

SLURRY TANKERS VNC





SLURRY TANKERS

VOLUME:

6-36 M³

PRINCIPLE OF OPERATION:

Structurally, the front part of the tank is placed on the supporting and coupling part of the tractor, in the rear area there are independent supporting wheels. Thus, the load of liquids is evenly distributed between the trailer and the tractor. Process control is carried out hydraulically from the tractor cabin.

CAPACITY:

6-36 T.

SCOPE OF USE:

- pumping, transporting and applying liquid organic fertilizers, UAN;
- transportation of water and physiological solution of pesticides.

ADVANTAGES:

+5

types of mounted equipment for applying liquid organic fertilizers



Versatility of use and ease of tank management

-25%

reducing logistics costs



working on a wet floor

SINGLE-AXLE TANKERS

Name	Image	Volume, m ³	Characteristics	Technically permissi ble total mass, kg
VNC-6		6	Metal thickness 4 mm Spring suspension Wheels 16.5/70-18 Tractor 82 hp	8 000
VNC-8		8	Metal thickness 5 mm Spring suspension Wheels 550/60 -22.5 Tractor 90-110 hp	11 000
VNC-10		10	Metal thickness 5 mm Galvanized Spring suspension Wheels 560/60 R22.5 Tractor 120-150 hp	13 000

TWO-AXLE TANKS

VNC-10 (KAM)		10	Metal thickness 6 mm Tandem on springs Wheels 16.5/70-18 Tractor 120-150 hp	15 000
VNC-12		12	Metal thickness 5 mm Tandem on springs Wheels 16.5/70-18 Tractor 120-150 hp	15 000
VNC-16		16	Metal thickness 6 mm Tandem on springs Wheels 550/60-22.5 Tractor 200-250 hp	21 000
VNC-16 (KAM)		16	Metal thickness 8 mm Tandem on springs Wheels 550/60-22.5 Tractor 200-250 hp	26 000
VNC-20		20	Metal thickness 6 mm Buggy suspension Wheels 560/60 R22.5 Tractor 250-300 hp	26 000

THREE AND FOUR-AXLE TANK TRUCKS

Name	Image	Volume, m ³	Characteristics	Technically permissi ble total mass, kg
VNC-20 (KAM)		20	Metal thickness 8 mm Tridem on springs Wheels 560/60-22.5 Tractor 250-300 hp	34 000
VNC-26		26	Metal thickness 8 mm Wheels 560/60 -22.5 Tractor 250-300 hp Spring suspension Hydraulic suspension	35 000
VNC-30		30	Metal thickness 8 mm Hydraulic suspension Wheels 560/60 -22.5 Tractor 300 hp	40 000
VNC-36		36	Metal thickness 8 mm Hydraulic suspension Wheels 560/60 -22.5 Tractor 350 hp	44 000



VNC-6, VNC-8 FOR TRACTORS FROM 80 HP

- * ANTI-CORROSION POLYMER COATING
- * PAINTING OF TANK IN CUSTOMER'S COLOR
- * CAN BE ADDED UPON REQUEST
- * BMADE OF DURABLE STEEL



WIDE WHEELS 425/70-18, 550/60-22,5



REAR HATCH



SHARMÜLLER TOWING EYE (AUSTRIA)



MECHANICALLY OPENING TOP HATCH



SIDE MECHANICAL GATE



MMECHANICAL DRAWBAR SUPPORT

VNC-10, VNC-12, VNC-16 FOR TRACTORS FROM 120 HP

- * METAL THICKNESS 5-8 MM
- * EVEN LOAD DISTRIBUTION
- * ADAPTATION TO TRACTORS OF ALL MANUFACTURERS
- * HYDRAULIC MIXER ALONG THE ENTIRE LENGTH OF THE TANK
- * PNEUMATIC BRAKE SYSTEM



FOOT CULTIVATOR WITH STRAW CHOPPER



INTERIOR BARREL TREATMENT WITH POLYMER COATING



HEIGHT ADJUSTMENT ADAPTER FOR CONNECTION TO ANY TRACTOR



SIDE MECHANICAL GATE



HYDRAULIC MANIPULATOR MATERIAL PUMPING HOSE



HYDRAULIC DRAWBAR SUPPORT

VNC-20, VNC26, VNC-30 FOR TRACTORS FROM 250 HP

- * QUALITY COMPONENTS
- * EASY CONTROL FROM THE TRACTOR CAB
- * HYDRAULIC ADJUSTABLE DRAWBAR
- * TAKES INTO ACCOUNT TECHNOLOGY STANDARDS FOR THE EU
- * REDUCED GROUND PRESSURE



