

# Remu

Amphibious Excavators and Dredgers Brochure  
ENG



## AMPHIBIOUS EXCAVATORS & DREDGERS

YOUR ACCESS TO UNREACHABLE LOCATIONS

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# BIG FLOAT



Big Float undercarriage creates a safe working platform for challenging terrains. Each part of the unique design of Big Float is the result of careful study and field experience.

The shape of the pontoons and modern high strength steels, powerful drive motors and a chain system similar to normal excavators, are only a few of the features that create safety, quality and better productivity at the end of the day.

## UPPER STRUCTURE

Choose any widely known excavator brand to mount

## PONTOON UNDERCARRIAGE

Pontoons are manufactured in three sizes.

Each excavator to be mounted is carefully weighted and measured to assure the needed stability and buoyancy from pontoons.

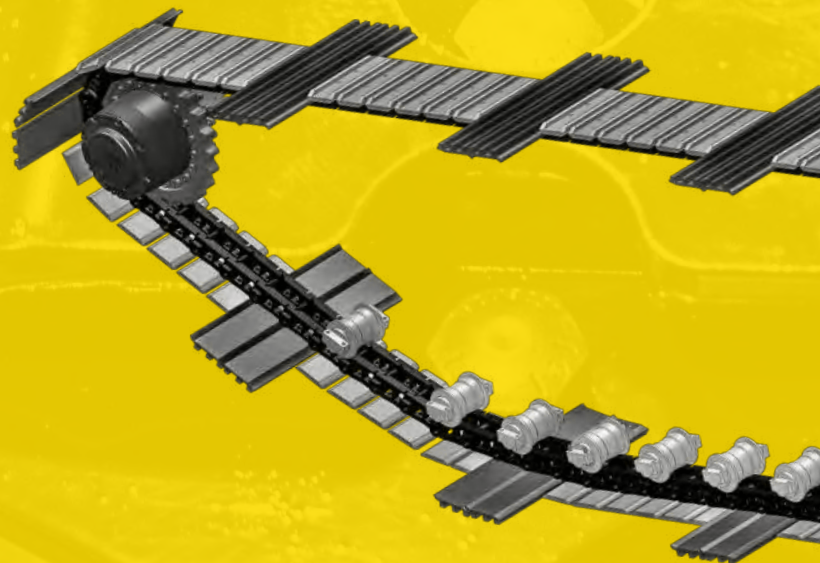
Pontoons are also available without any upper structure.

