

# Dredgers of Ukraine



**For nearly 10 years the company "The Dredgers of Ukraine" has been specializing not only in providing dredgers services, but also in manufacturing, repair and maintenance of own brand DRW suction dredgers.**

Nowadays, suction dredgers of different class and level of output which are equipped with additional component parts and optional equipment for machinery are represented in the production line of the company in full compliance with accomplishment of tasks requirements and features.

Our specialists are always happy to help you choose and buy a dredger, which completely requires demands of intended application. Here you can choose an equipment of various types, which differs in soil development depth, pulp removal length, weight and size, output of pumping equipment, complete additional equipment and other indicators.



Real experience in operating of our own suction dredgers is considered to be the main advantage in manufacturing of such equipment. It often happens that an experienced bagger and a dredger manufacture have never seen each other. Meanwhile, the operator is better aware of peculiarities of work in different types of water bodies, soil and other conditions, this is he who has to provide maximum efficiency of equipment and, consequently, its economic advisability. That's why we use the experience of our own operating dredgers of various types to offer the market a series of appliances designed to meet the requirements, wishes and comments of those

who deal with them. In fact, to confirm these words, we successfully use our own design dredgers offering them all over the territory of Ukraine.

And in order to record the efficiency of use of dredges our development does not become empty words, we will promptly conduct a detailed briefing for customer operators on features and rules of work with the equipment, safety, subtleties derive maximum benefit for each individual hour of work equipment.

Also we are always ready to meet our customers and partners demands, equipping standard models of dredgers with additional components to enhance their functionality, reliability and performance. The list of optional equipment that is ready for installation on a particular type of dredger include: propellers, winches, screw and rotary cutters, air-conditioning systems for residential and baggers' modules, coal slurry pipelines, hydraulic boom lifting system, hydraulic ground scour equipment and other.



## DREDGERS OF UKRAINE

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# THE DREDGER DRW-400 River

The DRW-400 dredger and the GRAT 400/40 pump is designed for use in mining and processing plants, mining and metallurgical plants, thermal power plants, cement plants, diamond mining and gold mining enterprises, technological lines for crushing, mineral processing and similar industries.

## Economic indicators:

Provided that the length of the pipeline is 200 meters and the conventional geodetic lift is not more than 5 meters, this model nominally produces 60 cubic meters per hour or 600 cubic meters per 10 hours of operation. With a sand density of 1.3 tons per cubic meter, the weight of the extracted sand will be 780 tons. The extraction costs of 780 tons of sand will be 700 kilowatt-hours per hour for 10 hours. Nominal consumption of diesel fuel for 10 hours of operation  $700 \text{ kW} \times 0,226 \text{ l / kW} = 158.2$  liters. From this calculation, we conclude: To extract 780 tons of sand, 158.2 liters of diesel fuel is needed. The cost of extracting one ton of sand is  $158.2 \text{ liters} / 780 \text{ tons} = 0.2$  liters per ton.

General characteristics	
Production	400 m <sup>3</sup> /h
Water column height	40 m
The Production of the dry residue (nominal)	60 m <sup>3</sup> /h
The Production of the dry residue (maximum)	100 m <sup>3</sup> /h
Power pump for pumping pulp	60 kW
Powerpoint	90 kW
Pulp transport length (maximum)	400 m
The depth of the development (minimum)	0,4 m
The depth of the development (maximum)	8 m
Diameter solids (max)	70 mm
Diameter pressurized slurry pipeline	163 mm
Area of use	River

Characteristics	
The length of the dredger	10 m
The width of the dredge	2.4 m
Overall width with pontoons	3.9 m
The height of the dredger	3 m
Weight dredger	10 ton
Internal supply	12 V
Outdoor supply	12 Vo
Onboard power supply	12/24 V

Recommendation:	
Screw (loosening soil)	\$3500
Water cannon for pulp	\$400

Installed equipment	
Engine 93 kW (specific consumption of diesel fuel 226 g/kW)	1 pcs
Pump GRT-400/40*	1 pcs
Active milling cutter (increased productivity for light soil)	1 pcs
Auxiliary pump (ejector) 33 m / cube per hour feed at a head of 70 m	1 pcs
Reversible propeller 35 kW (dredger drive drive)	2 pcs
Hydraulic motion control	1 pcs
Hydraulic cylinder lifting main suction pipe	2 pcs
Anchor piles (length 8 meters)	2 pcs
Fixing of the dredger at the work site of the anchor, hydraulic winches	3 pcs
Anchors	3 pcs
The drive of the main pump GRT 400/40 (hydraulic motor)	1 pcs
Drive of a milling cutter (hydraulic motor)	1 pcs
Floating slurry pipeline D-163 mm	100 m
Auxiliary crane-beam	1 pcs
Fuel tank 1000 liters	1 pcs
Technical water tank 500 liters	1 pcs
The battery (200 A/h)	2 pcs

\* **Pump GRT** - centrifugal, horizontal, cantilever, single-stage, impeller with axial supply of hydraulic mixtures, are used for pumping highly abrasive slurries with pH 6-12, density up to 1600 kg / m<sup>3</sup>, temperature from +5 to +70 ° C, with solids content not more than 40% by volume, average size 6-12 mm and microhardness up to 11000 MPa. "GR"-pump type (ground with an axial inlet), "T"-accurate part with internal casing, water productivity 800 m<sup>3</sup>/hour, 70 water head meters.

## Terms of delivery and cost

Cost (FCA/CIF) - **\$45.000 US dollars**;  
 Duration of constructing - **150 cal. days**;  
 Conditions for the beginning of construction - **an advance payment of 70%**  
 The condition of shipment is payment of the remaining - **30%**.  
 Year of building - **2019**  
 Production guarantee for hull - **8 years**  
 Terms of delivery and cost - **FCA/CIF**

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