



WEIFANG DRAGON MACHINERY TECHNOLOGY CO., LTD

DESIGN

The high qualified experts design and build Innovative dredgers and water conservancy, construction machinery and advanced equipment based on their vast worldwide Experience of the Bradzine construction and water conservancy industries which can supply enough Solutions for the customers

OPERATION

With professional operation team of machines, We can send ooperators to customer's site at any time in case there is such need, so the project can be accomplished as planned. Although customers are responsible for the related cost, it can maximize the benefits of machines and professional operation helps to save time and cost in the long term

LIFE-CYCLE SUPPORT

DRAGON team supplies high-quality and up-to-date training services for the site operation people to ensure that crews operate the machines in a highly skilled and efficient manner to achieve optimum levels of productivity. DRAGON life-cycle support also allows operators to maintain the durability and reliability of their systems through a range of specialist services.

DRAGON team wants to be prepared for every eventuality and provide limitless logistical support to its customers. This includes attention to system availability with the immediate supply of spare parts and repair of components. With this approach, the complete DRAGON global network of qualified service technicians, solicing others and local service offices are available to all cus tomers.

TRAINING

MAINTENANCE

INNOVATION REFORMS THE WORLD!

Weifang Dragon Machinery Technology Co. Ltd focuses on the research, designing and manufacturing of all kinds of dredger, water conservancy machinery and aquatic construction equipment.

We are a professional manufacturer and reliable service provider of dredging machines, water conservancy machines and construction machinery. With many years' experience, DRAGON team can design and manufacture a variety of high-quality engineering machinery according to customesrs' requests. Dragon products are famous for simple operation, reliable performance, perfect environmental adaptability, low cost and long working life.

Depending on the advantages of strong technology, high quality and good service, DRAGON products have been exported to dozens of countries in South-East Asia, South Asia, Central Asia, Africa, Middle East. On the basis of superior products. DRAGON products are improving by adopting new technology and bringing in talents constantly. In addition, DRAGON has built good cooperation relationship with many famous domestic related colleges and intitues like Ocean University of China. With increasing innovation ability, outstanding and flexible customization ability, growing delivery ability, DRAGON team is winning more and more trust and cooperation from customers and partners. DRAGON team always believe, with our hard working, we will help building a better future with all the world.



General Introduction

DRAGON dredger can apply to most kinds of soil structures and is widely used in mineral digging, river and port dredging and reclamation work. With the advantages of higher efficiency, stronger construction, better economic performance and lower operating costs, DRAGON dredgers can be reliably operated in complicated project conditions. The advanced equipment integrated within DRAGON cutter suction dredgers delivers a range of benefits to its global customer base. DRAGON team focuses on de signing and improving the equipment to meet the demands of the dredging world. Higher productivity and reduced operating costs as well as optimum efficiency and minimal downtime.contribute to the profitability of each dredging project.

Modular Structure

DRAGON modular construction means they can be delivered fast, are easy to transport, and can be commissioned quickly at dredging sites. One main pontoon houses the cutter ladder, ladder actuator rams or winches, control cabin, dredge pump, diesel engines, auxiliary power units, discharge line, and the spuds, including their actuator rams. Two side pontoons provide the vessel with buoyancy and storage space. They are connected to the main pontoon with a quick connection-disconnection system. All the parts are of a size which allows the dredgers to be easily transported by road, rail or sea.

Standardization

During designing, DRAGON team always try to make dredgers standardized which can be easily adapted to customers' requirements, resulting in fit-for-purpose vessels with minimal delivery times and costs. For example, the same basic design is able to carry a variety of different cutting tools, dredge pumps, and electric or hydraulic winches. It can also be adapted to work at different dredging depths. This means several different equipment combinations are possible, and a beneficial ratio can be maintained between installed power and production levels.



8 Inch (DGCSD200) Cutter Suction Dredger



10 Inch (DGCSD250) Cutter Suction Dredger

Principal Parameters

Length overall (Ladder in horizontal level)	20 m
Breadth Overall	4.8 m
Height Overall	3.9m
Main Pontoon	9 x 2.2 x 1.4 m
Side Pontoon	13 x 1.3 x 1.4 m
Average Draft with Full Bunder approx	0.8 m
Standard Dredging Depth	8 m
Standard Discharge Distance	500 m
Diameter of Suction Pipe/Discharge Pipe	250 / 200 mm
Solid Capacity	70 - 100 m ³ /h
Total Power Installation	198 kw

Dredge Pump

Model	DG150G-F
Water Flow	500 m ³ /h
Maximum Speed	1000 rpm

Engine Installation

Main engine	Cummins NT855-M
Rated Power / Speed	178kw / 1800rpm

Electricity Supply

Auxiliary Alternator	20 kw
Berth Genset	20 kw

Cutter

Diameter	800 mm, 5 Blades, 30 Alloying Teeth
Shaft Power	30 kw
Maximum Speed	40 rpw

