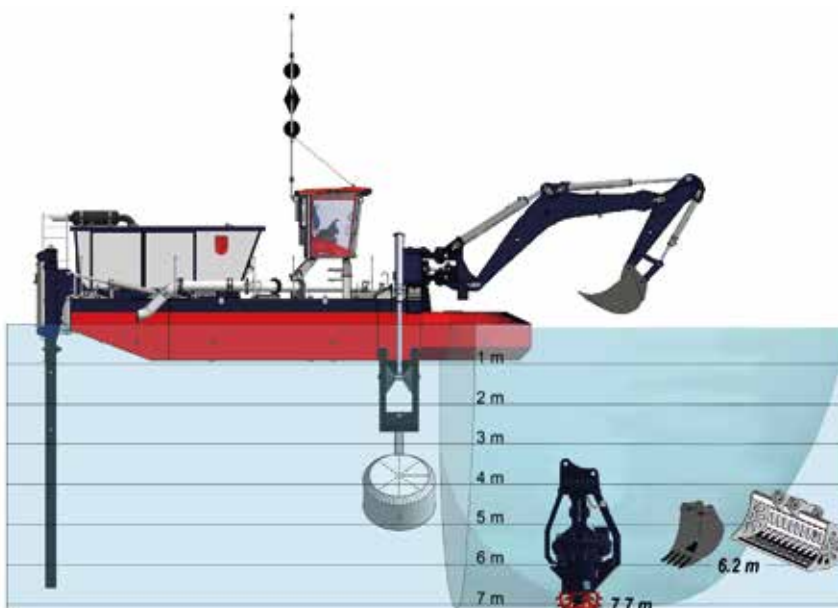


Multifunctional Amphibious Dredger

Octopus 10



Italdraghe, based on the pluriannual experience of cutter suction dredger production, has developed the multifunctional amphibious dredger in order to perform all shallow water work from dry ground to water and marshy/muddy soils. This dredger is specifically designed for multi purposes work with only one machine – water work, for working from the land side, suction dredging, excavating, raking and pile-driving.



VERSATILITY

Italdraghe differentiates from other players in the market for its flexibility given by custom made dredgers designed in order to satisfy specific customer needs.

QUALITY

Italdraghe masters the production of high-quality dredgers thanks to a deep know-how and expertise of the dredging industry developed over a more than 60 years' experience in the sector.

EFFICIENCY

Thanks to its exceptional pumping rate, low maintenance costs and low cost per cubic meter, Italdraghe can offer its clients highly efficient dredgers.

HULL

Mono hull divided into watertight compartments	
Hull length at waterline	11,50 m
Transport maximum width	3,50 m
Transport maximum height	3,80 m
Draught	0,65 m
Corrosion resistant marine painting (inside and outside the hull)	
Anti skid surface	
Navigation signals mast	
Manholes to enter watertight spaces	

CABIN

Engine and hydraulic system control instruments panel	
Seat with arms joystick control	
360 - degree visibility	
Interior and external working lights	24 Volts

DIESEL ENGINE

FPT (Iveco motors) turbo charged (or equivalent brand)	
6-L cylinders	
Displacement	8,7 liters
Power	230 kW
Fuel capacity	2500 liters
Water-cooled by radiator	
Electric starting	24 Volts

HYDRAULIC SYSTEM

Variable capacity pump for dredging and propulsion	
Piston pump for stabilizers and excavator arm	
Maximum working pressure	350 bar

STABILIZERS

Two liftable stabilizers at the bow	
Maximum depth	6 m
Two liftable stabilizers at the stern	
Maximum depth	7 m

EXCAVATOR

Swinging angle	180°
Break-out force	85 kN
Digging force	50 kN
Digging depth	7,7 m
Lifting capacity at maximum reach	25 kN

WORKING TOOLS

Dredging head with submergible pump - type BD2 with cutter	
Maximum capacity slurry	700 m ³ /h
Maximum pumping distance	1200 m
Cutter diameter	600 mm
Stability side pontoons	

MAIN CHARACTERISTICS

- Available custom made in order to satisfy the specific customer request
- Dismountable and transportable by road, rail or sea
- Self loading and unloading system from the means of transport
- Easy and fast assembly and dismantling
- Moved by diesel engine
- Environmental friendly dredger
- Low maintenance costs
- Highly efficient in terms of fuel consumption
- Self launching and mobilizing without crane
- Easy to operate by a single person from the control cabin
- Diesel engine water-cooled by radiator
- Self propelled by hydraulic rudder propeller
- Spare parts available from stock

ADDITIONAL FEATURES

- Right and left rainbow lance
- Positioning system
- Air conditioning
- In loco operators' training
- Multiple quickly interchangeable tools to be applied on such as:
 - Dredging head with submergible pump - octopus 10 can be equipped either with BD1 or with BD2
 - Cutter rake bucket for cutting and harvesting vegetation (i.e. water hyacinths)
 - Bucket for excavation work
 - Clamshell bucket
- RINA Class C ★ HULL DREDGER

Model	Unit	BD1	BD2
Mixture capacity max*	[m ³ /h]	500	700
Impeller speed max	[rpm]	1700	1300
Max power at shaft*	[kW]	80	100
Suction diameter	[mm]	150	180
Discharge diameter	[mm]	150	180
Spherical passage	[mm]	60	90
Impeller size	[mm]	360	460
Total head	[m]	56	60
Weight (without cutter head)	[kg]	450	900
Total weight (with cutter head)	[kg]	750	1200
Max hydraulic pressure*	[bar]	340	350
Max hydraulic pump flow*	[L/min]	198	200

CUTTER MODEL

Cutter power	[kW]	15	18
Oil capacity	[L/min]	25-30	25-35
Oil pressure	[bar]	340	350

WATER JET MODEL

Water capacity	[m ³ /h]	60-130	80-150
Water pressure	[bar]	6	6

*Maximum values that might be subject to partial reduction depending on specific working conditions

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