

PIPE LAY EQUIPMENT

Summary of major projects

Year	Project Description	Vessel name/project	Client
2017	4 off 8,625" ILUC for DJ c/w control box	DVC Balder	Heerema Marine Constructor
2017	1 off floating Wave Energy converter Unit c/w Control System, mooring system and Photovoltaic System	Renewables	Eni S.p.A
2017	2 off HYDRONE TMS winches for subsea remotely operated vehicle (ROV) c/w control system	subsea	Saipem S.p.A
2017	2 off Special compact 24"-30" ILUC for J-lay c/w control system	FDS	Saipem Portugal
2017	1 off 35T Storage Winch 4000m off 124mm rope capacity, c/w level winder and control system	SK1200	Sapura Energy
2017	Pipe Handling system Upgrade c/w replacement of the Control system	DB32	McDermott Middle east
2017	1 off Double ILUC Umbilical Winch system with 10T ILUC rope winch	5000T DCV	Yantai Salvage
2017	1 off 35T Storage Winch 4000m off 124mm rope capacity, c/w level winder and control system	SK1200	Sapura energy
2017	Powered roller system and Spinner rotators system for On shore DJ fabrication c/w control system	Onshore fabrication	Jay Ray McDermott far East Inc.
2017	8 off Anchor winch brakes	SEABULL 2	Perenco Oil and Gas Gabon
2017	1 off 20T A&R winch c/w control system	SEABULL 2	Perenco Oil and Gas Gabon



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2017	1 off Portable 25T Tensioner c/w tilting frame and integral EPU/HPU	SEABULL 2	Perenco Oil and Gas Gabon
2017	2 off Special compact 12"-16" ILUC for J-lay	FDS2	Saipem Portugal
2017	2 off ILUC 20"-24" Hi-Force c/w reach rod. 2 off ILUC 24"-28" c/w reach rod.	Onshore pipeline	Technimont S.p.A- Abu Dhabi branch
2016	Well Intervention Umbilical handling system composed by 10T Umbilical Winch, HPU unit and over-boarding chute according to DNV 2.7-3 Standard for Certification of Portable Offshore Units	-portable unit-	Saipem S.P.A.
2016	Smart Rollers for Firing line	CastorOne	Saipem Offshore Norway AS
2016	Special extra compact 14" ILUC for J-lay	-portable unit for J-lay vessel	Saipem Portugal
2016	150T Vertical Lay System (VLS) composed by 2 off 75T - 4 Track tensioners , Extendable Working Platform, HOC clamp/Tulip Bellmouth, Initiation Sheave, 2 off 20T SWL Hoists, Centralizer/wire guide, A/R system, Top aligner, Effer Cranes support, Lighting system, DNV 2.7-1 certified EPU and HPU shelters	LV108	Mc Dermott



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2016	1 off 400T Reel Drive System composed by movable/adjustable under load RDS, rails equipped transversal jacking system, DNV 2.7-1 certified EPU and HPU containers	-portable unit-	Mc Dermott Inc.
2016	ILUC Umbilical for FL	DLV2000	Mc Dermott
2016	2 off ILUC 10"-12" heavy-duty for S-lay and DJ welding process 2 off ILUC 8" heavy-duty for S-lay and DJ welding process 2 off ILUC 6" heavy-duty for S-lay and DJ welding process c/w umbilical's and control system	/	NPCC
2015	Pipe Handling System, FL and Stinger Rollers (50 machines) c/w wiring/piping distribution skids for onboard quick connection. EPU shelter with A/C unit, Compressors Shelter with Air tanks for Pipe handling system and ILUC management	ERSAI 1	ERSAI CASPIAN CONTRACTOR
2015	2 off ILUC 14"-16" S-LAY	/	NPCC
2015	New MAIN CRANE 90T AHC Winch c/w active heave compensator and HPU+EPU shelters	DBA	SAIPEM CONTRACTING NETHERLAND
2015	1 off 22T - 4 track Pipe Tensioner c/w skid and HPU certified design by Lloyd's Register	portable unit	AIRBORNE Oil&Gas



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2015	Subsea MISP modification system 32"	South Stream	SAIPEM S.P.A.
2015	Subsea SIRCOS connection system 32"	South Stream	SAIPEM S.P.A.
2015	Deck stand for storage of Subsea flanges and clamp	South Stream	SAIPEM S.P.A.
2015	Subsea Repair Clamp module 32"	South Stream	SAIPEM S.P.A.
2015	1 off 60T Pipe tensioner c/w EPU Shelter with A/C unit, Bank resistor, Compressors Shelter with Air tanks for Tensioner and A&R winch air system management	ERSAI 1	ERSAI CASPIAN CONTRACTOR
2015	1 off 60T A&R winch. EPU shelter with A/C unit	ERSAI 1	ERSAI CASPIAN CONTRACTOR
2014	Subsea Pipe repair 32" Clamp	South Stream	SAIPEM S.P.A.
2014	1 off 500T Over boarding Flag sheave, 1 off 500T diverter sheave and stairs/platform assembly	DLV2000	HYDRO MARINE SERVICES INC. (McDermott)
2014	DEH Handling Equipment, DEH Cable Ways Integrated System including 2 off 5T Tensioners	PLBH	SAIPEM NETHERLAND
2014	2 off ILUC 18"-20" heavy duty for S-Lay, self-propelled, c/w copper shoes and remote control desk	/	NPCC
2014	1 off ILUC 8" J-LAY	PRE SALT PROJECT	SAIPEM S.P.A.
2014	Replacement of existing FL line-up system with a new LINE-UP system c/w walk around box control	G1200	Technip Uk

