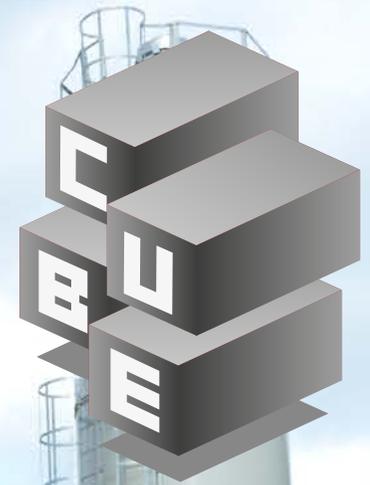


# matec<sup>®</sup>

*machinery technology*



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



matec  
machinery technology

matec<sup>®</sup>  
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*



*Welding operations in MATEC's workshop*



*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.



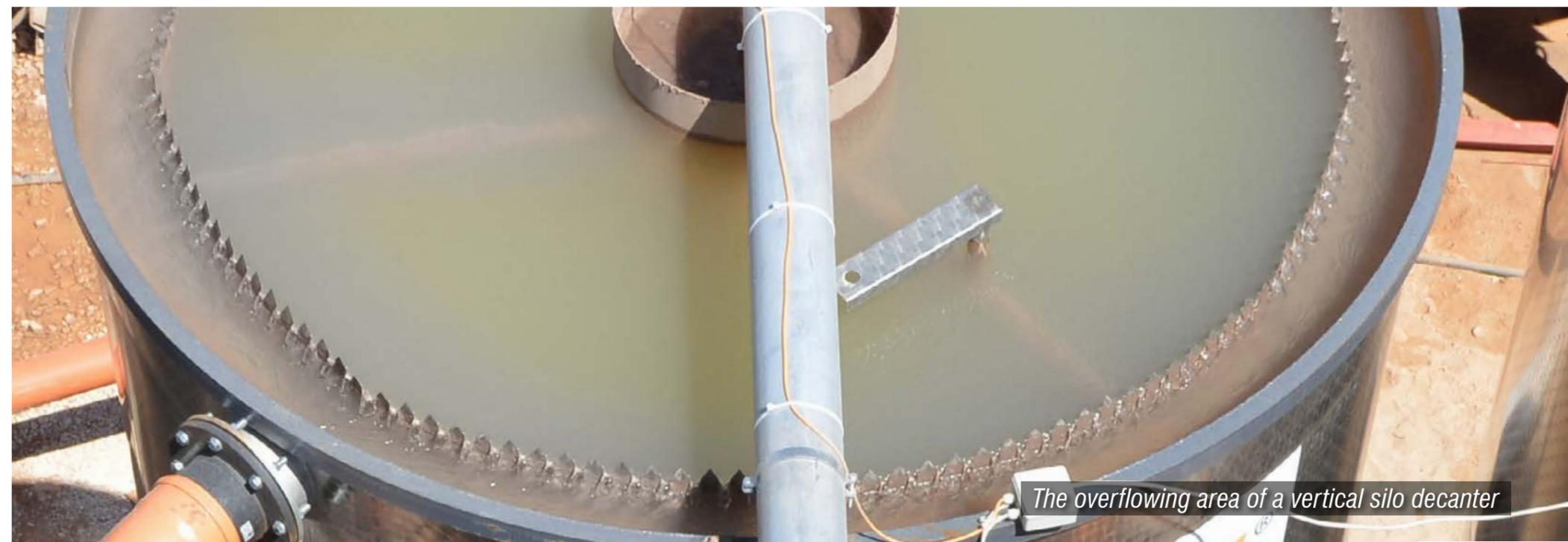
*Aerial view of the Poland plant*



*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.





