



# Shandong Highling Dredging Equipment and Machinery Co., Ltd.

No.99, Xinsha Road, Binhai Economy Development Zone, Weifang City, Shandong, China

## Foreword

Shandong Highling Dredging Machinery Co., Ltd, having dredging business since 1992, the dredger we produced is self-propelled or non self-propelled hydraulic cutter suction dredger. Dredger size from 6inch to 24inch, dismantle type and can be assembly at work place, water flow from 600m<sup>3</sup>/h to 8000m<sup>3</sup>/h, solid capacity from 120 cbm/h to 1600 cbm/h, dredging depth underwater can be from 6m to 30m with submersible dredging pump, discharge distance from 600m to 4000m with booster station; engine on the dredger can be Cummins engine or DEUTZ MAN-MAN-MWM engine accordingly; special dredgers can be custom made according to requirement.

The company owns blanking workshop, gold panning machinery processing workshop, machining workshop, anti-corrosion workshop, general assembly workshop, product debugging and testing center before ex-factory.

## Dredgers in Stock Now!

HLC300 / 12inch cutter suction dredger (one set)

HLC450 / 18inch cutter suction dredger (two sets)

HLC500 / 20inch cutter suction dredger (one set)



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**Shandong Highling Dredging Equipment and Machinery Co., Ltd.**  
No.99, Xinha Road, Binhai Economy Development Zone, Weifang City, Shandong, China

## **HLC 300/12inch Cutter Suction Sand Dredger**



### **SPECIFICATION OF A DISMOUNTABLE HYDRAULIC CUTTER SUCTION DREDGER HLC-450**

Type: Cutter Suction Dredger--- Dismountable

Navigation: Non self-propelling system

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# Shandong Highling Dredging Equipment and Machinery Co., Ltd.

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## HLC300 /12 inch Hydraulic Cutter Suction Dredger

| HLC300 /12 inch Hydraulic Cutter Suction Dredger |                            |                                               |
|--------------------------------------------------|----------------------------|-----------------------------------------------|
| MANUFACTURER                                     |                            | Shandong Highling Dredging Equipment Co., Ltd |
| CERTIFICATES                                     |                            | ISO 9001 , CCS , CE                           |
| MAIN CAPACITY                                    | Dredging depth @ 45°       | 13m                                           |
|                                                  | Dredging width             | 35m                                           |
|                                                  | Discharging distance       | 1200m                                         |
|                                                  | Water flow                 | 2500m³/h                                      |
|                                                  | Sand capacity              | 500m³/h                                       |
| DIMENSION OF HULL                                | LOA (include cutter)       | 31.0m                                         |
|                                                  | Dimension of hull (L*B*D)  | 23.0m*7.5m*2.5m                               |
|                                                  | Main Pontoon (L*B*D)       | 13.75m*3.5m*2.5m                              |
|                                                  | Side Pontoon (L*B*D)       | 20.0m*2.0m*2.5m                               |
|                                                  | Load draught               | 1.7m                                          |
| PUMP SYSTEM                                      | Dia. of suction pump       | 350mm (14inch)                                |
|                                                  | Dia. of discharging pump   | 300mm(12inch )                                |
|                                                  | Head                       | 48m                                           |
|                                                  | Power                      | 500kw                                         |
|                                                  | Speed                      | 630rpm                                        |
|                                                  | Dia. of Impeller           | 914mm                                         |
|                                                  | Quantity of impeller blade | 3pec                                          |
|                                                  | Max. stone                 | 241mm                                         |
| ENGINE                                           | Main diesel power          | KTA38-M (Cummins)                             |
|                                                  | Power                      | 596kw (811HP) @ 1800rpm                       |
|                                                  | Cooling                    | Heater Exchanger                              |
|                                                  | Auxiliary engine power     | 224kw(305HP) @ 1800rpm ( Cummins)             |
|                                                  | Emergency generator power  | 30GF ( Cummins)                               |
| TOTAL INSTALLED POWER                            |                            | 820kw ( 1116HP)                               |
| CUTTER HEAD                                      | Dia. of cutter head        | 1500mm                                        |
|                                                  | Cutter power               | 80KW                                          |
|                                                  | Cutter speed               | 10-30 r/min                                   |

