www.fineequipment.net
FINE
FINE
BIG FLOAT
AMPHIBIOUS EXCAVATOR &
DREDGERS

BIG FLOAT

YOUR ACCESS TO UNREACHABLE LOCATIONS

Fine Big float is a unique amphibious excavator designed to work in most challenging environments. It can be driven on solid land, through shoreline and to shallow water areas that cannot be reach by normal excavator or by boat. As its floating, it's also able to move on swamp where it is impossible for a man to walk.

UPPER STRUCTURE

As a customer you are free to choose any widely known excavator brand to be mounted. Once you decide which brand excavator you want, Fine's team will do the rest, to deliver a 100% ready to operate amphibious excavator.

PONTOON UNDERCARRAIGE

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 upper structure.

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PONTOON UNDERCARRIAGE

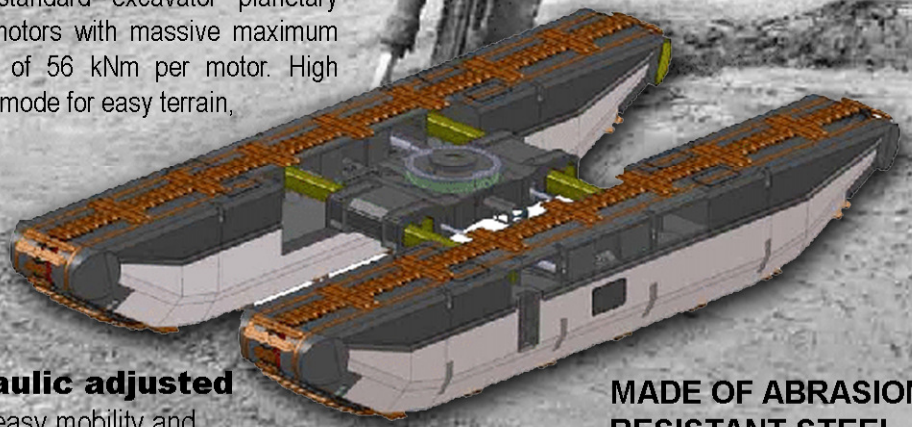
RELIABILITY COMES WITH CAREFULLY ENGINEERED DETAILS

Big Float undercarriage is built to survive through changing terrains. Shape of the pontoon together with powerful drive motors are designed to give best mobility in the worst surroundings. Strong and proven chain structure is the same to normal excavator, offering reliable performance.

Big float pontoon undercarriage is unique platform that creates a safe working environment in otherwise unsafe locations. Each part of the pontoon is result of a careful study. Abrasion resistant steel is used in those parts of the pontoons that receive most of the shocks caused by uneven surface. Furthermore, each pontoon is divided in the baffle sections, to secure the floating.

Two speed track drive
The driving power of big float comes from standard excavator planetary gear motors with massive maximum torque of 56 kNm per motor. High speed mode for easy terrain,

Ground Pressure
less than 110g/cm^2



Hydraulic adjusted
For an easy mobility and transportation in public road

MADE OF ABRASION RESISTANT STEEL
8 times longevity than other ordinary machines

FINE BIG FLOAT pontoons can be hydraulically adjusted. This feature allows the operator to pull the pontoons together when passing through narrow gaps and the spread them apart to achieve a steady position for operations.

Transport Width

Working Width

Durable track system
Provide long service life in the most demanding applications

BUILT TO OPERATE IN EVERY SITUATION

Cutting Bushes from Water Side

Willow trees and other bushes can grow fast and hide the landscape at waterside. With Big Float and a special cutting tool, harvesting can be done fas without leaving excessive marks to the environment.

Building Filtering Dam to a Peat Swamp

When swamp is used for peat production, humus may leach as a result of drainage or peat extracting. Big Float has been used for building a dam to filter humus out of water before it streams into the surrounding water system.

Landscaping

REMU Big Float can be used for landscaping in swampy areas near river ways and shorelines where conventional machine won't be able to operate as it can easily slip & sink into the soft ground and get immobilized.