Winches

Ladder Winch Force	30 kN @ Second Layer
Wire Rope Length / Diameter	90m / 16mm
Swing Winch Force	30 kN @ Second Layer
Wire Rope Length / Diameter	100m / 14mm

Note: Due to the continuous improvement of products, we reserve the rights to modify product model and parameters without any notice

Principal Parameters

Length overall (Ladder in horizontal level)	24.5 m
Breadth Overall	5.2 m
Height Overall	4.4 m
Main Pontoon	10.5 x 2.2 x 1.6 m
Side Pontoon	16.5 x 1.5 x 1.6 m
Average Draft with Full Bunder approx	1.0 m
Standard Dredging Depth	10 m
Standard Discharge Distance	800 m
Diameter of Suction Pipe/Discharge Pipe	300 / 250 mm
Solid Capacity	120 - 160 m ³ /h
Total Power Installation	356 kw

Dredge Pump

Model	DG200G-F
Water Flow	800 m ³ /h
Maximum Speed	850 rpm

Engine Installation

Main engine	Cummins NTA855-M
Rated Power / Speed	336kw / 1800rpm

Electricity Supply

Auxiliary Alternator	20 kw
Berth Genset	20 kw

Cutter

Diameter	1000 mm, 5 Blades, 45 Alloying Teeth
Shaft Power	40 kw
Maximum Speed	40 rpw

Winches

Ladder Winch Force	40 kN @ Second Layer
Wire Rope Length / Diameter	100m / 16mm
Swing Winch Force	40 kN @ Second Layer
Wire Rope Length / Diameter	100m / 16mm

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12 inch (DGCSD300) Cutter Suction Dredger



16 Inch (DGCSD400) Cutter Suction Dredger

Principal Parameters

Length overall (Ladder in horizontal level)	26.5 m
Breadth Overall	5.4 m
Height Overall	4.5 m
Main Pontoon	11.5 x 2.2 x 1.6 m
Side Pontoon	18 x 1.6 x 1.6 m
Average Draft with Full Bunder approx	1.05 m
Standard Dredging Depth	11 m
Standard Discharge Distance	1000 m
Diameter of Suction Pipe/Discharge Pipe	350 / 300 mm
Solid Capacity	180 - 240 m ³ /h
Total Power Installation	589 kw

Dredge Pump

Model	DG250G-G
Water Flow	1200 m ³ /h
Maximum Speed	750 rpm

Engine Installation

Main engine	Cummins KTA19-P750
Rated Power / Speed	559kw / 1800rpm

Electricity Supply

Auxiliary Alternator	30 kw
Berth Genset	30 kw

Cutter

Diameter	1100 mm, 5 Blades, 45 Alloying Teeth
Shaft Power	60 kw
Maximum Speed	40 rpw

Winches

Ladder Winch Force	40 kN @ Second Layer
Wire Rope Length / Diameter	100m / 16mm
Swing Winch Force	40 kN @ Second Layer
Wire Rope Length / Diameter	100m / 18mm

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Principal Parameters

Length overall (Ladder in horizontal level)	33 m
Breadth Overall	6.8 m
Height Overall	6.0 m
Main Pontoon	13.5 x 3.2 x 1.8 m
Side Pontoon	22 x 1.8 x 1.8 m
Average Draft with Full Bunder approx	1.1 m
Standard Dredging Depth	14 m
Standard Discharge Distance	1500 m
Diameter of Suction Pipe/Discharge Pipe	400 / 400 mm
Solid Capacity	300 - 400 m ³ /h
Total Power Installation	776 kw

Dredge Pump

Model	DG300G-G
Water Flow	2000 m ³ /h
Maximum Speed	700 rpm

Engine Installation

Main engine	Cummins KTA38-M1
Rated Power / Speed	746 kw/ 1800rpm

Electricity Supply

Auxiliary Alternator	30 kw
Berth Genset	30 kw

Cutter

Diameter	1400 mm, 5 Blades, 55 Alloying Teeth
Shaft Power	100 kw
Maximum Speed	35 rpw

Winches

Ladder Winch Force	60 kN @ Second Layer
Wire Rope Length / Diameter	140m / 22mm
Swing Winch Force	60 kN @ Second Layer
Wire Rope Length / Diameter	120m / 22mm

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18 inch (DGCSD450) Cutter Suction Dredger



