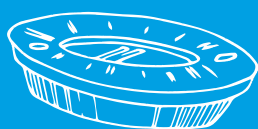




SEWERAGE TECHNOLOGY



**CLEANING
TECHNOLOGY**



SEWERAGE TECHNOLOGY

Catalogue CLEANING TECHNOLOGY

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Agency for Czech Republic and Slovak Republic:

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CIPP TECHNOLOGY SUPPLIES

Introduction

Sewerage is the infrastructure that conveys sewage or surface runoff (stormwater, meltwater, rainwater) using sewers. It encompasses components such as receiving drains, manholes, pumping stations, storm overflows and screening chambers of the combined sewer or sanitary sewer. Sewerage ends at the entry to a sewage treatment plant or at the point of discharge into the environment (source: Wikipedia).

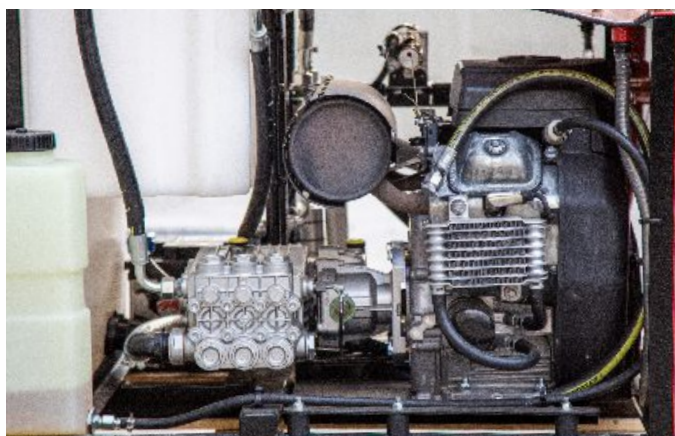
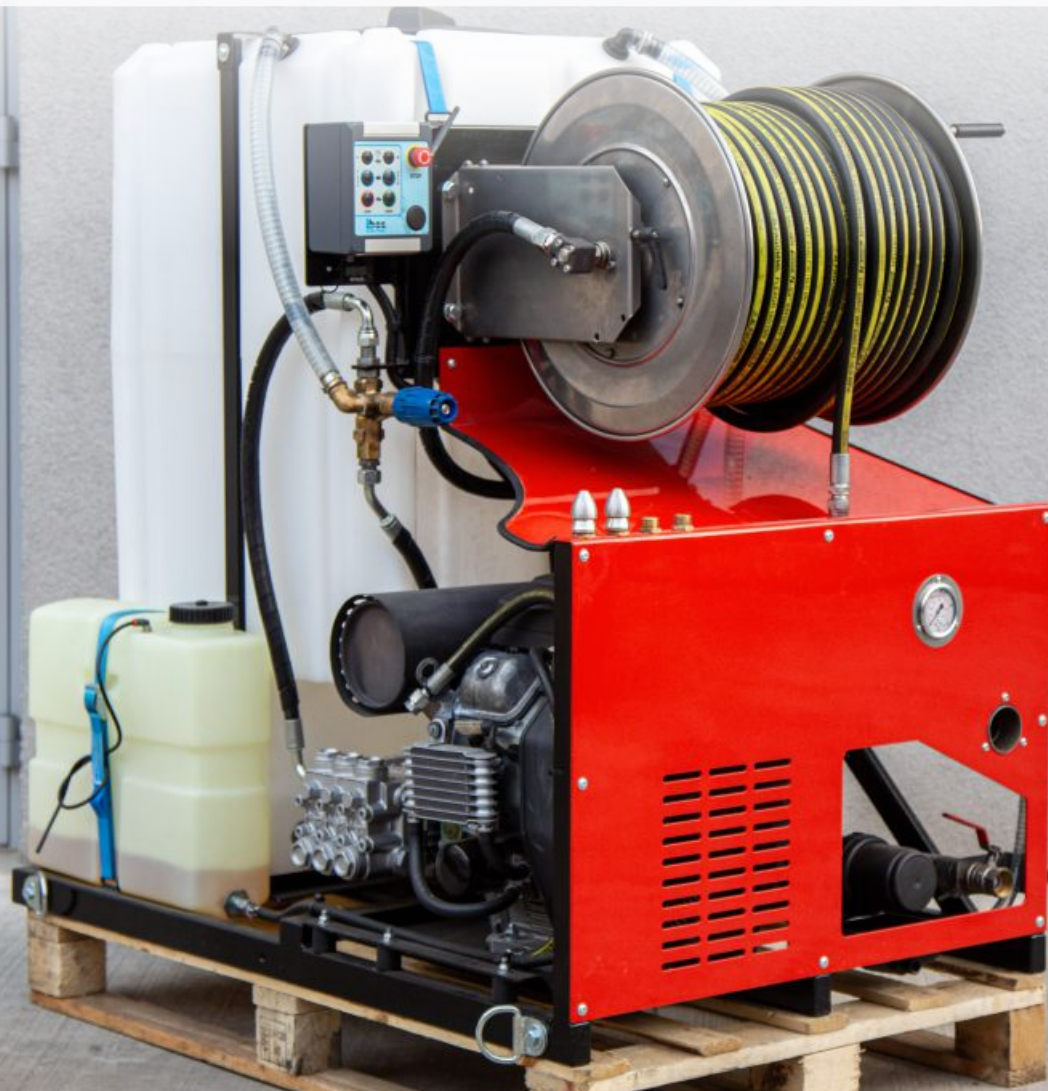
So the brief definition. We are IBOS and produce the technology, which look after the functionality of this network. In order it will be passed through and sealed, where it should and work exactly according to customer's requirements. Our products monitor condition of the network, clean it, repair and take care of it's good condition. They carry out the work, which is not visible on the surface, but which significantly contributes to daily comfort of all of us.

