



matec[®]
machinery technology



100% MOBILE - 100% CUSTOM - 100% ECO FRIENDLY



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machinery technology



COMPANY PROFILE

MATEC specializes in the design and development of waste water purification and filtration plants. We work for many different industries, the most important are: aggregates, gravel, sand, stone, ceramics and glass. Our mission is the customer's satisfaction. That is why we offer timely after-sale service, as well as before-sale advice to understand the real requirements of our potential customers.

We have installed over 1200 purification and filtration plants all across the world: this is the real guarantee of our production and service quality. We develop ourselves all-inclusive purification and filtration plants. It does not matter the size of your business, our range of machines covers every kind of needs.

We can guarantee the best solution for any project, thanks to the particle-size analysis of sludge and wastewater. Well in advance, MATEC is able to find out and accurately outline all the specifications needed to supply a perfectly-sized plant. Our internal test laboratory works in conjunction with the best private and public research and test facilities.



MATEC Headquarters, Massa - Italy



One of Matec's workshop gates



Filter Press assembling



Matteo Goich, MATEC CEO



Massimo Bertolucci, MATEC CTO



Technical Department



“From the factory
to the working site”

The CUBE loading operations at MATEC's headquarters in Massa - Italy

WHY A MOBILE PLANT

Mobility is an important feature in almost every field of production. Big producers have always felt the need for a filtration plant that can easily change locations.

But the idea of a mobile plant was associated with smaller systems, because designers and engineers had to sacrifice size and consequently the output to guarantee great performances with an attractive price/quality ratio.

WHAT YOU SAVE

- NO ELECTRICAL CABLING
- NO CIVIL WORKS
- FASTER INSTALLATION



FROM THE NEED TO THE CUBE

Matec has always produced small mobile plants which deliver great results. We perceived the need of our clients for a mobile plant with the same features of our largest filter press filtration systems. That is why we have created the Cube.

*“Ready to work
in 24 hours”*

Side view of the CUBE plant already installed in Poland.

THE CUBE DESIGN

Matteo Goich and Massimo Bertolucci, the Matec founders, wanted to develop a product which may revolutionize the filtration sector in a few years.

After over 15 years working on any kind of filtration projects, they decided it was the right time to put their experience into practice.

BEHIND THE CUBE

The technical and manufacturing skills of Matec's highly skilled team of engineers and workers have been essential to creating the Cube. We have chosen this name for our mobile plant because the cube can be immediately associated to something easy to move and with a precise component structure that is simple to combine.

The complete container-based plant best serves the demand of customers with portability needs and large capacities or flow rates.



