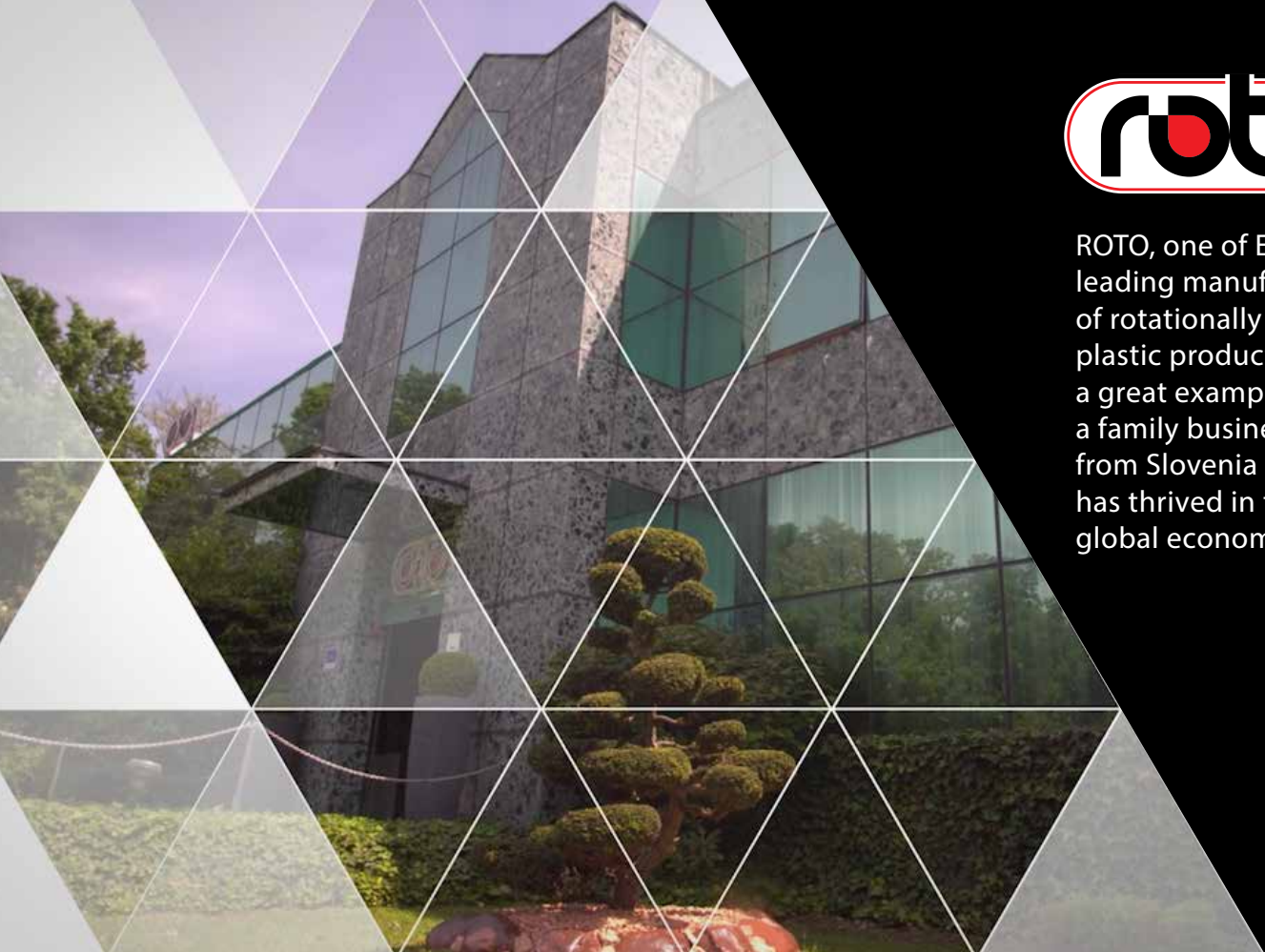




REFERENCES

CATALOGUE

water



ROTO, one of Europe's leading manufacturers of rotationally molded plastic products, is a great example of a family business from Slovenia that has thrived in the global economy.

ROTO's headquarters is in the Slovenia. The company employs more than 450 people and had revenues of €40m in 2017. Production is organized in 6 locations in four countries. ROTO exports more than 70% of its products to 52 markets around the world. Run by the Pavlinjek family, the company has built a global reputation for the quality of its products.