20 Inch (DGCSD500) Cutter Suction Dredger

Principal Parameters

Length overall (Ladder in horizontal level)	34.5 m
Breadth Overall	7.4 m
Height Overall	6.2 m
Main Pontoon	13.3 x 3.2 x 2.0 m
Side Pontoon	22 x 2.1 x 2.0 m
Average Draft with Full Bunder approx	1.2 m
Standard Dredging Depth	15 m
Standard Discharge Distance	1500 m
Diameter of Suction Pipe/Discharge Pipe	500 / 450 mm
Solid Capacity	420 - 560 m ³ /h
Total Power Installation	1000 kw

Dredge Pump

Model	DGWN400
Water Flow	2800 m ³ /h
Maximum Speed	550 rpm

Engine Installation

Main engine	Cummins KTA38-M1
Rated Power / Speed	746kw / 1800rpm
Auxiliary Engine	Cummins NT855-M
Rated Power / Speed	224kw / 1800rpm

Electricity Supply

Auxiliary Alternator	30 kw
Berth Genset	30 kw

Cutter

Diameter	1600 mm, 5 Blades, 55 Alloying Teeth
Shaft Power	130 kw
Maximum Speed	35 rpw

Winches

Ladder Winch Force	80 kN @ Second Layer
Wire Rope Length / Diameter	150m / 24mm
Swing Winch Force	80 kN @ Second Layer
Wire Rope Length / Diameter	130m / 24mm

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Principal Parameters

Length overall (Ladder in horizontal level)	35 m
Breadth Overall	7.7 m
Height Overall	6.45 m
Main Pontoon	14 x 3.3 x 2.25 m
Side Pontoon	22 x 2.2 x 2.25 m
Average Draft with Full Bunder approx	1.2 m
Standard Dredging Depth	15 m
Standard Discharge Distance	1500 m
Diameter of Suction Pipe/Discharge Pipe	600 / 500 mm
Solid Capacity	520 - 700 m ³ /h
Total Power Installation	1233 kw

Dredge Pump

Model	DGWN450
Water Flow	3500 m ³ /h
Maximum Speed	500 rpm

Engine Installation

Main engine	Cummins KTA38-M2
Rated Power / Speed	895 kw/ 1800rpm
Auxiliary Engine	Cummins NTA855-M
Rated Power / Speed	298kw / 1800rpm

Electricity Supply

Auxiliary Alternator	40 kw
Berth Genset	40 kw

Cutter

Diameter	1800 mm, 5 Blades, 60 Alloying Teeth
Shaft Power	170 kw
Maximum Speed	30 rpw

Winches

Ladder Winch Force	100 kN @ Second Layer
Wire Rope Length / Diameter	150m / 28mm
Swing Winch Force	80 kN @ Second Layer
Wire Rope Length / Diameter	130m / 24mm

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22 inch (DGCSD550) Cutter Suction Dredger



24 Inch (DGCSD600) Cutter Suction Dredger

Principal Parameters

Length overall (Ladder in horizontal level)	36.5 m
Breadth Overall	8.0 m
Height Overall	6.8 m
Main Pontoon	14 x 3.6 x 2.4 m
Side Pontoon	23 x 2.2 x 2.4 m
Average Draft with Full Bunder approx	1.3 m
Standard Dredging Depth	16 m
Standard Discharge Distance	2000 m
Diameter of Suction Pipe/Discharge Pipe	650 / 550 mm
Solid Capacity	680 - 900 m ³ /h
Total Power Installation	1792 kw

Dredge Pump

Model	DGWN500
Water Flow	4500 m ³ /h
Maximum Speed	450 rpm

Engine Installation

Main engine	Cummins KTA50-M
Rated Power / Speed	1193kw / 1800rpm
Auxiliary Engine	Cummins KTA19-P750
Rated Power / Speed	559kw / 1800rpm

Electricity Supply

Auxiliary Alternator	40 kw
Berth Genset	40 kw

Cutter

Diameter	1800 mm, 5 Blades, 60 Alloying Teeth
Shaft Power	200 kw
Maximum Speed	30 rpw

Winches

Ladder Winch Force	120 kN @ Second Layer
Wire Rope Length / Diameter	180m / 30mm
Swing Winch Force	120 kN @ Second Layer
Wire Rope Length / Diameter	150m / 30mm

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Principal Parameters

Length overall (Ladder in horizontal level)	37.5 m
Breadth Overall	8.2 m
Height Overall	6.9 m
Main Pontoon	15 x 3.6 x 2.5 m
Side Pontoon	24 x 2.3 x 2.5 m
Average Draft with Full Bunder approx	1.3 m
Standard Dredging Depth	16 m
Standard Discharge Distance	2500 m
Diameter of Suction Pipe/Discharge Pipe	700 / 600 mm
Solid Capacity	830 - 1100 m ³ /h
Total Power Installation	2063 kw

Dredge Pump

Model	DGWN500
Water Flow	5500 m ³ /h
Maximum Speed	450 rpm

Engine Installation

Main engine	Cummins KTA50-M
Rated Power / Speed	1342 kw/ 1900rpm
Auxiliary Engine	Cummins KTA38-M0
Rated Power / Speed	671kw / 1800rpm