MINING INDUSTRY

Big Float can be helpful in many stages in open cast mines. It has been used for example to assist wter pumps and other dewatering and damming jobs.

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.

Dredging Intake Channels and Reservoir in Hydro Power Plant

Sediment that is pilling on the bottom of the intake channels and reservoir of barrage of hydro power plant, can be dredged with Big Float to maintain sufficient flow for the plant's operations.

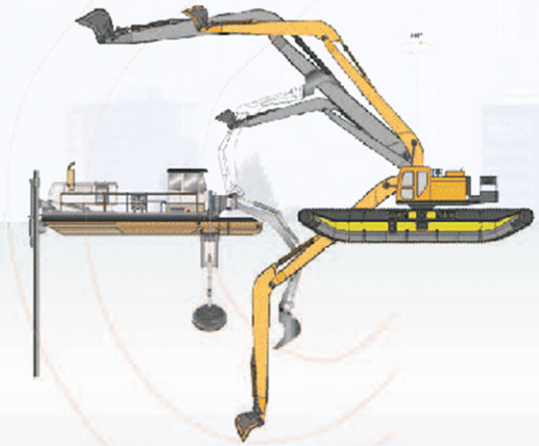
Cleaning Channels

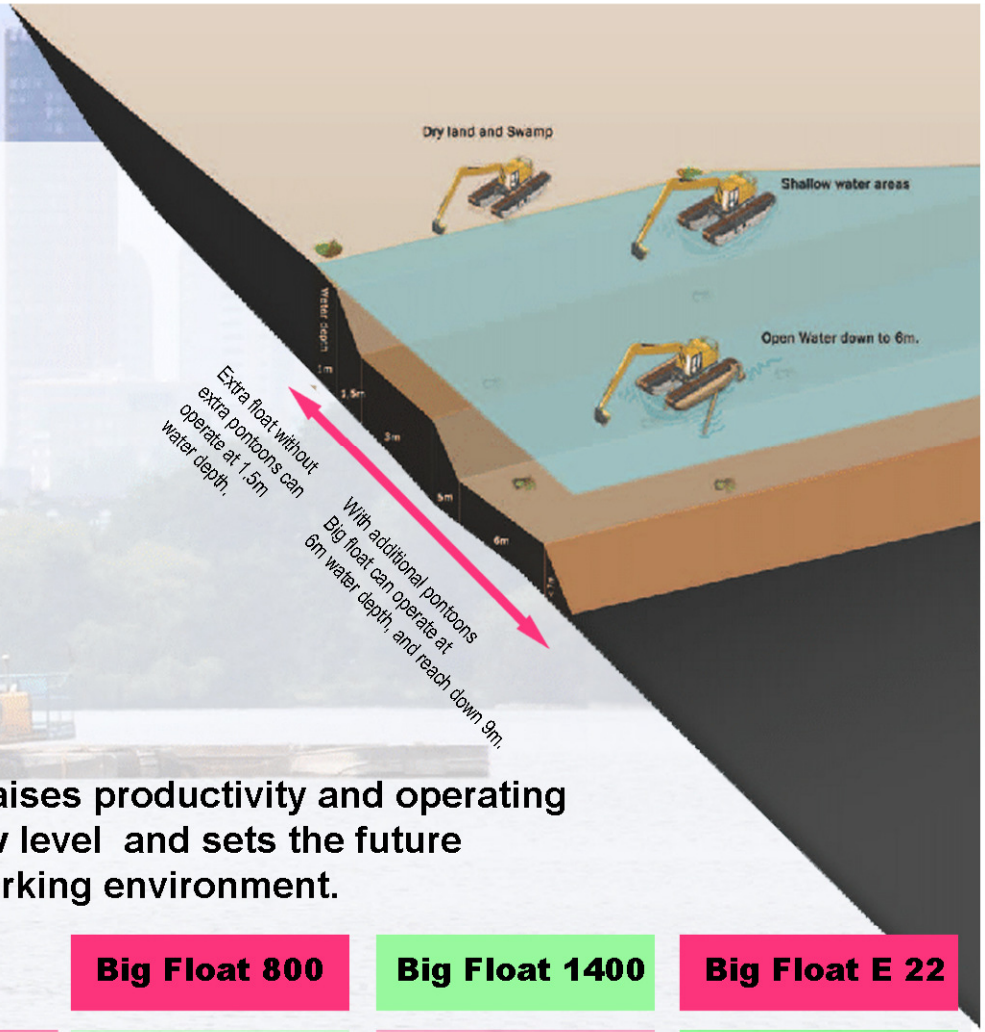
Big Float is easy to operate also in channels and other narrow water ways. Trashes, leaves and branches from the trees and excess sediment that is pilling on the bottom of the channel can be removed with rake or dredging bucket.

