

Watermaster

Classic IV | Classic V

Amphibious Multipurpose Dredger
For dredging, piling, raking – and more

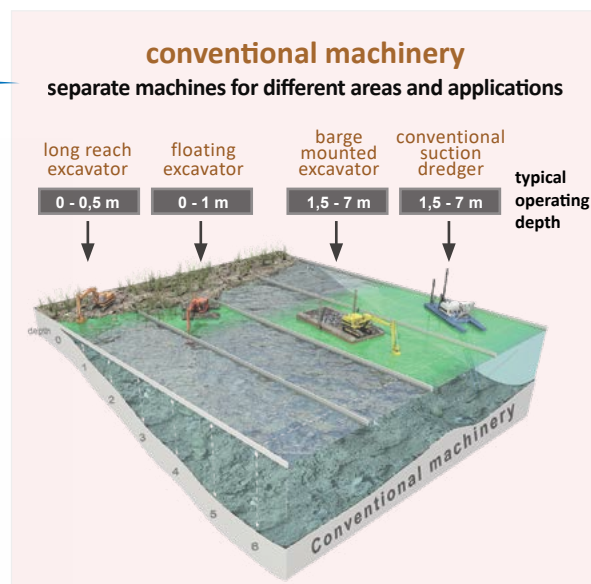
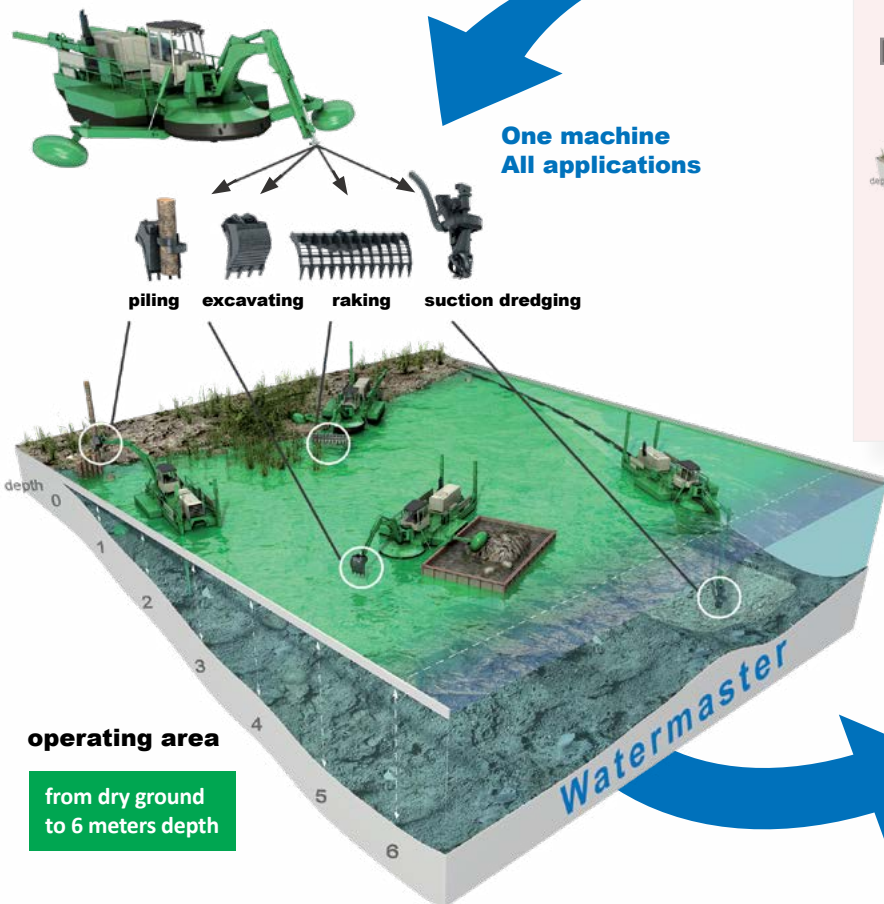
Unique mobility in water and on land
Operational area from dry ground to 6 meters depth

Made in Finland - Operating worldwide



Watermaster

Amphibious Multipurpose Dredger



Watermaster

- one machine for all applications
- superior mobility and versatility
- replaces several single purpose machines
- reduces investment and operational costs
- proven performance and service

1 transport
on a standard trailer

2 mobilize
without set-up times,
cranes and tugboats

3 work
without winches, wire-cables
and assisting vessels

versatile

mobile

proven

Watermaster

amphibious multipurpose dredger

FOPS certified cabin

Caterpillar engine

discharging up to 1,5 km away

large work area with flexible excavator arm

quickly changeable attachments

independent anchoring with 4 stabilizers

**MINIMIZED REPOSITIONING TIME =
MAXIMUM WORK EFFICIENCY**

With its flexible excavator arm and four unique stabilizers,
the Watermaster covers a large area from each position,
and changes its position quickly

Watermaster cutter pump

- sludge-pumping capacity up to 600 m³/h with Classic IV and 900 m³/h with Classic V
- discharge distance up to 1,5 km
- submersible, includes two cutter crowns
- revolutionary integrated cutting knife system (patented)

600 l bucket

- for excavation work

clamshell bucket

- for excavating polluted materials - seals the materials inside the bucket
- ideal for loading into barges
- volume 600 l

rake

- for removal of reeds, roots and other vegetation
- for cleaning the bottom from trash
- 2,75 m wide

piling bucket

- for driving wood piles
- for reinforcing shores
- for marina maintenance

keep waterways operational

- deepening and maintaining shallow waterways
- marina and harbor dredging
- beach revitalizing and land reclamation

prevent floods and clean the environment

- flood prevention and control
- removal of invasive vegetation
- cleaning and restoring urban canals

utilize in construction projects

- foundation work by pile driving
- strengthening shorelines by pile driving
- trench digging and laying underwater pipe and cable

