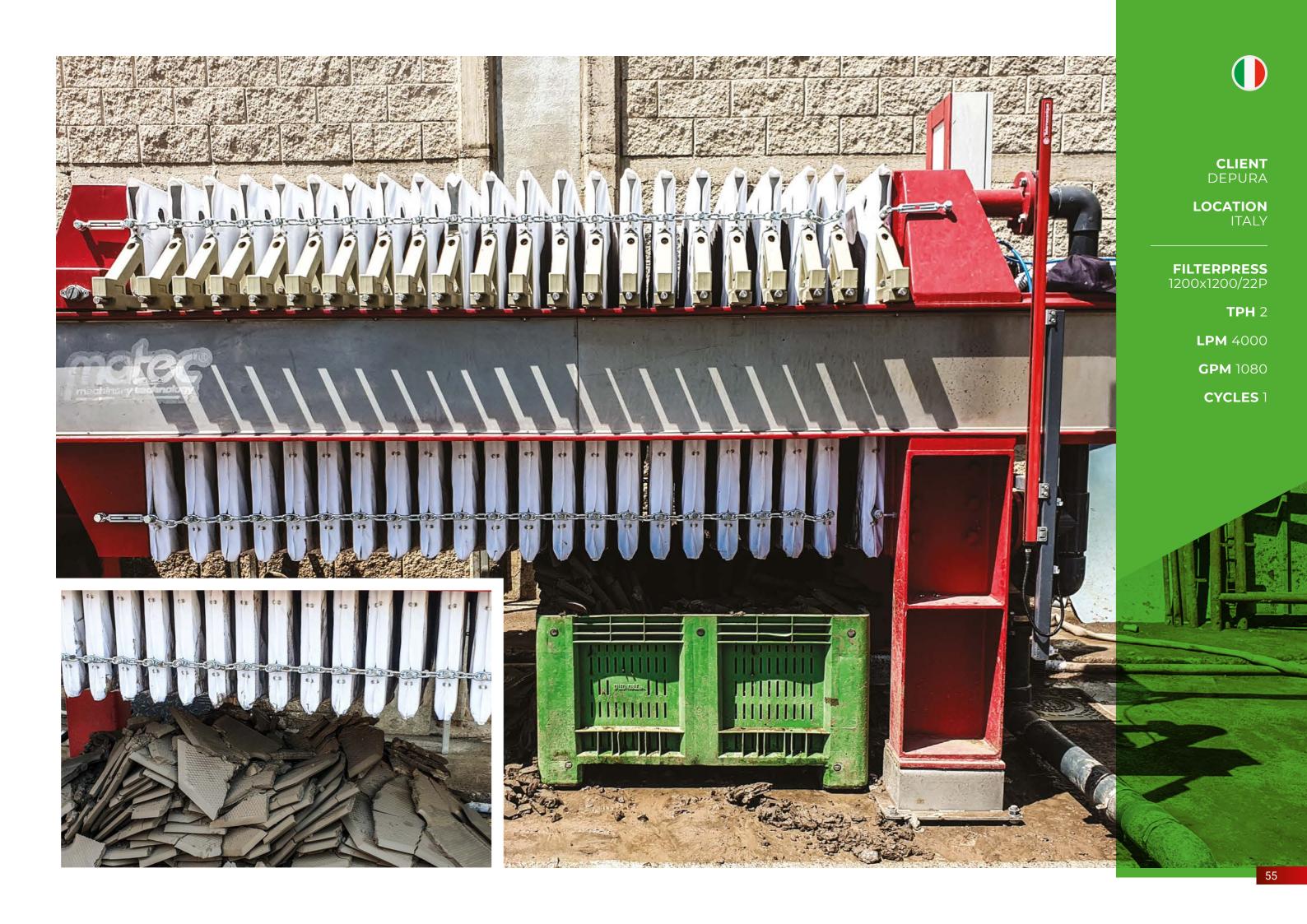
FILTERPRESS
1200X1200/90PX2

TPH 10

LPM 1000

GPM 270







MINING, TAILING & CONCENTRATE DIVISION



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CLIENT RHINO KERCO

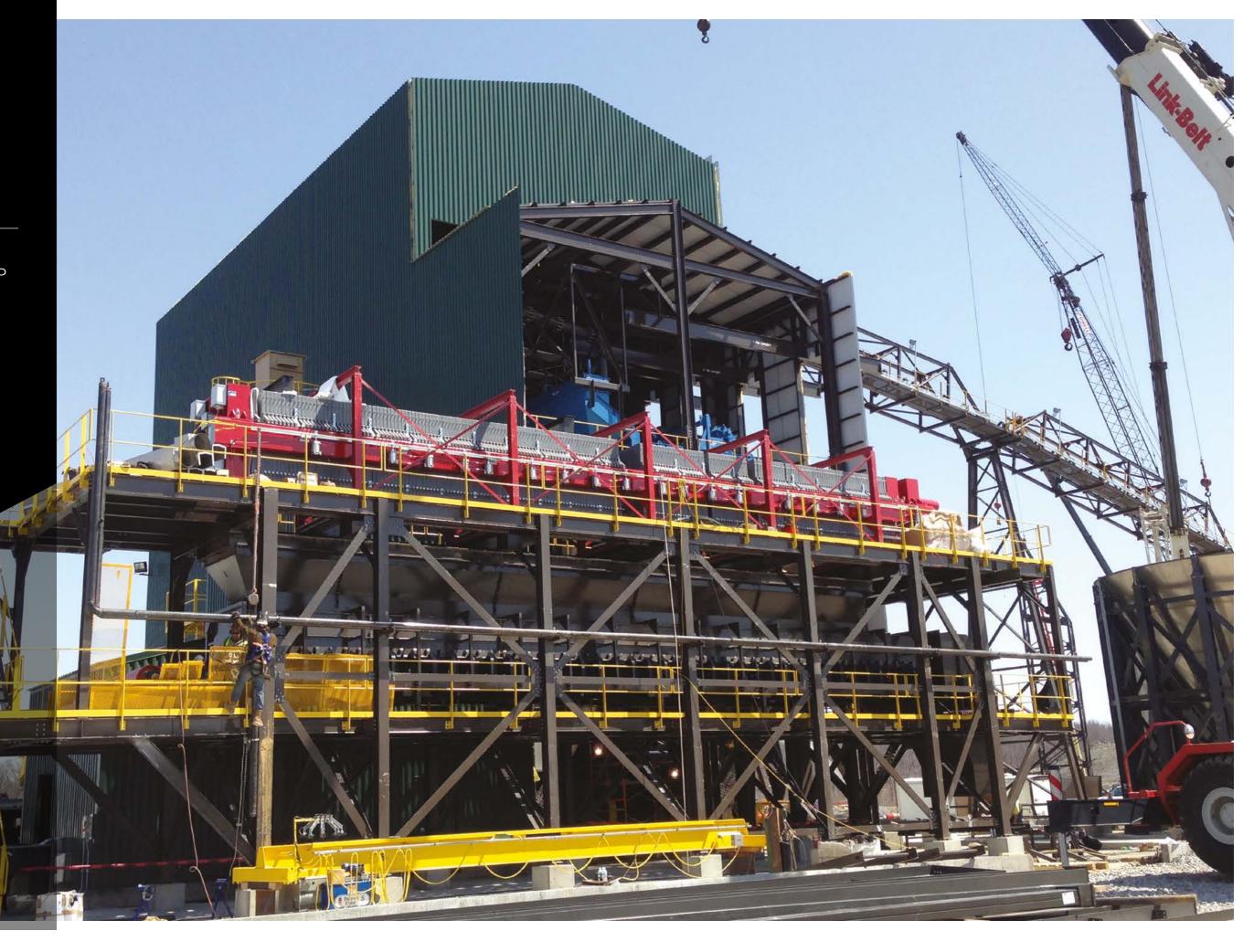
LOCATION USA

FILTERPRESS 1500x1500/180P

TPH 84.5

LPM 74000

GPM 20000







CLIENT VALLOUREC

> LOCATION BRAZIL

FILTERPRESS 1500×1500/140P

TPH 2

LPM 18000

GPM 4800



CLIENTKENTUCKY COAL

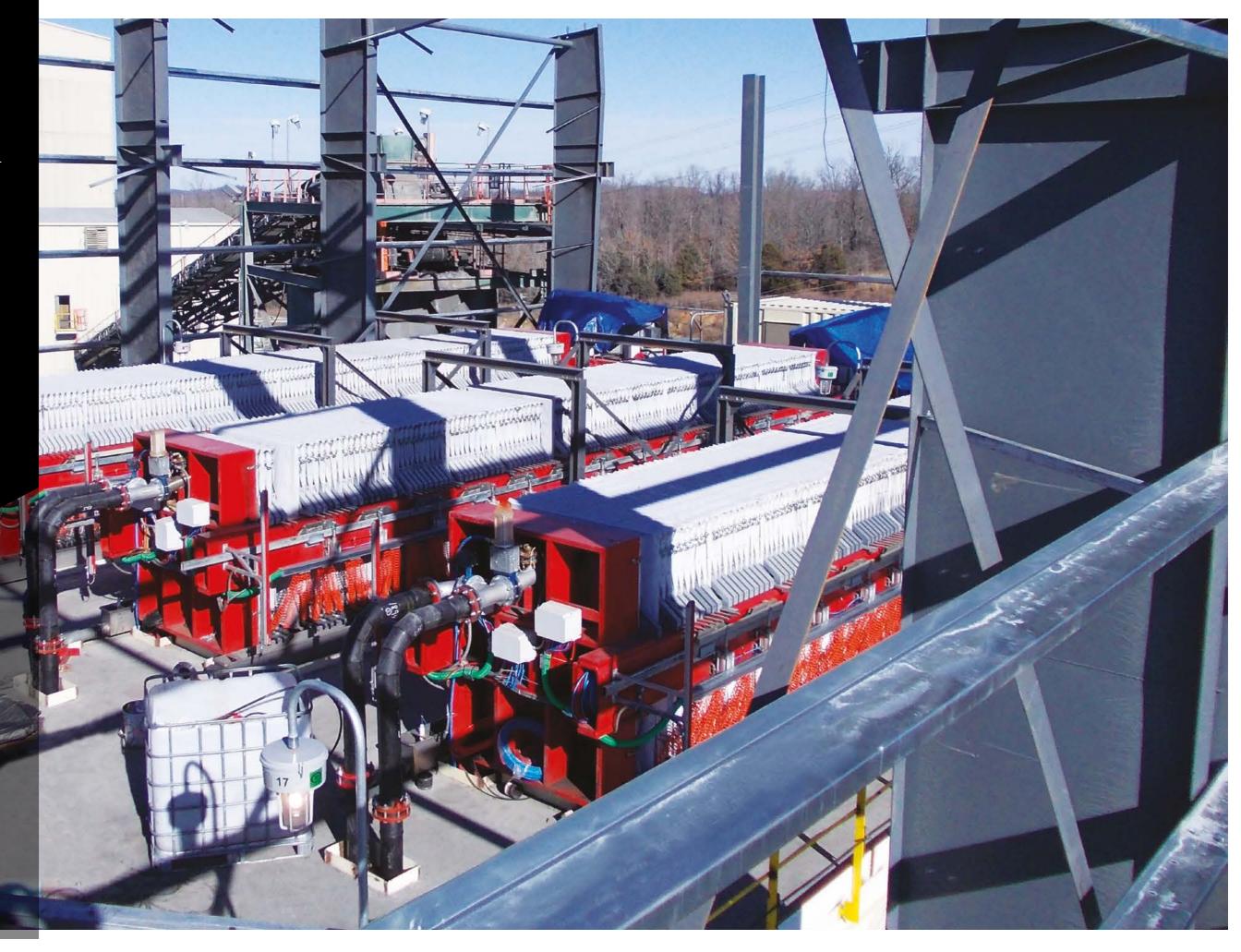
LOCATION USA

FILTERPRESS 1500x2000/130P

TPH 61

LPM 25000

GPM 83000







CLIENT ARCELOR WV

LOCATION USA

FILTERPRESS 1500x1500/170PX2

TPH 83

LPM 8000

GPM 2115







CLIENT JARVIS COAL

> LOCATION USA

FILTERPRESS 1500x1500/100P

TPH 35

LPM 8000

GPM 2200



CLIENT NORSK SANERINGS SERVICE

LOCATION NORWAY