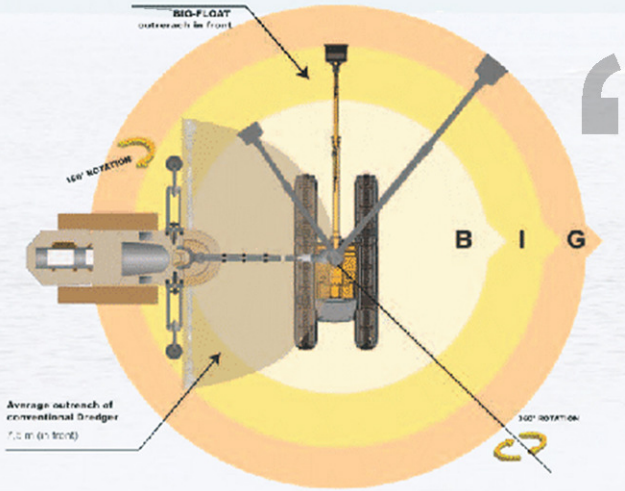
CUTTING AQUATIC VEGETATION

Aquatic vegetation that is growing on the bottom of the river or lake can be removed with Big Float and rake. With Big Float it is possible to remove also roots of the plant and thus prevent plant growing back. If it is needed also special hydraulic tools can be used for cutting.

REACH HIGHER, STRONGER AND FURTHER







> The fine big Float raises productivity and operating area to a whole new level and sets the future standard for the working environment.

	Big Float 800		Big Float 1400		Big Float E 22	
OPERATING AREAS	B		I		G	
	202m²	2174 ft²	531m²	5715 ft²	805m²	8665 ft²