Electricity Supply

Auxiliary Alternator	50 kw
Berth Genset	50 kw

Cutter

Diameter	2000 mm, 5 Blades, 70 Alloying Teeth
Shaft Power	250 kw
Maximum Speed	30 rpw

Winches

Ladder Winch Force	150 kN @ Second Layer
Wire Rope Length / Diameter	180m / 28mm
Swing Winch Force	150 kN @ Second Layer
Wire Rope Length / Diameter	150m / 34mm

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Optional Equipment for
Cutter Suction Dredger



Principal Parameters

Length overall (Ladder in horizontal level)	39 m
Breadth Overall	8.8 m
Height Overall	7 m
Main Pontoon	15 X 3.8 x 2.6 m
Side Pontoon	25 x 2.5 x 2.6 m
Average Draft with Full Bunder approx	1.35 m
Standard Dredging Depth	17 m
Standard Discharge Distance	3000 m
Diameter of Suction Pipe/Discharge Pipe	750 / 650 mm
Solid Capacity	1000 - 1300 m ³ /h
Total Power Installation	2660 kw

Dredge Pump

Model	DGWN600
Water Flow	6500 m ³ /h
Maximum Speed	420 rpm

Engine Installation

Main engine	Cummins QSK60-M
Rated Power / Speed	1864kw / 1800rpm
Auxiliary Engine	Cummins KTA38-M1
Rated Power / Speed	746kw / 1800rpm

Electricity Supply

Auxiliary Alternator	50 kw
Berth Genset	50 kw

Cutter

Diameter	2200 mm, 5 Blades, 80 Alloying Teeth
Shaft Power	350 kw
Maximum Speed	30 rpw

Winches

Ladder Winch Force	180 kN @ Second Layer
Wire Rope Length / Diameter	180m / 38mm
Swing Winch Force	150 kN @ Second Layer
Wire Rope Length / Diameter	150m / 34mm

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Optional Equipment for Cutter Suction Dredger



Spud Carriage 台车



Hydraulic Propeller 液压推进器



Double Wheel Cutter 双刀轮



Auger Cutter 螺旋刀头

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DGMSD150 Mini Suction Dredger

Principal Parameters

Pontoon Length	5.8 m
Pontoon Breadth	2.3 m
Pontoon Height	1.0 m
Average Draft	0.5 m
Standard Suction Depth	12 m
Standard Discharge Distance	100 m
Diameter of Suction / Discharge Pipe	150/150 mm
Sand Capacity	30-50 m ³ /h
Total Power Installation	90 kw

Dredge Pump

Model	DGNS150
Water Flow	200 m ³ /h
Maximum Speed	1000 rpm

Jet Water Pump

Model	3 inch
Water Flow	60 m ³ /h

Engine Installation

Sand Pump Engine	Huafeng
Power	75 kw
Water Pump Engine	Changchai
Power	15 kw

Suction Nozzle and Hose

Nozzle Material	Steel
Nozzle Length	5 m
Suction Hose Material	Rubber
Suction Hose Length	8 m

Winch

Winch Force	20 kN @ Second Layer
Wire Rope Length	40 m
Wire Rope Diameter	12 mm

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DGSSD200 Small Suction Dredger



DGSSD250 Small Suction Dredger

Principal Parameters

Pontoon Length	5.8 m
Pontoon Breadth	3.0 m
Pontoon Height	1.1 m
Average Draft	0.5 m
Standard Suction Depth	12 m
Standard Discharge Distance	200 m
Diameter of Suction / Discharge Pipe	200 / 200 mm
Sand Capacity	60-80 m ³ /h
Total Power Installation	135 kw

Dredge Pump

Model	DGNS200
Water Flow	400 m ³ /h
Maximum Speed	1000 rpm

Jet Water Pump

Model	4 inch
Water Flow	80 m ³ /h

Engine Installation

Sand Pump Engine	Huafeng
Power	110 kw
Water Pump Engine	Changchai
Power	25kw

Suction Nozzle and Hose

Nozzle Material	Steel
Nozzle Length	5 m
Suction Hose Material	Rubber
Suction Hose Length	8 m

Winch

Winch Force	30 kN @ Second Layer
Wire Rope Length	40 m
Wire Rope Diameter	14 mm

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Principal Parameters

Pontoon Length	8.0 m
Pontoon Breadth	3.0 m
Pontoon Height	1.2 m
Average Draft	0.6 m
Standard Suction Depth	15 m
Standard Discharge Distance	300 m
Diameter of Suction / Discharge Pipe	250/250 mm
Sand Capacity	80-100 m ³ /h
Total Power Installation	190 kw