FILTERPRESS 1000x1000/90PX2

TPH 10.32

LPM 52000

GPM 1374









CLIENT CSN 1°

LOCATION BRASIL

FILTERPRESS 2000X2000/190PX4

TPH 550

LPM 20000

GPM 5405







CLIENT GLENCORE

LOCATION SOUTH AFRICA

FILTERPRESS 2000X2000/200PX4

TPH 460

LPM 30000

GPM 8100







CLIENTMETALO MARAO

LOCATIONPORTUGAL

FILTERPRESS 1500X1500/100P

TPH 26

LPM 10000

GPM 2700







CLIENT ALMINA

LOCATIONPORTUGAL

HORIZONTAL THIKNER

Ø 22 MT











In marble, granite and stone working, either in quarries or workshops or stone processing factories, water has multiple applications. From cutting to polishing, water is necessary to avoid the over-heating of tools and reduce dust produced in various processes.

Then, water needs to be treated in order to be re-used in the closed production cycle or to be discharged in the environment safely. Matec filter press is perfect to produce dry cakes with a 15% residual moisture and recover 99% of water, occupying the minimum amount of space.





CLIENTCAESAR STONE

LOCATION ISRAEL

FILTERPRESS 1000x1000/40PX2

TPH 15

LPM 72000

GPM 19000







CLIENT SANTORO MARMI

LOCATION ITALY

FILTERPRESS

1000x1000/20P

TPH 4.5

LPM 7200

GPM 1900



CLIENT FARMINGTON MASONRY

LOCATIONUNITED KINGDOM

FILTERPRESS 500x500/15PX2

TPH 0.66

LPM 600

GPM 160

CYCLES 3









CLIENT AHJAIR

LOCATION EGYPT

FILTERPRESS 800X800/20P

TPH 1.35

CYCLES 2







CLIENT GRAZIANI MARMI

LOCATION ITALY

FILTERPRESS 630x630/30PX2

TPH 1.2

LPM 2400

GPM 650

CYCLES 2







CLIENT BRETON TENNESSEE

LOCATION EGYPT

PLATES 800X800/40P

TPH 2.69

LPM 4000

GPM 1080

CYCLES 2



R2520504





CONCRETE AND TUNNELING



Matec is a leader and the leading producer of hi-tech machinery for filtration of water derived from trucks, mixers, pumps and concrete, and generally all water derived from the process.

Waste water and sludge treatment arising from washing processes in concrete production sites.

Matec designs and manufactures complete CWR (Concrete Water Recycling) filtration plants. By using the filter press, our plants treat waste water and sludge arising from various washing processes.

Matec CWR plants are designed to maximize the returns of concrete production sites and to recover and re-use washing water, which has been clarified automatically and without using chemical additives. Thus we can guarantee cutting down disposal costs, also thanks to the production of dry cakes easy to shovel and move