ROTO manufactures more than 4,000 different products. Many of them are made using rotational molding. Indeed, ROTO is one of the market leaders in its industry. It has been responsible for many innovations in plastic-molding technology during the last 45 years and has worked closely with universities, institutes and plastics industry associations.

The company's main production segments are products for agriculture, ecology, gardening and sport. Using plastics composites and the latest production technologies, ROTO also makes kayaks, canoes and high-performance boats.



EY world family award

Manufacturing as a custom molder, ROTO serves a wide variety of industry sectors, including construction, automotive, nautical, logistics, aquaculture and agricultural machinery. Its custom- molded products include fuel and water tanks for motorcycles, tractors, trucks, sailing boats and motorboats, caravans and motorhomes, and components for many different machines. ROTO works to increase its products' value by enhancing their design, intelligently using materials and modern production technologies, and ensuring a high-quality nish. The company also takes great pride in its after-sales service.

rotoECOgroup
companies with professional solutions
for ecology and protection of environment



from idea to installation



FUEL STATION PODLEHNIK



OIL SEPARATOR RoPetrol NS 30
GREASE SEPARATOR RoFett NG 7
FIREFIGHTING WATER TANK 2 x 40.000 L

FUEL STATION Podlehnik

SLOVENIA 



Project Description, Situation & Problem
Due to the construction of new highway Draženci – Gruškovje new fuel/service stations were necessary. Petrol made their new fuel stations with resting place in Podlehnik east and west. For the use of fuel station they decided to install oil separator to catch mineral oils, reservoirs for fire safety and grease separator for restaurant.

The ROTO Solution
According to the project documentation there was installed different ROTO products:

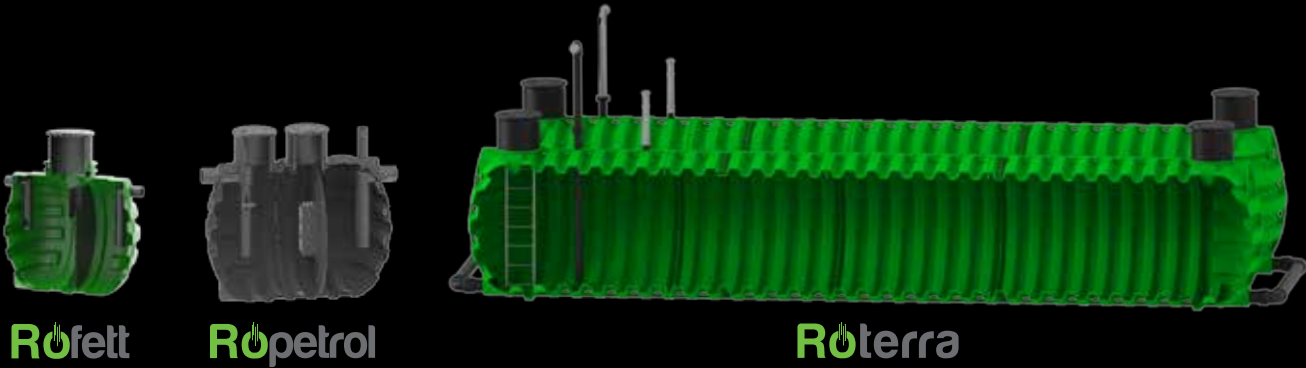


RoPetrol NS 30
Class I coalescing oil separators do not exceed the hydrocarbon concentration of 5 mg/L. Oil separator is equipped with coalescent filter, automatic closure device (on the inflow). RoPetrol oil separator is made from special conductive material and can be installed inside explosive zones.

RoFett NG 7
RoFett is extremely efficient in cleaning waste water from kitchen. This waste water contains a mixture of water, FOGs and food residue solids.

Firefighting water tank 2 x 40.000 L
The tanks and system inside the tank was fully factory assembled (stainless steel protective ladder, suction tube, vent pipe, fire fighting couplings). The connection between tanks was made on-site.

Customer support
Installation of all ROTO products were made under the supervision of a ROTO technical expert. After the succesfull installation and start up the costumer and the maintainers were acquainted with the working of the all ROTO products.