# STRONG AND PROVEN CHAIN STRUCTURE

## WHY WE USE SIMILAR CHAIN SYSTEM AS STANDARD EXCAVATORS?

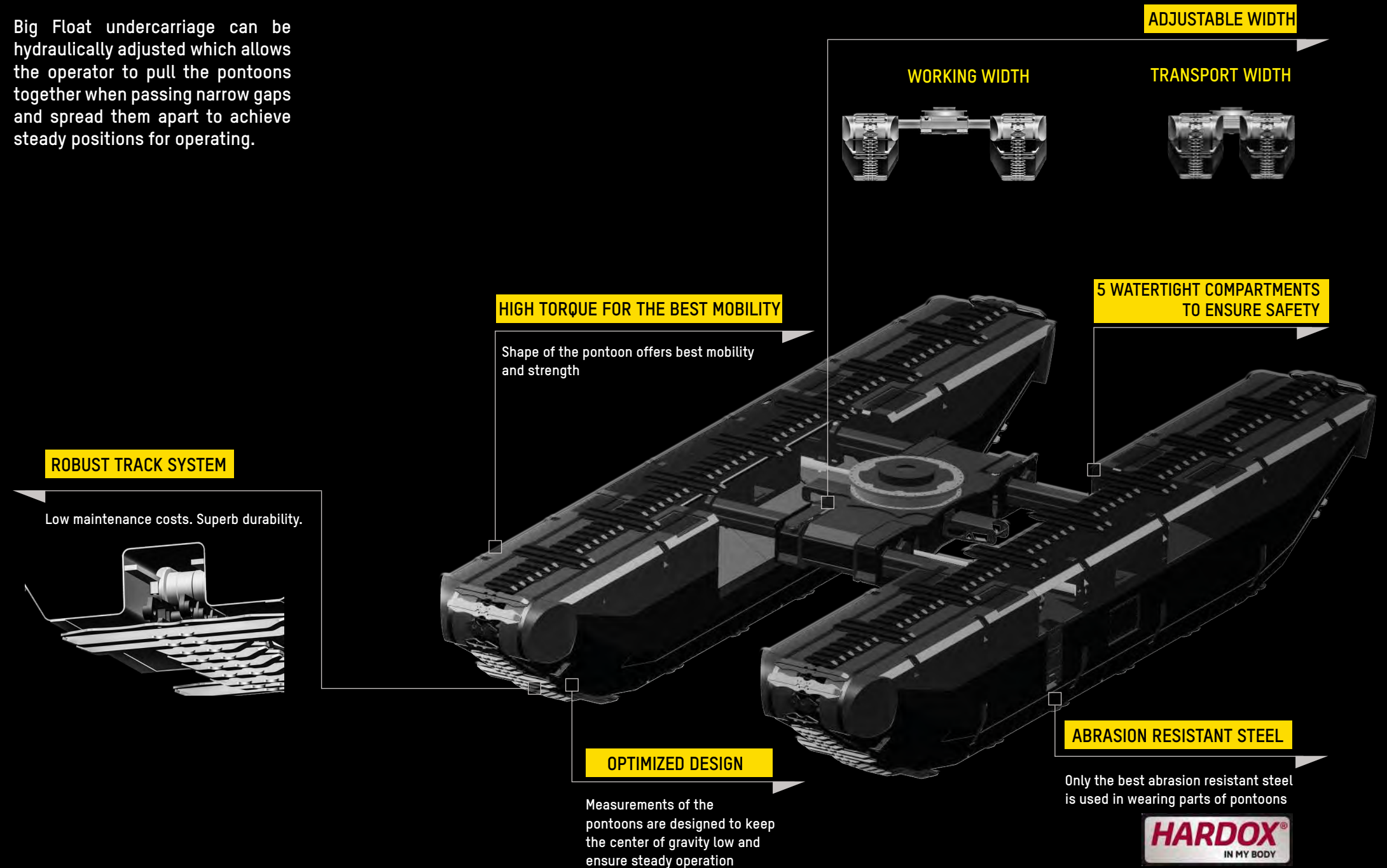
This amphibious excavator is designed to operate in challenging terrains where reliability has immeasurable value. Normal excavator track system has been developed and tested over decades and it has proven to be the strongest way to build crawler track.

The standard excavator chain parts are well available all over the world and the number of wearing parts in standard excavator chain system is far less compared to other chain systems.



# PATENTED, ADJUSTABLE PONTON UNDERCARRIAGE

Big Float undercarriage can be hydraulically adjusted which allows the operator to pull the pontoons together when passing narrow gaps and spread them apart to achieve steady positions for operating.



# AMPHIBIOUS APPLICATIONS

BUILT TO OPERATE IN EVERY SITUATION



## DIGGING DREDGING AND SUCTION DREDGING

All kind of digging dredging in shallow water areas down to 9 meters can be done with Big Float.

Removing mud or stones, transforming reservoir banks or cleaning industrial waste ponds are the most common applications for Big Float. Big Float can also operate as a tool carrier for suction dredging equipment.

## CLEARING WATERWAYS

Big Float is easy to operate also in canals and other narrow waterways.

Debris, trash, branches from trees and excess sediment that is piling on the bottom of a waterway can be removed with rake or dredging bucket

## MINING INDUSTRY

Big Float can be helpful in many stages in open cast mines.

It has been used for example to assist water pumps and other dewatering and damming jobs.