HYDRAULIC OPENING TOP HATCH



LIGHTING SYSTEM



STRAW CRUSHER



MANOMETER



FFILL LEVEL INDICATOR



HYDRAULIC SUSPENSION



AIR FILTER



CTHE SIPHON PREVENTS LIQUID FROM ENTERING THE PUMP



EELECTRICAL UNIT FOR CONNECTING 5 PAIRS OF OUTPUTS



MECHANICAL MIXER WITH HYDRAULIC DRIVE



ADJUSTING THE MOUNTING HEIGHT AND BARREL TILT



HYDRAULIC HOSE FOR PUMPING LIQUID



FIRST AND LAST AXLES ARE SUPPORTING

VACUUM PUMPS, CENTRIFUGAL PUMPS, MOTOR PUMPS

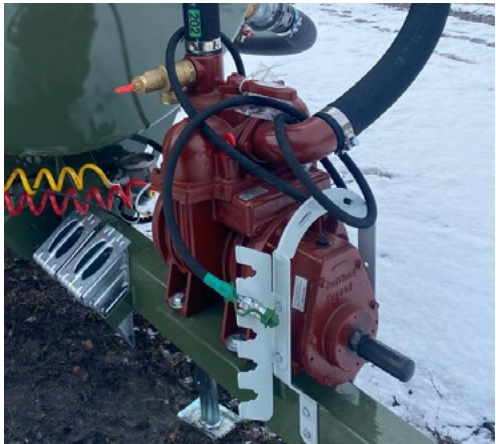
Vacuum pumps are used for pumping/pumping out slurry from slurry tanks up to 5m deep. Tractor PTO drive. Does not come into contact with slurry.

Models: MEC-5000, MEC-9000, MEC-13500, Jurop-PN-130M, Jurop-PN-155M (complete with equipment and drive shaft)

Brand	Pump capacity (m3/h)	Pump capacity (l/min)	Max. RPM	Recommended barrel volume
MEC 5000	369	6 150	600	6 m³
MEC 9000	541,8	11 137	540 (1000)	8-12 m³
MEC 13500	830,7	13 845	540 (1000)	16-30 m³
Jurop PN130M	774	12 900	540 (1000)	16-20 m³
Jurop PN155M	910	15 200	540 (1000)	26-30 m³



The vacuum pump in the pumping mode creates a vacuum in the tank and pumps slurry from a depth of up to 5 m. In the pumping mode, the pump creates pressure in the barrel up to 1 atm. and squeezes the slurry onto the application mechanism: spoon, cultivator. The power of the vacuum pump is selected based on the calculation that the tank should be pumped in 5-7 minutes. The rate of slurry application is regulated by a mechanical valve, which is placed between the pump and the application mechanism. The vacuum pump is universal. It can both pump and operate in the pumping (application) mode.).



Additional equipment installed with vacuum pumps

- Side mechanical gate valve Ø 150 mm (3")
- Rear hydraulic gate valve Ø 150 mm (3")
- Ejector distributor with a plate for surface application of organics (up to 12 m)
- Air filter
- Pressure gauge
- Siphon – prevents slurry from entering the pump
- Overflow valves



Manometer



Air filter



Siphon prevents slurry from entering the pump



Ejector distributor

Centrifugal pumps are used on barrels in farms where stationary pumps are installed in lagoons, or the barrel is used only for application with the delivery of organic matter by a transport tank truck with subsequent injection. The advantages of a centrifugal pump over a vacuum pump are that in combination with a three-way crane, it is possible to achieve minimum application rates. The pump takes the slurry from the bottom of the barrel and feeds it to a three-way crane, which in turn dumps part of it back into the barrel (thereby mixing the slurry), and feeds part of it to the working application tool (cultivator or bar distributor).



Models used:

- ELBA-3500 - 540 rpm
- ELBA-6500 – 540 or 1000 rpm

Combined pumps can be used on tanks: vacuum + centrifugal.

A universal pump that combines all the advantages of both vacuum (fast pumping-unloading) and centrifugal (optimization of application rate) pumps.



Brand	Productivity l / min	Maximum pressure, bar	Max. RPM	Recommended barrel volume
ELBA 3500	3500	3,8	540	6-12 m³
ELBA 6500	6500	7	540 (1000)	10-30 m³
combined pump (MES 9000 + centrifugal pump Carda 3500)				10-12 m³
combined pump (MES 13500 + centrifugal pump Carda 6500)				16-30 m³



Motor pumps are designed for pumping CAS, ammonia water and other chemically aggressive liquids. We use pumps with a plastic chemically resistant housing.