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|                                                                                                                                                                           |              |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
| SPUDS                                                                                                                                                                     | Cutter force | 1600KN              |
|                                                                                                                                                                           | Cutter teeth | 30pcs ( ZGMn 13 )   |
|                                                                                                                                                                           | Material     | Seamless steel tube |
|                                                                                                                                                                           | Diameter     | 457mm               |
|                                                                                                                                                                           | Length       | 14m                 |
|                                                                                                                                                                           | Weight       | 5000kg / set        |
| Hydraulic winch                                                                                                                                                           |              | 80KN/set            |
| Hydraulic system                                                                                                                                                          |              | REXROTH             |
| Controlling system                                                                                                                                                        |              | SIEMENS PLC         |
| Hydraulic pump                                                                                                                                                            |              | VICKERS             |
| Max. oil consumption                                                                                                                                                      |              | 145.96 L/hour       |
| Oil tank capacity                                                                                                                                                         |              | 33,000L             |
| CIF Price                                                                                                                                                                 |              | 615,000 USD         |
| FOB ( Tianjin )                                                                                                                                                           |              | 548,000 USD         |
| For more information on 12inch cutter suction dredger ,please kindly contact by email: <a href="mailto:dellazheng@highlingdredger.com">dellazheng@highlingdredger.com</a> |              |                     |
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## 12 inch cutter suction dredger in workshop



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## **HLC 450/18inch Cutter Suction Sand Dredger**



### **SPECIFICATION OF A DISMOUNTABLE HYDRAULIC CUTTER SUCTION DREDGER HLC-450**

Type: Cutter Suction Dredger--- Dismountable

Navigation: Non self-propelling system

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## HLC450 /18 inch Hydraulic Cutter Suction Dredger

| HLC450 /18 inch Hydraulic Cutter Suction Dredger |                            |                                               |
|--------------------------------------------------|----------------------------|-----------------------------------------------|
| MANUFACTURER                                     |                            | Shandong Highling Dredging Equipment Co., Ltd |
| CERTIFICATES                                     |                            | ISO 9001 , CCS , CE                           |
| MAIN CAPACITY                                    | Dredging depth @ 45°       | 15m                                           |
|                                                  | Dredging width             | 39.6m                                         |
|                                                  | Discharging distance       | 1500m                                         |
|                                                  | Water flow                 | 3500m³/h                                      |
|                                                  | Sand capacity              | 700m³/h                                       |
| DIMENSION OF HULL                                | LOA (include cutter)       | 36.0m                                         |
|                                                  | Dimension of hull (L*B*D)  | 27.0m*8.5m*2.5m                               |
|                                                  | Main Pontoon (L*B*D)       | 15.4m*3.5m*2.5m                               |
|                                                  | Side Pontoon (L*B*D)       | 24.0m*2.5m*2.5m                               |
|                                                  | Load draught               | 1.7m                                          |
| PUMP SYSTEM                                      | Dia. of suction pump       | 600mm (24inch)                                |
|                                                  | Dia. of discharging pump   | 450mm(18inch )                                |
|                                                  | Head                       | 54m                                           |
|                                                  | Power                      | 770kw                                         |
|                                                  | Speed                      | 465rpm                                        |
|                                                  | Dia. of Impeller           | 1270mm                                        |
|                                                  | Quantity of impeller blade | 5pec                                          |
|                                                  | Max. stone                 | 125mm                                         |
| ENGINE                                           | Main diesel power          | KTA38-M2 (Cummins)                            |
|                                                  | Power                      | 895kw (1218HP) @ 1800rpm                      |
|                                                  | Cooling                    | Heater Exchanger                              |
|                                                  | Auxiliary engine power     | 298kw ( 406HP) @ 1800rpm ( Cummins )          |
|                                                  | Emergency generator power  | 30 GF ( Cummins)                              |
| TOTAL INSTALLED POWER                            |                            | 1193kw ( 1624HP)                              |
| CUTTER HEAD                                      | Dia. of cutter head        | 1700mm                                        |
|                                                  | Cutter power               | 170KW ( 40.8 HP )                             |
|                                                  | Cutter speed               | 10-30 r/min                                   |

