



Self Propelled Backhoe Dredger 'Pat M'

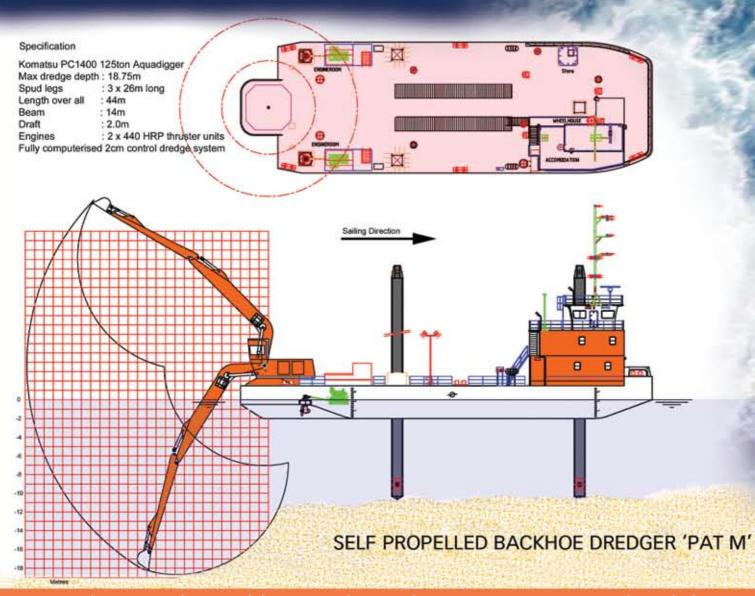
BV CLASSED I 3/3 COASTAL · PC 1400 AQUADIGGER · MONTABERT VSS SHD HAMMER

Self Propelled Backhoe Dredger, PAT-M

When you charter the 'Pat M' you charter a self propelled Backhoe Dredger built to Humber Work Boats specification by Shipyard De Donge in Holland in 2001. The 'Pat M' is a highly specialist backhoe type dredger. She is a Bureau Veritas classed self propelled ship and that means significant cost savings for the client as no tugs are involved either in mobilising to and from site or for moving around within the dredge area. The 'Pat M' is ideal for working in areas with close proximity to shipping movements.

She operates with highly experienced and qualified crew including qualified Master, engineer, drivers and deckhands operating well maintained robust dredging equipment, and is controlled by state of the art electronics. The new 'Dredgemaster' dredging control system includes 3D views of the seabed and generates a wealth of invaluable information for the operator and client. The Pat M has ten years of dredging activity in many countries and in different environments and carries a large stock of spares to minimise downtime.

You will Charter under clearly defined BIMCO Supply Time contracts with transparent costs and no hidden surprises as can often be the case. Reliability, flexibility and experience are not specifically mentioned in the contract but with the Pat M they make the difference so crucial to our client base.





NASSAU

A snap shot of Projects Completed

Casablanca, Morocco



I.M.T. Arzew, Algeria



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Ponta Delgada Azores
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Capital Dredge of a berthing pocket for a new inter island ferry and International Cruise Ship Terminal. Works consisted of general dredging of blasted and non blasted rock for the berth pocket approach and trenching for the jetty caisson foundations.





Cap D' Jinet, Algeria



Arzew and Mostaganem, Algeria



Jorf Laslar, Morocco

Dredging works for new multipurpose terminal including dredging the berthing pocket, levelling stone in the trench and positioning a barge for accurately dumping stone.



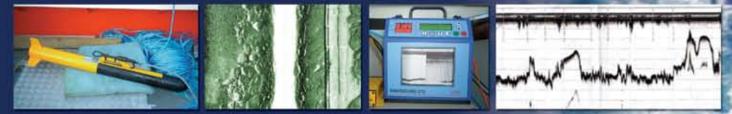


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Hydrographic Surveying Services

Bathymetry -Side Scan Sonar -Post Processing -Construction Support -

- Navigation, Construction and Environmental
- Object Detection and Condition
- Hypack Chart Preparation, Volume Reporting
- RTK GPS Positioning



HWB has a proven history of carrying out surveying services in the UK, Europe and North Africa. The surveying services client list includes harbour and port authorities, European construction companies, Utilities and other underwater asset owners. To date we have completed a range of work from small scale bathymetric surveys to full pipeline inspection, anchorage clearance reporting and positioning services for cable lay operations. We have also specified equipment to meet clients contract requirements and provide training to allow clients employees to undertake their own bathymetry.

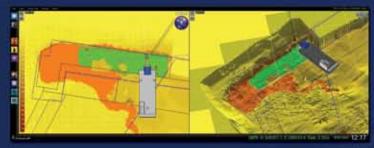


Montabert V55 SHD Hammer

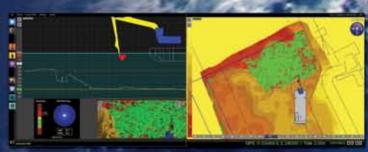
Specifications		Units	V55 SHD
Suitable for carrier (Weight)	min	t	35
	max	t	60
Operating weight		kg	3480
Height with standard tool and bracket		mm	3465
Width	top	mm	720
	bottom	mm	416
Tool diameter		mm	170
Flow	min	I/mn	240
	max	I/mn	320
Blow frequency	min	blow/mn	440
	max	blow/mn	1045
Operating pressure	max	bar	165
Relief valve pressure setting	min	bar	210
Acceptable back pressure		bar	6
Inside hose diameter	HP	mm	32
	BP	mm	36
Protection against blank firing		1.	YES
AUTOPOWER			YES
OPTIPOWER			YES
Tool lubrication			Lubrication station
Super dust			YES
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'DredgeMaster' Backhoe Software

- Multi View 3D Underwater Tool Tracking
- DXF/DWG Chart Import
- Complex XYZ Client Design Import
- XYZ Survey Data Import



Plan View Overview 3 - D Model

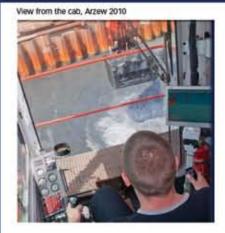


Excavator Driver Cab View



Photo Book





Arzew, Algeria 2010

200 Moroccan sunset, Jorf Lasfar 2009

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Cap D' Jinet, Algeria, 2010



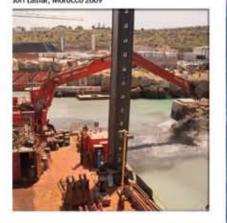


Off the Algerian Coast 2010



Jorf Lasfar, Morocco 2009

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Gran Canaria 2007





HUMBER WORK BOATS LTD

Humber Work Boats Ltd has been operating from it's facility on the South Bank of the River Humber in the UK for more than forty years. During that time they have developed an enviable reputation for quality of service on time and on budget with an ever expanding client base containing many internationally recognised businesses from Port Operators, Construction Groups, and Oil Companies to State Authorities.

HUMBER WORKBOATS

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