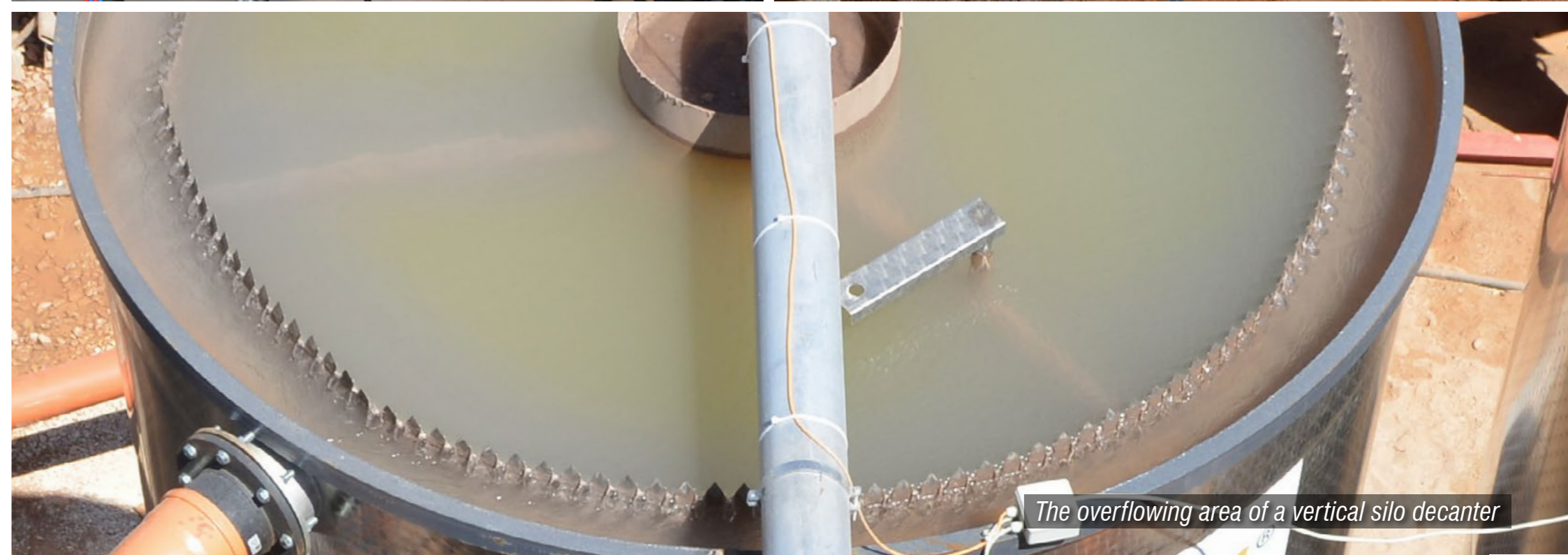
Aerial view of the Poland plant



The DOSON System and its control panel



Conveyor system to carry out the dry mud



The overflowing area of a vertical silo decanter



“Footprint reduced to the minimum”

Aerial view of the portable vertical silo decanters in linear configuration



“No civil works
needed”

Some of the containers the CUBE consists of (Filter press, Bifang and Clean water ones)

THE BENEFITS OF A MATEC MOBILE PLANT

It is easy to list the great benefits of the Cube compared to the standard filtration plant.

If mobility cannot be stressed enough as the most important feature this plant can offer, there are also other advantages which make it a cutting-edge product in the field of filtration.

The cube benefits are:

- 100% MOBILE
- PRE-CABLED
- READY TO WORK (plug & work)



THE "PIECES" OF THE CUBE

The Cube consists of a number of containers, from 3 to 10. The core of the plant is the filter press, as always, for which we dedicate one or more containers (according to the number of machines). The other parts of the Cube are: the decanter(s), the Bifloc system, the Bifang system, the dirty water tank and the clean water tank.

MATEC HTP FILTER PRESS

The compact and proven solution for highest throughput and driest cake results with an integrated removal system.

DECANTER

Made of stainless steel and perfectly sized even for the mobile application, the Matec decanter guarantees great results in terms of water clarification

BIFLOC

The MATEC flocculant preparation system that is fully integrated in one container.

BIFANG

The Bifang container may house multiple homogenizer tanks to keep the sludge at the perfect thickness for the filter press.

DIRTY WATER CONTAINER

Container that receives the waste water and slurry to be treated.

CLEAN WATER CONTAINER

Container for the clarified water, also the clean water source for the flocculant preparation.