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|                                                                                                                                                                           |              |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
| SPUDS                                                                                                                                                                     | Cutter force | 2700KN              |
|                                                                                                                                                                           | Cutter teeth | 35pcs ( ZGMn 13 )   |
|                                                                                                                                                                           | Material     | Seamless steel tube |
|                                                                                                                                                                           | Diameter     | 510mm               |
| SPUDS                                                                                                                                                                     | Length       | 21m                 |
|                                                                                                                                                                           | Weight       | 6000kg / set        |
| Hydraulic winch                                                                                                                                                           |              | 80KN                |
| Hydraulic system                                                                                                                                                          |              | REXROTH             |
| Controlling system                                                                                                                                                        |              | SIEMENS PLC         |
| Hydraulic pump                                                                                                                                                            |              | VICKERS             |
| Max. oil consumption                                                                                                                                                      |              | 212.35L/H           |
| Oil tank capacity                                                                                                                                                         |              | 60,000 L            |
| FOB (Tianjin ) Price                                                                                                                                                      |              | 845,000 USD         |
| CIF Price                                                                                                                                                                 |              | 925,000 USD         |
| For more information on 18inch cutter suction dredger ,please kindly contact by email: <a href="mailto:dellazheng@highlingdredger.com">dellazheng@highlingdredger.com</a> |              |                     |
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## 18 inch cutter suction dredger in workshop



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**Shandong Highling Dredging Equipment and Machinery Co., Ltd.**  
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## **HLC 500/20inch Cutter Head Suction Dredger**



### **SPECIFICATION OF A DISMOUNTABLE HYDRAULIC CUTTER SUCTION DREDGER HLC-500**

Type: Cutter Suction Dredger--- Dismountable

Navigation: Non self-propelling system

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# Shandong Highling Dredging Equipment and Machinery Co., Ltd.

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## HLC500 /20 inch Hydraulic Cutter Suction Dredger

| HLC500 / 20 inch Hydraulic Cutter Suction Dredger |                            |                                               |
|---------------------------------------------------|----------------------------|-----------------------------------------------|
| MANUFACTURER                                      |                            | Shandong Highling Dredging Equipment Co., Ltd |
| CERTIFICATES                                      |                            | ISO 9001 , CCS , CE                           |
| MAIN CAPACITY                                     | Dredging depth @ 45°       | 15m                                           |
|                                                   | Dredging width             | 45.1m                                         |
|                                                   | Discharging distance       | 2000m                                         |
|                                                   | Water flow                 | 6000m <sup>3</sup> /h                         |
|                                                   | Sand capacity              | 1200m <sup>3</sup> /h                         |
| DIMENSION OF HULL                                 | LOA (include cutter)       | 41.0m                                         |
|                                                   | Dimension of hull (L*B*D)  | 31.0m*9.3m*2.75m                              |
|                                                   | Main Pontoon (L*B*D)       | 18.15m*3.7m*2.75m                             |
|                                                   | Side Pontoon (L*B*D)       | 28.0m*2.75m*2.75m                             |
|                                                   | Load draught               | 1.7m                                          |
| PUMP SYSTEM                                       | Dia. of suction pump       | 650mm (26inch)                                |
|                                                   | Dia. of discharging pump   | 500mm(20inch )                                |
|                                                   | Head                       | 63m                                           |
|                                                   | Power                      | 1340kw                                        |
|                                                   | Speed                      | 430rpm                                        |
|                                                   | Dia. of Impeller           | 1400mm                                        |
|                                                   | Quantity of impeller blade | 5pec                                          |
|                                                   | Max. stone                 | 150mm                                         |
| ENGINE                                            | Main diesel power          | TBD620V16 (DEUTZ-WMW)                         |
|                                                   | Power                      | 1740kw (2367HP) @ 1650rpm                     |
|                                                   | Cooling                    | Heater Exchanger                              |
|                                                   | Auxiliary engine power     | 450kw ( 612HP) @ 1650rpm (DEUTZ-WMW )         |
|                                                   | Emergency generator power  | 30 GF ( Cummins)                              |
| TOTAL INSTALLED POWER                             |                            | 2190kw ( 2978HP)                              |
| CUTTER HEAD                                       | Dia. of cutter head        | 2050mm                                        |
|                                                   | Cutter power               | 300KW                                         |
|                                                   | Cutter speed               | 10-30 r/min                                   |

