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JIANGSU RIVER HEAVY INDUSTRY CO., LTD.

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Modification Expert

+ AMPHIBIOUS EXCAVATOR

BRAND MEANING

"RIVER", the word originates from Yangtze River and Yellow River. The meaning is to protect and develop "mother river" through river regulation, in order to achieve harmonious coexistence between man and nature.

VALUE ORIENTATION

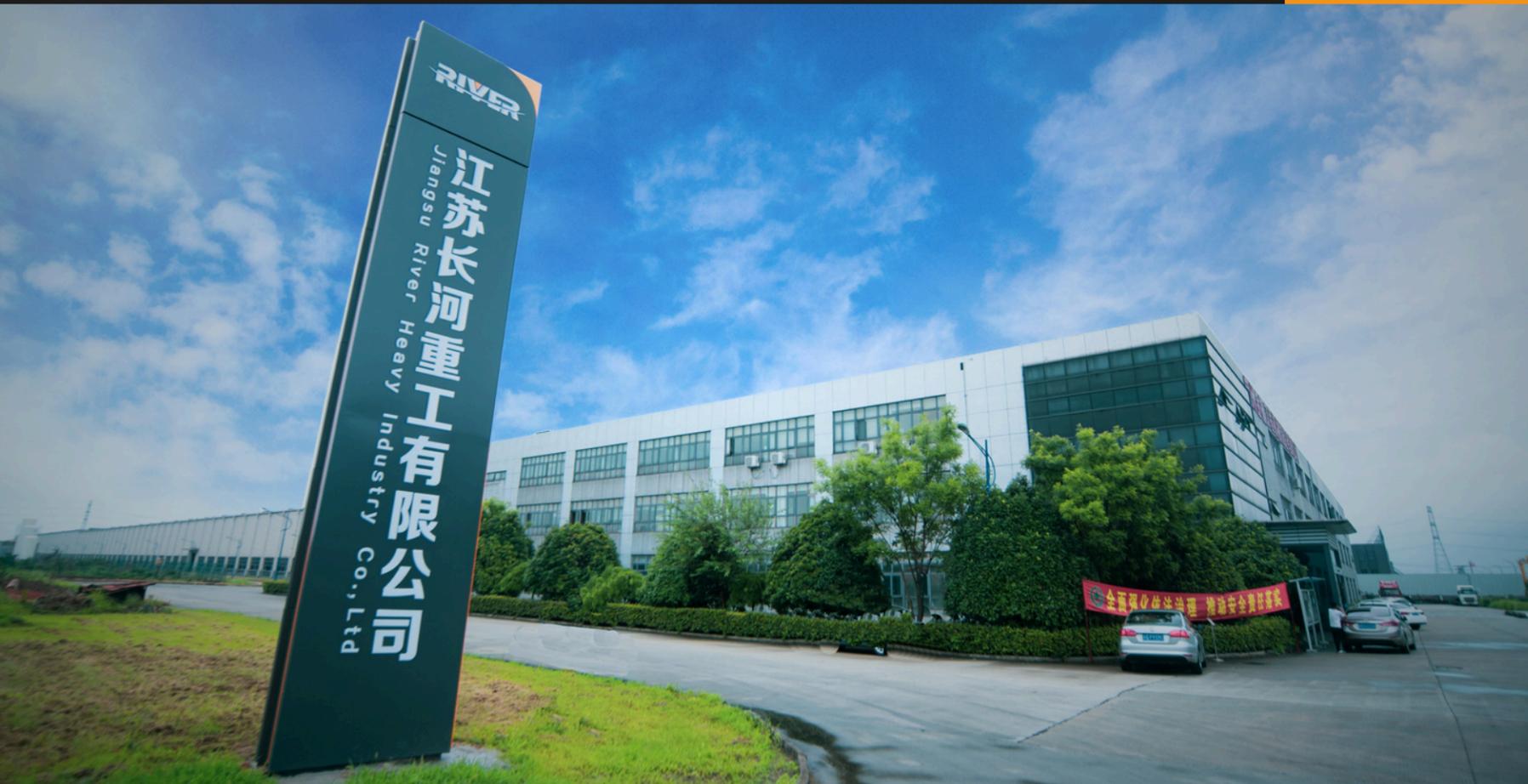
Service to society, green development, and diligence

ABOUT US

Jiangsu River Heavy Industry Co., Ltd. was established in 2003 with a registered capital of 20 million yuan. It was one of the first domestic manufacturers to modify amphibious excavators and river dredging equipment. Presently, the company's main products include amphibious excavators, pontoon undercarriages, long reach booms/extended arms, hydraulic cutter suction pumps, and other excavators-related accessories, as well as water conservation projects, environmental management projects, and equipment leasing.

Our products sell well in over 50 cities nationwide, and are exported to more than 30 countries and regions around the world, including Indonesia, Philippines, Malaysia, Thailand, Nigeria, Poland, USA, Brazil, Russia and Africa countries.

As a service-oriented company, Jiangsu River Heavy Industry emphasizes customer satisfaction as the standard. In order to meet the diversified needs of the future market, the company continues to research and develop, as well as improve upcoming amphibious products, high-tech marine engineering equipment, and other products. The company has developed into a leading brand of TOP ONE in the field of river dredging.



CERTIFICATION

Our company holds over ten technical patents, covering products such as the amphibious excavator undercarriage, amphibious excavator, and hydraulic cutter suction dredging pumps. We are one of the few companies in the country to obtain such patents. We are an ISO9001 certified manufacturer and have obtained CE product certification.



BUSINESS SCOPE

Our company is a manufacturing enterprise that integrates R&D, sales, and manufacturing. Our core business includes sales of amphibious excavators, equipment modification, river project construction, equipment leasing, etc.

	<p>AMPHIBIOUS EXCAVATOR Modification</p>		<p>AMPHIBIOUS EXCAVATOR Sale</p>
<p>AMPHIBIOUS EXCAVATOR Leasing</p>		<p>AMPHIBIOUS EXCAVATOR Construction</p>	

BRAND COOPERATION

Our

Development Course

MEMORABILIA

2003



Founded the first Water Conservancy Engineering Company, which specializes in river dredging. The Yangtze River Waterway Administration and the Shanghai Waterway Bureau engaged the company to build the Caofeidian reclamation project this year, and we also gained extensive building experience.

