MARINE & OFFSHORE PROJECTS

Client	Country	Project	Type	Site & Location	Year	Scope	Surface Preparation	Estimated Areas (SF^2)	Consumption ES301 (Gal.)
Aker Floating Productions	Norway	Aker Smart 1	FPSO	Jurong Shipyard (Singapore)	2007-2008	Vessel full areas including modules and structures	Hydroblasting Grit blasting	4,304,000	66,000
Aulac	Vietnam	Aulac Angel	Tanker	Hyundai Vinashin (Singapore)	2005	Ballast tanks, cargo tanks and hull	Grit blasting	451,900	7,920
BP	UK / USA	Thunder Horse		Offshore Gulf of Mexico	2006	Helydeck and structures	Hydroblasting	172,200	2,900
Jurong Shipyard	Singapore	Skid Truss	Support Structure	Jurong Shipyard (Singapore)	2007-2008	Maintenance of steel structure	Hydroblasting	107,600	1,720
Pemex	Mexico	Chemul	FPU	Bender Shipyard	2004	External hull, full area	Grit blasting	860,800	22,440
Petrobras	Brazil	PRA-1	FSO	Mac Laren Shipyard (Brazil)	2005	I beams and panels from module, module assembly	Grit blasting	53,800	790
Petrobras	Brazil	P-51	FPU	Brasfels (Brazil)	2005-2007	Pontoon and columns below main deck, assembly, full area	Hydroblasting Grit blasting	4,411,600	73,920
Petrobras	Brazil	P-52	FPU	Brasfels (Brazil)	2005-2006	Pontoon and columns below main deck, assembly, full area	Hydroblasting Grit blasting	107,600	1,720
Petrobras	Brazil	P-54	FPSO	Jurong Shipyard (Singapore)	2005-2006	Vessel, full area	Hydroblasting Grit blasting	6,994,000	126,720
Petrobras	Brazil	P-53	FPU	Keppel Shipyard-Tuas (Singapore)	2005-2006	Vessel, full area	Hydroblasting Grit blasting	9,684,000	198,000
Petrobras	Brazil	P-53	FPU	Estaleiro Rio Grande (Brazil)	2005-2008	Modules 01, 02, 03, 05, 06, 07,08, 09, 11, 12 and assembly	Grit blasting	2,152,000	36,960
Petrobras	Brazil	P-54	FPSO	Maua Jurong (Brazil)	2005-2006	Modules 01, 02, 03, 05, 06, 07,08, 09, 11, 12 and assembly	Grit blasting	1,076,000	15,840
Petrobras	Brazil	Mexilhao	Gas Rig	BT Engineering (Singapore)	2007-2008	Module and equipment	Grit blasting	215,200	3,960
Petrobras	Brazil	Garoupa	Flotel	Offshore Brazil	2007-2008	Full refurbishment	Hydroblasting	473,400	
Petrobras	Brazil	P-III	FSO	Maua Jurong (Brazil)	2004	External hull, full area	Hydroblasting	53,800	840
Petrobras	Brazil	P-52	FPU	Keppel Fels (Singapore)	2004-2006	Pontoon and columns below main deck, full area	Hydroblasting Grit blasting	3,766,000	58,080
Petrobras	Brazil	P-51	FPU	Keppel Fels (Singapore)	2005	Nodes from pontoon, full area	Hydroblasting Grit blasting	645,600	12,670
Petrobras	Brazil	P-34	FPSO	GDK (Brazil)	2005	General maintenance, skids from chemical modules and piping	Hydroblasting	538,000	7,920
Petrobras	Brazil	P-43	FPSO	Jurong Shipyard (Singapore)	2002	Cargo oil tanks, diesel oil tanks and double bottoms	Grit blasting	1,291,200	18,480