Traditional resources as well the modern technology help us to perform the work. Team of talented and motivated staff, who know, that only finding the new ways and modern solutions will keep us among the best. We will be glad, if you become our partner.



MINI Jet

High-pressure machine for pipe cleaning with diameter DN 40 - 300 mm. This machine is driven by high-performance and reliable aggregates, which always do very good job. The water tank with volume 400 l is sufficient for smaller range of cleaning. Thanks to compact dimensions (120 x 80 cm - EURO palette dimensions) it is easy to build this machine into the standard vans.

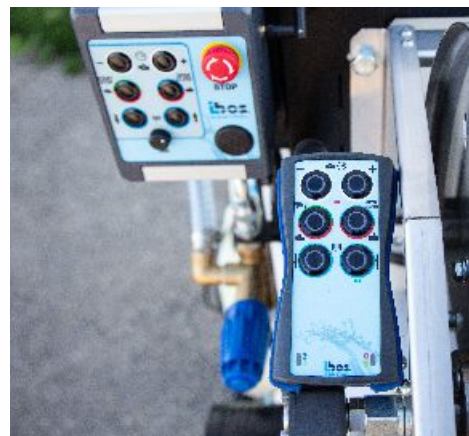
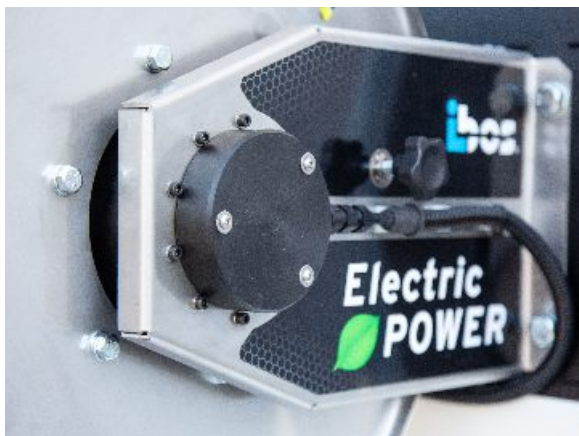