2005



The R&D Task Force was established with the goal of addressing the amphibious excavator's knowledge gap and restrictions. Throughout the development process, we upgraded our technology and reserved a wealth of technical talent.

2010



We formally established a factory in Tianjin to increase production volume, as well as expanding the R&D team to a separate R&D department and establishing a distinct manufacturing department. Europe, South America, Africa, Southeast Asia, and other nations and regions are among the destinations for our exports.

2015



As a result of using the Cutter Section Pump developed by RIVER in several engineering projects, the actual performance is not inferior to other imported cutter suction pumps.

2018



Invested in the establishment of Hubei River Machinery Co., Ltd, which constructed its first plant of 6000 square meters.

When the first amphibious excavator with a pontoon undercarriage was introduced to the market and received favorable customer response, our market size quickly increased.



2007

To meet the engineering demand of river regulation and reduce the construction cost, we are officially committed to the research and development of the Cutter Suction Pump, an attachment of an amphibious excavator.



2014

In order to support the National Environmental Protection Policy and develop our hometown, we have reduced the production scale of our factory in Tianjin. This resulted in an industrial facility covering over 50,000 square meters in Honghu City.



2017

As the company's first product, the factory went into production. As of April, the first Amphibious Pontoon undercarriage was unveiled, marking the beginning of the historical chapter that is rooted in Hubei and serves the country and the world.



2019

The company has experienced rapid growth in the last two years, occupying the domestic market. A manufacturing, sales, and development center was established in Changzhou by Jiangsu River Heavy Industry Co., Ltd.



2021





20 YEARS

ENGINEERING PROJECT EXPERIENCE

31+

National engineering project

200+

Minor construction project



CESE ONE



In 2014, we completed the Caofeidian reclamation project jointly undertaken by the Yangtze River Waterway Administration and the Shanghai Waterway Bureau, and gained valuable construction experience.



CESE TWO



In 2018, the Shenzhen Maozhou River Water Environment Improvement Project, with a total investment of about 4.372 billion yuan, including river dredging project, pipe network work, and water landscape engineering, totaling three water control and quality improvement projects, with a total length of 43.5 kilometers, a total length of 266.1 kilometers of pipeline, and a total area of 231.3 hectares of landscaping. The dredging of the river in the Guangming section is in our company's hands.



CASE THREE



Our 2019 project was to reline the Boxi Landing Pipeline for CNOOC. The Boxi oil and gas processing plant is Boxi Oil Field Group's downstream project. Tianjin Binhai's district government required unified planning for economic development, and the elimination of potential security risks. In that regard, a 12" single layer concrete counterweight gas pipeline and a 10"/16" double layer oil-water mixed pipeline were laid to the newly constructed terminal when the Boxi Plant terminal was relocated to the South Port industrial area in 2013.

OUR PRODUCTS

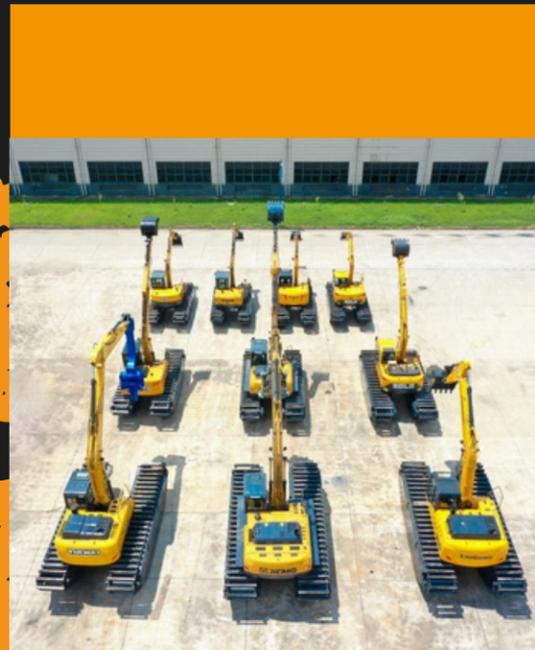
PONTOON UNDERCARRIAGE

The pontoon undercarriage can provide a greater ground pressure ratio and buoyancy for the equipment, ensuring safe and efficient construction in places where traditional excavators cannot reach, such as mud, swamps, shallow water, and even deep water.



HYDRAULIC DREDGING PUMP

Hydraulic dredging pumps are used to remove sediment, debris, and other materials from bodies of water, channels, and construction sites by using hydraulic power to create suction and transport materials efficiently.



AMPHIBIOUS EXCAVATOR

Amphibious excavators are versatile machines designed for operations in both land and water environments. They are commonly used for tasks such as wetland excavation, river dredging, shoreline construction, environmental cleanup, aquaculture, and land reclamation.



LONG REACH BOOM

Long reach arm extends the reach and versatility of excavators for tasks requiring extended reach or depth, such as dredging, demolition, and landscaping in hard-to-reach areas.

AMPHIBIOUS EXCAVATOR

Amphibious excavators can be used on land, in shallow water, marshes and deep water. The amphibious excavators produced by RIVER have been tested in practice for many years and are widely recognized by users. The pontoon undercarriage can be customized to suit 5-40 tons of various types of excavators, depending on your working conditions and needs.