Dredge Pump

Model	DGNS250
Water Flow	600 m ³ /h
Maximum Speed	900 rpm

Jet Water Pump

Model	5 inch
Water Flow	110 m ³ /h

Engine Installation

Sand Pump Engine	Huafeng
Power	150 kw
Water Pump Engine	Changchai
Power	40 kw

Suction Nozzle and Hose

Nozzle Material	Steel
Nozzle Length	5 m
Suction Hose Material	Rubber
Suction Hose Length	12 m

Winch

Winch Force	40 kN @ Second Layer
Wire Rope Length	50 m
Wire Rope Diameter	14 mm

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10/8 Inch (DGSD200) Suction Dredger



12/10 Inch (DGSD250) Suction Dredger

Principal Parameter

Length Overall	17 m
Breadth Overall	4.2 m
Height Overall	6.3 m
Main Pontoon	8 x 2.2 x 2.2 m
Side Pontoon	11.5 x 1.0 x 1.3 m
Average Draft with Full Bunders approx	0.6 m
Standard Suction Depth	16 m
Standard Discharge Distance	700 m
Diameter of Suction / Discharge Pipe	250 / 200 mm
Solid Capacity	100 - 150 m ³ /h
Total Power Installation	242 kw

Dredge Pump

Model	250ND-22
Water Flow	800 m ³ /h
Maximum Speed	750 rpm

Jet Water Pump

Model	IS150-125-400
Water Flow	185 m ³ /h
Maximum Speed	1450 rpm

Engine Installation

Sand Pump Engine	Weichai WD10C258-15
Rated Power / Speed	190kw / 1500rpm
Water Pump Engine	Weituo ZH4102ZP
Rated Power / Speed	52kw / 2000rpm

Electricity Supply

Auxiliary Alternator	10 kw
Battery	24 v

Winch

Winch Force	30 kN @ Second Layer
Wire Rope Length	70 m
Wire Rope Diameter	12 mm

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Principal Parameter

Length Overall	17 m
Breadth Overall	4.2 m
Height Overall	6.3 m
Main Pontoon	8 x 2.2 x 2.2 m
Side Pontoon	11.5 x 1.0 x 1.3 m
Average Draft with Full Bunders approx	0.6 m
Standard Suction Depth	18 m
Standard Discharge Distance	800 m
Diameter of Suction / Discharge Pipe	300 / 250 mm
Solid Capacity	150 - 200 m ³ /h
Total Power Installation	282 kw

Dredge Pump

Model	250PNS-30
Water Flow	1100 m ³ /h
Maximum Speed	750 rpm

Jet Water Pump

Model	IS150-125-400
Water Flow	200 m ³ /h
Maximum Speed	1450 rpm

Engine Installation

Sand Pump Engine	Weichai WD10C312-18
Rated Power / Speed	230kw / 1800rpm
Water Pump Engine	Weituo ZH4102ZP
Rated Power / Speed	52kw / 2000rpm

Electricity Supply

Auxiliary Alternator	10 kw
Battery	24 v

Winch

Winch Force	40 kN @ Second Layer
Wire Rope Length	70 m
Wire Rope Diameter	14 mm

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14/12 Inch (DGSD300) Suction Dredger

14/12寸 (DGSD300) 射吸式抽沙船

14/12 Inch (DGSD300) Suction Dredger

Principal Parameter

Length Overall	18 m
Breadth Overall	4.4 m
Height Overall	6.3 m
Main Pontoon	9 x 2.2 x 2.2 m
Side Pontoon	11.5 x 1.1 x 1.3 m
Average Draft with Full Bunders approx	0.6 m
Standard Suction Depth	20 m
Standard Discharge Distance	1000 m
Diameter of Suction / Discharge Pipe	350 / 300 mm
Solid Capacity	200 - 300 m ³ /h
Total Power Installation	465 kw

Dredge Pump

Model	350PNS-35
Water Flow	1800 m ³ /h
Maximum Speed	730 rpm

Jet Water Pump

Model	IS150-125-400
Water Flow	200 m ³ /h
Maximum Speed	1450 rpm

Engine Installation

Sand Pump Engine	Weichai WP12C550-21E121
Rated Power / Speed	405kw / 2100rpm
Water Pump Engine	Weituo WR4105ZC
Rated Power / Speed	60kw / 1900rpm

Electricity Supply

Auxiliary Alternator	10 kw
Battery	24 v

Winch

Winch Force	40 kN @ Second Layer
Wire Rope Length	70 m
Wire Rope Diameter	14 mm

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16/14 Inch (DGSD350) Suction Dredger