CLIENT ZIGNEGO

LOCATION USA

FILTERPRESS 630x630/40P

TPH 1.68







CLIENTMETROMONT

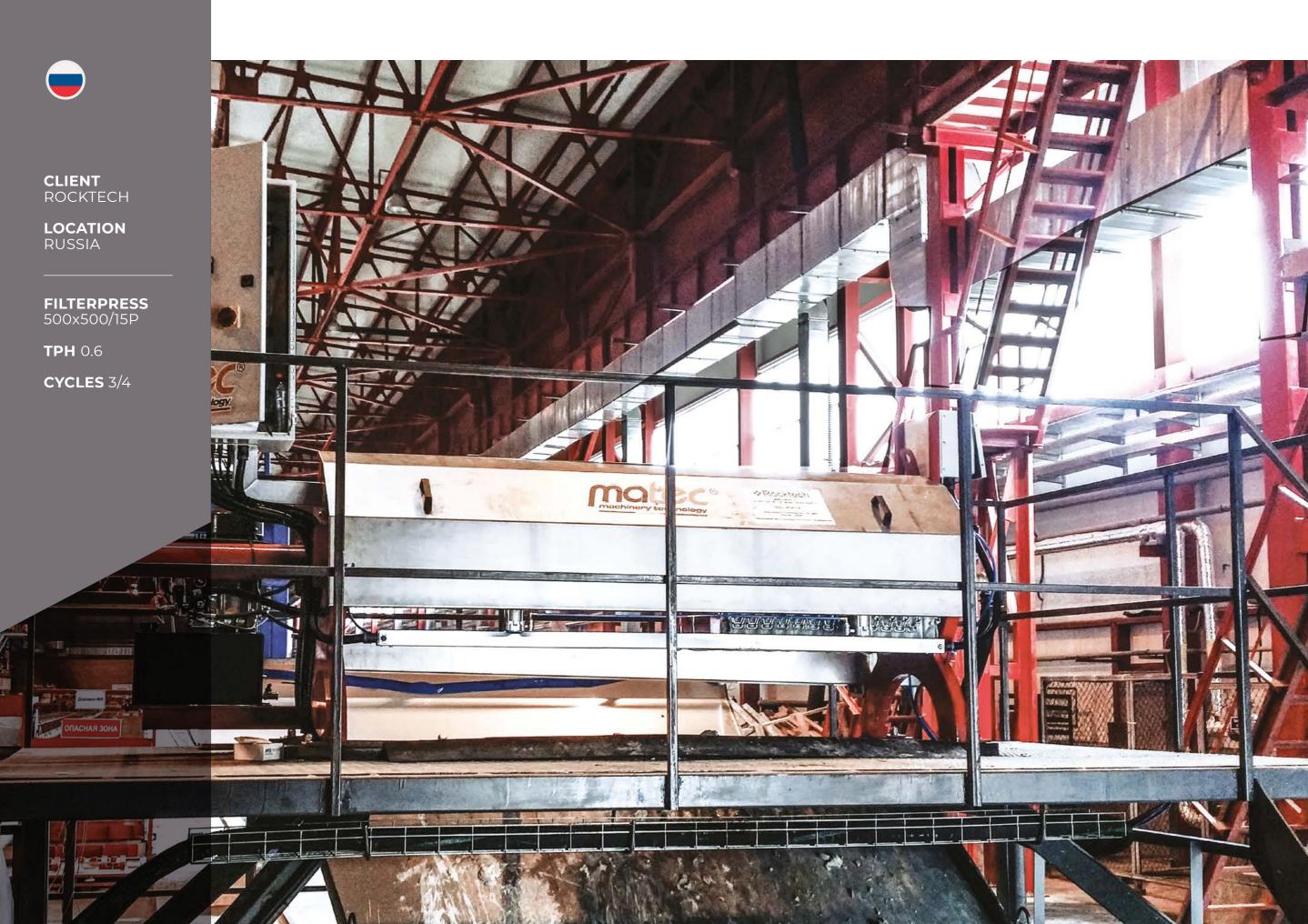
LOCATION USA

FILTERPRESS 400x400/20P

TPH 0.5











CLIENT CONCRETE AUTOMATION TECHNOLOGY

> **LOCATION** USA

FILTERPRESS 630x630/15P

TPH 1.2



CLIENT IMPRESA BAGANASCO

LOCATION ITALY

FILTERPRESS 400x400/15P

TPH 0.5







CLIENTMETROMIX

LOCATION USA

FILTERPRESS 800x800/40P

TPH 4.7