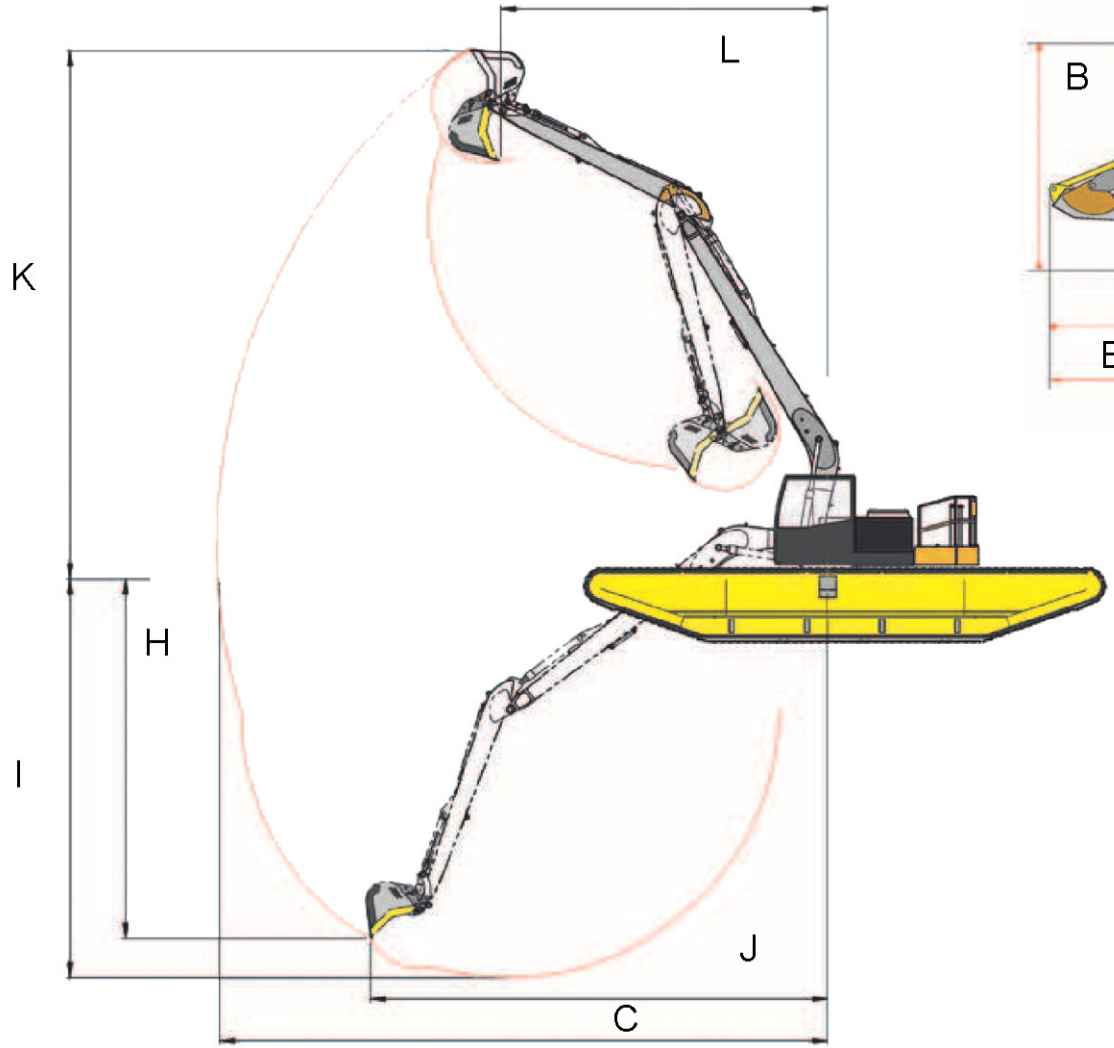
Average operating area of a conventional dredger is 175 m² (1884 ft²).

