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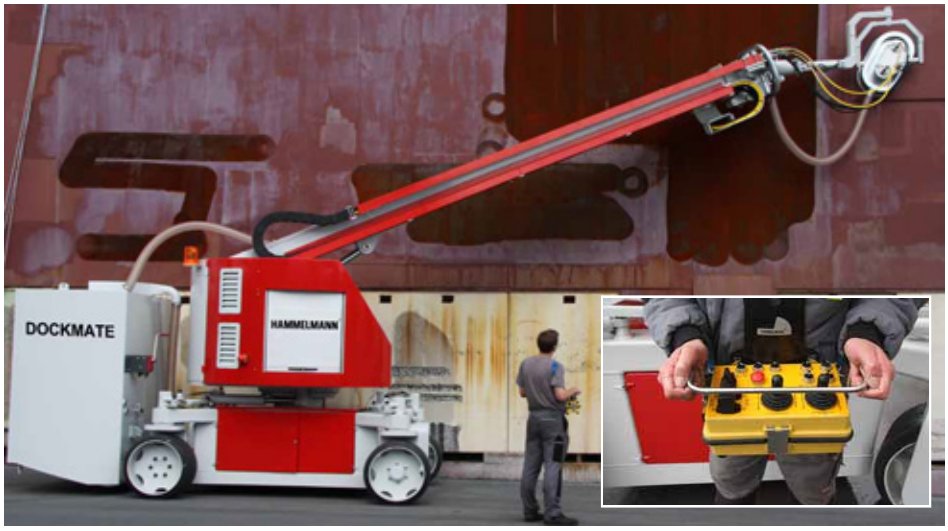
DATA SHEET

DockMate 3000

CALDER

Semi-automatic UHP water blasting vehicle for ship hull and tank surface preparation.



The Dockmate is a completely **dust free**, eco friendly alternative to dry open abrasive blasting capable of preparing hull surfaces to the most exacting standards applicable today.

Using pressures varying between 2500 and 3000 bar up to 150 sq. metres per hour of surface can be prepared to NACE/SSPC standards WJ1/SC-2.

Chassis

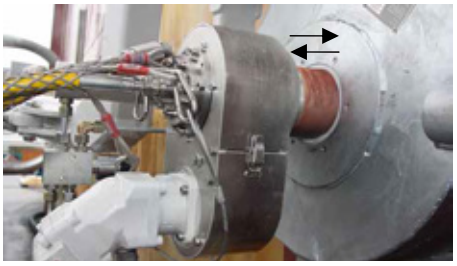
The torsion free chassis with solid rubber tyres is designed for absolute maximum stability. Front and rear axles have independent steering guaranteeing maximum manoeuvrability in the often narrow space between hull and dock wall or through dock access ways. The 4 wheel drive is powered by hydraulic motors with built in limited slip differential.

Telescopic jib

The telescopic jib is mounted on a turntable supported by roller bearings and can be slewed through + 30° to - 30°.

The triple section jib is available in a choice of three versions with maximum working heights of 22m, 27m and 32m.

The Dockmate is operat4ed by portable remote control



Blasting head for spot blasting.

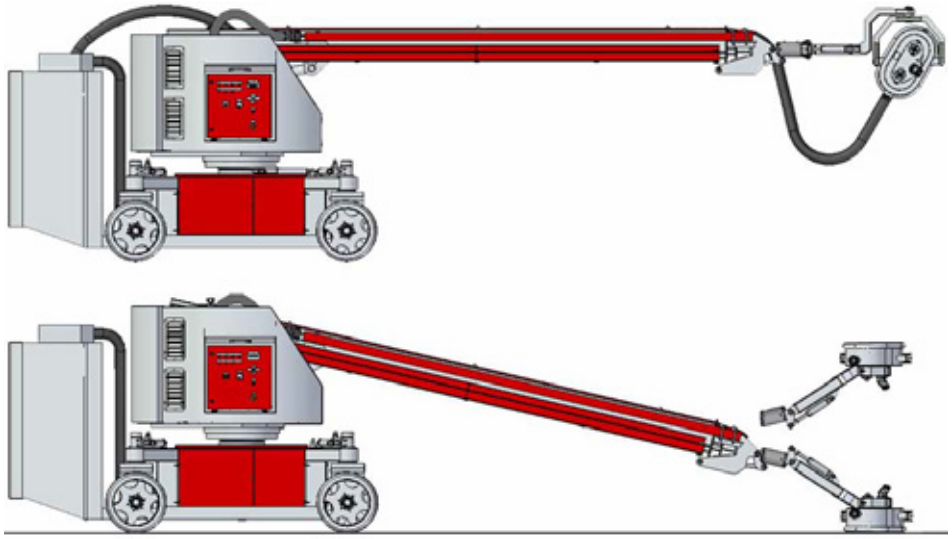
For spot blasting the rotating nozzle arm can be hydraulically retracted from the work surface when moving from spot to spot. This allows the pump unit to continue to run at pressure but without damaging the good surface between the various spots needing blasting. Retracting the nozzle arm increases the stand off distance to a point where the water jets dissipate and are no longer effective.