FUEL STATION MOL RADVANJE



PUMPING STATION AND SEWAGE SYSTEM

FUEL STATION MOL

SLOVENIA



Project Description, Situation & Problem

Due to increased quantities of rain and waste water on the fuel station in Radvanje investors were looking for new solutions. Roto technical experts found optimal solution in separating the waste and rain water and took over whole project from designing to construction process. Pumping station and sewage shafts were necessary to reconstruct whole sewage system.

The ROTO Solution ROTO took over whole reconstruction project from designing to construction process.



GSM alarming

Telemetry system allow the system to be monitored 24 hours per day remotely ensuring the system is constantly working well.

Customer support

ROTO technical team and MOL technical team together found optimal solution (technical and price aspect) according to state administrative demands. ROTO also acquired all the necessary administrative approvals for the necessary works.

Quick installation of Roto pumping stations

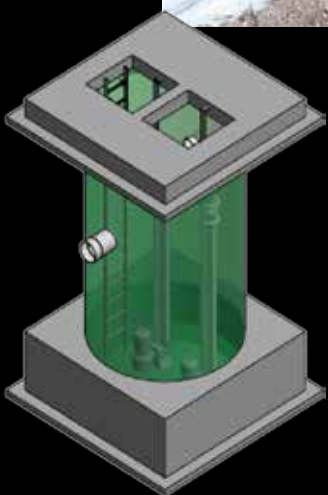
Installation of RoPump pumping station is fast because of plug and play system. Fuel station in Radvanje was fully reconstructed in two weeks.

Satisfied customer

Technical manager Mr. Bertalanič Boštjan commented: "From our initial discussions through to the completion of the project, your professionalism, communication, conduct and attention to detail has been impeccable".



Rain and waste water were separated to different outflows. To separate the rain water from waste water pumping station RoPump was needed to pump rain water 90 m away in different outflow pipeline.



CAMPSITE BON PORT



 **WASTE WATER TREATMENT PLANT 400 PE GREASE TRAP**

 **CAMPSITE BON PORT**

 **LUNEL IN HERAULT, FRANCE** 



 **Project Description, Situation & Problem**
Family – run campsite Bon Port is located in south France (Lunel). Due to expansion of their activities and expanding the campsite they decided to add an additional waste water treatment plant. To avoid odor and to have more effective purify waste water they installed ROTO RoClean with SBR technology.

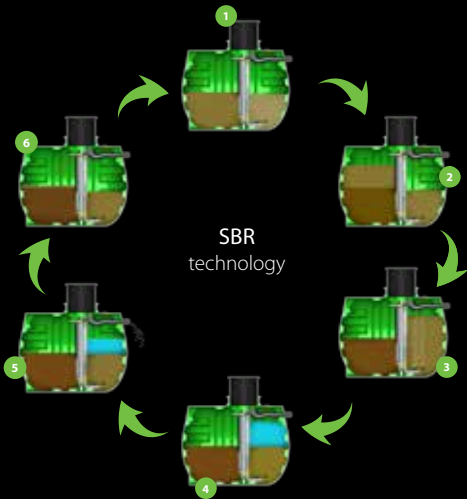
 **The ROTO Solution**
Roto technical team installed underground RoClean SBR waste water treatment plant for 400 population equivalent with all the necessary connections.



Scada
Dissolved Oxygen sensor and telemetry system allow the system to be monitored 24 hours per day remotely ensuring the system is constantly working at optimum performance. Remote access via internet and mobile devices also allows parameters to be adjusted if necessary.

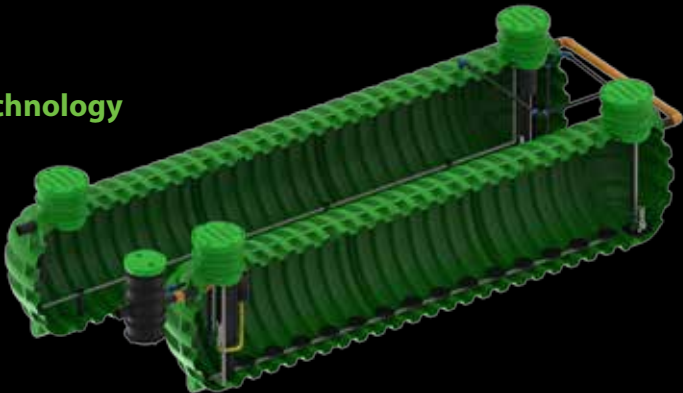
Customer support
ROTO team provides the ongoing servicing for the whole site, visiting once a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard by project documentation.