REGULAR MODELS

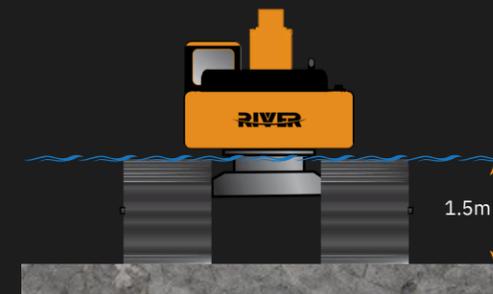


LIGHT-WEIGHT DESIGN

LESS THAN 1.5M DEPTN

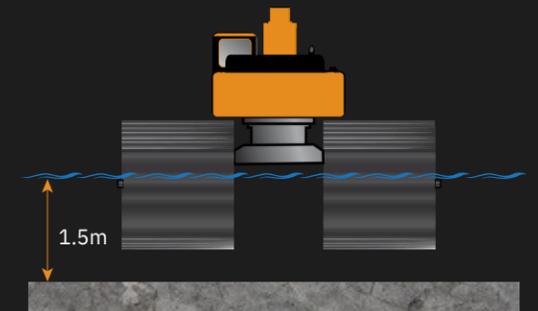
Light-weight excavators offer enhanced adaptability in shallow water environments, such as silt and swamps. With increased material strength and reduced weight, they enable higher walking speeds, lower fuel consumption, and improved construction efficiency.

Lightweight design of RIVER



The pontoon's buoyancy is less than its total weight, so even if the machine touches the riverbed, it will continue to operate normally

Big pontoons of competitors

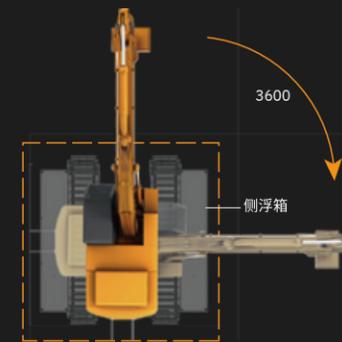


It is easy for the pontoon to roll over since buoyancy is greater than total weight

2-5M DEPTH

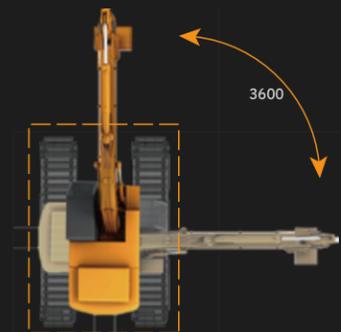
In deep water areas, the excavator's stability is enhanced by the design of the main and side pontoons, reducing the risk of rollovers. Additionally, the extended reach arm and wider operating radius, ensure the machine operates smoothly and efficiently.

Lightweight design of RIVER



It is obvious from the practical experience of River's lightweight design that the square platform is more stable

Big pontoons of competitors



There will be unstable condition when the bottom of the pontoon is rectangular as this will make it to easily roll over

AMPHIBIOUS EXCAVATOR

EASY TO TRANSPORT

Our amphibious excavator undercarriage adopts a modular structure, which is convenient and simple to disassemble. Even novices can complete disassembly and assembly within 2 hours. Small equipment can be transported short distances without disassembly. For long-distance or highway transportation, disassembly is required.



APPLICATION SCOPE OF AMPHIBIOUS EXCAVATOR

01 Marsh, Wetland And Other Water Operation Projects
With the aid of our professional amphibious equipment, the excavator can safely and effectively work in ponds, rivers, lakes, coastlines and other terrain operations.



02 Dredging Operation
Desilting operations can be performed using amphibious excavators in challenging aquatic conditions, especially with the operation efficiency is astounding when cutter suction equipment is used.



03 Environmental Service
Dredging in challenging areas, such as swamps, rivers, etc., management of the natural environment, and bolstering landscape restoration are all ways to effectively build and safeguard the landscape.



04 Public Welfare Disaster Relief
Products of River Heavy Industry are used for flood management, disaster relief efforts, maintenance, and other purposes



05 Rental Service
We offer rental services for a number of excavator equipment models to those who may need them.



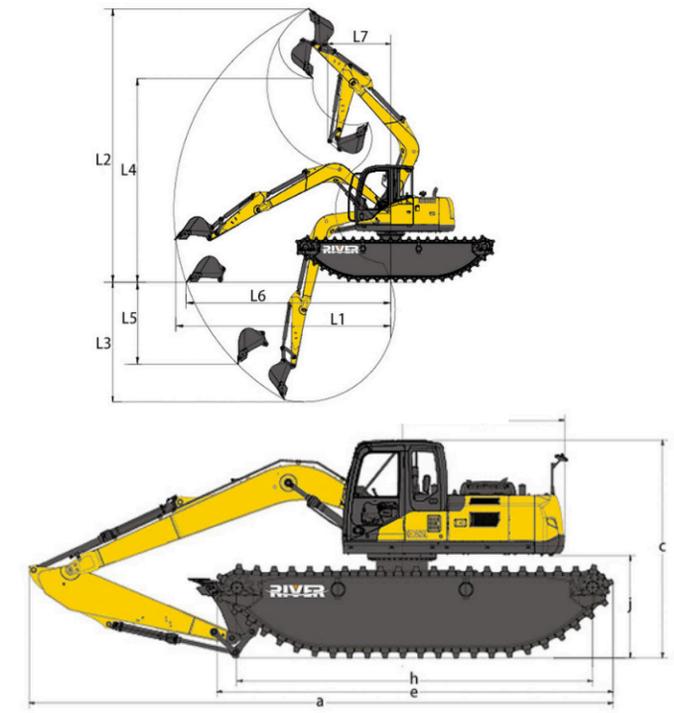
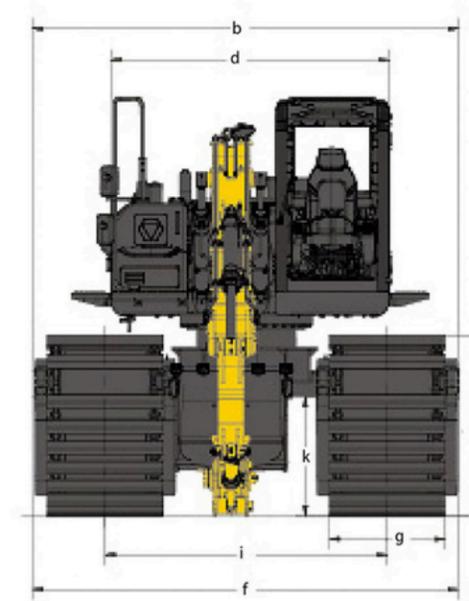
CONSTRUCTION SCENES