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|                                                                                                                                                                           |              |                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
| SPUDS                                                                                                                                                                     | Cutter force | 4100KN              |
|                                                                                                                                                                           | Cutter teeth | 40pcs ( ZGMn 13 )   |
|                                                                                                                                                                           | Material     | Seamless steel tube |
|                                                                                                                                                                           | Diameter     | 720mm               |
|                                                                                                                                                                           | Length       | 21m                 |
|                                                                                                                                                                           | Weight       | 8500kg / set        |
| Hydraulic winch                                                                                                                                                           |              | 160KN               |
| Hydraulic system                                                                                                                                                          |              | REXROTH             |
| Controlling system                                                                                                                                                        |              | SIEMENS PLC         |
| Hydraulic pump                                                                                                                                                            |              | VICKERS             |
| Max. oil consumption                                                                                                                                                      |              | 389.8 L/H           |
| Oil tank capacity                                                                                                                                                         |              | 69,000 L            |
| FOB (Tianjin ) Price                                                                                                                                                      |              | 1,425,000 USD       |
| CIF Price                                                                                                                                                                 |              | 1,531,000 USD       |
| For more information on 20inch cutter suction dredger ,please kindly contact by email: <a href="mailto:dellazheng@highlingdredger.com">dellazheng@highlingdredger.com</a> |              |                     |
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## 20 inch cutter suction dredger in workshop



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## Highling HLC Dredger Testing Center

### Three Dredger Testing Center are Available in our Factory

In order to guarantee good performance and safety of our cutter suction dredger, all our products will be tested in the testing center before ex-factory, it is tested like the machine working in the customer's working site. Performance and safety will be tested and recorded in the testing process. Usually, the buyer can also supervise the testing process before dismantle the dredger.

#### A. Preparing work before Dredger Testing

- 1) Customers will be invited to watch dredger test, video and pictures will email to buyers.
- 2) Every parts and connections of dredger should be checked strictly before test
- 3) Oil and cooling water should be ready for dredger test

#### B. Dredger Test Contents

- 1). Work condition of electricity connection of dredger should be checked.
- 2). Emergency pump to check operation conditions of hydraulic controlling system,
- 3). The speed and power of diesel engine should be tested
- 4). Dredging pump will be tested and rotates at different speed with fresh water.
- 5). In order to check the operation of various hydraulic machinery and valves,

The main hydraulic pump will be opened and hydraulic system load performance should be tested,

#### C. After Testing

- 1). All equipment performances and testing recorded will be printed as report for customers' reference.
- 2). After testing, all work about dredger dismantle should be prepared and let customer knows when and what time will do the deliver

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## Highling and Haiyang Dredger Service

- Professional technician can be provided to service the machinery overseas
- After-sales service department with 10 service engineers are available for 24 hours.
- Overseas after –sales service office built year by year.
- Sample and real dredger in factory, customer visit factory any time.
- Every dredger tested before ex-factory.  
Customer invited to watch test. Video and pictures will email to buyer.
- Free spare parts provided for one year

## Contacts

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