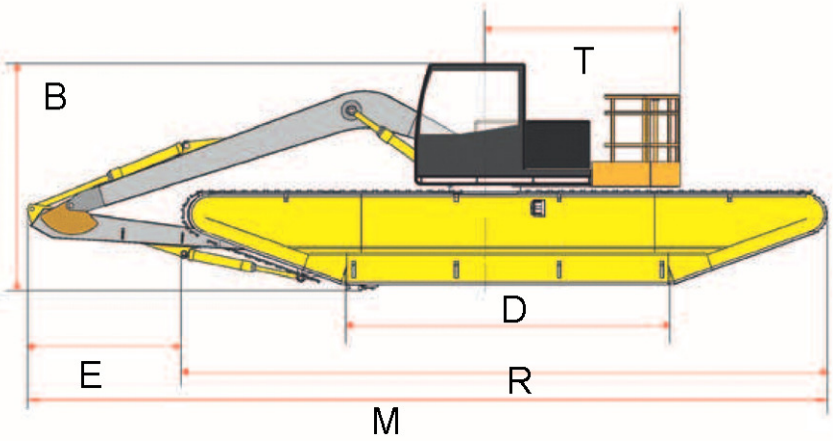
TRANSPORTATION AND HIGH MOBILITY

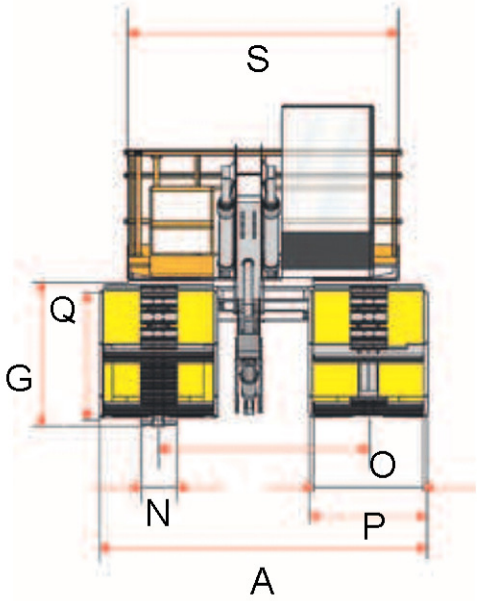
MAKES FINE BIG FLOAT THE RIGHT MACHINE

The FINE Big Float is easy to transport from one job site to another:
Simple retract the pontoons to transportation width (3 m) and drive the Big Float onto the low bed trailer. Even the biggest Big Float model is only 3.5 m width in transportation mode.

TECHNICAL DETAILS







TECHINICAL DETAILS

Metric units

	Big Float 800	Big Float 1400	Big Float E 22
Weight	13500kg	24000kg	36000kg
A min. Transpoer width	3 m	3 m	3.5 m
A max. Maximum working width	4.2 m	4.8 m	5.5 m
Maximum Working depth with additional pontoons	6.2 m	7.8 m	8.2 m
A driving	3 m	3.6 m	3.6 m
B Transport height	3.2 m	3.7 m	3.9 m
C Outreach (in front)	8.7 m	13 m	16 m
D	4.5 m	6 m	6.4 m
E	2 m	2.5 m	4.5 m
F (Minimum Width)	1.7 m	2.3 m	2.0 m
G (Undercarraige Height)	1.5 m	1.7 m	1.9 m
H Digging Depth	4.3 m	7.5 m	9 m
I	5.1m	8.5 m	10 m
J	5.7 m	9.7 m	12.5 m
K	7.5 m	11 m	13 m
L	5 m	6.9 m	9.6 m
M Over all transport length	9 m	13.7 m	16 m
N Track shoe width	0.3 m	0.4 m	0.4 m
O Track shoe width	0.95 m	1.2 m	0.9 m
P	1.3 m	1.3 m	1.5 m
Q	1.2 m	1.4 m	1.7 m
R Transport Length	7 m	11.2 m	11.4 m
S	2.4 m	3 m	3.3 m
T	N/A	3.2 m	3.8 m
Ground Pressure [1]	125 g/cm^2	160 g/cm^2	110 g/cm^2
Maximum working depth without additional pantoons	1.2 m	1.5 m	1.8 m

[1] Ground pressure is mesured with 500mm submerged pontoons

All weights and sizes(metric and imperial)are approximate. Specifications subject to modifications at manufaturer's discretion.
Always revise the local limitations for road transportation. Some measurements depends on the chosen make and model of the base machine.

Specification

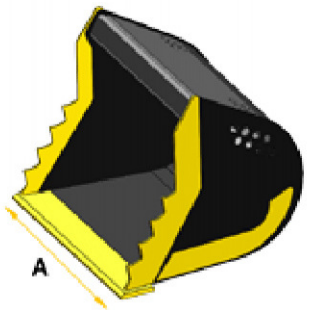
BIG FLOAT WORK TOOLS

Fine Big Float can be equipped with any tool and attachment that is needed to fulfill certain application.
Following are some of FINE's optional equipment.

DREGADING BUCKET

General dredging attachment with holes to remove excessive water.