Quick installation of waste water treatment plant
Installation of Roto Products is fast because of plug and play system of all the products. The camping Bon Port underground plant for 400 PE was installed and ready to work in less than 1 week.



RoClean 400 PE SBR-Q technology

After the installation owners and maintainers were informed and educated about working and controlling the WWTP. With WWTP we clean 4 media: Waste water, odor, noise (level < 45 dB) and waste water from chemical toilets.



CAMPING ŠOBEC



**WASTE WATER TREATMENT PLANT
GREASE TRAP**



CAMPING ŠOBEC



LESCE – BLED, SLOVENIA 



Project Description, Situation & Problem

Camping Šobec is the biggest and most popular campsite in Slovenia, located in Triglav national park. Camping „Šobec“ are currently expanding and renewing the camp. With the increased demand of visitors and campers they decided to totally upgrade their old sewage system.



The ROTO Solution
Installation of
underground RoClean
SBR waste water
treatment plant for 1500
population unit and all
necessary connections.



Scada

Dissolved Oxygen sensor, dosing system, pH sensor, phosphate analyzer, and telemetry system allow the system to be monitored 24 hours per day remotely ensuring the system is constantly working at optimum performance. Remote access via internet and mobile devices also allows parameters to be adjusted if necessary. The WWTP automatically adjusts the process according to the amount of the inflow.

Customer support

ROTO team provides the ongoing servicing for the whole site, visiting twice a week to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard. Outflow of the WWTP is in the crystal clear water of the river Sava Dolinka.

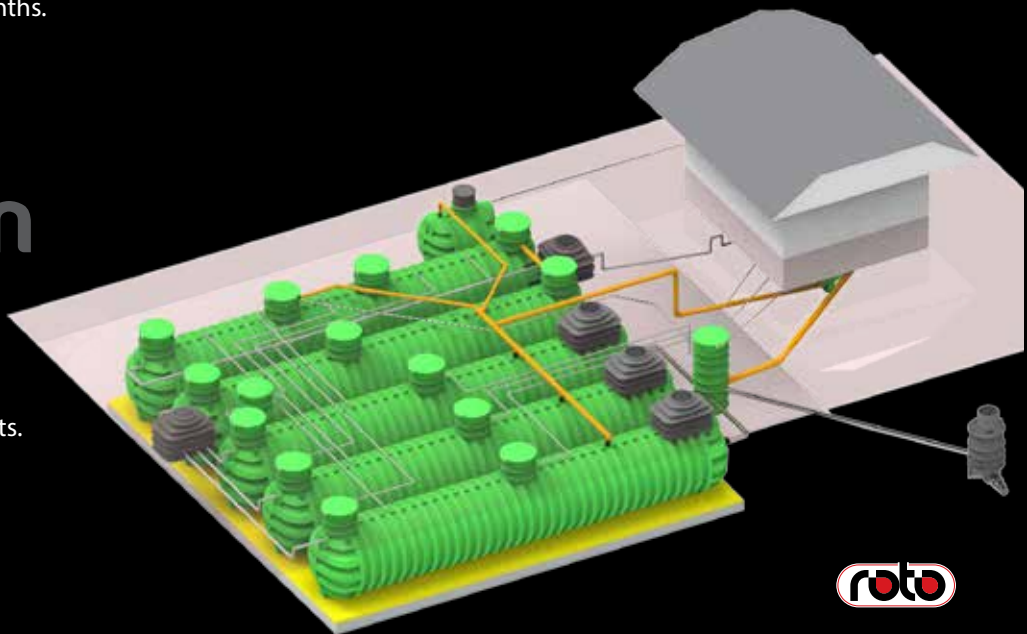


Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. The camping Šobec underground plant for 1500 PE was installed and ready to work in less than 3 months.

RoClean

With WWTP we clean 4 media:
Waste water, odor, noise (level < 43 dB) and waste water from chemical toilets.



