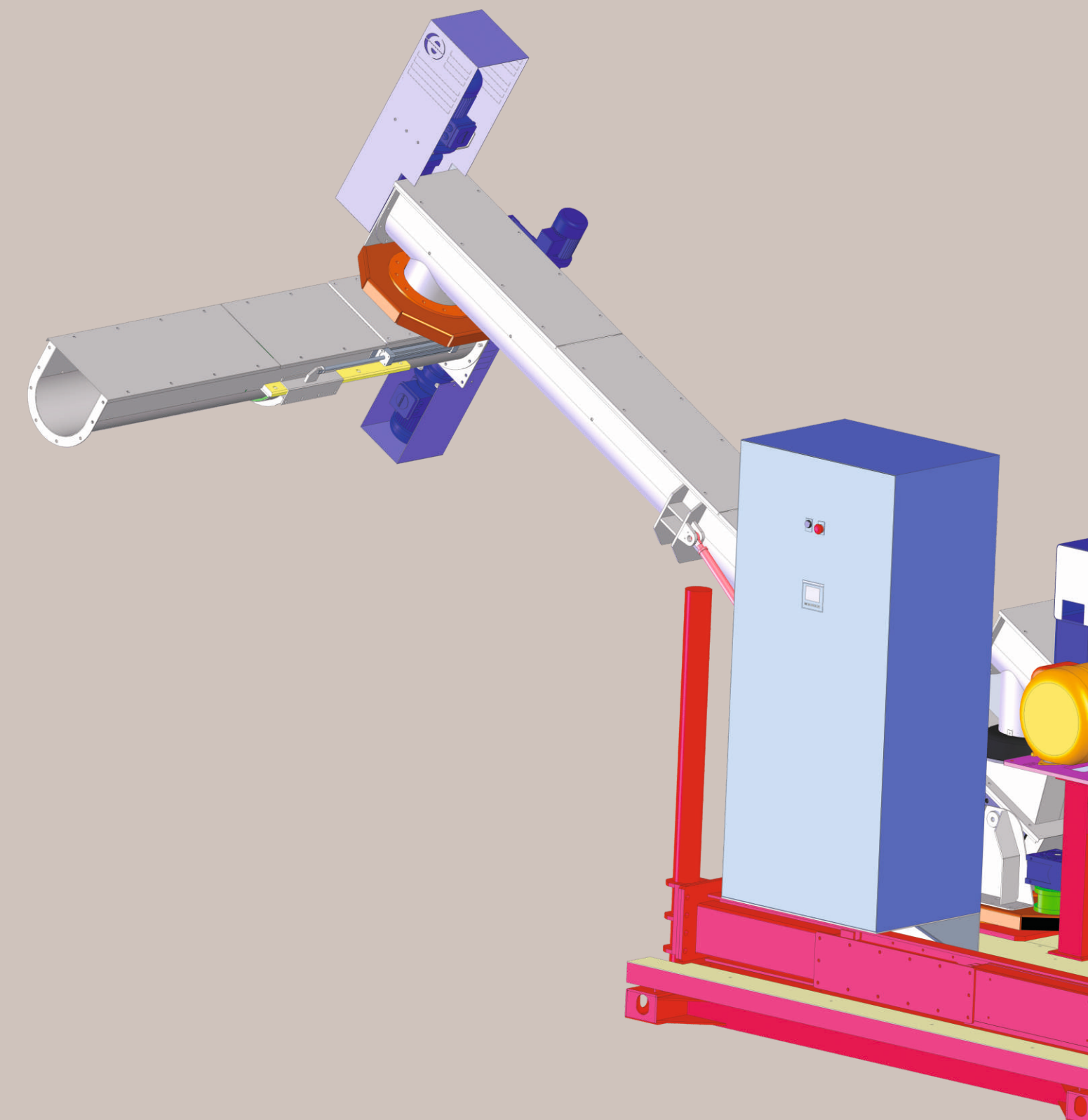


## REMOBY SYSTEM



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## MOBILE SLUDGE DEWATERING AND HANDLING SYSTEM





**ECO-FRIENDLY**  
REMOBY features several eco-friendly options:

- The solar power kit allows to power up the control for tracking, diagnostic and supervision without a standard power supply (optional).
- The photovoltaic enclosure is the latest in power-saving: the 2 long sides and the roof of the rigid enclosure are fitted with photovoltaic panels to generate as much as 5 kW peak power. The power can be used for: reduced power consumption of the whole system as well as to allow the system to be loaded and unloaded from trailers without need for power supply. The solar panels will be protected during transport.