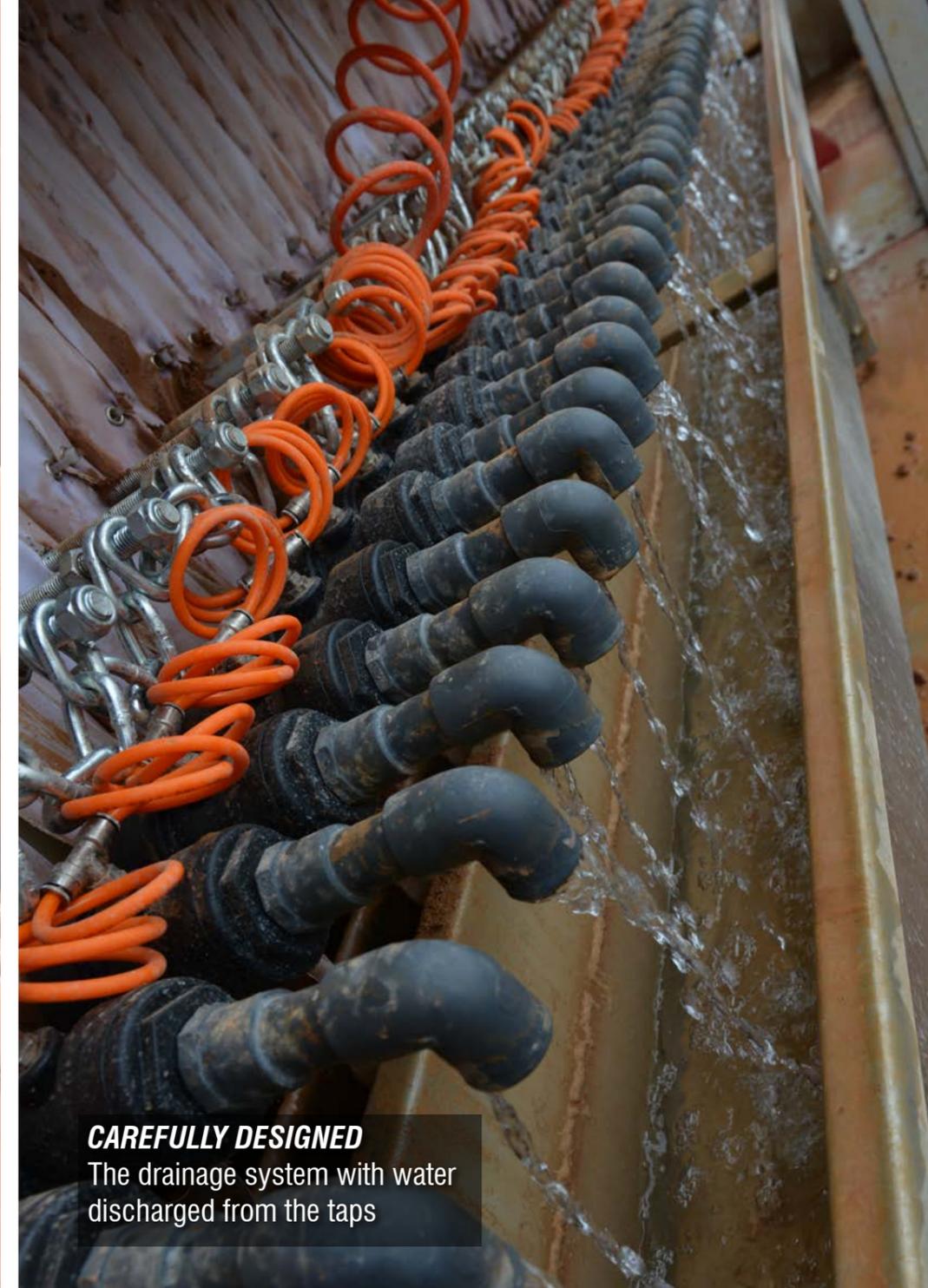
#### **PERFECTLY SIZED**

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**