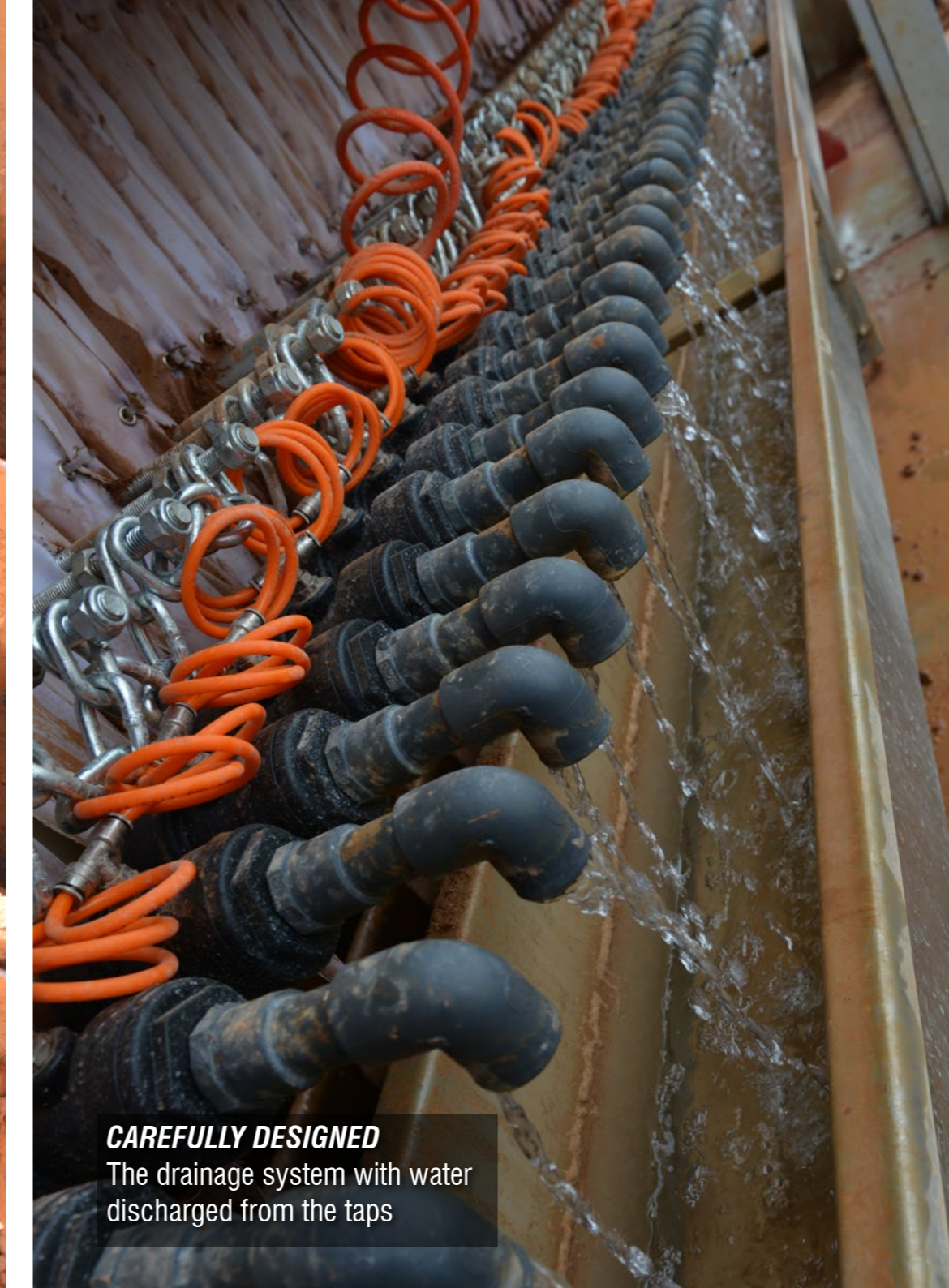




PERFECTLY SIZED
A closer look at the filter press perfectly fitting in its container



AS PRODUCTIVE AS ALWAYS
The screw of the conveyor system below the filter press



CAREFULLY DESIGNED
The drainage system with water discharged from the taps

ATTENTION TO DETAILS

The CUBE plant uses the same “hardware” of a fixed plant:

- Thick iron to withstand HPT pressure;
- Single chamber drainage system;
- Accessories to perfect plant.

The same quality is obtained through the attention to details, perfection was required for an ambitious project and an ambitious design.

SECTORS

Apart from the usual sectors, the CUBE can be largely used in the following applications:

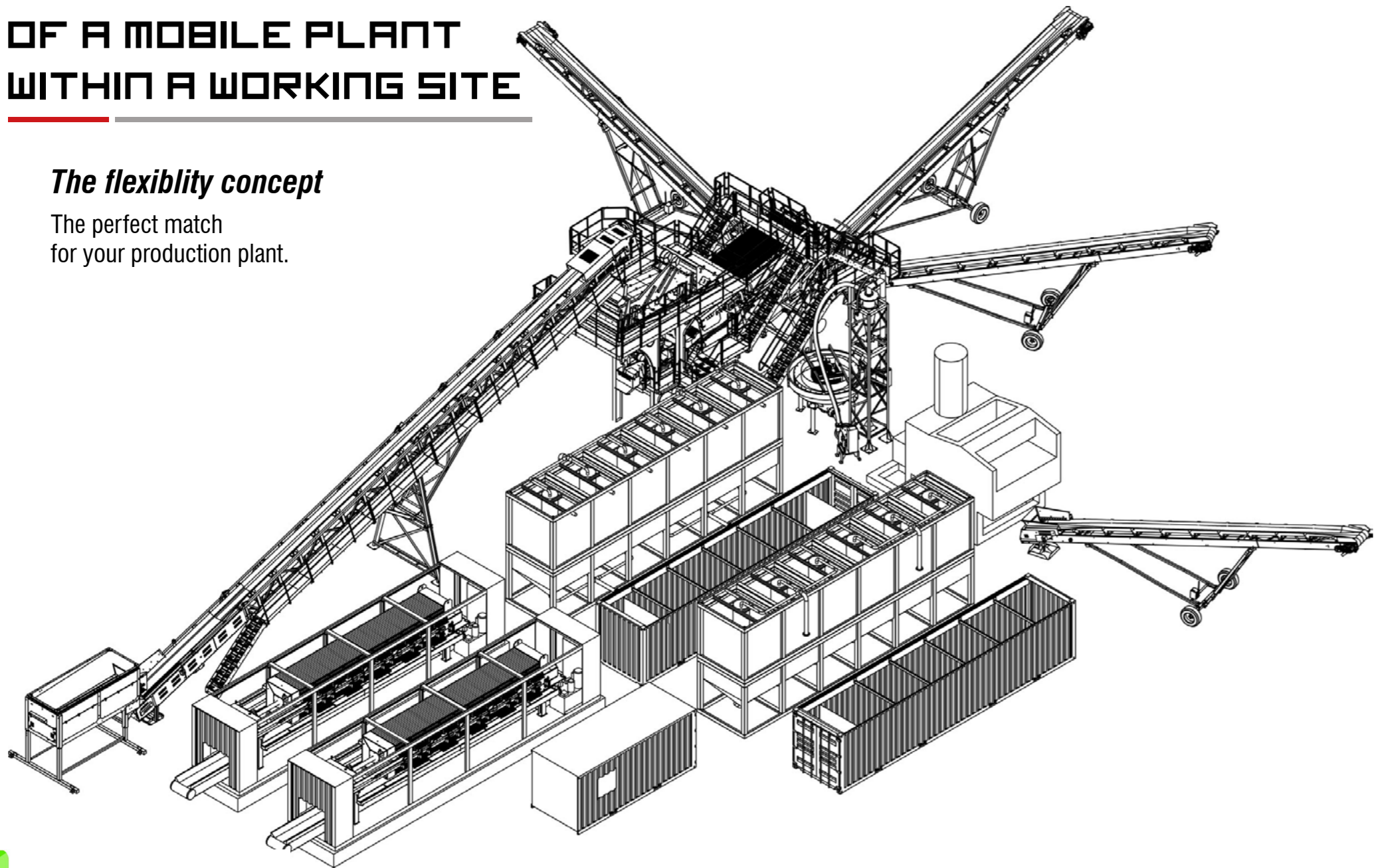
- *TEMPORARY WORK*
- *DREDGING*



RENDERING OF A MOBILE PLANT WITHIN A WORKING SITE

The flexibility concept

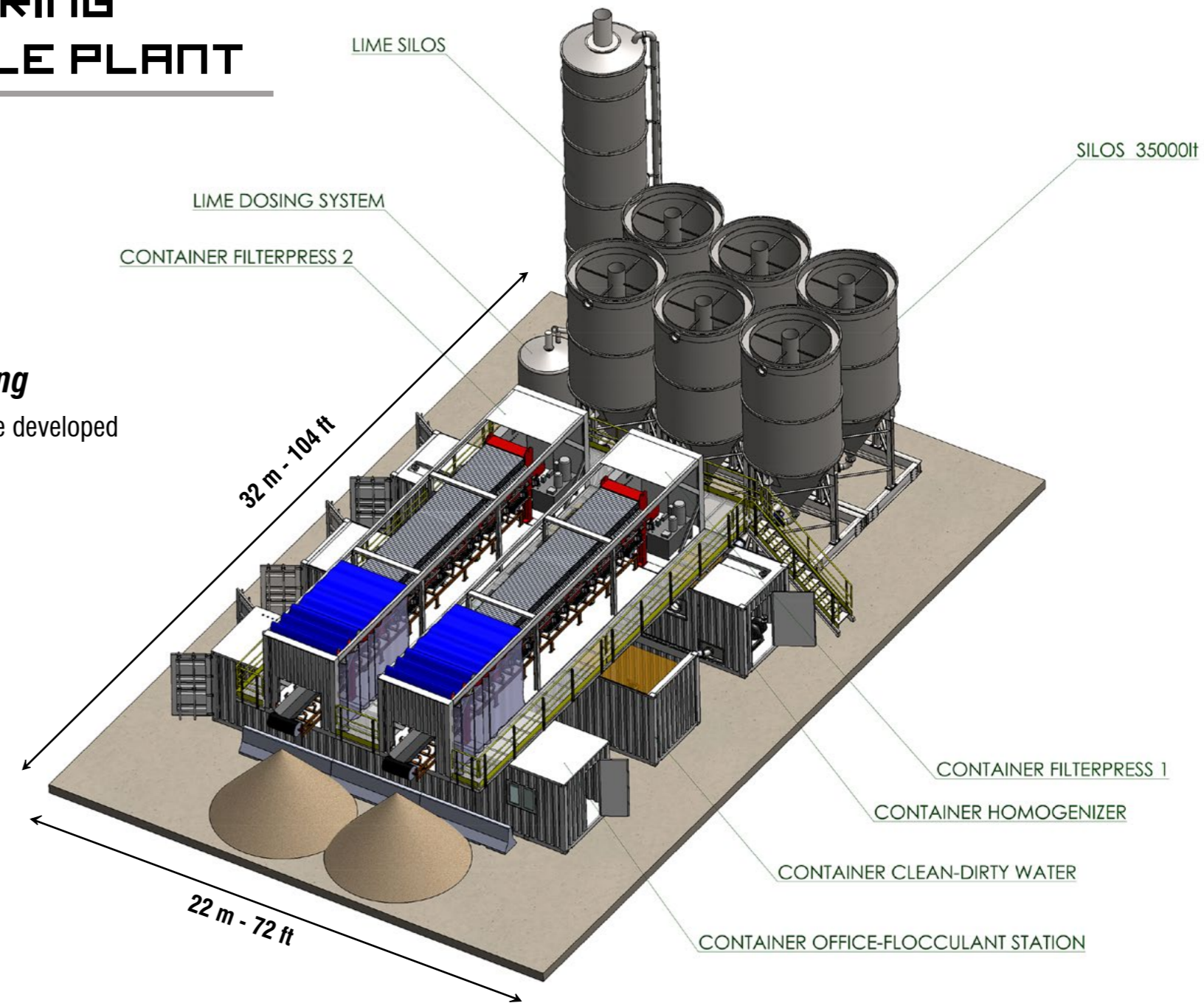
The perfect match
for your production plant.



3D RENDERING OF A MOBILE PLANT

Great engineering

Skilled engineers have developed
the slightest details.



