



ENVIRONMENTAL VEHICLES


EFEMMAK
SUPERSTRUCTURE FOR VEHICLES



FOR ALL HEAVY AND
UNIMAGINABLE CONDITIONS
CUSTOMIZED SOLUTIONS





EFEMMAK

SUPERSTRUCTURE FOR VEHICLES

ABOUT US



Each driver that using superstructure style of vehicle, wants to trust the vehicle they use. Due to the performance, in the process they serve, depends on the vehicle's loyalty. You can feel quality of Efemmak vehicle even in hard duty conditions. Makes its users stronger and feel in safe.

Since established, EFEMMAK brings different perspectives to the sector by investing in products, institutionalization, and branding with the power of a young and dynamic team. We have a growth strategy with a goal of maximum quality level in our products and the highest customer satisfaction. Efemmak continuously invests for customers and their needs with customized solutions to become a global brand. With a strong design, R&D team, innovative perspective, quality products, and after-sales network Efemmak becomes a partner of your choice.

Efemmak provides the best user experience with its vehicles with excellent design and maximum functionality.

Quality means for us, it's the road leads us to success. This means that we target to achieve high quality in all stages of our work to the complete satisfaction for our customers. All of our QM system, safety, environment protection, data protection guaranteed by DIN EN ISO 9001.

PRODUCTS

COMBINED SEWER JETTING AND CLEANING



VACUUM



SEWER JETTING



STREET, THUNNEL AND BARRIER WASHING



WATER AND CHEMICAL TRANSPORT



REFUSE COLLECTION





EVEN IN THE HARDEST CONDITIONS
EXCELLENT DESIGNS TO MAKE A DIFFERENCE

CUSTOMIZED SUPERSTRUCTURES



COMBINED SEWER JETTING AND CLEANING





Our Combined Sewer Cleaning Vehicles provides cleaning the sand, gravel, dirt tracks, bottles, a variety of metal cans, grease, debris and sewage waste which blocking the city sewer system, by shredding and propelling impacts of high pressure water and realization transporting them from where they are.

Vacuum or high-pressure sewer cleaning properties of Combined Sewer Cleaning Vehicles, manufactured in high qualities, are operable both together and separately.

Our vehicles, at the production stage, are supported with extra modern technology, assist the operator with covered equipment and advanced technology. Maximum operating power is supplied in our vehicles with less fuel consumption combined with the method of ecological sensitivity, advanced studies and equipment which we have adopted as our basic principle in our production. All these are an advantage for our customers. Our Combined sewer cleaning vehicles are offered to customers according to usage fields in 4 different options as S-Combi, M-Combi, L-Combi and XL-Combi.

Usage Areas

- Cleaning and maintenance of city-type sewer system
- Cleaning and maintenance of industrial-type sewer system
- Transfer of industrial materials
- Transfer of chemical materials

COMBINED SEWER JETTING AND CLEANING



Tank

- Two types of tank structure with internal and external clean tank option
- Total 2-15 m³ waste and clean water tank capacity
- Cr316 Stainless or S355 Carbon tank material
- Movable partition - variable waste/ clean water tank volume

Water

- Up to 250 bar
- High pressure water pump up to 480 lt / min
- Hydraulic winding fixed / rotating, automatic guiding system, main hose reel with 80-300 mt ¾" / 1" / 1 ¼" hose capacity
- Auxiliary hose reel with hydraulic / manual winding 40-120 mt ½" hose capacity

Vacuum

- Rotary vane / blower / water ring vacuum pump
- -0,90 bar, vacuum capacity up to 11160 m³ / min
- Suction hose reel with Fixed or Separate suction boom
- Suction boom options 4" / 5" / 6" / 8"



Options

- Anti-freezing protection system
- Wireless control
- Recycling Water System
- Sludge Transfer Pump



VACUUM





Our Vacuum Vehicle offers the best solution for cleaning and removing sludge of sewage and other waste from sewage system by way of vacuuming then transporting by eliminating.

Sucking of sewage and waste into the tank by vacuuming the air in the tank and draining dirty water by applying pressurized air into the tank has been performed by using vacuum pump in our system. Vacuum pump is driven by advanced powertrain applied in our vehicles. Environmentally friendly and our advanced manufacturing power provide an adequate minimum manpower combined with functional equipment. Our Vacuum Vehicle, are offered to customers according to usage fields in 5 different options as S-Vac, M-Vac, L-Vac, XL-Vac and Trailer-Vac.