## LANDSCAPING & CUTTING AQUATIC VEGETATION

Big Float offers safe and convenient way for landscaping in swampy areas on shoreline. When machine is equipped with rake, removing aquatic vegetations and the roots, can be done effectively.

Also special hydraulic tools can be used for harvesting weed, Willow trees and other bushes from the waterfront.

## LEVEE CONSTRUCTION AND RESTORATION OF WETLANDS

Levee systems are built to prevent river or coastal floods and with the purpose of water conservation. When it comes to constructing levees in the areas inaccessible to conventional excavators or cranes – amphibious excavators are used.

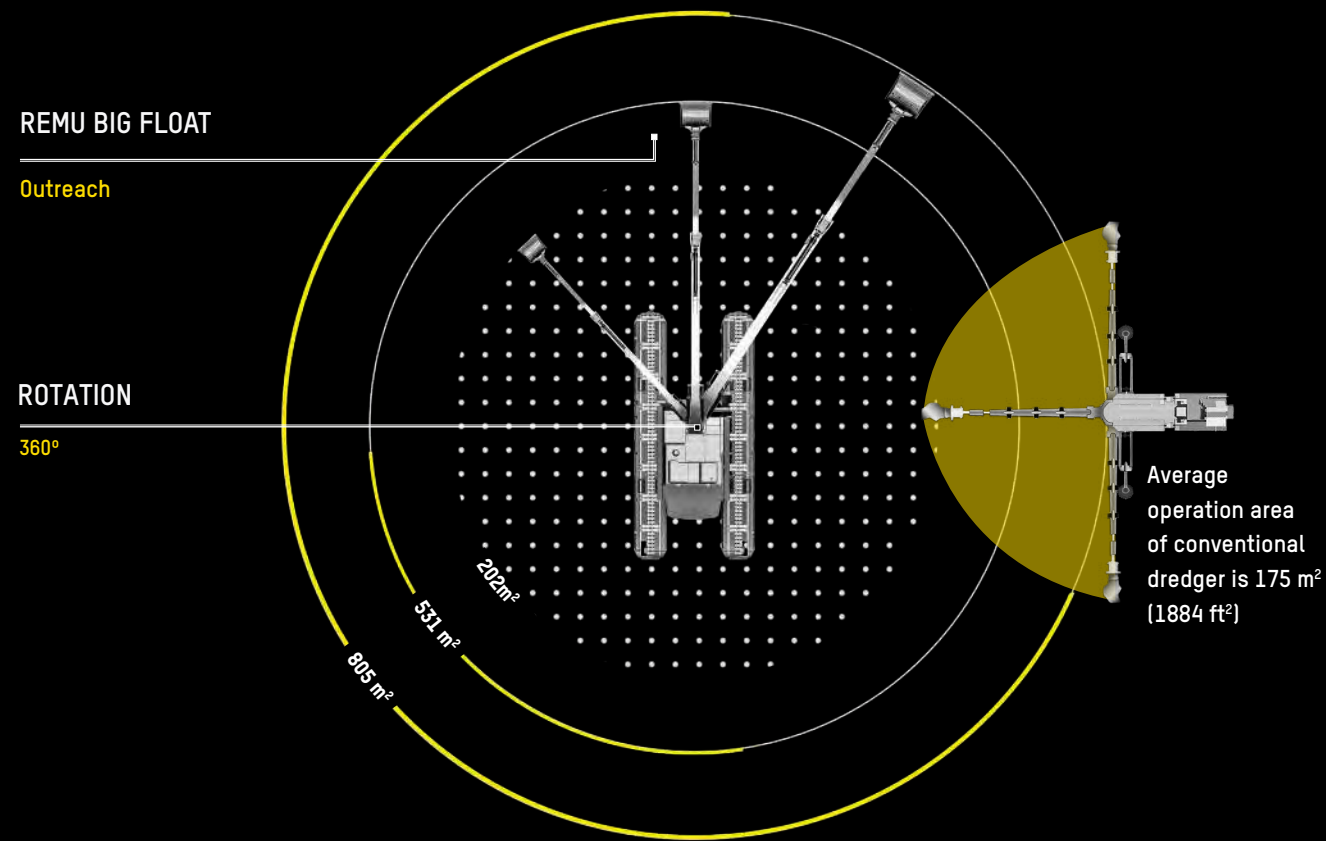
Big Float is successfully used to construct levees/dikes in wet, soft terrains such as marshlands and wetlands around the world.