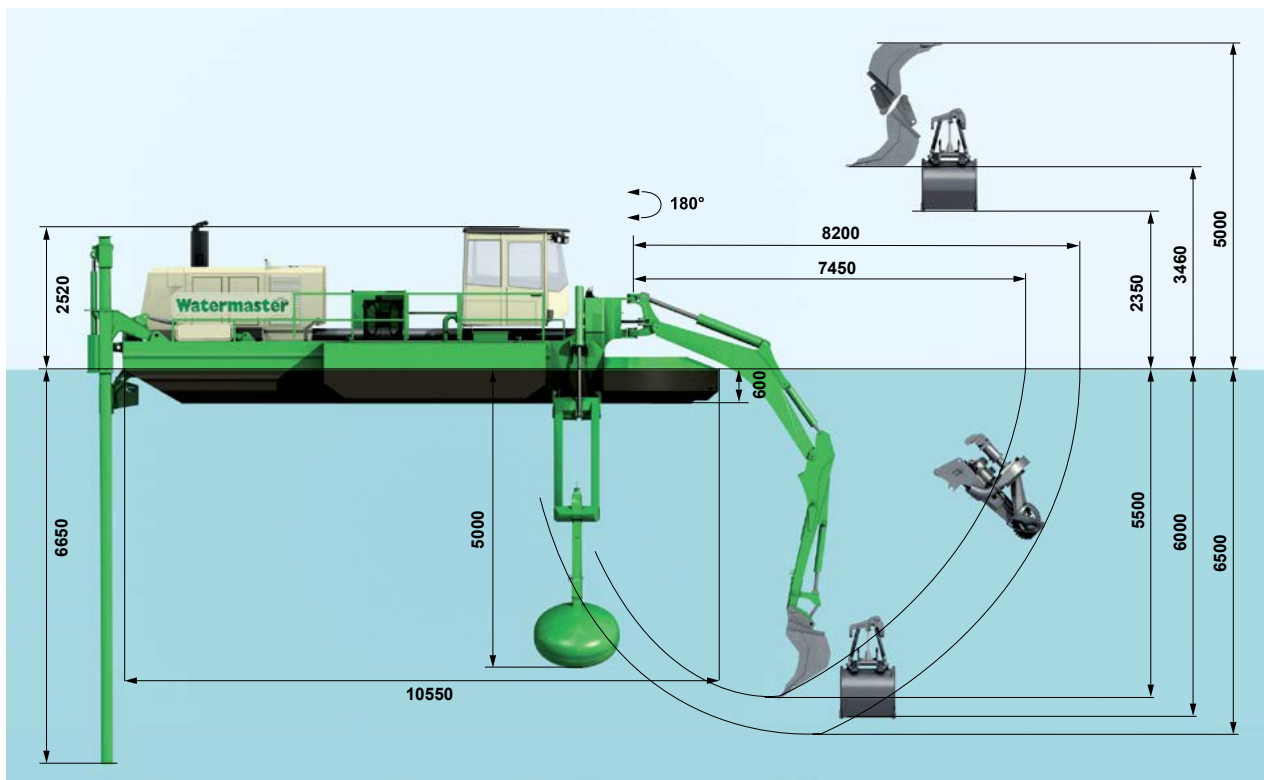
maintain industrial ponds and recover valuable materials

- maintenance of process- and wastewater ponds
- recovering valuable materials from tailings and drainage ponds

proven technology

- continuously developed since 1986
- made in Finland - operating worldwide
- supported by Watermaster service network
- ISO 9001 & ISO 14001 certified serial product

amphibious multipurpose dredger



Amphibious Multipurpose Watermaster

engine

Caterpillar C7.1, turbo charged, 6-cylinder diesel engine

- air-water radiator cooled
- flywheel power at 2100 rpm
- fuel tank capacity
- electric system
- batteries
- electric refueling pump

168 kW (Classic IV)
205 kW (Classic V)
1200 l
24 V
2 x 180 Ah

hydraulics

one axial piston pump for dredging

and propeller - operating pressure max. 345 bar

one axial piston pump for digging

and stabilizers - operating pressure max. 230 bar

excavator

- swinging angle
- break-out force from bucket cylinder
- digging force from arm cylinder
- lifting capacity at max. reach
- quickly changeable attachments

180°
83 kN
47 kN
24,5 kN

hull

- one piece hull divided into 7 watertight compartments
- corrosion resistant painting outside and inside
- protective skid bars on underside
- mast, signal lights for dredging and navigation

cabin

- modern FOPS certified cabin with excellent visibility
- additional seat for instructor
- 10 work lights

anchoring

- independent anchoring and work movement without assisting vessels, winches or wire-cables
- two front stabilizers, max depth 5,0 m
- two rear tilting stabilizers, max depth 6,7 m

mobility

- self-loading and self-unloading to/from a trailer
- moves independently in and out of water
- self-propelled
- amphibious in all work modes

certified quality

- quality certificate ISO 9001
- environmental certificate ISO 14001
- safety certificate ISO 3449

certificates issued by authorized certification authority

transport dimensions and weight

transport length without boom 11,00 m
transport length with boom 17,00 m
transport width 3,30 m
transport height 3,15 m
transport weight ca 22 t

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Watermaster