Usage Areas

- Cleaning of solids and liquids accumulated in the city type sewer system
- Sucking of accumulated sludge in subways and tunnels
- Cleaning and transportation of factory waste
- Cleaning and transportation of chemical waste

VACUUM



Tank

- Cylindrical tank structure
- Total tank capacity up to 20 m³
- Cr316 Stainless or S355 Carbon tank material
- Fully opening rear cover, damper unloading system

Vacuum

- Rotary vane / blower / water ring vacuum pump
- -0,90 bar, vacuum capacity up to 11160m³ / min
- Suction hose reel with Fixed or Seperate suction boom
- Suction boom options 4" / 5" / 6" / 8"

Options

- Wireless control
- Sludge Transfer Pump
- Crane system
- Rear view camera



SEWER JETTING



Tank

- Cylindrical or prismatic type tank structure
- Total tank capacity up to 20 m³
- Cr316 Stainless or S355 Carbon tank material
- Critical water level warning switch

Water

- Up to 250 bar
- High pressure water pump up to 480 lt / min
- Hydraulic winding fixed / rotating, automatic guiding system, main hose reel with 80-300 mt ¾" / 1" / 1 ¼" hose capacity
- Auxiliary hose reel with hydraulic / manual winding 40-120 mt ½" hose capacity

Options

- Anti-freezing protection system
Wireless control
- Operational nozzle set



Sewer Jetting Vehicles offers the most economic and efficient solutions to clean the blockages such as solid waste accumulated in pipes and inside the pipes and sewer system. Blockages within sewer system are cleaned in the result of using splitting and propelling power of water with high-pressure pumps and hydraulic driven high pressure hose reel.

Sewer Jetting Vehicles does not leave the user in half way by challenge extreme conditions, thanks to the quality world standard consumables used in our production.

Sewer Jetting Vehicles are offered to customers according to usage fields in 3 different options as S-Jet, M-Jet and Mobile Units.



Usage Areas

- Cleaning of sewer system in city type
- Cleaning of sewer system in industrial type



LIVABLE ENVIRONMENT FOR POSTERITY



COMPONENTS

Whether small or large, simple or complex, mechanical technological, Efemmak Components are optional or aesthetic structural elements specially designed according to customer requirements to increase machine functionality, ease work and allow for independent maintenance and assembly.

- Main Swivel or Fixed Hose Reel
- Auxillary Hose Reel
- Suction Hose Reel With Fixed Boom
- Suction Hose Reel With Seperated Boom
- Suction Boom
- Recycling
- Stowage System
- Lighting System
- Vacuum Tank Inside Washing System
- Pump Compartments
- Anti Freezing System
- Nozzles
- SCT Modernization



MAIN SWIVEL OR FIXED HOSE REEL

- Winding with hydraulic control
- Manuel or hydraulic swivelling
- 1" 160 m & ¼ " 120 m hose capacity
- Automatic hose guide for excellent winding
- Ip67 Control panel, potentiometer pressure control
- Every 20° locability for easy operate



AUXILLARY HOSE REEL

- Hydraulic or manuel rotating
- ½ " 80 m & ¾ " 50 m hose capacity
- Automatic hose guide for excellent winding
- Equipped with washing gun 45 Imp @150 bar



SUCTION HOSE REEL WITH FIXED BOOM

- 4" 20 m & 5" 16 & 6" 12 m suction hose reel capacity
- 270° operating area,
- Telescopic boom, 1300 mm extendable, -5°/+35° vertical movement



SUCTION HOSE REEL WITH SEPERATED BOOM

- 4" 20 m & 5" 16 & 6" 12 m suction hose reel capacity
- 180° operating area,
- Telescopic boom, 1350 mm extendable, -5°/+35° vertical movement



SUCTION BOOM

- 4" & 5" & 6" and 8"
- 300 operating area Telescopic boom, 1350 mm extendable
- -13/ +40 vertical movement
- Galvanized anti-corrosion construction
- Wireless or cable control option



RECYCLING

- The Efemmak water recycling system is an easy functioning system, which works with two filter stages:
- 1st level: a partition intercepts all large particles, so that the recovery can not clog filters, filtering capacity of 300 micron
- 2nd level: a Efemmak rotating filter assumes the fine filtration of water for High Pressure Pump
- Thanks to this two-stage recovery system it is even possible to work in muddy canals, filtering capacity of 100 microns
- Filter with continuous rotation and special self-cleaning design

COMPONENTS



STOWAGE SYSTEM

- Equipment compartments on both sides
- Fitting table for Nozzle safety
- All equipment located determined position



LIGHTING SYSTEM

- High performed LED signalization lightings for traffic safety
- High performance LED projector located on 2 unit rear lid, 1 unit main hose reel, 1 unit suction boom and pump compartments



VACUUM TANK INSIDE WASHING SYSTEM

- Located on the between the every two breakwaters inside of waste water tank
- Every area of tank washing by special nozzle bar @170 bar



PUMP COMPARTMENTS

- Both pumps positioned protected area on sides of the vehicle or between vehicle cab and tank



ANTI FREEZING SYSTEM

- Efemmak vehicle has an anti-freezing system to protect water freezing in the pipes of the system whenever the vehicle is moving or not operating. Water inside the tank is pumped through a water suction and delivery line which consists of a high pressure water pump, a pressure regulator and channel hoses.
- Heating system capable to operating with low temperature such as -25/-30 C.
- One or Two serial mounted water pumps be used for water pumping.
- Pumps are 24/12V DC electrical driven type.
- Heater has a min capacity of 6 kW.
- On/Off control of the heater done by means of an electrical system.