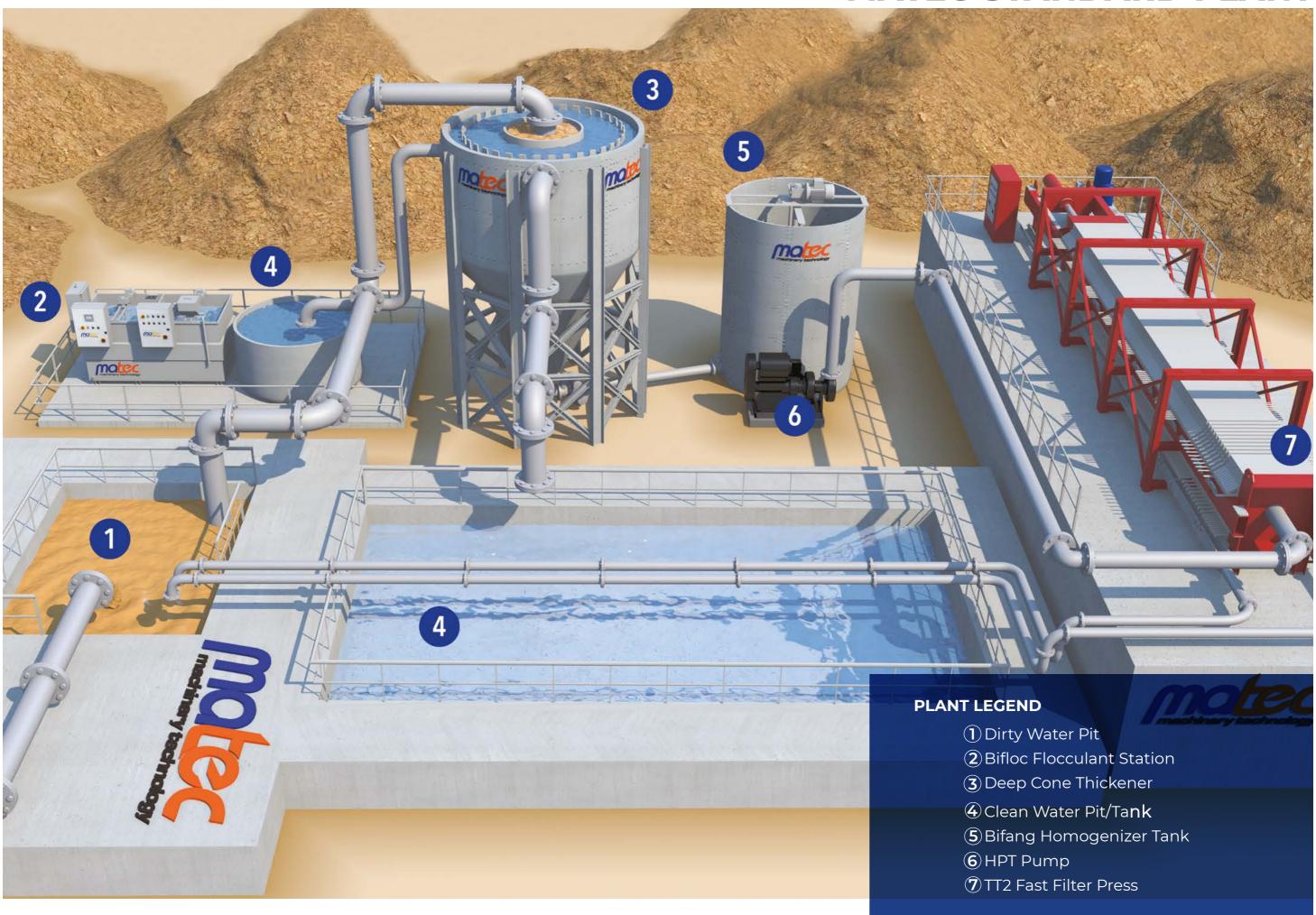




MATEC CONCRETE AND WASHOUT RECOVERY PLANT



MATEC STANDARD PLANT





MINING, **TAILING &** CONCENTRATE **DIVISION**



C&D **RECYCLING** & SOIL **WASHING** DIVISION



AGGREGATES DIVISION



STONE CUTTING, **MARBLE & GRANITE DIVISION**



CONCRETE & TUNNELING DIVISION



GLASS & CERAMICS DIVISION



CHEMICAL, PLASTIC, **INDUSTRIAL DIVISION**





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