HOTEL A FLATTA CORSICA



WASTE WATER TREATMENT PLANT 40 PE

Data: Daily inflow: 15 m³ / day
BOD₅ load: 60 g BOD₅ / day
Effluent values: COD < 125 mg/L
BOD₅ < 25 mg/L

HOTEL A FLATTA

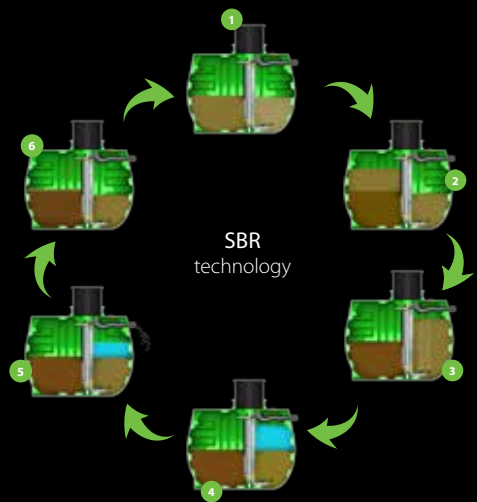
CORSICA, FRANCE 



Project Description, Situation & Problem

Auberge & Charme A Flatta is a new luxury hotel offering a swimming pool, terrace with sun loungers and sea views. The property is located just outside of Calenzana, surrounded by mountains of Corsica. New regulations while building the hotel demanded to install waste water treatment plant.

The ROTO Solution Installation of new waste water treatment plant with SBR technology.



Customer support

ROTO team provides the ongoing servicing for the whole site, visiting once a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard by project documentation.

Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. The Hotel A Flatta underground plant for 40 PE was installed and ready to work in 2 days.



Roclean 40 PE SBR-Q technology

After the installation owners and maintainers were informed and educated about working and controlling the WWTP.



MOUNTAIN LODGE ČRETA



Customer support

ROTO team provides the ongoing servicing for the whole site, visiting twice a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard and regulations.

Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. The mountain lodge Čreta underground plant for 8 – 10 PE was installed and ready to work in one day.



Cost efficiency

MBBR process allows the system to be operated at high organic loads with less sensitivity to shock loading or temporary spikes. Due to daily and night regime waste water treatment plant is highly cost effective.



WASTE WATER TREATMENT PLANT ECO BLUE 8-10 PE

Data: Daily inflow: 1,5 m³ / day
Effluent values: COD: 96,7 mg/L
BOD₅: 92,7 mg/L
SS: 92%

MOUNTAIN LODGE, ČRETA (altitude 966 m)

VRANSKO, SLOVENIA 

Project Description, Situation & Problem

Mountain lodge on Čreta located on the central part of the Dobrovlje plateau is a holiday lodge which can accommodate up to 50 people. Due to odor and new regulation laws a replacement of old septic tank was necessary.

The ROTO Solution
Installation of new waste water treatment plant for lodge, diverting existing sink wastes and decommissioning the existing septic tank.

EcoBlue 8-10 PE

For operation of the lodge the best choice was Roto EcoBlue 8 – 10 PE waste water treatment plant which is in accordance with new regulations and European Standard EN 12566-3. EcoBlue waste water treatment plant (MBBR technology with biofilm carriers) is suitable for residential building with no regular inflow.



MOUNTAIN LODGE POŠTARSKI DOM



WASTE WATER TREATMENT PLANT MBR 20 PE

Data: Daily inflow: 3 m³ / day
Effluent values: COD: 21,7 mg/L
BOD₅: 2,1 mg/L
P: 0,7 mg/L
NH₄-N: 6 mg/L



POŠTARSKI DOM (altitude 1688 m)



VRŠIČ, KRANJSKA GORA, SLOVENIA 



Project Description, Situation & Problem

Mountain lodge Poštarski dom stands on the terrace south of the 1737 m high Vršič, which is highest road pass in eastern Julian Alps. The lodge is located in the Triglav National Park, so the requirements for clean water outflow are more stringent. Old waste water treatment plant has stopped working so they needed a new one. They decided to install ROTO RoMem WWTP that enables high cleaning efficiency.



The ROTO Solution
ROTO RoMem 20 PE
waste water treatment
plant was installed by
Roto technical team.



Scada

Telemetry system allow the system to be monitored 24 hours per day remotely ensuring the system is constantly working at optimum performance. Remote access via internet and mobile devices also allows parameters to be adjusted if necessary.