## ENVIRONMENTAL REMEDIATION AND COASTLINE PROTECTION

From removal of pollution or contaminants from marshes to wetland reclamation or construction and maintenance in the shallow waters

Big Float is reliable amphibious equipment built with the highest quality standards and able to easily perform in the toughest terrains.

# REACH HIGHER, STRONGER AND FURTHER

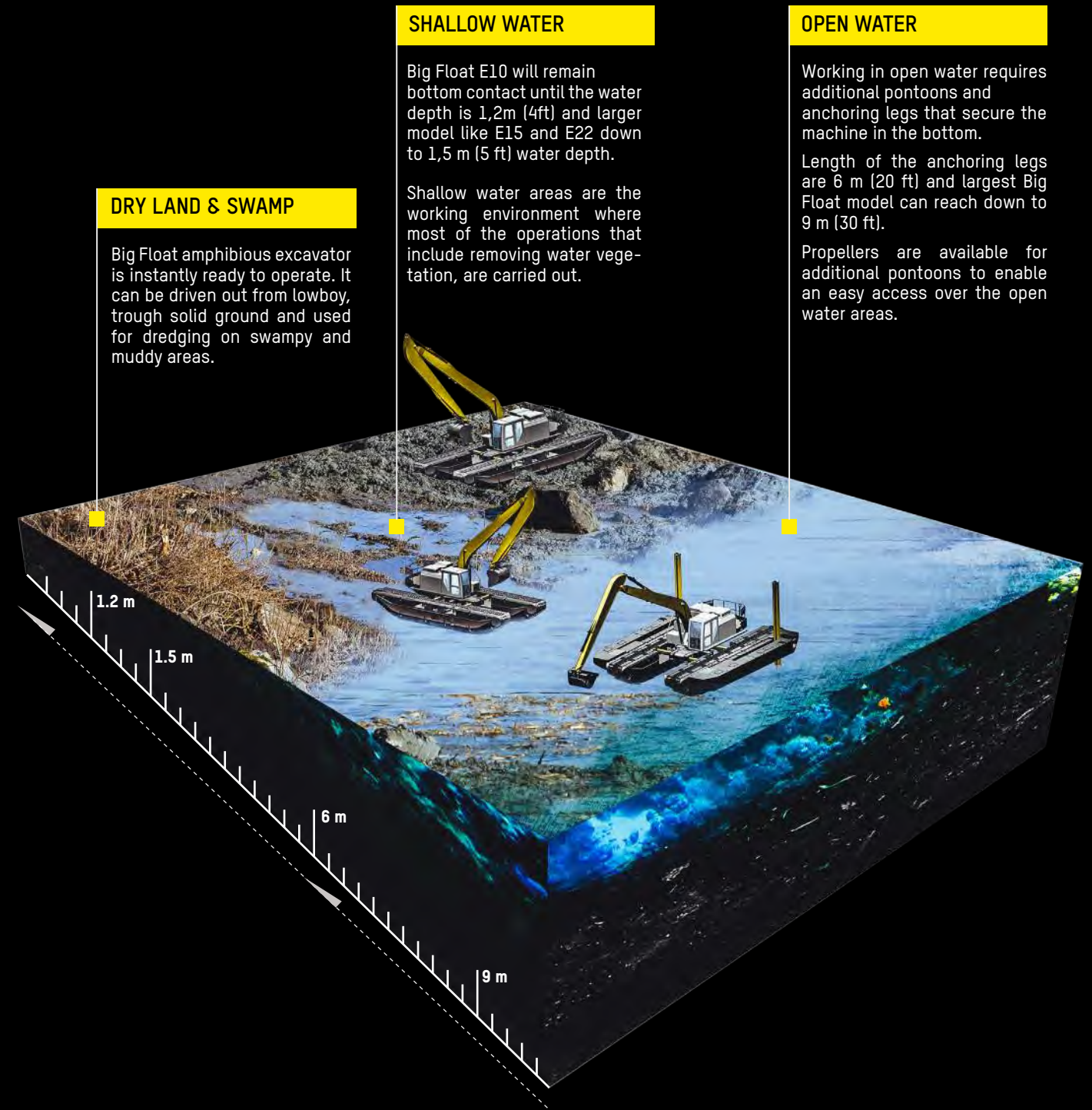


	BIG FLOAT E10		BIG FLOAT E15		BIG FLOAT E22	
OPERATING AREAS	202 m <sup>2</sup>	2174 ft <sup>2</sup>	531 m <sup>2</sup>	5715 ft <sup>2</sup>	805 m <sup>2</sup>	8665 ft <sup>2</sup>

Operating area of BIG FLOAT amphibious excavator is superior compared to traditional dredgers. Depending on model and boom length the outreach in front can be up to 16m / 52 ft.

