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

One machine
All applications

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

from dry ground to 6 meters depth
operating area

transport
on a standard trailer

mobilize
without set-up times, cranes and tugboats

work
without winches, wire-cables and assisting vessels
Watermaster amphibious multipurpose dredger

versatile mobile proven

- quick changeable attachments
- large work area with flexible excavator arm
- FOPS certified cabin
- Caterpillar engine
- discharging up to 1,5 km away

keep waterways operational
- deepening and maintaining shallow waterways
- breaches and shallow areas
- beach revetment and sand restoration

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 tailing 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

• independent anchoring with 4 stabilizers
600 l bucket
- for excavation work
- for removing mud from waterways
- seals the materials inside the bucket
- ideal for loading into barges

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

rake
- for removal of weeds, roots and other vegetation
- for clearing glaciers from trash
- 2.75 m wide

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

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.
Amphibious Multipurpose Watermaster

**engine**
- Caterpillar C7.1, turbo charged, 6-cylinder diesel engine
- Flywheel power at 2000 rpm
- Fuel tank capacity: 1200 L
- Batteries: 2 x 170 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: 180°
- Break-out force from bucket cylinder: 83 kN
- Digging force from arm cylinder: 47 kN
- Lifting capacity at max. reach: 24.5 kN
- Quickly changeable attachments

**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: 16.00 m
- Transport width: 3.30 m
- Transport height: 3.15 m
- Transport weight: ca 19.50 t