Models:

Hypro 2" (600 l/min), Hypro 3" (1000 l/min)
Honda 2 " (600 l/min), Honda 3 " (1000 l/min)
Pacer 3" (1000 l/min)

Brand	Recommended barrel volume
motor pump Ø 2 "	6-16 m³
motor pump Ø 3 "	16-30 m³
centrifugal pump (hydraulic drive), Ø 2 "	6-16 m³
centrifugal pump (hydraulic drive), Ø 3 "	20-30 m³
motor pump Pacer Ø 3 " (1000 l/min)	20 m³ (KAC)

ADDITIONAL ATTACHMENTS



1 **Fertilizer application with a tine cultivator to a depth of up to 14 cm.**

- 2 rows of spring tines with hoses;
- distance between tines 410-450 mm.

The cultivator can be equipped with a straw and large organic matter distributor-chopper (manufacturer Vogelsang), which crushes large particles using stainless steel cutting knives driven by a hydraulic motor. If the manure is separated, a simple distributor (a cylinder from which distribution tubes extend) is installed. The diameter of the tubes is 50 mm.

This is the most economical and effective method of application.

With its help, 100% of fertilizers remain in the soil and do not evaporate into the atmosphere.

Option name	Application width	Recommended barrel volume
tine cultivator with straw chopper Vogelsang	3 m.	16 m ³
tine cultivator with straw chopper Vogelsang	4,1m.	20-30 m ³
tine cultivator without straw chopper	3 m.	16 m ³
tine cultivator without straw chopper	4,1 m.	20-30 m ³
adaptation for cultivator attachment		

adaptation for cultivator attachment and mounted spreader bar



2 **Applying fertilizers with a disc cultivator to a depth of up to 18 cm.**

The PDM-3 disc plow is a high-tech unit with working elements made of boron steel. It allows you to effectively and as quickly as possible to process fields that are not clogged with flagstone and other unwanted obstacles.

- working width 3.0 m;
- depth of soil loosening is adjustable (8-18 cm).

A Vogelsang straw chopper is used. In one pass, the disc cultivator crushes and embeds plant residues, loosens and levels the field surface, and applies fertilizers.

Option name	Application width	Recommended barrel volume
PDM-3 disc cultivator with straw chopper Vogelsang	3 m.	16 - 30 m ³
PDM-3 disc cultivator without straw chopper	3 m.	16 - 30 m ³
adaptation for cultivator attachment		
adaptation for cultivator attachment and mounted spreader bar		



3 **Surface application of fertilizers – with an ejector distributor**

It is carried out by injecting pressure, as a result of which the liquid, through the rear flap, under pressure hits the plate and is sprayed to a width of up to 12 m.

The plate on the distributor regulates the angle of attack of the slurry.

+ This is the fastest method of application

- It requires rapid incorporation of organic matter into the soil



4 **Surface application - irrigation with a hydrocannon at 30 m.**

Application with a cannon is used in very hilly areas where access to the fields is impossible, as well as in cases of poor wheel clearance due to wet weather conditions. The installation works with the help of a centrifugal pump - which supplies liquid to the hydrocannon, rotates the hydrocannon by rotation thanks to hydraulics.

The cannon is used for extinguishing fires, watering and washing agricultural machinery.

Option name	Application width	Recommended barrel volume
hydrogun	до 30 m.	10-30 m ³



5 **Precise surface, basal, without leaf burns, using a boom distributor and a hose system, application width 9-18 m**

This method is effectively used for fertilizing perennial grasses and watering vegetable crops. Application is provided by pipelines that go down to the ground and fertilizers are applied directly to the surface near the roots of plants, due to which nutrient losses are significantly reduced, uniformity increases, and the leaf apparatus of the plant does not get burns.

Advantages of NSHR-18

- does not slow down plant growth;
- does not contaminate fodder: grass or corn, sprouted crops

Option name	Application width	Recommended barrel volume
навісний штанговий розподільник НШР-18	18 m.	20 - 30 m ³
adaptation for cultivator attachment and mounted spreader bar		

INDIVIDUAL ORDERS



FIRE TANK PC-6

The barrel is mounted on the chassis of the 2TSP-8 trailer with a turntable. The hydraulic gun rotates 360°. Volume 6 m³ Corrugated hose 20 m. The range of the liquid flow is up to 35 m.



AMMONIA TANK

Installed on the chassis of a tractor trailer. The design allows you to ride behind a tractor in tandem with a cultivator, and apply liquid ammonia across the field. Volume 7.5 m³.



WATER TANK CW-1.2

Trailer tank for drinking water with a volume of 1.2 m³. Inside is stainless steel AISI304.