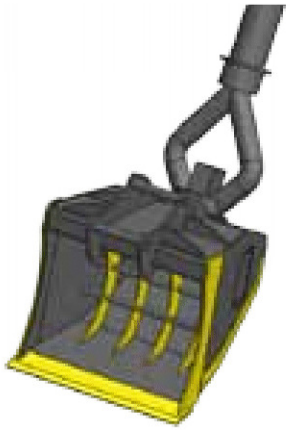
MODEL	Volume	A	Mass
	Liters	mm	Kg
Bucket 300	300	1020	180
Bucket 600	600	1300	490
Bucket 800	800	1540	540



SUCTION DREDGING ATTACHMENT

Designed for suction dredging of slurry, mud and sand, FINE offer different pump options for such application. The mass of one unit is approximately 800 Kg depending on the selected pump.

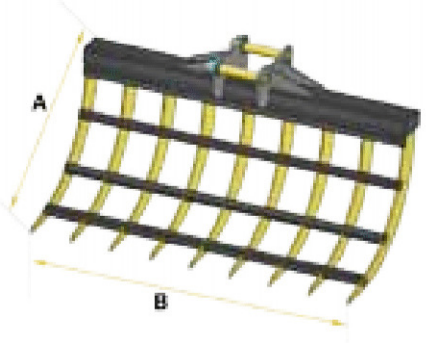
MODEL	Max Output[1]	Max Lifting Height	Allowable oil flow
	l/min	m	l/min
Pump 1	3000	35	50
Pump 2	5000	30	100
Pump 3	8000	35	169
Pump 4	12000	35	200
Pump 5	20000	35	317



RAKE

Attachment clears away unwanted reeds, roots, limbs and any other vegetation from shorelines, waterways or river side.

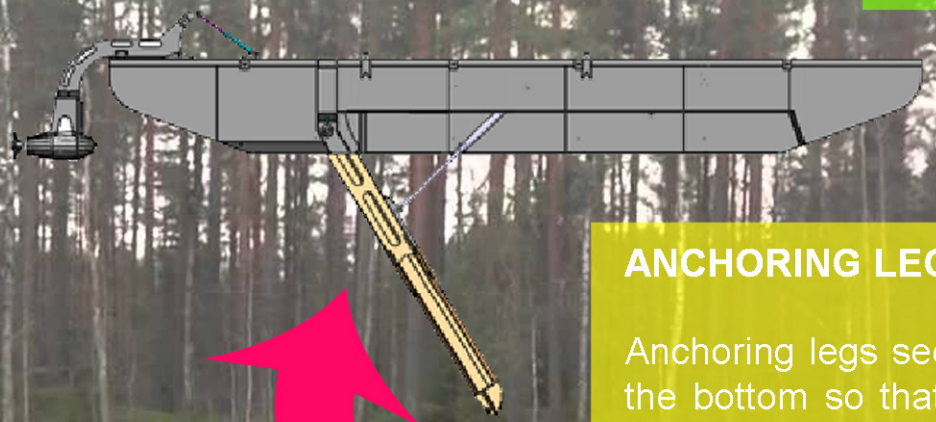
MODEL	A	B	Mass
	mm	mm	Kg
Bucket 800	1150	1540	300
Bucket 2200	1350	2220	520
Bucket 2500	1530	2530	690



WORKING IN OPEN WATER

FINE Big Float is totally floating. However, operating the machine is open water deeper thet 1.5 meters (5ft.) requires additional pontoons and anchoring legs.

Optional Equipment

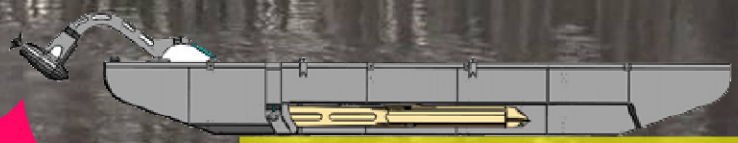


ANCHORING LEGS

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.

ADDITIONAL PONTOONS

An additional pontoon gives the needed buoyancy and stability when working without bottom contact



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 Knots) can be achieved.

FINE

BIG FLOAT

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FINE

NETWORK

Under our policy of continuous improvement, we reserve the right to change specification and design without prior notice. The illustrations do not necessarily show the standard version of machine.