**CONTROL SYSTEM**

The control system allows to integrate all the GPRS/EDGE remote controls and supervision for real time supervision and full control. The remote control allows to monitor the production and automatic billing. GPS tracking allow to keep track of the unit during relocation and lease. It can be used as anti-theft system.

The Ethernet integrated switch allows to have a continuous monitoring of the system and integration to the plant supervision SCADA system for long-term operation.



**FULLY INTEGRATED SLUDGE CONDITIONING**

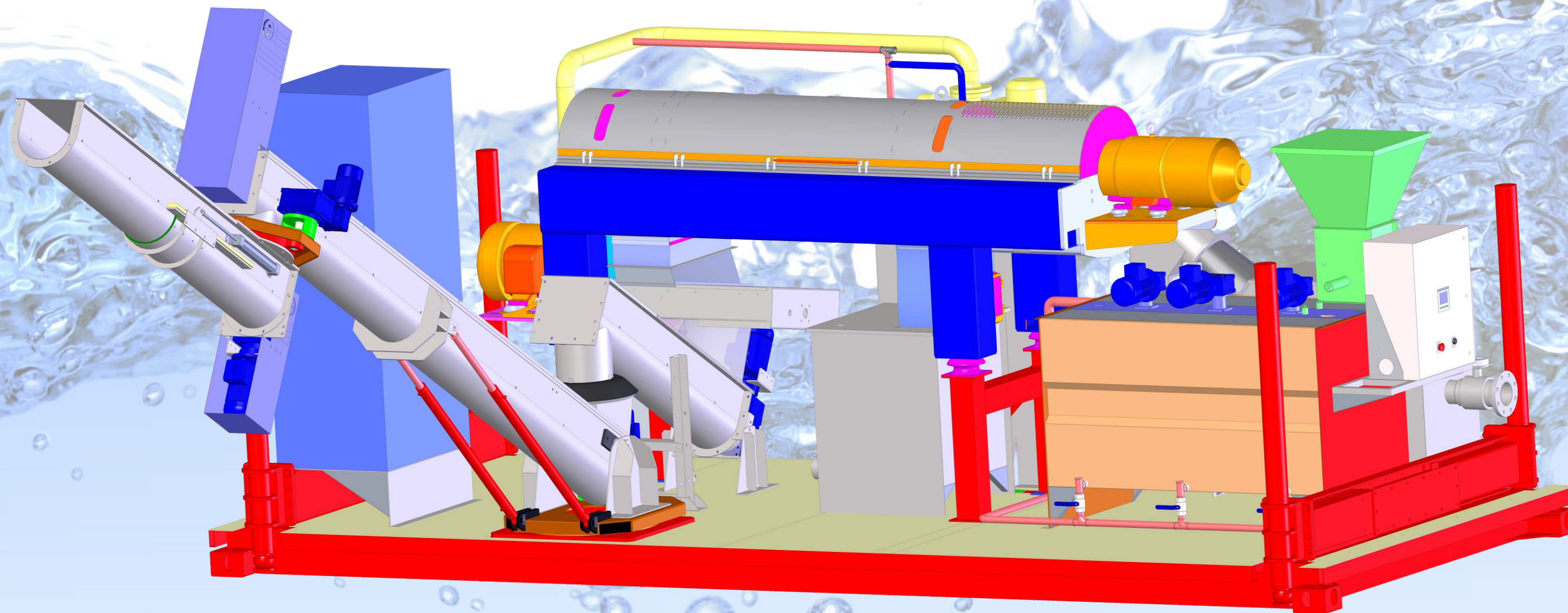
REMOBY features 2 compact and extremely performing units for the sludge conditioning:

- RSE400: the sludge screen that allows to efficiently remove all contaminants occasionally present in the sludge with dimension greater than 6 mm. These particles could clog the rotor nozzles forcing unexpected maintenance shut downs and production losses.
- STPL750L: the combined powder/emulsion system that features both feeding systems. The polymer unit allows to have different concentration of the powder and the emulsion but also a mix of both can be used for increased performance and operating cost reduction. The completely automatic and controlled system allow to monitor accurately the concentration of the polymer and its consumption.