PARAMETERS

AMPHIBIOUS EXCAVATOR

Model	Unit	River80	River150	River215
• Operating weight	Kg	10600	21500	30600
• Boom and stick length	mm	6838	8621	10730
• Bucket capacity	m ³	0.21	0.6	0.8
• Engine model		kubota V2607	CumminsQSF3.8	QSB7
• Rated power/speed	Kw/rpm	42.4/2000	86/2200	135/2050
• Max torque/speed	Nm/rpm	225.8/1400-1800	470/1300	740/1250
• Displacement	L	2.615	3.8	6.7
• Motor model	Mottrol(Doosan)	TM10	TM22	TM40
• Output torque	N.m(kgf.m)	1000	2616	4651
• Continuous pressure	MPa(kgf/cm ²)	320	350	350
• Driving speed	km/h	2.9	2.9	2.9
• Swing speed	r/min	10	11	12.6
• Gradeability	%	49	49	49
• Ground specific pressure	kPa	18.5	22.8	25.6
• Bucket digging force	kN	51.4	77	119.5
• Stick digging force	kN	26.7	48.8	83.5
• Fuel tank volume	L	130	760	1250
• Hydraulic oil tank volume	L	76	105	220
• Engine oil capacity	L	10	11	23.7



Model	Unit	River80	River150	River215
• a) Overall machine length	mm	7270	10040	12340
• f) Overall machine width without side pontoons	mm	3000	3810	4490
• c) Overall machine height(to boom)	mm	3300	3710	4015
• d) Turntable width	mm	2070	2490	2830
• e) Single pontoon length	mm	5750	6880	8070
• g) Track shoe width	mm	780	1020	1280
• m) Single pontoon height	mm	1300	1590	1795
• f) Pontoon overall width	mm	3000	3810	4500
• i) Track gauge	mm	2000	2560	2990
• h) Distance between sprocket and idler	mm	5130	6110	7120
• j) Counterweight ground clearance	mm	1435	1740	1975
• k) Min ground clearance	mm	875	1060	1210
• l) Max turning radius of the tail	mm	1800	2824	3355
• L1) Max digging radius	mm	7550	9840	12090
• L2) Max digging height	mm	9029	10990	12420
• L3) Max digging depth	mm	4983	5890	7480
• L4) Max unloading height	mm	7039	8525	9505
• L7) Min turning radius	mm	1818	2970	4185

AMPHIBIOUS UNDERCARRIAGE

FEATURES

- ☞ The undercarriage, constructed with high-strength steel material comprising up to 40%, extends the lifespan by 3 to 5 years.
- ☞ Pontoon Material Selected: Q355B (DIN Fe510D1) high strength low alloy steel
- ☞ Using NM400 specialized wear-resistant strips to extend the service life of the undercarriage.
- ☞ Three independent watertight compartments: Air tightness pressure test ensures safety and reliability.
- ☞ Epoxy zinc-rich paint: Two-bottom and two-face paint, outstanding anti-rust capabilities, special paint for marine vessels
- ☞ Assembly parts: Imported brand connectors and hoses, four-layer pressure resistance for durability; Dacromet-treated screws (1000-hour salt spray test, ensuring no rust for 2 years).

Track Shoes



HG785D high strength welding structural steel, boasting yield and tensile strengths of 685MPa and 785MPa respectively.

H Center-frame



Adopting integrated machining process to ensure perfect fitting with the upper structure.

Sprocket

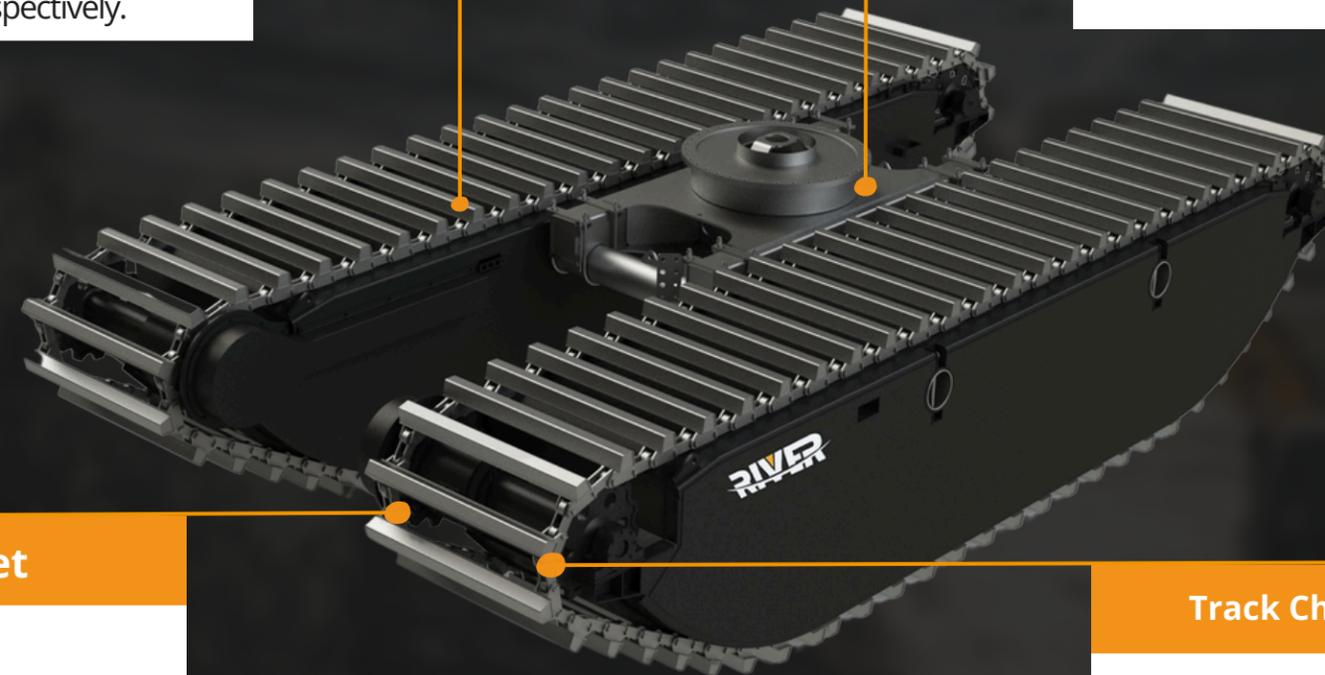


Utilizing heat treatment process to enhance the strength of the sprocket.