Basic specifications:

- Output 50 l/min. and 150 bar
- RATO 740 engine
petrol, el. start
- Interpump high-pressure pump
- High pressure drum
manually operated,
material - stainless steel
- High pressure hose 50 m - 1/2"
- Water tank 400 l
- Petrol tank 15 l
- Remote control -
Water ON/OFF - START/STOP, speed +/-
Range 50 m in open space
- 2x high pressure nozzle
1/2" - standard
- Dimensions - EURO pallet -
80 x 120 x 125cm (WxDxH)
- Weight without water: 250 kg
- Possibility of colour personalisation of the machine

Optional specifications:

- Electric winch drive



HYDROJET 70/150

NEW model

IBOS Hydrojet is the most used type of high pressure equipment, which is popular mainly because of its favourable price/performance ratio.

For this year, this model has been significantly upgraded - among other things, the Hydrojet is equipped with a more powerful drive, high-pressure pump unit, a more compact design and integrated skids for the forklift contribute to easier handling and installation in various types of vans. It has become standard the convenient electric control of the high-pressure winch. The equipment is designed for cleaning pipes DN 50 - 300 mm and is basically equipped with 2x 400 L water tanks as standard.

We will be happy to help you choose the most suitable configuration for your application.



Basic specifications:

- KOHLER PRO 38HP petrol engine
- UDOR high pressure pump
- Basic water tank capacity 800 L
- Tank filling with flange type "C", or filling hose
- High pressure hose 1/2", length 80 m
- Electric high pressure hose control
- Installation weight cca 440 kg
- Dimensions approx. 1 300 x 1 413 x 1 200 mm
- Control panel on the front of the machine
- Emergency stop button
- Motor hour counter
- 3x nozzles 1/2" - front, rear, FS Dusa - demolition
- 4x threads on the machine for additional nozzles
- Radio remote control - range 100m

Some of optional specifications:

- Unwinding and winding the high-pressure hose by an automatic router including guide pulleys
- Cargo compartment thermal insulation
- Alu sheet lining of the cargo compartment
- Idle protection (pump)
- Tank capacity 1000 L
- Working light fixed/magnetic
- Second pressure hose instead of filling hose



Possible variants:

Type	Hydrojet 70/150 Benzin
Engine	Kohler PRO EFI ECH980
Power	38 HP
Cooling engine	Ventilator
Fuel	Benzin
High-pressure pump	UDOR 150 Bar 70L/min.
Water tank	800 L
High-pressure hose	80 m 1/2"
High-pressure hose control	Electric
Filling hose	Filling hose reel "C" coupling
Dimension (WxLxH)	1300(800mm between runners)x1413x1200 mm
Weight (without water)	approx. 440 kg



ECOPOWER

This machine provides superior power at high reliability and low operating cost. This machine can be easily built-in into common van types. You can choose from different types of drive units and high-pressure pumps; radio remote control serves for comfort work. The machine is designed for pipe cleaning DN50 - 400 mm and is equipped in standard with 2x400 L water tank. We will gladly help you with choice of best configuration for your work.



Accessories:

- Drive by petrol engine Kubota (33 - 61 HP) or by PTO of chassis
- High-pressure pump Pratissoli
- Standard water tank 800 L or 1000 L according to the machine type
- Radio remote control
- Filling „C“
- High-pressure hose 3/8" - 3/4" according to machine type, length 80 m
- HP-drum controlled hydraulically or electrically
- Filling hose 3/4", length 50 m
- Machine weight 615 - 810 kg according to machine type
- Control box
- Emergency stop button
- Working hours counter
- 2 basic nozzles

Some of optional items:

- Wide range of nozzles
- Winding / unwinding of HP-hose via cross spindle system and automatic adjustment via integrated hose guiding system
- Pulse system
- Heat insulation of the load room
- Load room covered with a sheet
- Protection against dry-drive (pump)
- Additional options of water tanks
- Working light fix / magnetic
- Second HP-hose instead of filling hose

Type	ECOPOWER 60/200	ECOPOWER 75/150	ECOPOWER 85/180	ECOPOWER 100/150	ECOPOWER PTO 75/150	ECOPOWER PTO 95/150	ECOPOWER 100/200	ECOPOWER 120/180
Engine	Kubota WG 972 33HP	Kubota WG 972 33HP	Kubota WG 1605 57HP	Kubota WG 1605 57HP	PTO 28KW	PTO 40KW	Kubota WG 2503 61HP	Kubota WG 2503 61HP
Cooling	Heater exchanger	Heater exchanger	Heater exchanger	Heater exchanger	Heater exchanger	Heater exchanger	Heater exchanger	Heater exchanger
Fuel	Petrol	Petrol	Petrol	Petrol	-	-	-	-
HP pump	Pratissoli KT24	Pratissoli KT28	Pratissoli KT28	Pratissoli KT30	Pratissoli KT28	Pratissoli KT32	Pratissoli KF 30	Pratissoli KF 32
Tank	800 L	800 L	1000 L	1000 L	800 L	1000 L	1000 L	1000 L
Operating	Intelligent operating	Intelligent operating	Intelligent operating	Intelligent operating	Intelligent operating	Intelligent operating	Intelligent operating	Intelligent operating
HP hose - REEL 1	80 bm 1/2"	80 bm 1/2"	80 bm 5/8"	80 bm 5/8"	80 bm 1/2" (DN12)	80 bm 5/8" (DN16)	80 bm 5/8" (DN16)	80 bm 5/8" (DN20)
Power	Electrical	Electrical	Electrical	Electrical	Electrical	Electrical	Hydraulically	Hydraulically
Filling hose - REEL 2	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"	50 bm 3/4"
Power	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Dimension (LxWxH) v mm (960mm Width wheel well)	1550x1300x1260	1550x1300x1260	1550x1300x1260	1550x1300x1260	1500x1300x1260	1500x1300x1260	1500x1300x1260	1500x1300x1260
Weight cca.	615 kg	615 kg	655 kg	655 kg	600 kg	625 kg	cca 800 kg	cca 810 kg
RDO - radio	In price included	In price included	In price included	In price included	In price included	In price included	In price included	In price included



MINI - VAC B

Suction superstructure designed for work in the cities and places, which are not easy approachable with big technology, typically for example in underground car parks. The machine is equipped with tank - volume 1 800 L and variety of drive units and vacuum pumps. We use only the proved components from renowned producers. Total weight of trailer is to 3,5 t and the height is not more than 2 m. We deliver the superstructure in the colour according to your choice. User friendliness, reliability and availability of the service is by our products granted.





- Construction - treated surface - sandblasted, galvanized, painted
- Ring sludge tank ca. 1 800 L, tilting hydraulically
- Emptying of the sludge tank - by overpressure, tilting
- Rear closing lid - opening mechanically in whole diameter
- Painting RAL - colour according to customer's request
- Intake hose - ca. 2,5 m inkl. Perrot ending

- Drive unit - according to choice engine Kohler or Honda
- Suction unit - JUROP
- Option - Transport reel for suction hose
- Box for tools and accessories
- Level indicator - float
- Halogen light
- Warning flashing light
- Height under 2 m

Basic technical specification:

Type	MINI - VAC BH2	MINI - VAC BH2P
Engine	Honda GX 630	Honda GX 690
Power	20 HP	22 HP
Engine cooling	Air - active	Air - active
Fuel	Benzine	Benzine
Engine start	Electrically	Electrically
Vacuum pump	JUROP PN 58	JUROP PN 84
Power	390 m ³ (6500L/min)	540 m ³ (9000L/min)
Tank volume	1800 L	1800 L
Tank tilting	Hydraulic pump - manual	Hydraulic pump - manual
Suction hose	DN 75 (3") 2,5 m, Perrot	DN 75 (3") 2,5 m, Perrot
Dimension (LxWxH)	4700x1900x1900 mm	4700x1900x1900 mm
Weight (approx.)	1470 kg	1510 kg