NOZZLES

- Made of wear-resistant, Cr Ni 316 stainless steel, provided with front jet insert and blind plug interchangeable. Angle of jet backwards, sturdy wall thickness, long service life and a minimum of wear and tear. Some of types are provided with steelceramic inserts. Because of this, the efficiency is considerably higher compared with those nozzles with drilled holes and the service life is several times longer.



SCT MODERNIZATION

- Efemmak signed design for SCT vehicles,
- painted by request of customer name located



STREET, BARRIER AND TUNNEL WASHING



Street, Barrier and Tunnel Washing Vehicle cleans the streets and prevents dust formation through spraying high and low pressure water. Our vehicle, improved by expert team of Efemmak, is also used for cleaning the walls of the tunnel and road barriers.

Street, Barrier and Tunnel Washing Vehicle is designed with a suitable transmission system to operate high pressure water pump and washing assembly during travelling. This type vehicle is effective on washing the streets but also used for reducing dust with adjustable pressure level equipment placed according to customer's needs or under the front and rear chassis. Micronized water spray systems used in our production offer the advantage of the less water proportion the more work to our customer by combining our ecological sensitivity with our advanced engineering capabilities.

Street, Barrier and Tunnel Washing Vehicle, are offered to our customers with customized design model according to the needs of customers.



Usage Areas

- Cleaning of streets and avenues
- Dedusting in the streets and avenues
- Cleaning of the tunnel wall
- Cleaning of the road barriers

WATER AND CHEMICAL TRANSPORT



Efemmak Water and Chemical Transport Vehicles are used for transporting of drinking or industrial purpose water and also used for the cleaning of roads and tunnels with pressurized water generated by a pump. Our Water Tankers, manufactured with high technology, also produce solutions in different areas such as fire fighting with dust suppression and various optional equipment.

According to the customer's needs and usage purposes, the pumps in various capacities are used in our vehicles, also including frontal vacuum system providing filling the water from water supplies. According to the purposes, watering modules can be placed in frontal or rear of our Water Tankers improved by R&D team of Efemmak.

Our Water and Chemical Transport Vehicles are offered to customers according to usage fields with different types.



Usage Areas

- Transfer of drinking water
- Transfer of industrial water
- Public purpose water transferring
- Fire Trucks purpose water transferring



REFUSE COLLECTION



Our Refuse Collection Vehicles are environment vehicles developed & manufactured with designation to operate in various areas for responding to the requirements of modern urbanization.

Our Refuse Collection Vehicles have become eco-friendly bu designing for the purpose of ensuring increasing the amount of waste transported at one time, minimizing waste collection time, and easy use to the operators.

According to the technical specifications, purpose and usage field, our vehicles could be manufactured with container lifting system in different types and various standards. Our Refuse Collection Vehicles are offered to customers with 4 different product alternatives including S-Ref, M-Ref, L-Ref and XL-Ref



Usage Areas

- City-type refuse collection services
- Industrial-type refuse collection services

CUSTOMIZED SUPERSTRUCTURES





Efemmak Customized Superstructures for Vehicles provide the highest possible mobility, safety and efficiency in special operational situations. They are designed and manufactured specifically for customer needs. With many years of experience and the highest level of industrial production, Efemmak develops, manufactures and installs all special vehicles used in various processes worldwide.



CUSTOMIZED SUPERSTRUCTURES





SERVICES



CUSTOMER SATISFACTION

Customer satisfaction without compromising our quality, after-sales service with timely and on-site service is adopted as a quality policy. To improve our vehicles and services according to the needs and expectations of our customers, we carefully evaluate the complaints and suggestions of our customers and always consider them in our activities.



SPARE PARTS

All needed spare parts of vehicle components can be obtained from Efemmak. We offer unconditional and hassle-free spare parts service in ordering spare parts.