MBR technology

RoMem includes membrane filtration unit that enables high purification efficiency and reuse of water for watering and sanitary water. A membrane bioreactor (MBR) is a waste water treatment process combining membrane filtration with biological treatment (activated sludge).

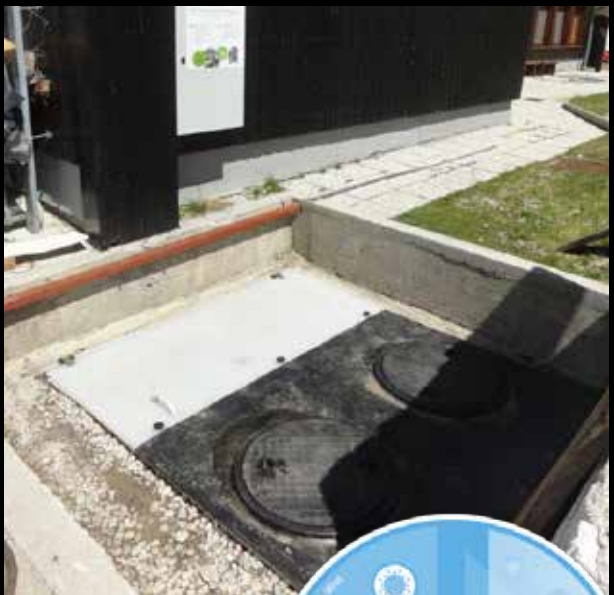
Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. The WWTP on Poštarski dom was installed and ready to use in one day.

Customer support

ROTO team provides the ongoing servicing for the whole site, visiting twice a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard. In winter time the WWTP is off.

The WWTP was installed in the existing construction pit of old WWTP. With this solution the cost of installation was reduced. The membrane filters (3) are installed directly in the aeration chamber.



PRIMARY SCHOOL TINJE



WASTE WATER TREATMENT PLANT 50 PE

Data: Daily inflow: 7,5 m³ / day
BOD₅ load: 60 g BOD₅ / day
Effluent values: COD < 125 mg/L
BOD₅ < 25 mg/L

PRIMARY SCHOOL TINJE, KOROŠKA

ZGORNJA LOŽNICA, SLOVENIA



Project Description, Situation & Problem

Primary school in Tinje was built in 1882 and restored in 2010 (prefabricated timber construction). The school is visited by approximately 100 childrens. School had an old waste water treatment plant that didnt work properly, so a replacement with new one was necessary.

The ROTO Solution Installation of new waste water treatment plant and the pumping station with Scada system.



SBR technology

Roto modular treatment system is fully biological waste water treatment plant which works on the pricipal of the SBR method:

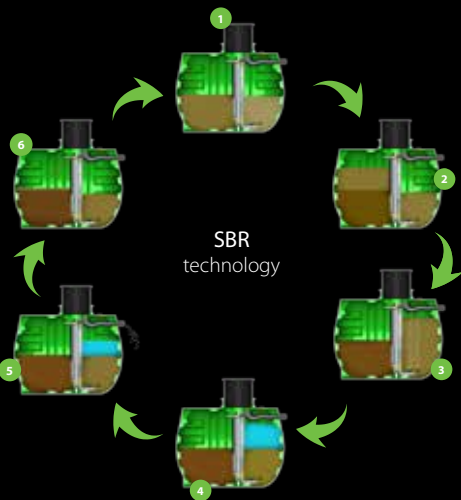
- Charging
- Aeration
- Sedimentation
- Clear water extraction
- Excess sludge extraction phase

Scada

Dissolved Oxygen sensor and telemetry system allow the system to be monitored 24 hours per day remotely ensurig the system is constantly working at optimum performance. Remote access via internet and mobile devices also allows parameters to be adjusted if necessary.

Customer support

ROTO team provides the ongoing servicing for the whole site, visiting twice a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard by project documentation.



Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. School Tinje underground plant for 50 PE was installed and ready to work in one day.

Roclean 50 PE SBR-Q technology

For the school with approximately 100 people the best choice was Roto RoClean 50 PE. Due to alitude differences between the inflow in WWTP and the outflow from school pumping station had to be installed too.