MINI-COM

Combined trailer designed for intake and high-pressure cleaning of pipes, with total weight to 3,5 t. Thanks to compact dimensions and height to 2 m, it is possible to use this trailer also in the places, where big machines do not have approach, for example in the cities. There are used only high-quality components in the robust and simple construction, as Kubota, Speck or Jurop. The trailer is delivered in the colour according to customer's wish.





Technical specification - example:

- Surface finished structure - galvanized, painted
- Painting RAL (colour according to customer's wishes)
- Two axle galvanized chassis with adjustable supporting legs (2 in the back, one in the front with wheel)
- Cylinder shape tank 1 800 L divided in two parts:
 - sludge ca. 1 300 L
 - water ca. 500 L
- Sludge tank discharge by overpressure or tilting
- Rear lid mechanically opened in entire diameter
- Mechanical protection by locks
- 2 discharge DN 75 at rear face of the tank (1 direct, 1 at 2/3 tank height)
- High pressure hose reel mounted on the rear lid, controlled hydraulically
- Drum capacity 1/2" - 60 m
 - high-pressure hose - Trelleborg
- Drive - Kubota D 1105T Diesel
- Suction unit - JUROP PN 45
- Power - 318 m³/h - incl. accessories (filters, sludge traps...)
- High-pressure pump Speck 50 L/min. and 150 bar
- Suction arm - manually controlled, turning device in rear section of the tank



Suction vehicles IBOS SACO

The SACO superstructures are used for transport of liquid materials, as well the materials, which belong to ADR regime (optional). The vehicle is designed and built using the high quality components from domestic and foreign production in our workshop in České Budějovice (Czech Republic). The advantage is simple and sturdy construction while keeping the low weight and high load capacity. The specific value of the possible load, which can be transported with the vehicle depends on chosen solution, type of chassis and of course on customer's requirements - beside standard solutions we also offer individual adjustments adapted exactly to your work. We are able to mount our technology on truck chassis, trailer, semitrailer or we can produce it as a practical container.





Combined superstructures IBOS KOMBO

High-performance technology for pipe cleaning is represented by combined vehicles IBOS KOMBO. Company IBOS a. s. produces the custom-made vehicles according to customer's requirements. You can choose from wide range of output and operating parameters - from installation on chassis with 4x2 drive, which excel mainly in easy manoeuvrability and use for example in the city centres, up to heavy and powerful three- or four-axle vehicles, alternatively trailer sets with total weight up to 45 t.

Combined vehicles will help you to clean the clogged house connections and also the main pipe line. They are ideal for quick and efficient pipe cleaning of all types and profiles. Every vehicle is produced with respect to your specific requirements in order to best suit to your needs and demands. The building of the vehicle is focused on the sturdy, heavy-duty and reliable solutions while keeping low weight of the vehicle and it's high useful weight.





Combined vehicles IBOS KOMBO and FFG with water recycling

Combined superstructures with water recycling represent currently the most practical solution for pipe cleaning. Efficiency of the output is multiplied by reverse water filtering from already filtered sludge and it's reuse for the cleaning process. The vehicle can work longer without necessary of emptying of sludge or water refilling. This has positive impact on operation process. If necessary, the recycling technology can be mechanically turned off e.g. when working with extremely dirty sludge. As standard chassis three- or four axle chassis used. We are the only company in Czech Republic, which produces and offers solution with recycling using tested components from German producer. If you are interested, we can offer you also the superstructure from German producer FFG, who we represent.