SEWER TANK

Mounted on a vehicle. Volume 8 m³.



TANK FOR THE SE

Fuel tanker trailer for monitoring the SE and refueling special equipment. Volume 30 m³.



TANKER WITH TURN-OVER

For transporting slurry from the lagoon to the field. Volume 26 m³.



STAINLESS STEEL TANK

Volume 16 m³.



TWO UNITS IN ONE -

dump trailer and 4 m³ water tank



MULTILIFT TANK

For water and chemicals with a metal subframe, mounted on the chassis of all vehicles with a hook loader system. Volume 16 m³



STAINLESS STEEL TANK

Mounted on a Volvo chassis. Adaptable to trucks of all manufacturers. Volume 12 m³.



Mobile container 95 m³ is an ideal solution for storing liquid organic fertilizers. The metal container is equipped with a folding drawbar, which is aggregated with the tractor. Inside, there is an agitator, which works from the hydraulics of the tractor. It is possible to move from place to place in an empty form (without filling). The perimeter of the container is reinforced with metal beams. In the complete set, a signal lamp informs about the filling of the tank.

TACTICAL AND TECHNICAL CHARACTERISTICS

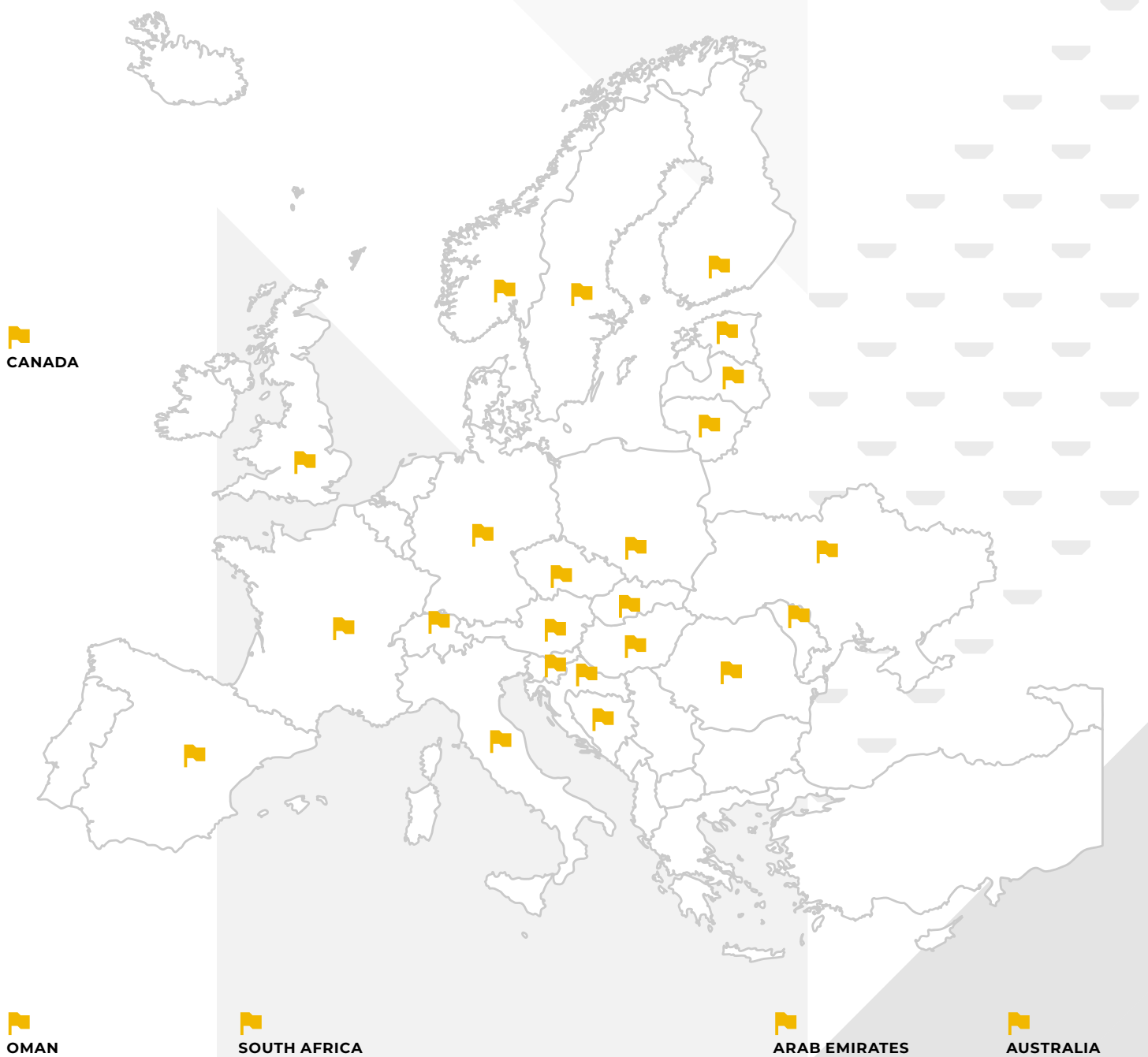
TECHNICAL SPECIFICATIONS:

- pneumatic brake system (single-circuit, dual-circuit), hydraulic, individual approach;
- ADR axles (Italy);
- discs - Pronar (Poland);
- cardan shaft Bondioli & Pavesi (Italy);
- hydraulic support;
- tow eye Ø 40 mm, 50 mm or 90 mm Scharmuller (Austria) - individual approach;
- mudguards Parlok (Finland)

ADDITIONAL EQUIPMENT:

- galvanizing of the barrel or its execution from stainless steel;
- processing of the barrel from the inside with a polymer coating;
- mechanical mixer with hydraulic drive;
- hydraulic upper hatch;
- cultivator for applying liquid organic fertilizers and UAN;
- hinged rod distributor for application;
- hydraulic gun for application;
- hydraulic manipulator of the hose for loading;
- electronic unit for connecting 5 (7) pairs of hydraulic outputs;
- hydraulic suspension.
- centrifugal pumps, vacuum pumps, motor pumps
- ejector distributor (Italy)

	VNC-6	VNC-8	VNC-10 / VNC-10(KAM)	VNC-12	VNC-16 / VNC-16(KAM)	VNC-20 / VNC-20(KAM)	VNC-26	VNC-30	VNC-36
VOLUME, M ³	6	8	10	12	16	20	26	30	36
TECHNICALLY PERMISSIBLE TOTAL MASS, KG	8 000	11 000	13000/15000	15 000	21000/26000	26000/34000	35 000	40 000	47 000
OWN WEIGHT, KG									
SIZE OF TANK: - DIAMETER, MM - LENGTH, MM	1 400 3 900	1 600 4 050	1 600 5 030	1 700 5 820	1 900 5 950	1 900 7 590	2 200 7 290	2 300 7 700	2 300 9 200
TRAILER: - LENGTH - WIDTH - HEIGHT (MM)	5 775 2 435 2 645	6 060 2 660 2 960	7 160 2 455 2 550	7 525 2 535 2 830	8 250 2 690 3 400	9 500 / 9 750 2 600 / 2 690 3 360 / 3 325	9 425 2 800 3 480	9 690 2 750 3 400	11 480 2 955 3 770
METAL THICKNESS, MM	4	5	5/6	5	6/8	6/8	8	8	8
AXLES, PCS.	1	1	2	2	2	2/3	3	3	4
SUSPENSION	Springless	Springless	spring tandem	spring tandem	spring tandem	Bogie / Springs	Hydraulic / Springs	Hydraulic	Hydraulic
TIRES	425/70-18	550/60 -22,5	425/70-18	425/70-18	550/60-22,5 560/60 R22,5	560/60 R22,5 650/55 R26,5	560/60 R22,5 650/55 R26,5	560/60 R22,5 650/55 R26,5	560/60 R22,5
TRACTOR POWER (HP)	82	90-110	120-150	120-150	200-250	250-300	250-300	300	350

**ZAVOD KOBZARENKO LLC (UKRAINE):**

 42500 Sumy region., Lypova Dolyna,
Rusanovscka street, 17

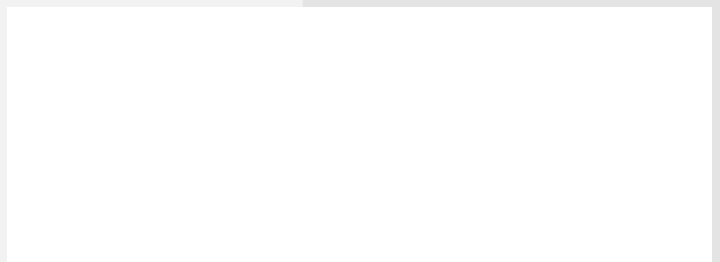
 www.kobzarenko.com.ua

KOBZARENKO SP. Z O.O. (POLAND):

 Milenijna 2, 97-410 Żłobnica

 www.kobzarenko.eu

 +48 780 089 436 +48 503 776 010

DEALER CONTACTS**VISIT OUR SOCIAL NETWORKS**

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