16/14 Inch (DGSD350) Suction Dredger

Principal Parameter

Length Overall	21 m
Breadth Overall	5.4 m
Height Overall	7.4 m
Main Pontoon	11.5 x 2.2 x 2.4 m
Side Pontoon	15 x 1.6 x 1.6 m
Average Draft with Full Bunders approx	0.8 m
Standard Suction Depth	20 m
Standard Discharge Distance	1200 m
Diameter of Suction / Discharge Pipe	400 / 350 mm
Solid Capacity	300 - 450 m ³ /h
Total Power Installation	540 kw

Dredge Pump

Model	400PNS-30
Water Flow	220 m ³ /h
Maximum Speed	730 rpm

Jet Water Pump

Model	IS200-160-500
Water Flow	400 m ³ /h
Maximum Speed	1450 rpm

Engine Installation

Sand Pump Engine	Weichai WHM6160C620-5
Rated Power / Speed	456kw / 1500rpm
Water Pump Engine	Weituo WR6105ZLCD
Rated Power / Speed	84kw / 1500rpm

Electricity Supply

Auxiliary Alternator	20 kw
Battery	24 v

Winch

Winch Force	60 kN @ Second Layer
Wire Rope Length	80 m
Wire Rope Diameter	18 mm

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18/16 Inch (DGSD400) Suction Dredger



300 Hp (DGWB300) Work Boat

Principal Parameter

Length Overall	23 m
Breadth Overall	6.0 m
Height Overall	7.4 m
Main Pontoon	14.5 x 2.2 x 2.6 m
Side Pontoon	18 x 1.9 x 1.8 m
Average Draft with Full Bunders approx	0.9 m
Standard Suction Depth	22 m
Standard Discharge Distance	1500 m
Diameter of Suction / Discharge Pipe	450 / 400 mm
Solid Capacity	400 - 560 m ³ /h
Total Power Installation	771 kw

Dredge Pump

Model	450PNS-30
Water Flow	2800 m ³ /h
Maximum Speed	700 rpm

Jet Water Pump

Model	IS200-175-500
Water Flow	600 m ³ /h
Maximum Speed	1450 rpm

Engine Installation

Sand Pump Engine	Weichai 8170ZC900-5
Rated Power / Speed	661kw / 1500rpm
Water Pump Engine	Weituo WR6105AZLC1
Rated Power / Speed	110kw / 1500rpm

Electricity Supply

Auxiliary Alternator	20 kw
Battery	24 v

Winch

Winch Force	80 kN @ Second Layer
Wire Rope Length	100 m
Wire Rope Diameter	22 mm

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Principal Parameters

Length overall (Ladder in horizontal level)	14 m
Breadth Overall	4.8 m
Height Overall	4.7 m
Hull Depth	1.7 m
Average Draft with Full Bunders approx	1.1 m
Sailing Speed Maximum	15 km/h
Bunker Capacity	10 tons
Total Power Installation	244 kw

Engine Installation

Main engine	Cumins NT855-M
Rated Power / Speed	224kw / 1800rpm
Amount	1 set

Electricity Supply

Generator set	20kw
Amount	1 set

Propeller

Diameter	900 mm
Material	Copper Alloy
Amount	1 piece

Anchor Winch

Winch Force	30kN @ Second Layer
Wire Rope Length / Diameter	70m / 15mm

Hydraulic Crane

Type	Telescopic Boom
Capacity	2 ton
Working Radius	4 m

Operation Cabin

Operation Desk with Helm	1 set
VHF	1 set
Megaphone	1 set
Signal Light Pole	1 set
Searching Light	1 set

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600 Hp (DGWB600) Work Boat



90 Tons (DGBHK90) Backhoe Dredger

Principal Parameters

Length overall (Ladder in horizontal level)	17 m
Breadth Overall	5.8 m
Height Overall	4.8 m
Hull Depth	1.8 m
Average Draft with Full Bunders approx	1.1 m
Sailing Speed Maximum	20 km/h
Bunker Capacity	25 tons
Total Power Installation	478 kw

Engine Installation

Main engine	Cumins NT855-M
Rated Power / Speed	224kw / 1800rpm
Amount	2 set

Electricity Supply

Generator set	30kw
Amount	1 set

Propeller

Diameter	900 mm
Material	Copper Alloy
Amount	2 piece

Anchor Winch

Winch Force	50kN @ Second Layer
Wire Rope Length / Diameter	100m / 18mm

Hydraulic Crane

Type	Folding Boom
Capacity	4 ton
Working Radius	5 m

Operation Cabin

Operation Desk with Helm	1 set
VHF	1 set
Megaphone	1 set
Signal Light Pole	1 set
Searching Light	1 set

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Principal Parameters

Length Overall	16.4 m
Breadth Overall	6.6 m
Height Overall	4.2 m
Pontoon Length	11.8 m
Pontoon Breadth	6.6 m
Pontoon Height	2.2 m
Storage Capacity Maximum	90 tons
Dredging Depth Maximum	8.5 m
No-load Draft approx	0.6 m
Full-load Draft approx	1.8 m