Custom manufacturing

IBOS offers besides standard suction and high-pressure technology for example sprinkler trucks, drinking water tanks, trucks for distribution and maintenance of mobile toilets or mobile high-pressure pumps with their own drive unit. We can develop and deliver atypical solution tailored to a specific task thanks to many years' experiences with design and production.





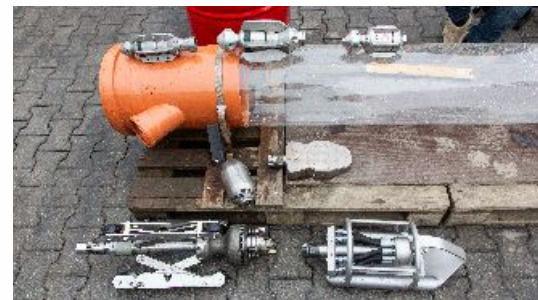
Demonstration events

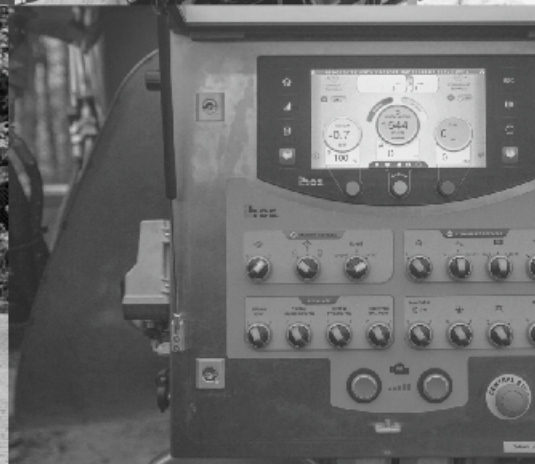
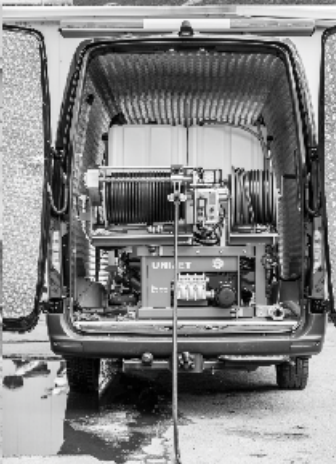
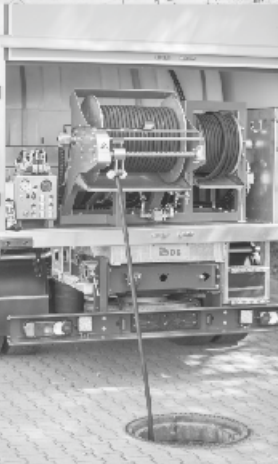
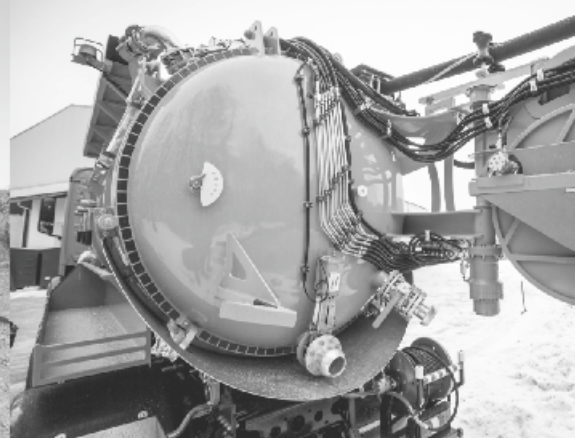
Are you interested in any of our products?

We offer it's practical demonstration, when you can test the equipment and become convinced about it's advantages. More information about the conditions of these events will provide you our sales representative.

Sales representative:

- Martin Hobza
hobza@ibos.cz, +420 608 468 108

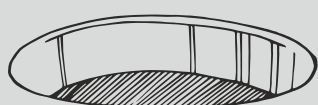
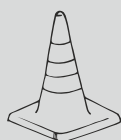




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