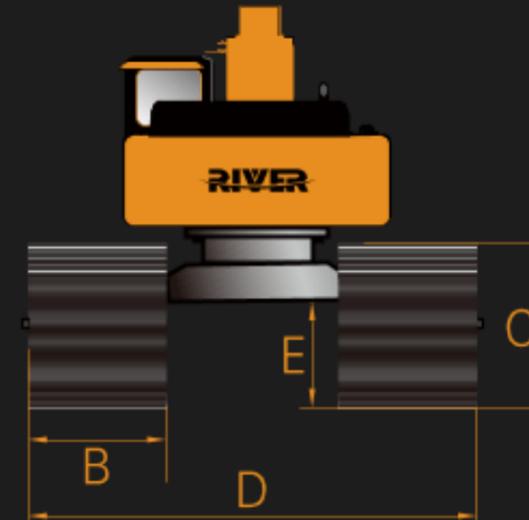
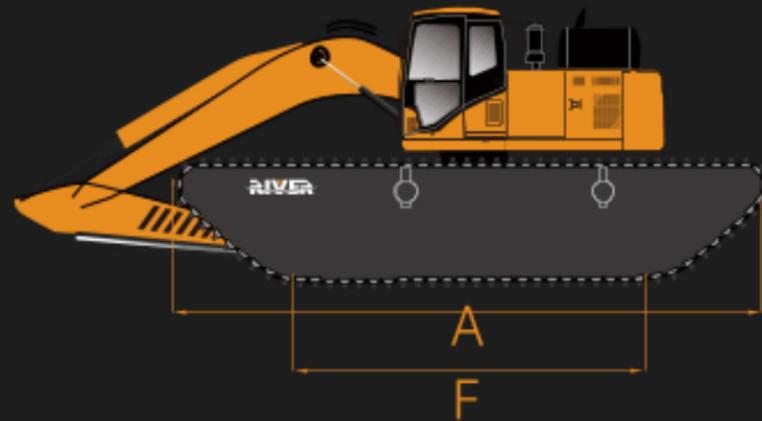
Track Chain Roller



Made of 40Cr steel (DIN 41Cr4) material, with enhanced hardness reaching HRC50-56.



Undercarriage Parameters



DESCRIPTION	UNIT	CODE	RS80-A2	RS150-A2	RS215-A2	RS250-A2	RS300-A5	RS350-A5	RS400-A6
Length of pontoon	mm	A	5960	7000	8140	8500	9100	9500	10000
Width of pontoon	mm	B	1000	1250	1500	1600	1600	1600	1700
Height of pontoon	mm	C	1300	1600	1800	1900	1900	1900	2000
Overall width	mm	D	3000	3650	4490	4800	5000	5000	5200
Minimum ground clearance	mm	E	865	1064	1209	1303	1300	1300	1450
Grounding length of pontoon	mm	F	3350	3389	4324	3695	4980	4980	6100
Total weight of pontoon	T		6.4	11	15.2	17.9	20.6	21.8	27

