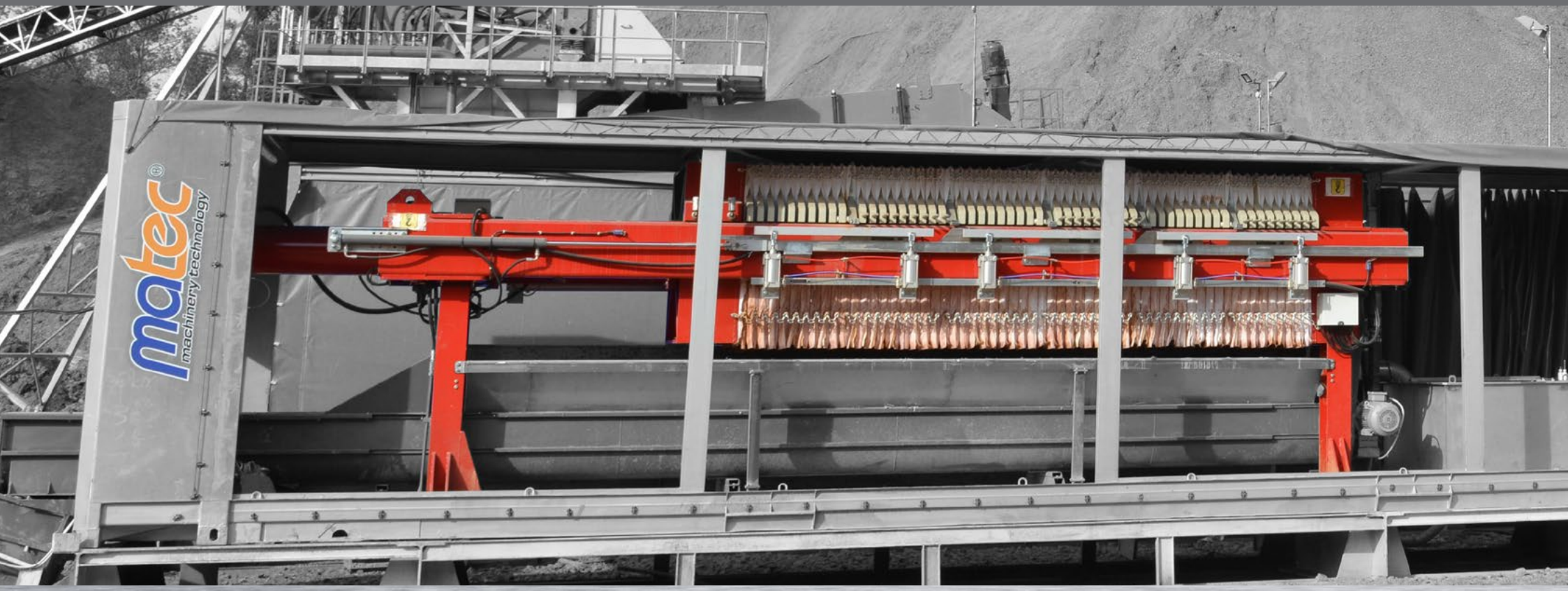
matec®
machinery technology



100% MOBILE

matec
machinery technology

"From the factory to the working site"

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

WHY A MOBILE PLANT

Mobility is a feature which is considered important in almost every field of production and big producers have always felt the need for a filtration plant that can be moved to different areas.

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

FROM THE NEED TO THE CUBE

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

WHAT YOU SAVE

- NO ELECTRICAL CABLING
- NO CIVIL WORKS
- FASTER INSTALLATION

"Ready to work in 24 hours"

Side view of the CUBE plant already installed in Poland.