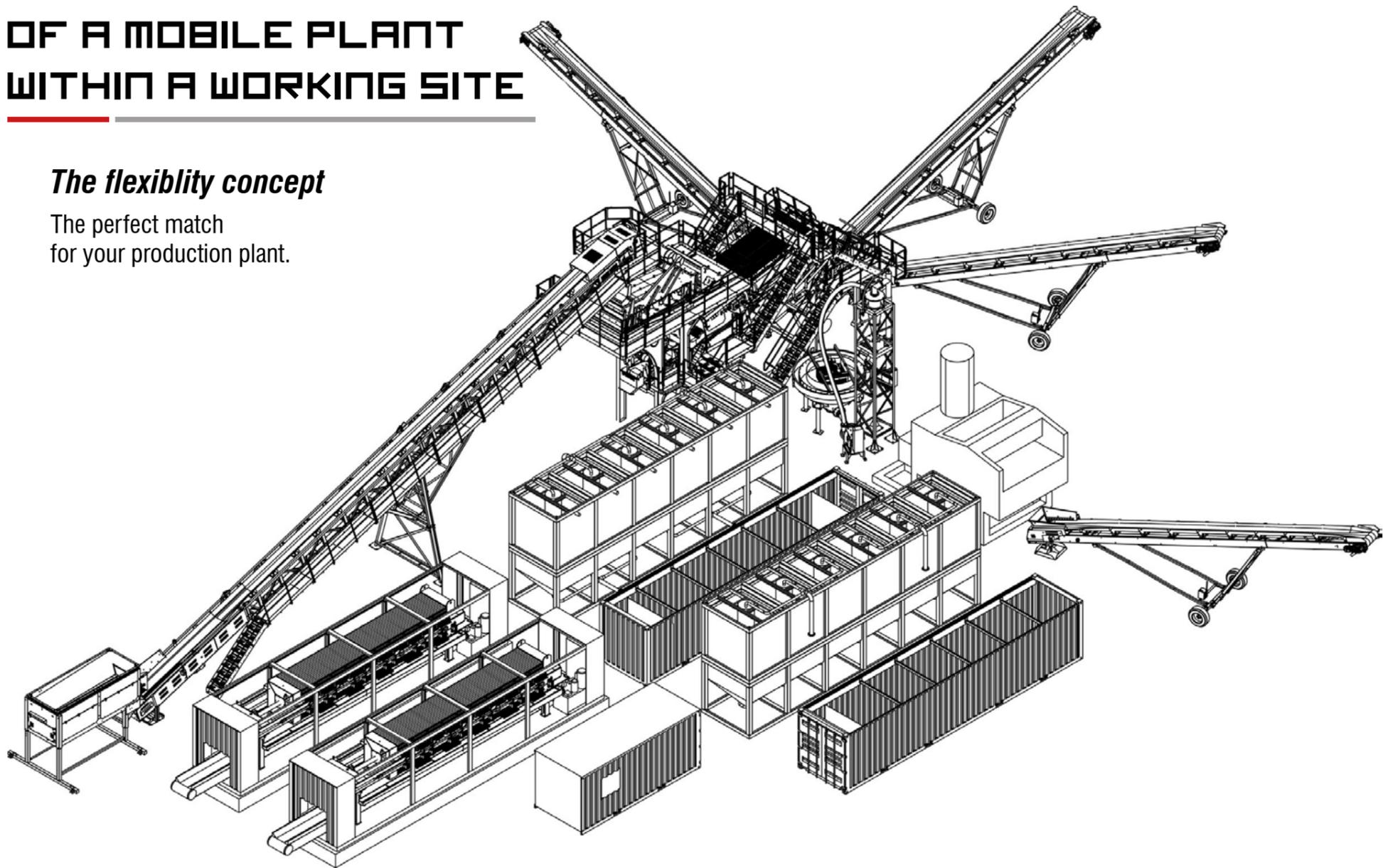
Apart from the usual sectors, the CUBE can be largely used in the following applications:

- **TEMPORARY WORK**
- **DREDGING**

## RENDERING OF A MOBILE PLANT WITHIN A WORKING SITE

### *The flexibility concept*

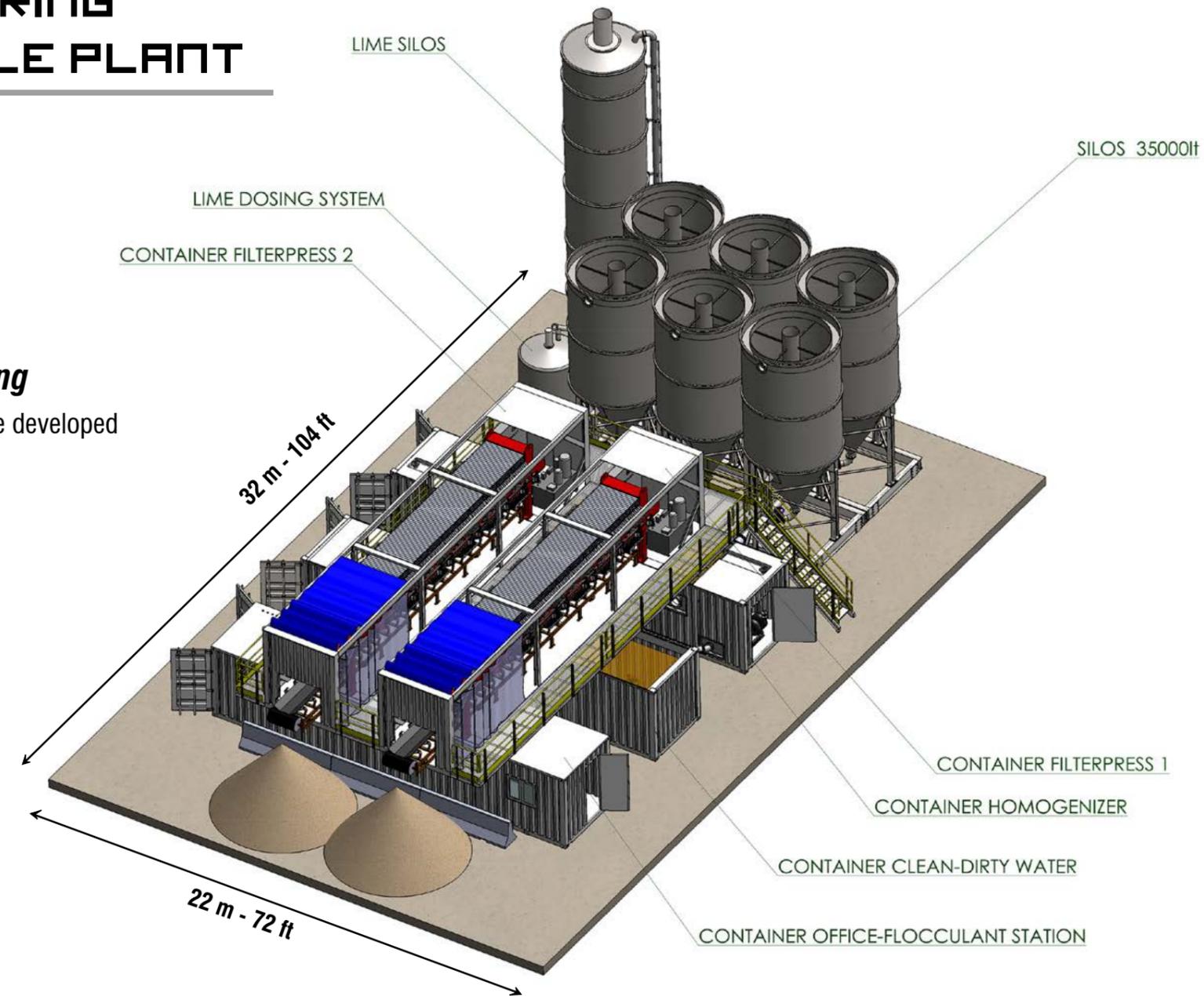
The perfect match  
for your production plant.



## 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 <sup>3</sup> /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 <sup>3</sup> )	2 Container Volume (m <sup>3</sup> )	3 Container Volume (m <sup>3</sup> )	6 Container Volume (m <sup>3</sup> )
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 <sup>3</sup> )
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 reck.*

## 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.



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