DIFFERENT TYPES OF SIDE PONTOONS



Side Pontoon

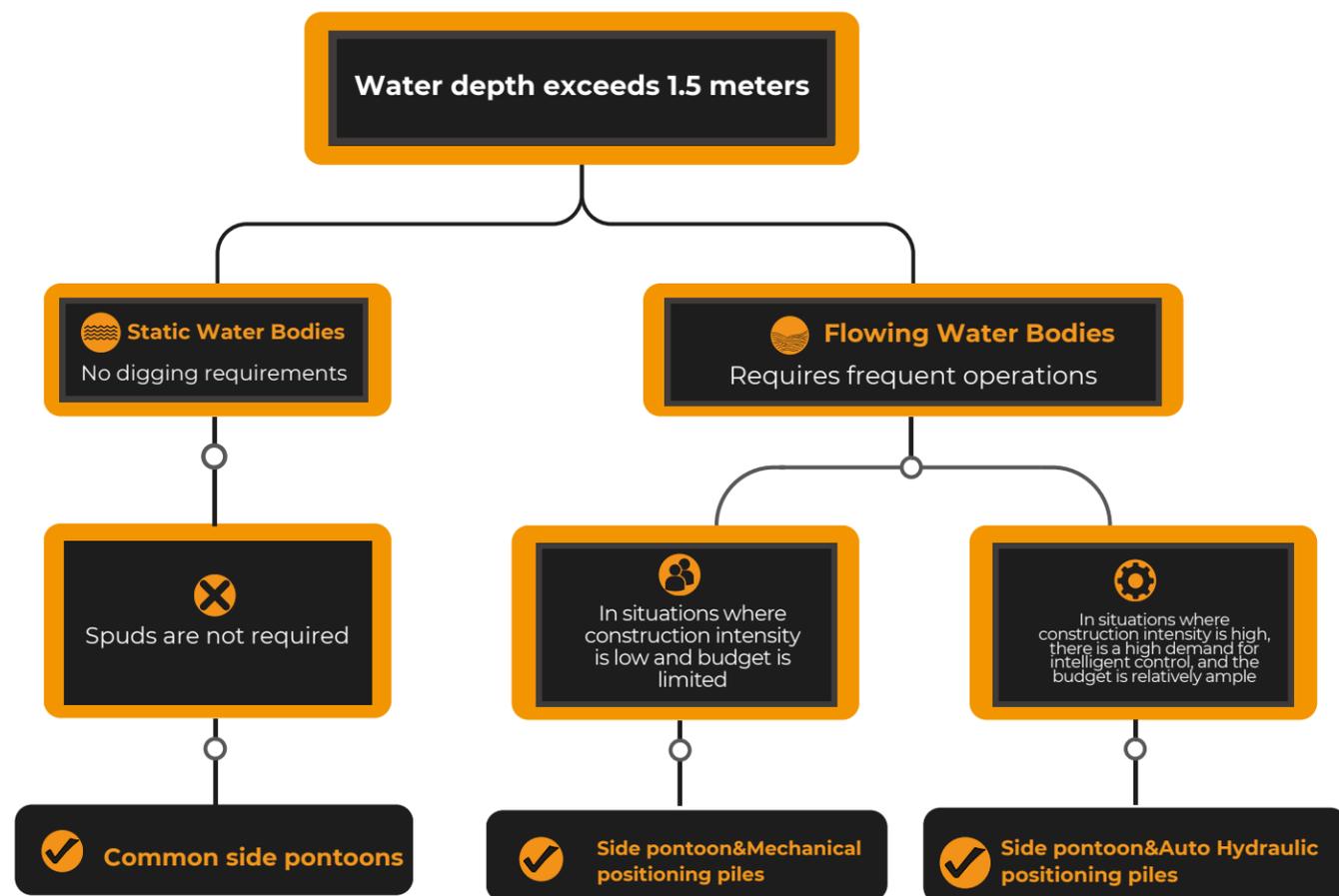


Mechanical Spuds



Hydraulic Spuds

HOW TO SALECT SIDE PONTOON AND SPUDS

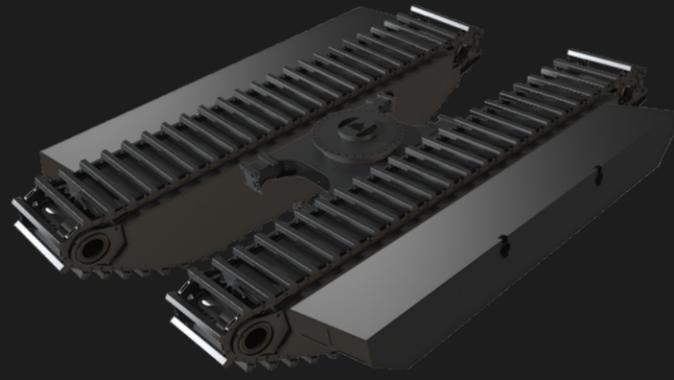


Hydraulic Positioning Piles

- Full-automatic hydraulic control system, one-key operation in the cabin, efficient and convenient.
- Each pile is 6 meters, individually controllable, suitable for various conditions such as 2~4 meters water depth.
- Seamless integration with the undercarriage, quick installation, providing stability while offering buoyancy.
- Square construction platform, characterized by stability, safety, and high efficiency, less prone to tipping over.



Additional Side Pontoons Parameters



MODEL	SINGEL PONTOON SIZE	BUOYANCY
RC80	5500*900*700mm	6.8T
RC150	6000*1250*800mm	13T
RC215	7000*1250*1000mm	17.5T
RC250	7800*1500*1200mm	28T
RC300	8000*1500*1200mm	28.8T
RC350	8500*1500*1200mm	30.6T
RC400	9000*1500*1200mm	32.4T

- ☑ Pontoon Material Selected: Q355B (DIN Fe510D1) high strength low alloy steel
- ☑ Each pontoon has 3 independent compartments

Hydraulic Positioning Piles Parameters



MODEL	SINGEL PONTOON SIZE	POSITIONING PILES SIZE	GROSS WEIGHT	BUOYANCY
RD80	5500*1450*900mm	150*150*8*6000mm	6.5T	13.66T
RD150	6300*1500*1230mm	200*200*10*5500mm	8.8T	21.8T
RD215	7520*1500*1260mm	250*250*12*6000mm	11T	27T
RD300	8500*1500*1260mm	250*250*12*6000mm	13T	32T
RD350	9000*1600*1300mm	250*250*12*6000mm	15T	37T
RD400	9000*1600*1300mm	250*250*12*6000mm	15T	37T

- ☑ Pontoon Material Selected: Q355B (DIN Fe510D1) high strength low alloy steel
- ☑ Pile body adopts high-strength seamless square tube
- ☑ Each pontoon has 3 independent compartments
- ☑ Cab fully automatic hydraulic control system

LONG REACH BOOM

Production Technology 

Advanced Design Tools



Utilizing state-of-the-art CAD, 3D, and FEA structural design tools, our adept design team provides precise data analysis for personalized customization and product upgrades. Innovative designs prioritize longevity and reliability, addressing concerns of potential cracking or breaking.

Premium-Quality Raw Materials



Sourced exclusively from China's leading steel manufacturers, our extension arms are crafted from low-alloy high-strength plates, ensuring optimal excavator performance. Our hydraulic hoses undergo phosphating for superior anti-corrosion properties, while copper sleeves on connectors enhance durability, exemplifying our dedication to quality.

Cutting-Edge Manufacturing Process



We boast an array of advanced processing equipment, including laser cutters, plasma cutters, welding robots, and automated coating lines, ensuring precision manufacturing and high production efficiency.

Precision and Consistency



Robotic welding ensures unparalleled precision and consistency in the welding process, resulting in uniform and high-quality long reach arms.

High-end Machining Equipment Ensures Precision



The Double Gantry Milling Machine, equipped with advanced CNC controls, efficiently executes intricate milling tasks, making it ideal for precision production of long reach arms with uniformity and adherence to tight tolerances.

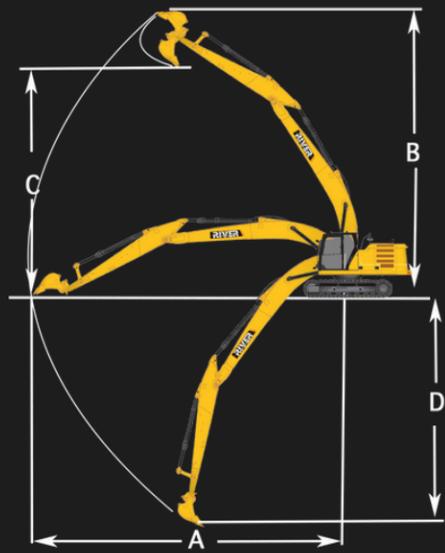
Stringent Production Processes for Unwavering Quality



Non-destructive testing (NDT) methods such as ultrasonic testing and magnetic particle inspection ensure the structural integrity of our long reach booms. Our unwavering commitment to quality guarantees products that meet or exceed industry standards.