THE CUBE DESIGNING

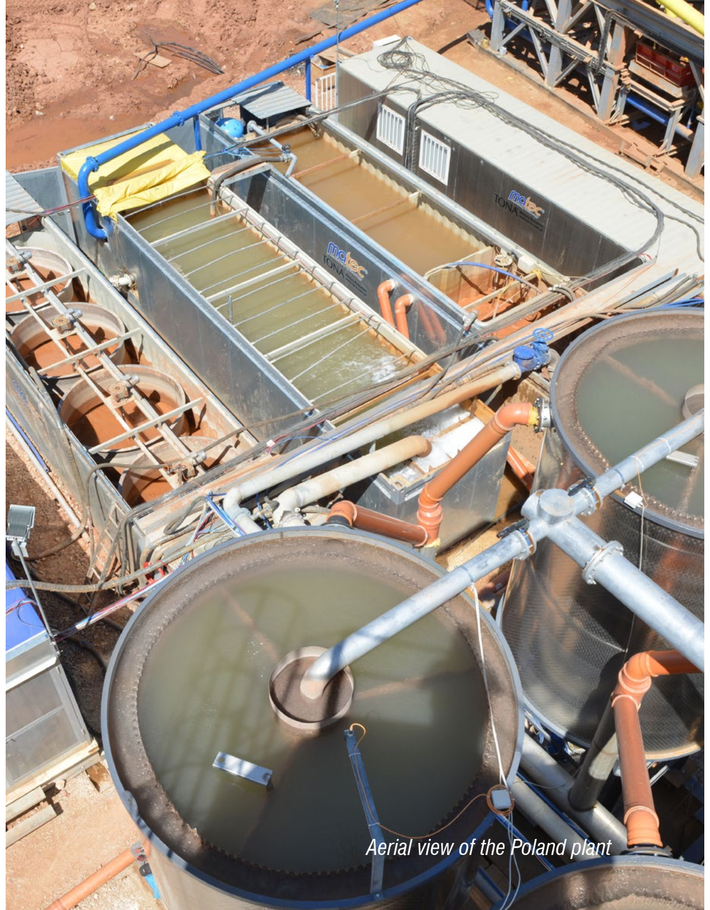
Matteo Goich and Massimo Bertolucci, the Matec's founders, wanted to develop a product which may revolutionize the filtration sector in few years.

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

BEHIND THE CUBE

The technical and manufacturing skills of Matec high-qualified team of engineers and workers have been essential to create the Cube. We have chosen this name for our mobile plant because the cube can be easily associated to something easy to move and with a precise structure easy 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

"No civil works needed"

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

THE BENEFITS OF 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, the Bifang, the dirty water tank and the clean water tank.

FILTER PRESS
The best solution to filtrate slurry and waste water, in the Cube version presents a taller framework, to allow the placing of a system for the removal of the dry cakes below it.

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

BIFLOC
The plant for the preparation of flocculant mixture can be easily integrated into a container due to its limited size.

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 and the clean water for the flocculant preparation.

Terrae 1300x1300 Filter press inside its container

Vertical Silo Decanters

Bifloc container (DOSON System detail)