MANUFACTURING PLANT



WASTE WATER TREATMENT PLANT ROCLEAN 30 PE

Data: Daily inflow: 4,5 m³ / day
BOD₅ load: 60 g BOD₅ / day
Effluent values: COD < 125 mg/L
BOD₅ < 25 mg/L

MANUFACTURING PLANT, OSATINA GROUP

VINKOVCI, CROATIA 



Project Description, Situation & Problem

Osatina group owns several large farming plants. One of the farm is expanding their manufacturing plant with the new production line. Because of the employing and environmental requirements in Croatia they must install a new waste water treatment plant.

They decided to use ROTO RoClean for 30 population equivalent.

 **The ROTO Solution**
Installation of new waste water treatment plant and all the connections were made under the supervision of a ROTO technical expert.



Customer support

ROTO team provides the ongoing servicing for the whole site, visiting twice a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard by project documentation.

Quick installation of waste water treatment plant

Installation of Roto Products is fast because of plug and play system of all the products. WWTP in Vinkovci was installed and ready to use in one day.



Satisfied customer

Technical manager David commented:
"I was very satisfied with the ROTO technical team. The installation of WWTP was very quick, professional and supervise by the ROTO technical team."



RoClean 30 PE

After the succesfull installation and startup the client and the maintainers were acquainted with the working and the controls of the WWTP.



HOTEL, WEDING VENUE



WASTE WATER TREATMENT PLANT GREASE TRAP

Data: Daily inflow: 15 m³ / day
BOD₅ load: 60 g BOD₅ / day
Effluent values: COD < 125 mg/L
BOD₅ < 25 mg/L

THE THREE KINGS AT SHIELDHILL

FALKIRK, SCOTLAND 



Project Description, Situation & Problem

Wedding venue »The three kings« are currently expanding their wedding venue with a new 10 – bedroom accommodation building. With the increased demand for weddings at the three kings and the additional accommodation meant that the sewage system had to be totally upgraded.

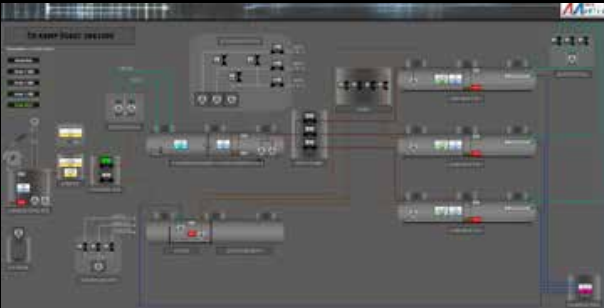
The ROTO Solution
Installation of new drainage for new building, installation of a new grease trap, diverting existing sink wastes, decommissioning the existing septic tank and the installation of a new Roto RoClean 100 PE Waste Water Treatment Plant.



Scada
Dissolved Oxygen sensor and telemetry system allow the system to be monitored 24 hours per day remotely ensuring the system is constantly working at optimum performance. Remote access via internet and mobile devices also allows parameters to be adjusted if necessary.

Customer support
ROTO team provides the ongoing servicing for the whole site, visiting twice a year to ensure that all the plant is working correctly and that the final effluent discharge remains at a high standard. by project documentation, installation, start up.

Quick installation of waste water treatment plant
Installation of Roto Products is fast because of plug and play system of all the products. The three kings underground plant for 100 PE was installed and ready to work in 14 days.



Satisfied customer
Owner David commented "From our initial discussions through to the completion of the project, your professionalism, communication, conduct and attention to detail has been impeccable".

RoClean 100 PE SBR-Q technology





intelligent **eco** solutions



intelligent **eco** solutions

INTELLIGENT **eco** SOLUTIONS



WORLDWIDE ROTOMOULDER

more than 40 years of experiences in producing quality products
exports to 52 countries all over the world



PRODUCT DEVELOPMENT

one stop source from design, 3D printing, mould production, lab testing
2 new products a week



THE BIGGEST ROTOMOULDING PRODUCTS

production in 4 european countries, at 6 factories, 40 rotomoulding machines
one of the largest rotomoulding machine – products up to 3 x 6 m



BROAD PORTFOLIO OF PRODUCTS

wide range of rotomolded products serving over 16 different industries
ROTO manufactures more than 4000 different products



COMMITMENT TO QUALITY

quality, efficiency, customer service to deliver superior products and competitive pricing
ISO 9001:2008 and ISO 14001 certified

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