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Petrobras	Brazil	P-17	FSU	Brasfels (Brazil)	2002	General maintenance and conversion	Hydroblasting Grit blasting	430,400	7,390
Petrobras	Brazil	P-43	FPSO	Maua Jurong (Brazil)	2003	Modules	Grit blasting	215,200	3,700
Petrobras	Brazil	P-48	FPSO	Brasfels (Brazil)	2003	Modules, full areas	Grit blasting	5,918,000	88,440
Petrobras	Brazil	P-40	FPSO	Offshore Brazil	2003	Main deck, only primer	Hydroblasting	118,400	660
Petrobras	Brazil	P-50	FPSO	Dinamic Shipyard (USA)	2003	Modules PO2A&B and PO3A&B, equipment and piping	Grit blasting	753,200	14,520
Petrobras	Brazil	P-50	FPSO	Jurong Shipyard (Singapore)	2003-2004	Vessel, full area	Hydroblasting Grit blasting	6,994,000	118,800
Petrobras	Brazil	P-47	FPSO	Ultratec (Brazil)	2003	General maintenance inside cargo tanks	Hydroblasting Mechanical Treat	495,000	6,600
Petrobras	Brazil	P-50	FPSO	Maua Jurong (Brazil)	2003-2005	Vessel, assembly and repairs, full area	Hydroblasting	1,936,800	35,380
Portuguese Navy	Portugal	Submarines 209PN	Submarines (new building)	HDW (Germany)	2006-2008	Full areas (quantities up to June 2008 only)	Grit blasting	176,500	3,120
Queiroz Galvão	Brazil	Alaska Star	FPU	Offshore Brazil	2005	Hull, legs, underdeck	Hydroblasting	48,400	660
Queiroz Galvão	Brazil	Olinda Star	FPU	Maua Shipyard (Brazil)	2007-2008	Full areas	Hydroblasting Grit blasting	914,600	14,780
SBM	Monaco	SBM Imodico So 17480 1 e 2	Single buoys x2 (refurbishment)	Brasfels (Brazil)	2007-2008	Full refurbishment	Hydroblasting Grit blasting	226,000	4,220
Shinpetrol	Vietnam	VSP01	Tanker 22, 500 DWT (new buildings)	Cam Ranh Shipyard (Vietnam)	2007-2008	Full areas	Grit blasting	1,183,600	18,480
Teco	Norway	Iran Noah, Iran Nabi, Iran Noor, Iran Nessa, Iran Najm	Five VLCC Tankers	Seagoing	Since 2003	Ballast tanks	Wet Grit blasting Hydroblasting	5,380,000	92,400
Tesma	Indonesia	Brotojoyo	FPSO	Sembawang Shipyard (Singapore)	2006	Ballast tanks, pump room and fore peak tank	Hydroblasting	150,600	1,980
Transocean	USA	Discover 534	Drill Ship	Sembawang Shipyard (Singapore)	2006	Maintenance of the entire ship	Hydroblasting	269,000	4,490
Transocean	USA	Discover Seven Seas	Drill Ship	Sembawang Shipyard (Singapore)	2007-2008	Ballast tanks	Hydroblasting	215,200	2,640
Transocean	USA	Nordic	Jack-Up Rig	Johor Shipyard (Singapore)	2007-2008	Ballast tanks	Hydroblasting	322,800	5,020
Transocean	USA	Harvey Ward	Oil Rig	Sembawang Shipyard (Singapore)	2002	Drill water tanks	Hydroblasting Grit blasting	139,900	1,850

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Transpetro	Brazil	M/V Bicas	Tanker	Sembawang Shipyard (Singapore)	2005	Ballast tanks	Hydroblasting	484,200	8,180
Transpetro	Brazil	M/V Brotas	Tanker	Sembawang Shipyard (Singapore)	2005	Ballast tanks	Hydroblasting	484,200	7,660
Transpetro	Brazil	N/T Carioca	Tanker	(Argentina)	2006	Cargo tanks	Hydroblasting	46,300	690
Transpetro	Brazil	N/T Poti	Tanker	ASRY (Bahrain)	2006	Ballast tanks	Grit blasting	86,100	1,140
Transpetro	Brazil	N/T Pirajuí	Tanker	ASRY (Bahrain)	2007	Ballast tanks	Grit blasting	123,700	1,550
Transpetro	Brazil	N/T Pedreiras	Tanker	ASRY (Bahrain)	2008	Ballast tanks	Grit blasting	91,500	1,150
Transpetro	Brazil	N/T Bicas	Tanker	ASRY (Bahrain)	2008	Ballast tanks	Grit blasting	75,300	930
Transpetro	Brazil	N/T Pirajuí	Tanker	Selmetal Shipyard	2004	Ballast tanks	Hydroblasting	53,800	580
Transpetro	Brazil	O/O Mafra	Tanker (repair)	Dubai Dry Docks, UAE	2000	Ballast tanks	Grit blasting	134,500	1,930
Transpetro	Brazil	N/T Norma	Tanker	Renavy (Brazil)	2001	Cargo tanks	Hydroblasting	38,700	580
Transpetro	Brazil	O/O Mafra	Tanker	ASRY (Bahrain)	2001	Ballast tanks	Grit blasting	86,100	1,400
Transpetro	Brazil	Ataulfo Alves	Tanker	Sembawang Shipyard (Singapore)	2002	Cargo oil tank bottoms	Hydroblasting	118,400	1,410
Transpetro	Brazil	Cartola	Tanker	Sembawang Shipyard (Singapore)	2002	Cargo oil tank bottoms	Hydroblasting	118,400	1,370
U.S. Navy	USA	USS Belleau Wood	Aircraft Carrier (repair)	Sasebo, Japan	2000	Ballast tanks	Hydroblasting	undisclosed	undisclosed
U.S. Navy	USA	USS Detroit	Support Ship (repair)	NWS, USA	2000	Bilges	Hydroblasting	undisclosed	undisclosed
U.S. Navy & U.S. Coast Guard	USA	All applications	Several types	Mostly USA, Japan, Middle East	1994-2008	Mostly tanks and bilges	Hydroblasting, abrasive, power tooling	3,228,000	47,520