# OPERATION AREAS

SWAMP, SHALLOW WATER AREAS AND OPEN WATER



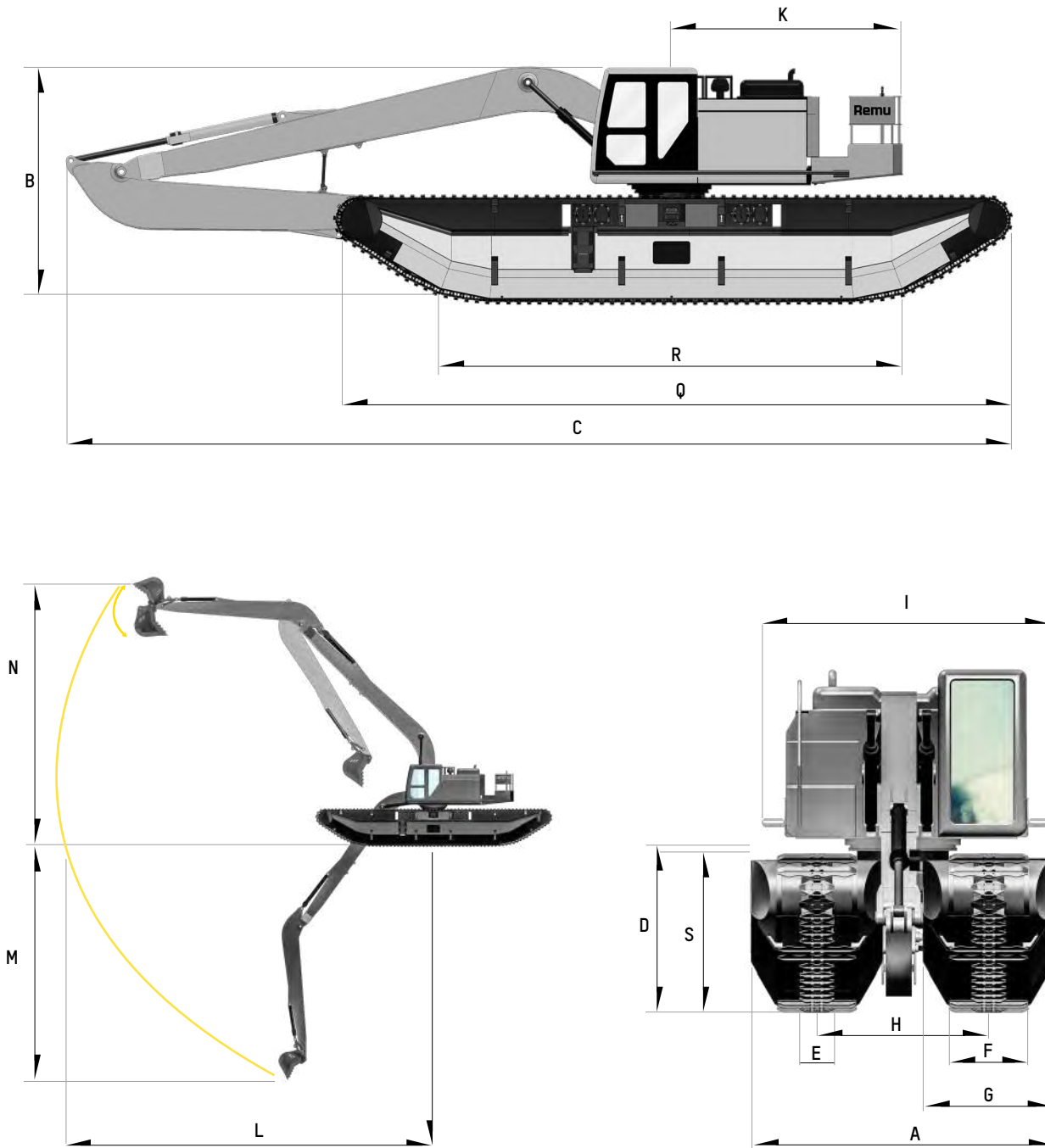
# TRANSPORTATION AND HIGH MOBILITY

MAKES REMU BIG FLOAT THE RIGHT MACHINE

The REMU Big Float is easy to transport from one job site to another: Simply retract the pontoons to transportation width, and drive the Big Float onto the lowboy. Even the biggest Big Float model is only 3,5 meters (less than 11 ft 5 in) width in transportation mode.



# TECHNICAL DETAILS

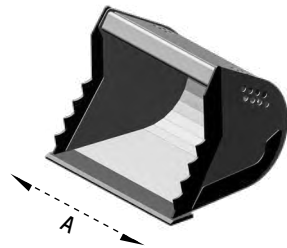


	BIG FLOAT AMPHIBIOUS EXCAVATOR E10		BIG FLOAT AMPHIBIOUS EXCAVATOR E15		BIG FLOAT AMPHIBIOUS EXCAVATOR E22	
WEIGHT <sup>1</sup>	17 000 kg	37 500 lb	24 000 kg	53 000 lb	36 000 kg	79 500 lb
A MIN. TRANSPORT WIDTH	3 m	9 ft 10 in	3 m	9 ft 10 in	3.5 m	11 ft 6 in
A MAX. WORKING WIDTH	4.6 m	15 ft	4.8 m	16 ft	5.5 m	18 ft
B TRANSPORT HEIGHT <sup>1</sup>	3.5 m	11 ft 6 in	3.7 m	12 ft	3.9 m	13 ft
C OVERALL TRANSPORT LENGTH <sup>1</sup>	10.2 m	33 ft 6 in	13.7 m	45 ft	16 m	53 ft
D UNDERCARRIAGE HEIGHT WITH ADAPTER RING	1.5 m	4 ft 11 in	1.7 m	5 ft 7 in	1.9 m	6 ft 3 in