DockMate 3000

Working arm

A working arm functioning as an equipment carrier is installed at the tip of the telescopic jib.

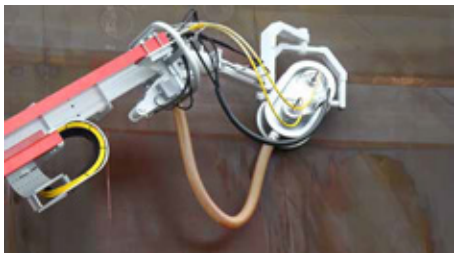
The blasting head can be swivelled so that both horizontal and overhead surfaces can be cleaned.



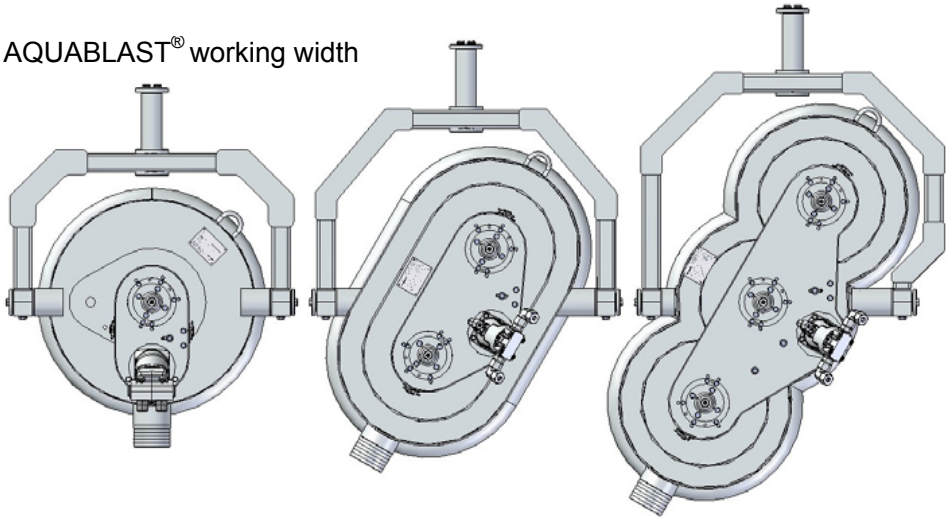
The blasting head is a Hammelmann AQUABLAST® with a choice of from one to three leakage free sealed high pressure, rotary joints.

All three versions are driven by a single hydraulic motor using a ribbed drive belt. This functional principle provides a clear separation between the water and oil hydraulics

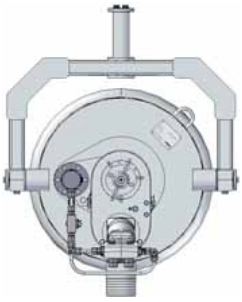
The blasting head seals directly onto the hull surface and is connected to the vacuum unit via a hose/pipe work combination.



AQUABLAST® working width



Working width 380 mm (optional)	Working width 595 mm (optional)	Working width 860 mm (optional)
HDP 170 28 l/min - 3000 bar	HDP 250 46 l/min - 3000 bar HDP 380 61 l/min - 3000 bar	HDP 500 79 l/min - 3000 bar



Blasting head for spot blasting

Working width: 275 mm

Hydraulic system with ECO oil

The hydraulic control is effected by proportional valves, solenoid valves, pressure limiting valves combined with hydraulic motors and hydraulic cylinders.

The hydraulic pumps are driven by a water cooled CAT diesel engine.

Vacuum and waste water filter/ recovery module

The waste water and the solids removed are vacuumed into the filter/ recovery module.

The waste water and the removed solids are separated in the filter / recovery module and the solids are collected in a “Big bag” for disposal.

The pre-treated used water can either be released onto the dock floor using the waste water pump, or collected in vessels or tanks via a hose.

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