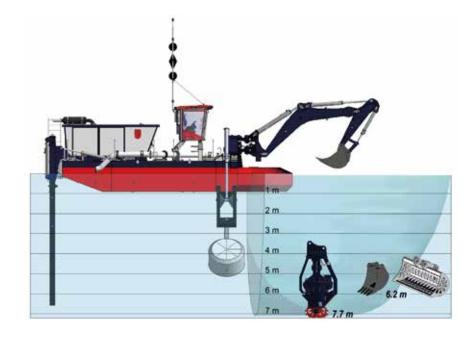
Multifunctional Amphibious Dredger

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	
Waterline length	11,50 m
Width at transport without side pontoons	3.50 m
Transport height	3′,30 m
Average draught full load	0,65 m
Effective Dredging depth with dredging pump	7.00 m
Effective Dredging depth in backhoe dredging	6.00 m
Corrosion resistant marine painting (inside and outside	the hull)
Manhole to enter watertight spaces	ĺ
CABIN	
Engine and hydraulic system control instruments panel	

DIESEL ENGINE	
Radio	
Air conditioning	
Interior and external working lights	24 Volts
360 - degree visibility	
Seat with arms joystick control	
Engine and hydraulic system control instruments panel	
CABIN	
Manifole to effici watertight spaces	

FPT C9 turbo charged (or equivalent br	rand) 6-L
cylinders 4 strokes	
Displacement	8.7 liters
Power	230 kW
Fuel capacity	1500 liters
Water-cooled by radiator	
Electric starting	24 Volts

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Electric starting			24 Volt
HYDI	RAUL	IC SYSTEM	
Variable capacity pump for d			
Piston pump for stabilizers ar Maximum working pressure	nd exc	avator arm	350 ba
ST	ABIL	IZERS	
Two liftable stabilizers at the	bow	Maximum depth	6 m
Two liftable stabilizers at the	stern	Maximum depth	7 m
E	KCAV	ATOR	

EXCAVATOR	
Swinging angle	175° / 180°
Bucket cylinder breakout force	85 kN
Arm cylinder digging force	50 kN
Digging depth	7,0 m
Lifting force at maximum boom radius	25 kN

PROPULSION

Azimuthal rotation 40°+40° by hydraulic jac	ck
Power	75 k'
Hydraulic depth regulation for raising of the	e propeller
and operating in shallow water	

MAIN CHARACTERISTICS

- Available custom made in order to satisfy the specific customer requests
- Dredging head with submergible pump -octopus 10 can be equipped either by BD1 or BD2
- Dismountable and transportable by road or sea
- · Easy and fast assembly and dismounting
- Moved by diesel energy
- · 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
- · Self propelled by hydraulic rudder propeller
- · Multiple interchangable tools
- · Spare parts available from stock
- · Quality certificate ISO 9001:2015

ADDITIONAL FEATURES

- ·RINA or BV Class * HULL DREDGER
- · Right and left rainbow lance
- · Positioning system
- · In loco operators' training

Multiple quickly interchangeable tools to be applied on such as:

- ✓ Cutter dredging rake for cutting and harvesting vegetation (i.e. water hyacinths) width, mm. 2750-height mm.-900
- ✓ Grab bucket clamshell 600 Liters
- ✓ Beckhoe dredging bucket with teeth 600 Liters

Model	Unit	BD1	BD2	
Mixture capacity max*	[m ³ / h]	600	900	
Impeller speed max	[rpm]	1700	1300	
Max power at shaft*	[kW]	90	110	
Discharge diameter	[mm]	250	250	
Spherical passage	[mm]		90	
Impeller size	[mm]	60	460	
Total head		360		
	[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]	14	16	
Oil capacity	[L/min]	30	30	
Oil pressure	[bar]	340	350	
	[Sail			
WATER JET MODEL				
Water capacity	[m ³ /h]	130	150	
Water pressure	[bar]	6	6	
*Maximum values that might be subject to				

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

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