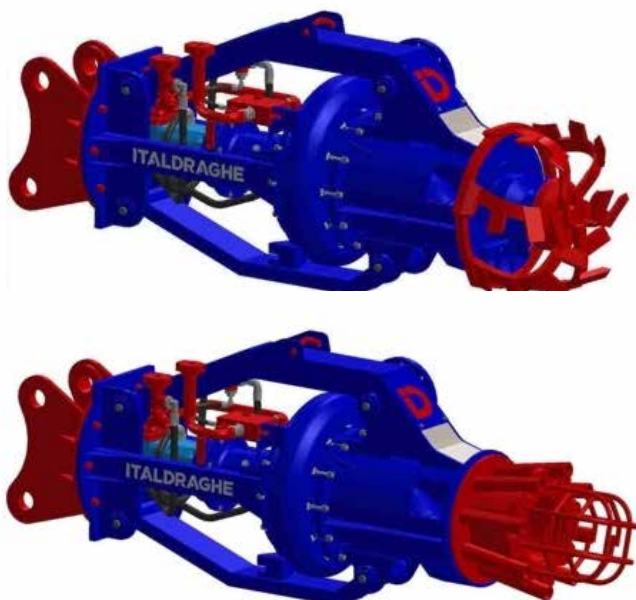


Dredging Head - Submersible Pump

BD



The dredging head is a high efficient and modular heavy-duty submersible dredge pump unit. This pump unit has several dredging tools and connectors to adapt to every situation and environment. The dredging head is ideal for small-scale dredging projects in narrow canals, small reservoirs or harbours where only a few thousand cubic meters of material need to be removed and where employing a full-size dredger would prove impractical and uneconomical. The dredging head is compatible with all types of hydraulic excavator whether land-based or floating.



VERSATILITY

Italdraghe differentiates from other players in the market for its flexibility given by innovative solutions designed in order to satisfy specific customer needs and to adapt to every circumstance and environment.

QUALITY

Italdraghe masters the production of high-quality products 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 dredging products.

PUMP UNIT CHARACTERISTICS

- Smart solution to perform dredging activity using already available excavators
- Fits both excavators and dredgers
- Can be mounted at need and dismantled without unnecessary waste of time
- The material can be pumped in a rainbow jet or directly in a discharge pipe
- Hydraulically driven

MAIN ADVANTAGES

- Specifically designed for special dredging projects and/or high depths
- Simple quick-fit installation
- Easy and low maintenance costs
- Easy to operate – one man operation
- Driven directly by excavator's own power source
- Large spherical passage
- Compatible with all brands of hydraulic excavators

ITALDRAGHE SUPPORT

- Dredge advice and support
- Training
- Aftersales
- Spare parts
- Maintenance
- Automatic dredge drive
- Available in multiple models from stock

OPERATIONAL AREAS

- Sand mining
- Gravel mining
- Cleaning harbour, rivers, dam
- Hopper barges
- Hard-to-access stretches of water

MULTIPLE CONNECTION ALTERNATIVES

- Excavator quick coupler
- Steel cable on a winch (crane usage)
- Pump ladder on the dredger
- Both on-land and floating excavators

POSSIBLE DREDGE TOOLS

- Water jet for sand, gravel and slurry
- Cutter head for sand, gravel, clay and chalk
- Auger head for sand gravel and slurry



Model	Unit	BD1	BD2	BD3	BD4	BD5	BD6	BD7
Mixture capacity max*	[m ³ /h]	500	700	900	1300	1800	1900	3160
Impeller speed max	[rpm]	1700	1300	1100	950	1000	800	670
Max power at shaft*	[kW]	80	100	185	210	280	400	536
Suction diameter	[mm]	150	180	200	250	300	350	400
Discharge diameter	[mm]	150	180	200	250	300	300	400
Spherical passage	[mm]	60	90	100	125	200	160	200
Impeller size	[mm]	360	460	565	660	600	760	920
Total head	[m]	56	60	60	60	50	64	65
Weight (without cutter head)	[kg]	450	900	1780	2500	2600	4000	5300
Total weight (with cutter head)	[kg]	750	1200	2175	3000	3100	5200	6300
Max hydraulic pressure*	[bar]	340	350	360	310	360	310	350
Max hydraulic pump flow*	[L/min]	198	200	257	532	575	800	1400
CUTTER MODEL								
Cutter power	[kW]	15	18	25	30	30	35	55
Oil capacity	[L/min]	25-30	25-35	40-45	90-100	90-100	100-115	100-115
Oil pressure	[bar]	340	350	360	310	310	200	300
WATER JET MODEL								
Water capacity	[m ³ /h]	60-130	80-150	130-250	200-300	200-300	350-400	350-400
Water pressure	[bar]	6	6	6	6	6	6	6

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

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