**ACCURATE AND FLEXIBLE SLUDGE HANDLING**

REMOBY features the most sophisticated sludge handling system:

- VGA: is the off-spec slide gate designed for operation under the decanter. The gate allows to shut the flow of sludge and discharge back into the feed line until its dryness reaches the required value. No more spillages or wet sludge into the dumpster.
- Articulated STC conveyors: the 3-conveyor set-up including a double rotating connection, the accurately controlled position and the hydraulic conveyor lifting allow to discharge virtually anywhere next to the REMOBY up to 3 m high and 4,7 m off the side.
- Ultrasonic level sensor to control the sludge pile level
- Multiple discharge point thanks to the CONTOUR slide gate.



**SELF LOADING/UNLOADING SYSTEM**

REMOBY features the totally self-loading/unloading system suitable for track trailers and tractors:

- The hydraulic power pack fitted with 4 main hydraulic cylinders allow to self load and unload REMOBY on tractors and trailer up to 1,4 m high.
- The 4 independent cylinders assisted by an integrated level control allow to control the leveling of the system for handling on uneven surfaces.

# REMOBY SYSTEM

R.E.M. srl International Mechanics is a well known international company specialized in design and manufacturing equipment for the treatment of primary, secondary and tertiary wastewater, sludges and drinking water.

The company, founded in 2003, has been constantly growing and today has 2 manufacturing plants in Italy. The constant effort of everyone in the company, a team of valuable engineers and the focus on a continuous innovation on new applications, has led to a fast developing company and a broad product range.

The growth has been marked by the first subsidiary R.E.M. Automation in Inwood, NY for the USA and Canada market. With more than 1.000 installations worldwide, a range of products that covers the whole wastewater treatment, both municipal and industrial, as well as special applications, R.E.M. is the ideal partner of every system integrator and general contractor.

REMOBY is the latest technology in mobile sludge dewatering. The most compact system available on the market that features the whole process and the highest flexibility.

REM sets a milestone in the mobile dewatering industry with the most independent, powerful and performing system available in a 6m skid. Rated at 30 m<sup>3</sup>/h of sludge, the system features all the processes required to have a top quality dewatered sludge. The remotely controlled system allows to have a constant on-line monitoring of the performances and consumption (power and polymer) and the consequent optimization of the dewatering process with remote assistance.

INNOVATING THE INNOVATION: THE SYSTEM INTEGRATES THE BEST OF THE LATEST TECHNOLOGIES:

- GPRS/EDGE remote controlled system.
- GPS tracking.
- Ethernet network between all functions and controls of the unit. SCADA control ready.
- Solar powered for off-hydro diagnostic (optional).
- Photovoltaic enclosure for 5 kW peak installed power (optional).
- 24Vdc power supply for truck power supply to the hydraulic power pack (optional).

THE SYSTEM INTEGRATE THE LATEST GENERATION OF EQUIPMENT IN EVERY DETAIL:

- High-speed decanter.
- Combined polymer preparation unit for powder and emulsion.
- Sludge screening to prevent decanter clogging.
- Off-spec sludge slide gate.
- Multi-link conveying system with 3 controlled axes for accurate discharge track.
- Lifting-rotating-tilting conveyor for maximum flexibility of the sludge discharge.

- Ultrasonic sludge level meter.
- Multiple discharge point conveyor.
- Liquid collecting tank with discharge pump.
- Self loading/unloading hydraulic system with level control for uneven surfaces.
- Fully enclosed construction.
- 20' Container standard anchors.
- Possibility for flexible covering or containerized enclosure (optional).