PARAMETERS

LONG REACH PACKAGE



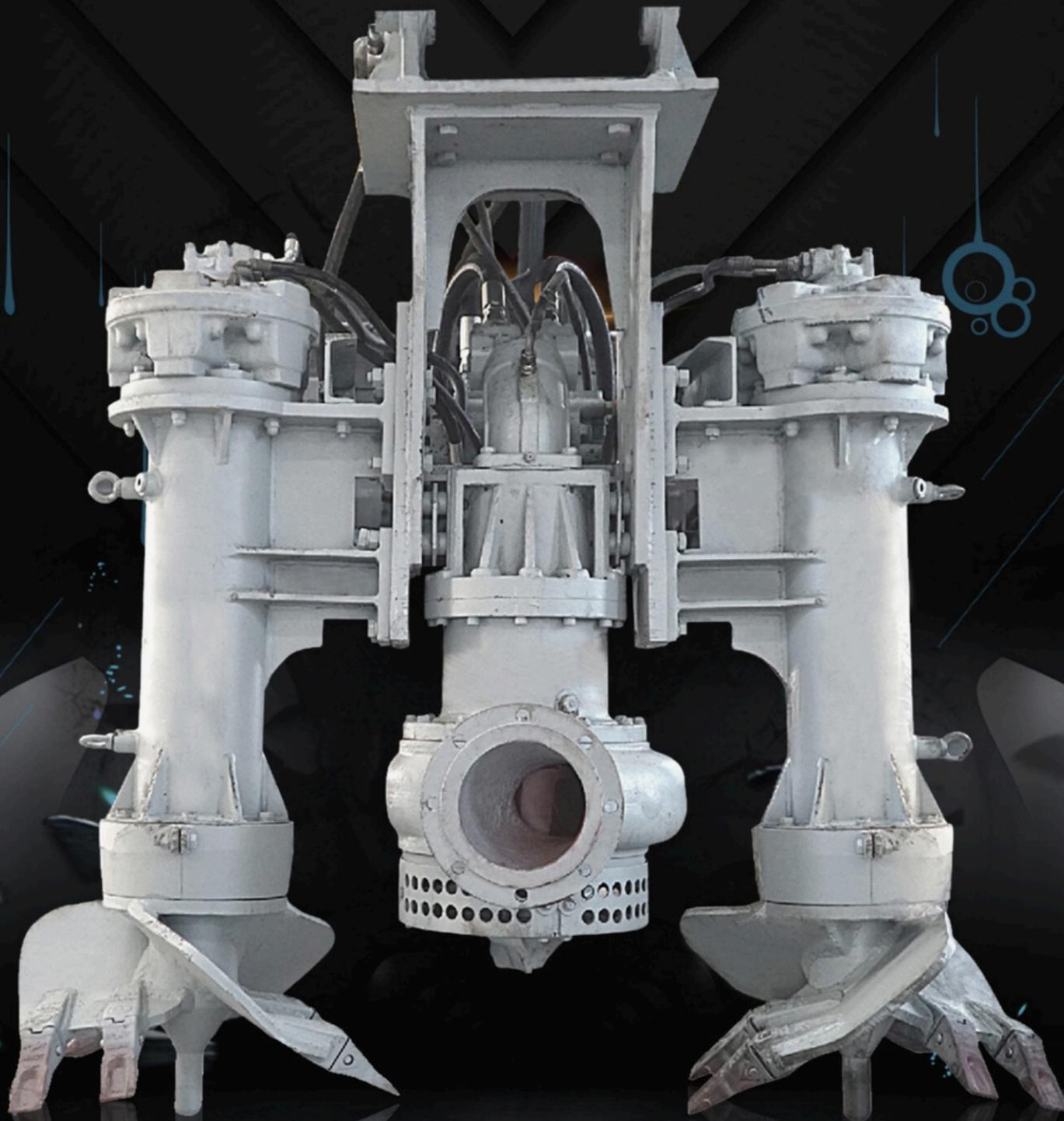
Each long-reach package comes standard with the following items

Excavator Model	Total Length		Boom Length		Arm Length		Bucket Capacity		Max. Excavation Radius(A)	Max. Unloading Height(B)	Max. Excavation Height(C)	Max. Excavation Depth(D)
	m	ft	m	ft	m	ft	m ³	Yard ³	mm	mm	mm	mm
7-9T	7	22.96	3.99	13.09	3.01	9.87	0.30	0.39	7780	7460	9180	4700
	9	29.52	5.13	16.83	3.87	12.69	0.20	0.26	9780	9460	11180	6700
13-15T	9	29.52	5.13	16.83	3.87	12.69	0.60	0.78	10220	8870	11340	6305
	11	36.08	6.27	20.57	4.73	15.51	0.50	0.65	12220	10870	13340	8305
	12.5	41	7.125	23.37	5.375	17.63	0.40	0.52	13263	11784	13846	8254
18-23T	13	42.64	7.41	24.30	5.59	18.34	0.60	0.78	14080	11915	14800	9815
	15	49.2	8.55	28.04	6.45	21.16	0.45	0.59	16080	13915	16800	11815
	17	55.76	9.69	31.78	7.31	23.98	0.40	0.52	18080	15915	18800	13815
27-23T	15	49.2	8.55	28.04	6.45	21.16	0.60	0.78	15350	14015	16925	11560
	18	59.04	10.26	33.65	7.74	25.39	0.40	0.52	18350	17015	19925	14560
	20	65.6	11.4	37.39	8.6	28.21	0.30	0.39	20350	19015	21925	16560
34-37T	15	49.2	8.55	28.04	6.45	21.16	0.80	1.04	15800	10180	10860	9680
	18	59.04	10.26	33.65	7.74	25.39	0.60	0.78	18800	13180	13860	12680
	20	65.6	11.4	37.39	8.6	28.21	0.40	0.52	20800	15180	15860	14680
38-44T	24	78.72	13.68	44.87	10.32	33.85	0.30	0.39	24500	19900	22300	16500
	15	49.2	8.55	28.04	6.45	21.16	1.00	1.30	15800	10180	10860	9680
	18	59.04	10.26	33.65	7.74	25.39	0.80	1.04	18800	13180	13860	12680
	24	78.72	13.68	44.87	10.32	33.85	0.50	0.65	24800	19180	19860	18680
	30	98.4	17.1	56.09	12.9	42.31	0.40	0.52	30800	25180	25860	24680