CUBE: STANDARD SPECIFICATIONS

| Filterpress Model | Container Length (mm - ft) | Container Width (mm - ft) | Container Height (mm - ft) | Dry Weight (kg - lb) | Chamber Volume (l - gal) | Capacity per cycle (l - gal) | m ³ /h (2,5 cycles) | Ton/h |
|----------------------|----------------------------|---------------------------|----------------------------|----------------------|--------------------------|------------------------------|--------------------------------|-------|
| CUBE IGNIS 800x800 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 17000 - 37500 | 18,2 - 4,8 | 2184 - 577 | 5,46 | 10 |
| CUBE IGNIS 1000x1000 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 18000 - 39700 | 29,1 - 7,7 | 3492 - 922 | 8,73 | 14 |
| CUBE TERRÆ 1300x1300 | 13800 - 45' | 2350 - 7' 9" | 2700 - 8' 11" | 29000 - 64000 | 47,3 - 12,5 | 5676 - 1500 | 14,19 | 20 |
| CUBE TERRÆ 1500x1500 | 13800 - 45' | 2350 - 7' 9" | 2700 - 8' 11" | 35000 - 77200 | 63,1 - 16,7 | 7572 - 2000 | 18,93 | 30 |
| CUBE TERRÆ 1500x2000 | 13800 - 45' | 2350 - 7' 9" | 2700 - 8' 11" | 40000 - 88200 | 84,7 - 22,4 | 10164 - 2685 | 25,53 | 40 |

| Decanter Model | Diameter (mm - ft) | Total Height (mm - ft) | Cone Height (mm - ft) | 1 Container Volume (m ³) | 2 Container Volume (m ³) | 3 Container Volume (m ³) | 6 Container Volume (m ³) |
|-----------------|--------------------|------------------------|-----------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| ROUND 20 | 2350 - 7,7 | 4000 - 13,1 | 2000 - 6,6 | 20 | 40 | 60 | 120 |
| ROUND 40 | 2350 - 7,7 | 9000 - 29,5 | 2000 - 6,6 | 42 | 84 | 126 | 252 |
| ROUND 20 FLAT | 2500 - 8,2 | 4000 - 13,1 | 2000 - 6,6 | 23 | 46 | 69 | 138 |
| ROUND 40 FLAT | 2500 - 8,2 | 9000 - 29,5 | 2000 - 6,6 | 50 | 100 | 150 | 300 |
| ROUND 20 EUROPE | 3000 - 9,9 | 6000 - 19,7 | 2000 - 6,6 | 47 | 94 | 141 | 282 |
| ROUND 40 EUROPE | 3000 - 9,9 | 9000 - 29,5 | 2000 - 6,6 | 70 | 140 | 210 | 420 |

| Decanter Model | Container Length (mm - ft) | Container Width (mm - ft) | Container Height (mm - ft) | Container Number | Volume (m ³) |
|----------------|----------------------------|---------------------------|----------------------------|------------------|--------------------------|
| SQUARE 100 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 2 | 100 |
| SQUARE 200 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 4 | 200 |
| SQUARE 300 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 6 | 300 |
| SQUARE 400 | 12200 - 40' | 2350 - 7' 9" | 2700 - 8' 11" | 8 | 400 |

Any project can be customized in accordance to the client's requirements, including filter press number and dimensions, decanters.

Round decanters can be transport it by truck, whereas square ones can be installed and moved in container or flat reek.



Screws to carry out the dry mud



Belt to collect and convey the mud cakes



4x4 off-road demountable filterpress

MARBOLINE 100% MOBILE

The Matec 100% mobile plant on skid "MARBOLINE" is designed and manufactured for the quarry, in which there are different collecting points for water and plant mobility is an essential requirement. The plant is an efficient solution also for stone processing workshops.

Through a complete and compact solution, Matec guarantees great results in terms of quantity and quality to recover and reuse the water used for quarrying and processing. Meanwhile, the dry cake output can be disposed of easily and cheaply.

A Matec plant on skid installs one ACQUÆ 400 filter press with a variable number of plates and also all the other components a complete and compact system for the purification and filtration of water consists of.