MAXIMUM WORKING WIDTH WITH ADDITIONAL PONTOONS	6.9 m	22 ft 7 in	7.8 m	25 ft 7 in	8.2 m	27 ft
G PONTOON WIDTH	1.3 m	4 ft 3 in	1.3 m	4 ft 3 in	1.5 m	5 ft
E TRACK SHOE WIDTH	0.4 m	1 ft 4 in	0.4 m	1 ft 4 in	0.4 m	1 ft 4 in
F TRACK SHOE WIDTH	0.9 m	3 ft	0.9 m	3 ft	0.9 m	3 ft
H MINIMUM TRACK WIDTH	1.7 m	5 ft 6 in	2 m	6 ft 7 in	2 m	6 ft 7 in
Q TRANSPORT LENGTH (PONTOONS)	8.2 m	26 ft 11 in	11.2 m	36 ft 9 in	11.4 m	37 ft 5 in
R LENGTH OF TRACKS ON GROUND	4.3 m	14 ft	6 m	20 ft	6.4 m	21 ft
S TRANSPORT HEIGHT (PONTOONS)	1.4 m	4 ft 7 in	1.5 m	4 ft 11 in	1.7 m	5 ft 7 in
I CATWALK WIDTH <sup>1</sup>	3 m	9 ft 10 in	3 m	9 ft 10 in	3.3 m	11 ft
K COUNTERWEIGHT SWING RADIUS <sup>1</sup>	3.2 m	11 ft	3.2 m	11 ft	3.8 m	12 ft 6 in
L OUTREACH (IN FRONT) <sup>1</sup>	9 m	30 ft	13 m	45 ft	15.5 m	50 ft
M DIGGING DEPTH <sup>1</sup>	4 m	13 ft	7.5 m	24 ft 7 in	9 m	30 ft
N MAX CUTTING HEIGHT <sup>1</sup>	11 m	36 ft	11 m	36 ft	13 m	43 ft
MAXIMUM WORKING DEPTH WITHOUT ADDITIONAL PONTOONS <sup>1</sup>	1.2 m	3 ft 11 in	1.5 m	4 ft 11 in	1.5 m	4 ft 11 in