Excavator

Brand	LiuGong
Model	CLG915D
Engine	Cummins 4BTAA3.9
Rated Power / Speed	86kw / 2200rpm
Rotary Speed	12.9rpm
Total Arm Length	10.5m
Bucket Capacity	0.28 m ³

Storage Cabin

Size	7.5 x 5.6 x 1.2 m
Storage Volume Maximum	50 m ³

Spud

Amount	2 pieces
Length	11.8 m
Thickness	14 mm
Driven	Hydraulic Motor and Chain

Towing Winch

Amount	1 piece
Winch Force	30 kN @ Second Layer
Wire Rope Length / Diameter	50m / 15mm

Note: Due to the continuous improvement of products, we reserve the rights to modify product model and parameters without any notice



130 Tons (DGBHK130) Backhoe Dredger



6 Inch (DGASD150) Auger Dredger

Principal Parameters

Length Overall	20.1 m
Breadth Overall	7.5 m
Height Overall	4.3 m
Pontoon Length	14 m
Pontoon Breadth	7.5 m
Pontoon Height	2.25 m
Storage Capacity Maximum	130 tons
Dredging Depth Maximum	10.5 m
No-load Draft approx	0.6 m
Full-load Draft approx	1.8 m

Excavator

Brand	XCMG
Model	XE150D
Engine	Cummins QSF3.8
Rated Power / Speed	93kw / 2200rpm
Rotary Speed	11.7rpm
Total Arm Length	13 m
Bucket Capacity	0.3 m³

Storage Cabin

Size	9.0 x 6.5 x 1.3 m
Storage Volume Maximum	50 m³

Spud

Amount	2 pieces
Length	13.5 m
Thickness	14 mm
Driven	Hydraulic Motor and Chain

Towing Winch

Amount	1 piece
Winch Force	30 kN @ Second Layer
Wire Rope Length / Diameter	50m / 15mm

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Principal Parameters

Length Overall	9.5 m
Breadth Overall	3.0 m
Height Overall	2.8 m
Pontoon Length	7.5 m
Pontoon Breadth	0.9 m
Pontoon Height	1.0 m
Pontoon Amount	2 piece
Suction Depth Maximum	5.4 m
Discharge Distance Maximum	200 m
Diameter of Suction / Discharge Pipe	200 / 150 mm
Solid Capacity	30 - 50 m³/h
Total Power Installation	88 kw

Auger Cutter

Length	2100 mm
Diameter	300 mm
Shaft Power	15 kw
Supporting Wheel	2 pair

Dredge Pump

Type	Submersible Pump
Model	DG6x4D
Water Flow	200 m³/h
Maximum Speed	1000 rpm
Driven	Hydraulic Motor

Engine Installation

Main Engine	Weichai WP4C120-18
Rated Power / Speed	88kw / 1800rpm

Moving System

Type	Winch with Leading pulley & Wire Rope
Winch Force	20 kN @ Second Layer
Wire Rope Length / Diameter	100m / 12mm

Ladder Lifting Winch

Winch Force	30k N @ Second Layer
Wire Rope Length / Diameter	30m / 15mm

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8 Inch (DGASD200) Auger Dredger



DGMTD185 Multifunctional Dredger

Principal Parameters

Length Overall	11.5 m
Breadth Overall	3.4 m
Height Overall	3.0 m
Pontoon Length	9.5 m
Pontoon Breadth	1.0 m
Pontoon Height	1.1 m
Pontoon Amount	2 piece
Suction Depth Maximum	6.5 m
Discharge Distance Maximum	300 m
Diameter of Suction / Discharge Pipe	250 / 200 mm
Solid Capacity	60 - 100 m ³ /h
Total Power Installation	115 kw

Auger Cutter

Length	2500 mm
Diameter	350 mm
Shaft Power	25 kw
Supporting Wheel	2 pair

Dredge Pump

Type	Submersible Pump
Model	DG8x6E
Water Flow	400 m ³ /h
Maximum Speed	950 rpm
Driven	Hydraulic Motor

Engine Installation

Main Engine	Weichai WP6C156-21
Rated Power / Speed	115kw / 2100rpm

Moving System

Type	Winch with Leading pulley & Wire Rope
Winch Force	30 kN @ Second Layer
Wire Rope Length / Diameter	100m / 15mm

Ladder Lifting Winch

Winch Force	40k N @ Second Layer
Wire Rope Length / Diameter	30m / 16mm

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Principal Parameters

Length Overall (without Boom)	11.5 m
Width Overall	3.3 m
Height Overall	3.1 m
Hull Length	10.5 m
Hull Breadth	3.0 m
Hull Height	1.2 m
Maximum Digging Depth	5.8 m
Maximum Cutting Height	8.0 m
Maximum Dumping Height	6.1 m
Maximum Digging Radius	8.8 m
Total Power Installation	178 kw