Bifang container

Dirty Water container

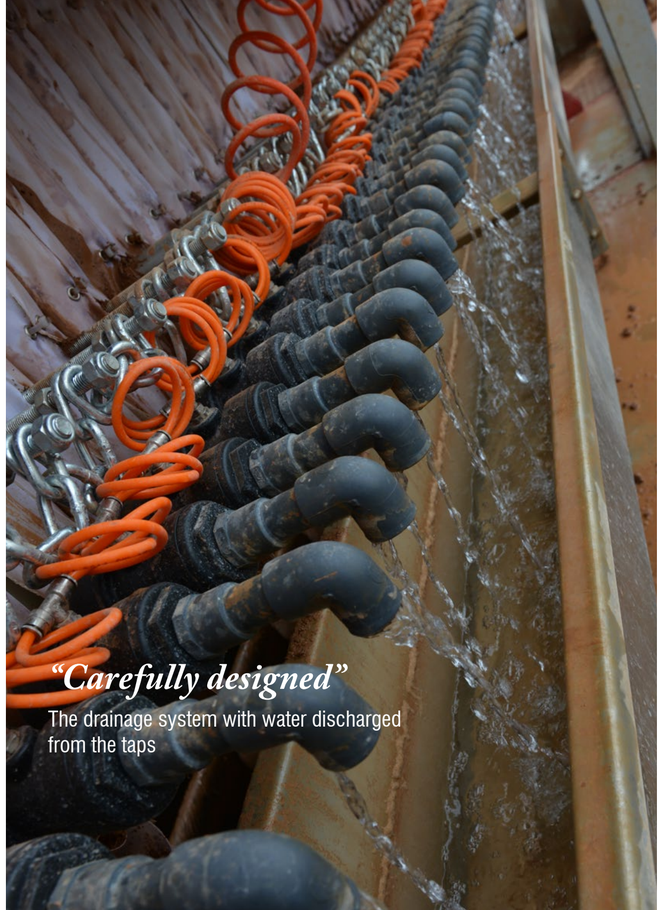
Clean Water container

"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

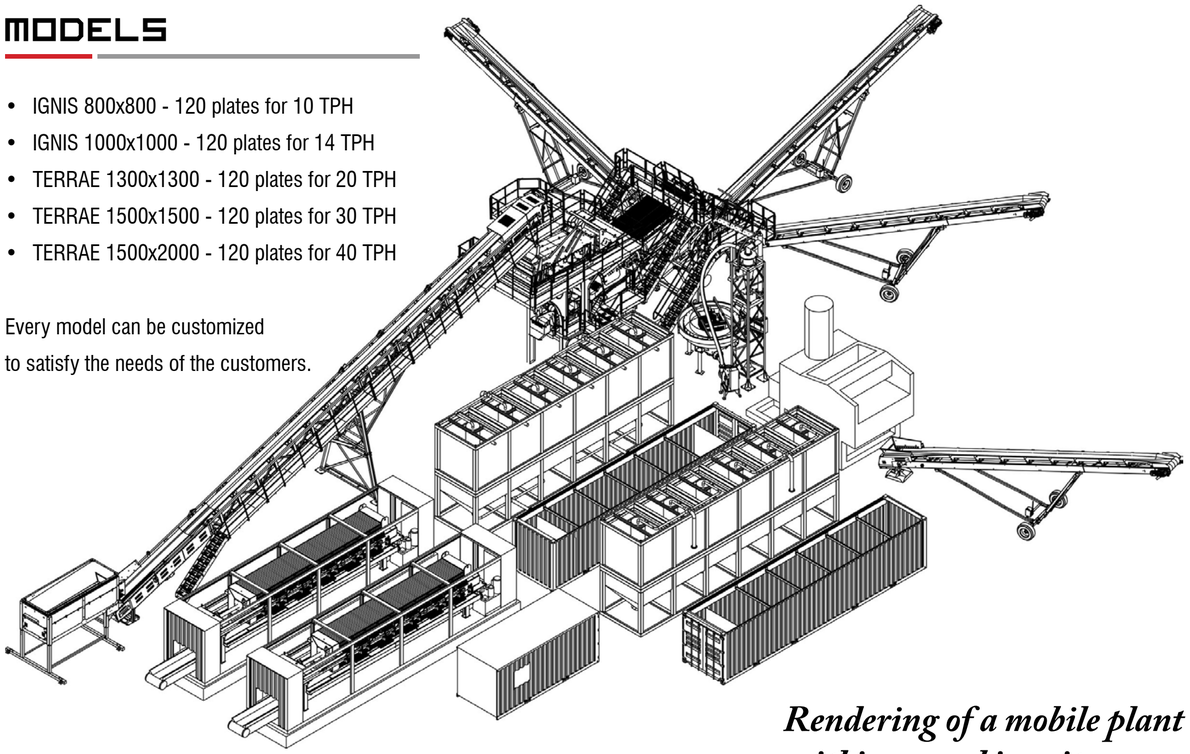
The CUBE plant can show the same "hardware" of a fixed plant. From the thick iron, to guarantee a strong framework able to sustain the high pressure, to the drainage system, which allows the customer to see the results in terms of clean water, and the accessories, which can also be installed on the mobile version of the filter press.