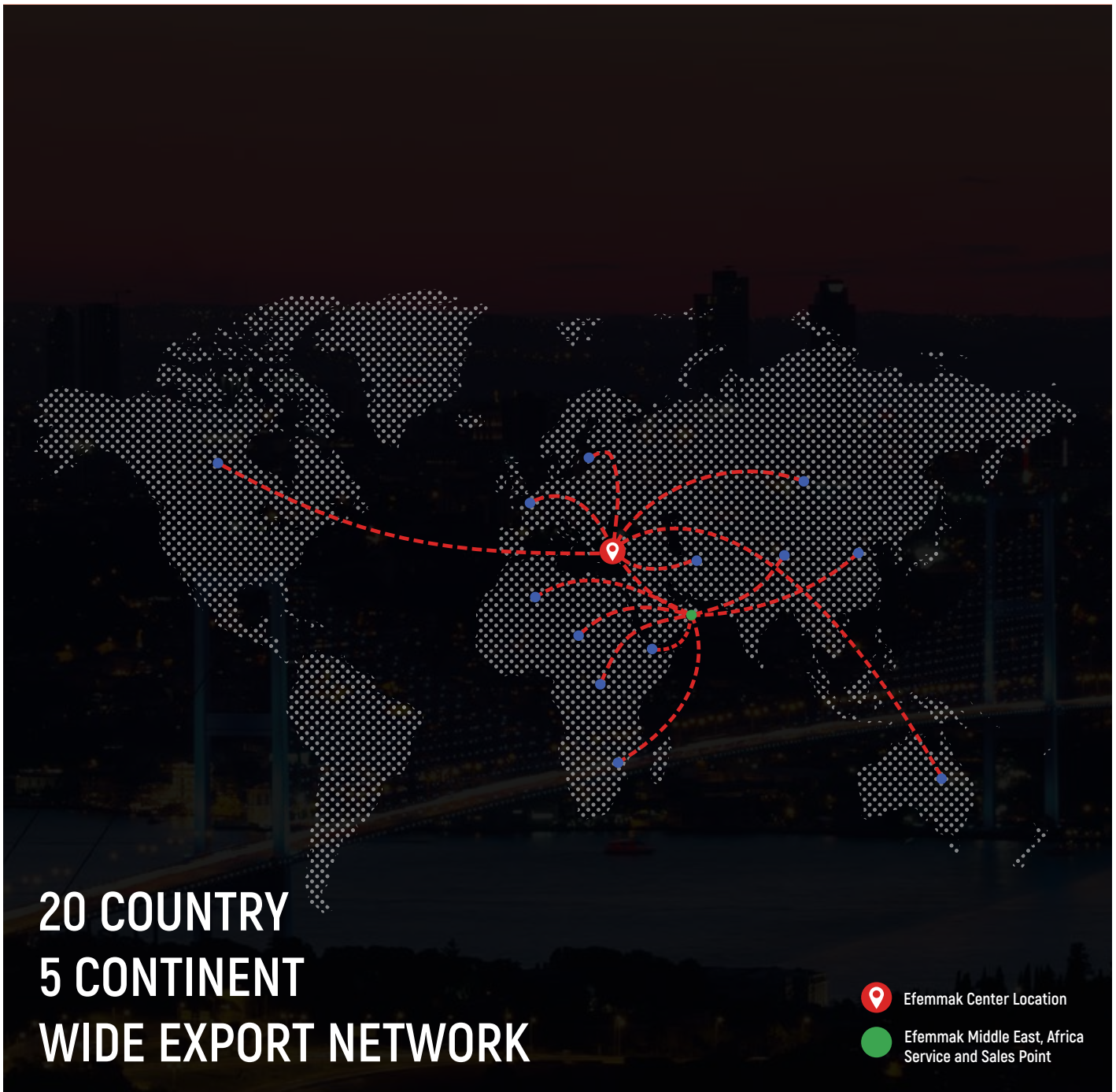
AFTER SALES SERVICE

As company of Efemmak, based on our customer satisfaction relations, we never leave our customers alone even after the product sales. Thanks to our after sales service, our customers have longer maximum efficiency by using our products. Due to the use of our products we are so closer them with just a phone call for any inconvenience of our customers. Thanks to our mobile service, we can reach our customers quickly in a potential problem across the county. We provide 2 year guarantee for each product we manufacture. There with all; we are committed performing general maintenance every 6 months.



MOBILE SERVICE

If something fails unexpectedly, it should be intervened as quickly as possible. Efemmak service organization is available 24 hours a day and is there for you all over the world. If you have any questions via the Efemmak service hotline, there is a qualified staff available. A comprehensive service network of Efemmak workshops, mobile service technicians and various service partners around the world ensures that there is always a technician nearby.



SALES

Our sales network , everyday we invest for our customers with local representative partners for our products which is a key part of our strategy, supporting our customers in all over the world. We have dedicated Middle East & Africa branch located in UAE and dealers all over the world.

- Municipalities
- Oil and Gas Companies and Refineries
- Chemical, Food, Paper and Various Industries
- Animal Farms
- Airports
- Mines, Deserts and Heavy Duty Fields



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