- ✓ 1x boom
- ✓ 1x stick/arm
- ✓ 1x bucket
- ✓ 1x arm cylinder
- ✓ 1x bucket cylinder
- ✓ 1x boom pin
- ✓ 2x arm pin
- ✓ 2x bucket pin
- ✓ 2x pin for linkage
- ✓ 1 set of linkage
- ✓ Full set of hydraulic piping/tubing



Hydraulic Dredging Pump

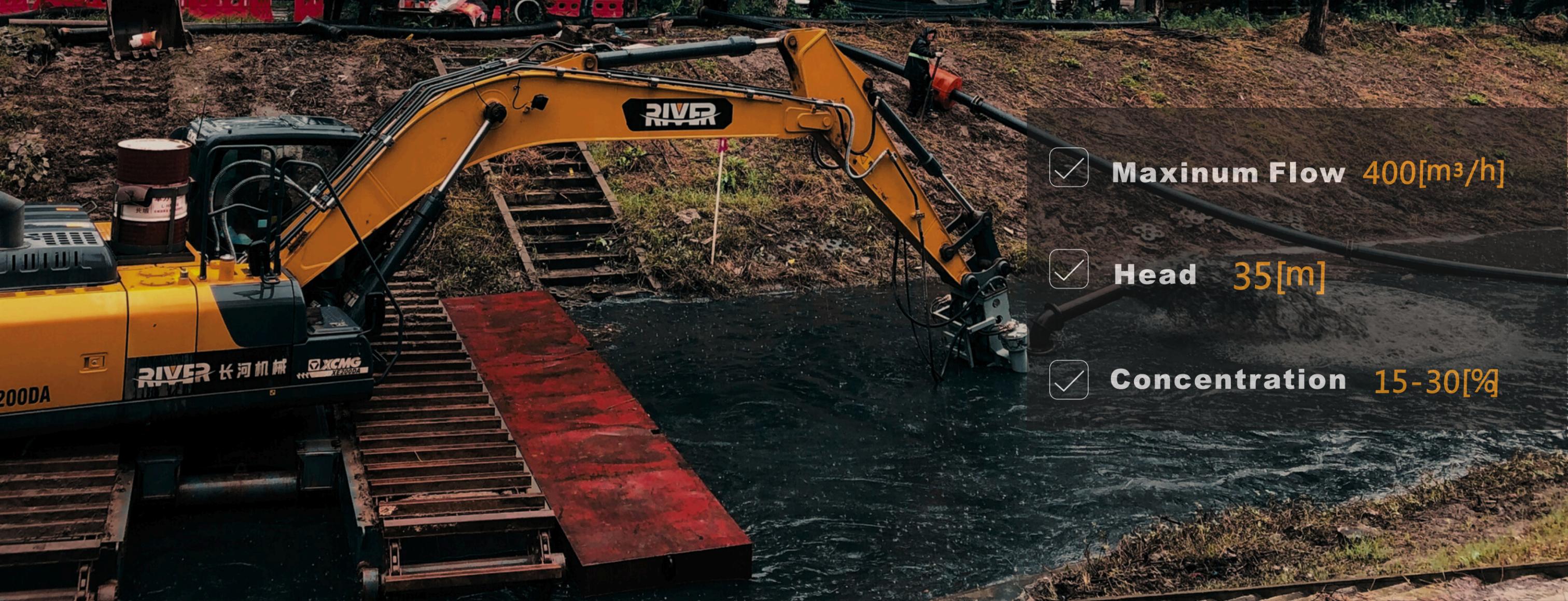


Usage

- ☞ The hydraulic dredging pump can be used effectively and safely to remove sediment, debris, and other materials from water bodies for various purposes, such as navigation, flood control, environmental remediation, and construction.
- ☞ These pumps are crucial in maintaining waterways, preventing flooding, and reclaiming land. They are also utilized in various industries such as construction, mining, and environmental remediation for tasks like excavating and transporting slurries, sand, and other materials.

Application Scenarios

	Dredging and maintaining rivers, lakes, beaches, salt lakes, marshes, and other areas		Extracting sediment, sludge, and debris from aquatic environments
Processing solid solutions such as waste slag and iron scraps		Facilitating the transportation of slurries and sand	
	Facilitating the transportation of slurries and sand		Reclaiming land and safeguarding against erosion.



- ✓ **Maximum Flow** 400[m³/h]
- ✓ **Head** 35[m]
- ✓ **Concentration** 15-30[%]

Hydraulic Dredging Pump Body Parameters

Max flow [m ³ /h]	Head [m]	Concentration [%]	Max. deliver distance [m]	Grain diameter [mm]	Weight [kg]
400	35	10-30	800	60	1400

Hydraulic Dredging Pump Motor Parameters

Motor displacement [cc]	Max hydraulic flow [l/min]	Max hydraulic pressure [bar]	Power [KW-HP]	Rotate speed [RPM]
160	200-380	340	70	1450

OVERSEAS EXPANSION

Our trusted and respected clients spread across more than 50 cities all over China, and our products has been exported to more than 30 countries and regions, such as Indonesia, Malaysia, Philippines, Uganda, Russia, Poland, Africa, South America etc., and has been widely praised by customers.



INTERNATIONAL COOPERATION



Modification Expert

AMPHIBIOUS EXCAVATOR



VISION



We are dedicated to becoming a comprehensive solutions provider in the river construction sector and a global leader in the field of amphibious equipment.