Engine Installation

Main Engine	Cummins NT855-M
Rated Power / Speed	178kw / 1800rpm

Excavating System

Turning Angle	180°
Boom Length	4900 mm
Arm Length	2700 mm

Dismountable Stabilizer

Quantity	2 pcs at Bow
Working Depth Maximum	3.8 m

Spud

Quantity	2 pcs at Stern
Working Depth Maximum	5.5 m

Propulsion System

Type	Hydraulic Propeller
Propeller Diameter	700 mm
Quantity	1 pc
Self-propelling Speed Maximum	5 Knot

Accessories

Bucket	1 set
Cutter Pump	1 set
Rake	1 set
Clamshell Grab	1 set

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Principal Parameters

Length Overall (without Boom)	4.9 m
Width Overall	2.3 m
Height Overall	1.7 m
Hull Length	4.4 m
Hull Breadth	2.0 m
Hull Height	1.5 m
Maximum Digging Depth	1.5 m
Maximum Cutting Height	2.9 m
Maximum Dumping Height	2.4 m
Maximum Digging Radius	2.6 m
Total Power Installation	60 kw

Engine Installation

Main Engine	Weichai WP4C82-15
Rated Power / Speed	60kw / 1800 rpm

Excavating System

Turning Angle	180°
Boom Length	1700 mm
Arm Length	1200 mm

Driving Track

Quantity	2 sets
Track Width	55 cm
Driving Type	Hydraulic Motor

Propulsion System

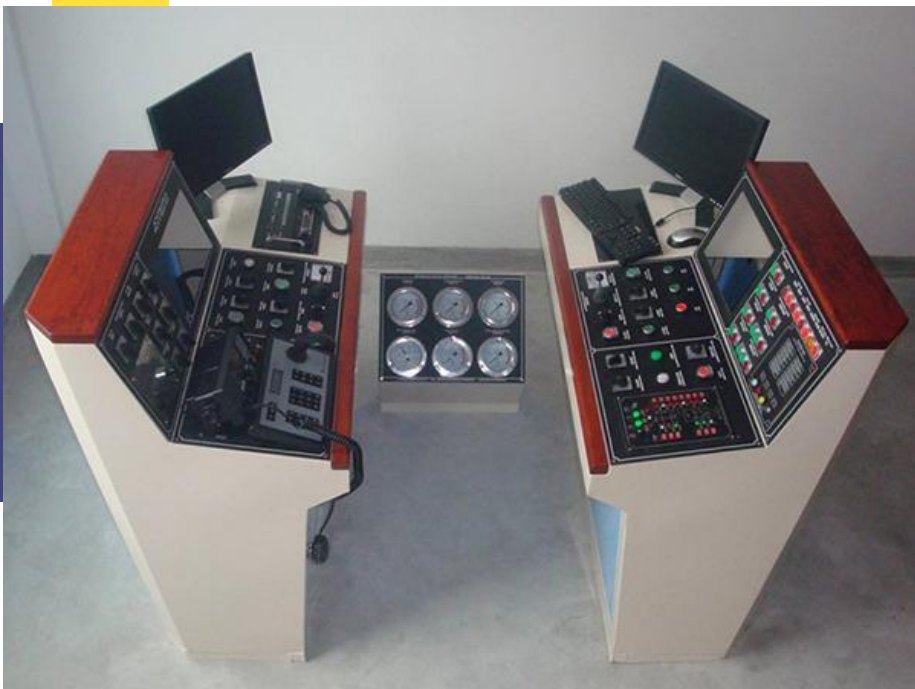
Type	Hydraulic Propeller
Propeller Diameter	300 mm
Quantity	1 pc
Self-propelling Speed Maximum	5 Knot

Accessories

Bucket	1 set
Cutter Pump	1 set
Rake	1 set
Fork	1 set
Clamshell Grab	1 set
Cutter Bar	1 set

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DRAGON DREDGER FEATURES & OPTIONS



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CONTACT US



**WILSHIRE
TECHNOLOGY LIMITED**

Sustainable Solutions For A Better World

NIGERIA OFFICE (LAGOS)

Wilshire Technology Ltd.

42 Osolo Way, 2nd Floor, Ajao Estate, Lagos

0806-971-0386,

0812-274-9152

sales@dredger.ng

www.dredger.ng;



**DRAGON
DREDGER**

CHINA OFFICE

Dragon Machinery Technology Co., Ltd.

Caterpillar Industrial Zone,

Qingzhou City, Shandong Province, China

+86-18561990100

derek@dragoncn.cn

www.dredger-boat.com