100% AUTOMATIC

100% MOBILE

NO CIVIL WORKS

PRE-WIRED

Every project is fully customizable in its configuration

ACQUÆ 400X400 FILTER PRESS



VERTICAL DECANTER TANK



FLOCCULANT & DOSON SYSTEM



THE CUBE RANGE MARBOLINE



| Acquæ 400x400 Model | Total Length (mm) | Total Width (mm) | Footbase Length (mm) | Footbase Width (mm) | Total Height (mm) | Dry Weight (Kg) | Chamber Volume (Litri) | Capacity per cycle (Litri) | m³ per cycle | Ton per cycle |
|---------------------|-------------------|------------------|----------------------|---------------------|-------------------|-----------------|------------------------|----------------------------|--------------|---------------|
| 400/3 | 1290 | 770 | 510 | 430 | 800 | 350 | 4,2 | 12,60 | 0,02 | 0,03 |
| 400/5 | 1620 | 770 | 740 | 430 | 800 | 350 | 4,2 | 21,00 | 0,03 | 0,04 |
| 400/10 | 2560 | 770 | 1320 | 430 | 800 | 450 | 4,2 | 42,00 | 0,04 | 0,08 |
| 400/15 | 3510 | 770 | 1930 | 430 | 800 | 500 | 4,2 | 63,00 | 0,07 | 0,11 |



Start Up of the pilot system in Carrara



The mobile decanter

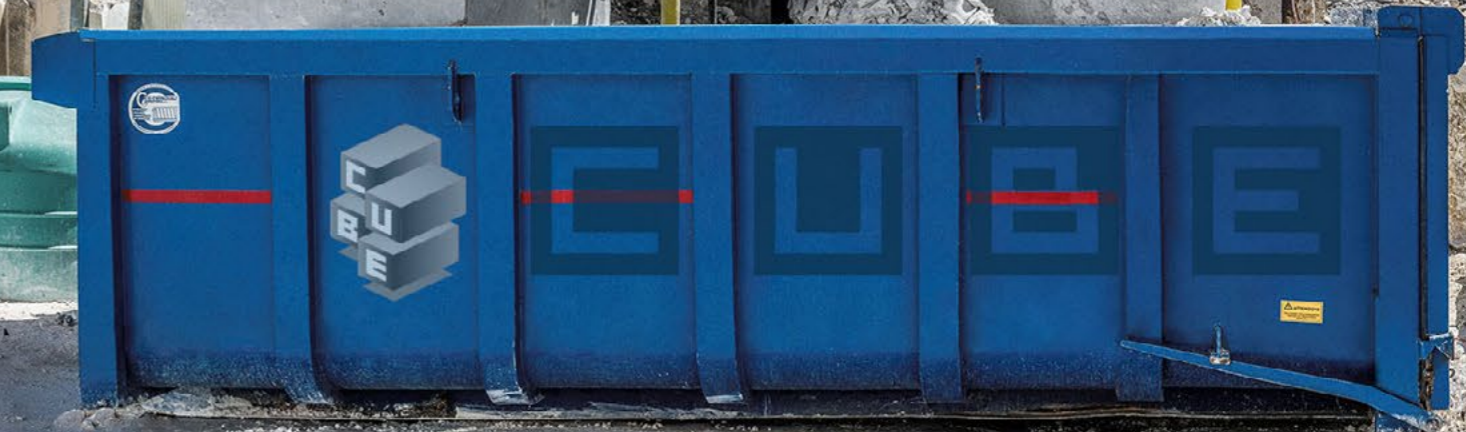


Cava Gioia Quarry - The first setting of the MARBOLINE project

matec®
machinery technology

“ Industry and environment
must coexist ”


**OFF-ROAD
FILTERPRESS**



TECHNICAL SUPPORT

Thanks to our highly skilled engineers, our global supplying/dealing network and our factory service personnel we can guarantee you an extensive range of services whenever you require them. Whatever business is yours it is important to us.

Matec provides all supplying/dealing service staff with a comprehensive training program. Our staff is equipped with the correct skills, exhaustive knowledge, methods and practices to support with pre-sales and after-sales service.

QUALITY & WARRANTY


Matec equipment is rigorously tested, with high quality standards set for each step of the manufacturing process from design to distribution. Thus we can guarantee high quality and reliability.

If you experience problems with our equipments, your local supplier can access the online warranty system to solve the problem as soon as possible. Your feedback will be also incorporated into our R&D program to continue the development of our products.



24 MONTHS
GUARANTEE





EMERALD

MODULAR EQUIPMENT

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