<sup>1</sup> Can vary depending on the base machine  
 All weights and sizes (metric and imperial) are approximate. Specifications subject to modifications at manufacturer's discretion. Always revise the local limitations for road transportation. Some measurements depend on the chosen make and model of the base machine.

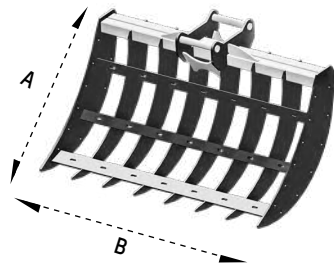
# CUSTOMIZE YOUR BIG FLOAT

## BUCKET



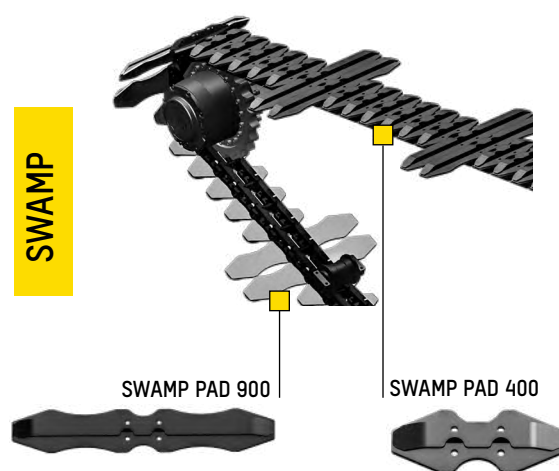
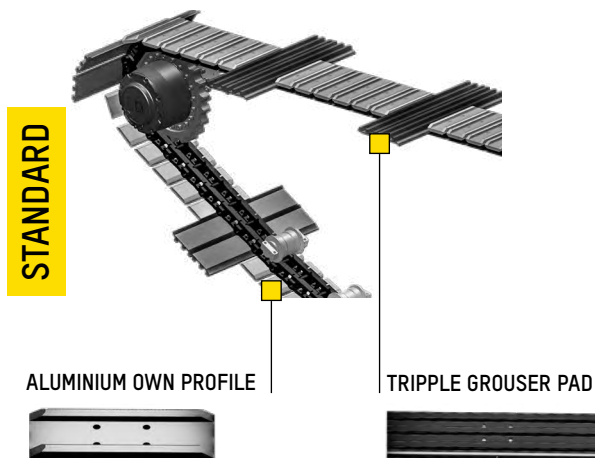
MODEL	VOLUME		A		MASS	
BUCKET 300	300 litres	80 gal	1020 mm	40 inch	180 kg	397 lb
BUCKET 600	600 litres	160 gal	1300 mm	52 inch	490 kg	1080 lb
BUCKET 800	800 litres	210 gal	1540 mm	60 inch	540 kg	1090 lb