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

THE FILTER PRESS MODELS

- IGNIS 800x800 - 120 plates for 10 TPH
- IGNIS 1000x1000 - 120 plates for 14 TPH
- TERRAE 1300x1300 - 120 plates for 20 TPH
- TERRAE 1500x1500 - 120 plates for 30 TPH
- TERRAE 1500x2000 - 120 plates for 40 TPH

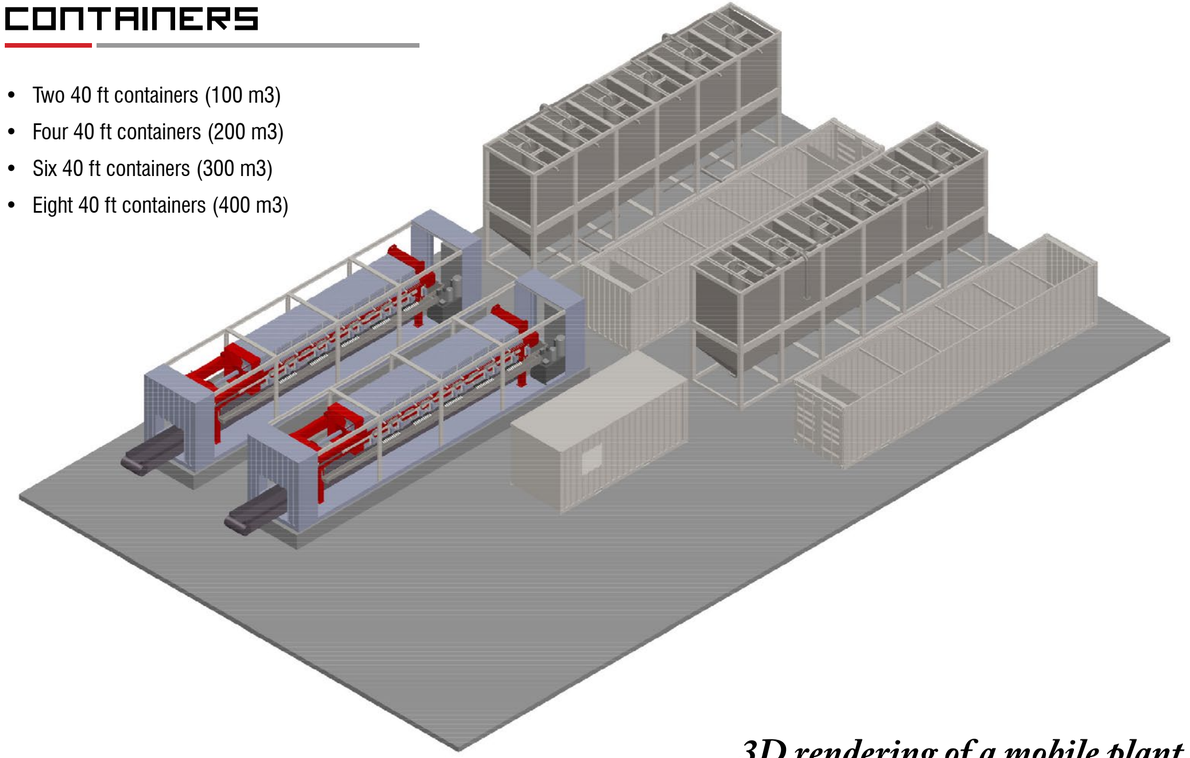
Every model can be customized
to satisfy the needs of the customers.



Rendering of a mobile plant within a working site

THE SILO DECANTER CONTAINERS

- Two 40 ft containers (100 m3)
- Four 40 ft containers (200 m3)
- Six 40 ft containers (300 m3)
- Eight 40 ft containers (400 m3)



3D rendering of a mobile plant

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