DRAGA 1800 JET SUCTION DREDGER

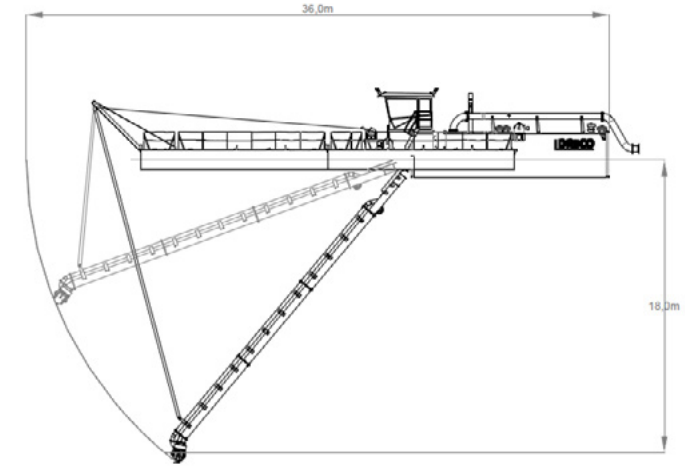
INNOVATIVE – SUSTAINABLE – ROBUST

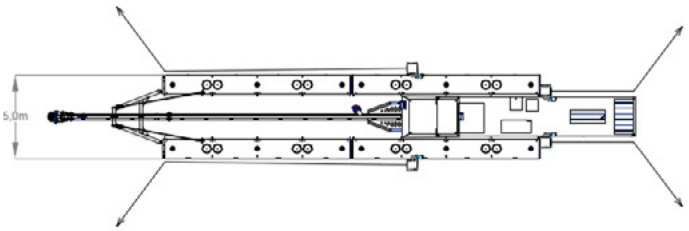
Electric-driven: lowest cost per cubic meter. No emission, minimal noise pollution.

In-house **iPump®** line: developed through sixty years of experience in sand- and gravel extraction. Wear resistant for increased life span, optimal suction characteristics, adaptable for a wide range of tasks.

In-house **iDredge® control- and automation system:** ensuring increased efficiency and reduced power consumption. Optional: remote controlled dredge systems and data collection for automated analyses on performance.

Containerized for low-cost transportation worldwide and inland delivery to remote locations. Relocation facilitated through the iPlug-and-Dredge Concept. **Modular** design for industry-leading delivery times and continuous **availability of spare parts.**





Logistiekweg 5 – 7007 CJ Doetinchem – The Netherlands – +31 314 66 70 01 – sales@rohr-idreco.com – rohr-idreco.com

DRAGA 1800 JET SUCTION DREDGER

TECHNICAL SPECIFICATIONS

FEATURES

– Transportable in three shipping containers
– Efficient Electric Drive System
– Small Environmental Footprint
– Low Noise & Vibration Level
– One-man Operation

DREDGING FEATURES

Max. Dredging Depth:	18	[m]
Nominal Mixture Flow:	1000 – 2400	[m^3/h]
Available Suction Diameter:	300 – 450	[mm]
Available Discharge Diameter:	250 – 400	[mm]
Available Dredge Pump Sizes:	300 / 350 / 400	[mm]
Min. Spherical Pump Passage:	160	[mm]

DREDGE PUMP DRIVE

Power Source:	Electric feed cable	
Reduction drive:	V-belt	
Available Dredge Pump Power:	315 / 400 / 500	[kW]

JET PUMP

Jet Pump Flow:	230 / 280	[m^3/h]
Jet Pump Pressure:	8	[bar]
No. Jet Nozzles:	8	[pcs]

PRINCIPLE DIMENSIONS

Length o.a. with raised ladder:	36	[m]
Length over pontoons:	29	[m]
Width:	5	[m]
Depth:	1.5	[m]
Draught:	1	[m]
Main Pontoon LxWxH:	12 x 2.5 x 2.8	[m]
Side Pontoons LxWxH:	23 x 1.25 x 1.5	[m]
Total dry weight:	56	[ton]
Air draught:	4.2	[m]

ELECTRIC INSTALLATION

Primary Voltage:	6 / 10	[kV]
Secondary Voltage (3-Fase):	400	[Vac]
Dredge Pump Power Source:	VFD	
Jet Pump Power Source:	Soft starter / VFD	
Mooring Winches:	DOL starter	

DECK INSTALLATION

Suction Tube Hoisting Winch (Electric):	25	[kN]
Mooring Winches (Electric):	30	[kN]
Mooring Winch Wire Capacity:	200	[m]

DECK CRANE

Lifting Capacity:	15	[kN]
Outreach:	2.2	[m]

TOOLS

– Special tools are supplied for maintenance of dredge pump

INSTRUMENTATION

– **iDredge®** Dredger Control System
– Dredging Depth Indication
– Vacuum and Pressure Indication of Dredge Pump

OPTIONAL EQUIPMENT

– DGPS Dredge Mining Control System
– Production Measurement
– Discharge Velocity Measurement
– Additional Hydraulic Excavation Head
– Wedge piece for small min. Dredging depths
– Floating discharge pipe line
– Floating high voltage supply cable
– Remote dredge monitoring
– Direct drive PM motor

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