## RAKE

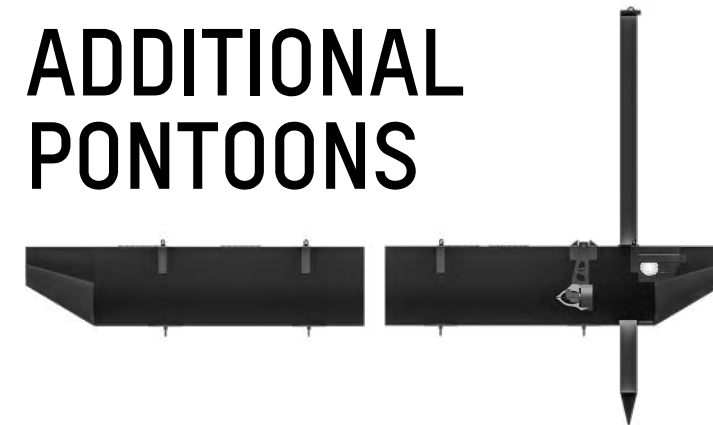


MODEL	A		B		MASS	
RAKE 1300	1350 mm	54 inch	1300 mm	52 inch	470 kg	1036 lb
RAKE 2200	1350 mm	54 inch	2200 mm	88 inch	520 kg	1146 lb
RAKE 2200 (with mesh)	1350 mm	54 inch	2200 mm	88 inch	550 kg	1212 lb

# TRACK PADS



# ADDITIONAL PONTOONS



Additional pontoons give extra buoyancy and stability when working without bottom contact.

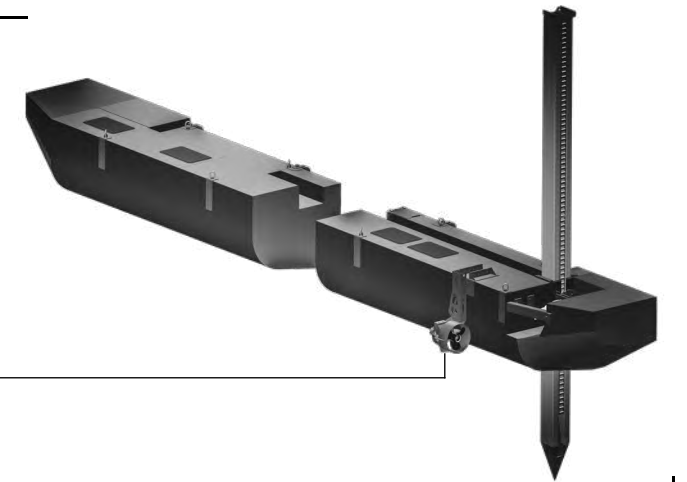
Each side of the additional pontoon consists of 2 separate parts for an easier assembly.

## ANCHORING LEGS

Anchoring legs secure the Big Float to the bottom so that machine does not move while digging or when working in conditions where current occurs.

## PROPELLERS

Propellers are attached to additional pontoons to drive the Big Float in open water. The speed of 7 km/h (3,8 knots) (4,5 mph) can be achieved.



# COUNTERWEIGHT



REMU counterweight can be equipped with an inbuilt fuel tank to refuel the original.

It is lighter than basic counterweight and it can be used to storage additional equipment on top.



# Remu

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## YOUR DEALER

REMU has a policy of continuing improvement, and reserves the right to change specifications without prior notice.  
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