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Year	Project Description	Vessel name/project	Client
2014	Double Spinning Roller systems for 3rd SAW stations	Castoro 6	Saipem Bulgaria
2014	3 off 250T Pipe Tensioners Integrated Tensioning system for J-Lay/S-lay tower	Saipem 7000	SAIPEM PORTUGAL
2014	4 off 175T Pipe Tensioners Integrated Tensioning system	JSD 6000	PETROFAC INTERNATIONAL LLC
2014	SJ-DJ-QJ Pipe Handling fabrication System (200 machines) for A-deck (Pipe Elevators, Walking Beams, Rollers) and FL. System includes the Control and WS Safety System and Automatic Pipe Flow Management.	JSD 6000	PETROFAC INTERNATIONAL LLC
2014	New Loader, Elevator and back Tension Winches integrated system for J-Lay tower	Saipem 7000	SAIPEM PORTUGAL
2014	4 off 125T Pipe Tensioners - Upgrading	G1200	TECHNIP
2014	J lay Tower welding carousel and control system upgrade	Saipem 7000	SAIPEM PORTUGAL
2014	2 off 50T Retractable Vertical Rollers for Firing Line splash area with dedicated HPU	DLV2000	HYDRO MARINE SERVICES INC.
2014	Upgrading of Pipe Handling System at bead stall area	PIPER	LOCAR BRASIL
2013	Upgrade of Line-Up area of Pipe Handling system	FDS2	SAIPEM PORTUGAL
2013	Umbilical Winding system	Castoro 7	SAIPEM PORTUGAL



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	for Line-Up Clamp		
2013	2 off 75T Pipe Tensioners Integrated Tensioning system	DLB GUARAV	ESSAR OFFSHORE
2013	1 off 180T A&R Winch Integrated Tensioning system	DLB GUARAV	ESSAR OFFSHORE
2013	Complete Pipe Handling System with Firing Line equipment	DLB GUARAV	ESSAR OFFSHORE
2013	6 off 60T Pipe Davits	DLB GUARAV	ESSAR OFFSHORE
2013	3 off 150T Pipe Tensioners Integrated Tensioning system	DLV2000	McDermott
2013	1 off 500T Traction Winch, 1 off 40T Storage winch Integrated Tensioning system with Instrumented, Corner and Movable Sheaves	DLV2000	McDermott
2013	1 off 250T Traction Winch, 1 off 20T Storage Winch with 90° Level winder Integrated Tensioning system with Instrumented, Corner and Movable Sheaves	DLV2000	McDermott
2013	SJ-DJ Pipe Handling System (96 machines) for A deck (Pipe Elevators, Walking Beams, Rollers) and FL with Control and Working stations Safety System and Automatic Pipe Flow Management	DLV2000	McDermott



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Year	Project Description	Vessel name/project	Client
2013	Double ILUC Umbilical Winch system with 10T ILUC rope winch	DLV2000	McDermott
2013	3 off 100T Pipe Tensioners Integrated Tensioning system	KAIZEN 4000	SWIBER
2013	1 off 300T A&R Winch Integrated Tensioning system	KAIZEN 4000	SWIBER
2013	Complete Pipe Handling System with Firing Line equipment and Stinger Rollers	KAIZEN 4000	SWIBER
2013	Bead stall area Upgrade with 6 off Spinning rollers system.	DLV2000	McDermott
2013	1 off 600T Pop-Up sheave for the over boarding operation.	DLV2000	McDermott
2012	Additional Horizontal 9A Roller for Stinger ramps	CastorONE	SAIPEM PORTUGAL
2012	Supply of various ILUC for J-lay, S-lay for different pipe OD range.	/	SAIPEM PORTUGAL
2012	2 off Boom Extension Installation and Handling Tools for SHS	CastorONE	SAIPEM PORTUGAL
2012	Design of 1 off CLA Clamp, 1 off Transfer Arm and 1 off TC2 Clamp for J-Lay tower	CastorONE	SAIPEM PORTUGAL
2012	2 off 90T Pipe Tensioners 4 track for Flexible Lay system - Refurbishment	FDS1	SAIPEM SA
2011	1 off 10T Pipe Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	KIZOMBA SATELLITEPROJECT	SAIPEM SA



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2011	1 off ILUC 24"-26" and 5 off ILUC 30"-36" for S-lay process.	/	ALLSEAS
2011	1 off 10T Pipe Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	/	MICOPERI
2011	2 off ILUC 24"-26" for S-lay	Solitaire	ALLSEAS
2011	Stinger handling system for the Internal and External Ramps, completed with HPU and EPU shelters and A/C Unit	CastorONE	SAIPEM PORTUGAL
2011	3 off 68T Pipe Tensioners Integrated System	HD 423	HYUNDAI HEAVY INDUSTRIES
2011	Integration to existing hydraulic drive A&R Winch control system	HD 423	HYUNDAI HEAVY INDUSTRIES
2011	Integrated system composed by 13 off Horizontal Rollers, 2 off Vertical Stinger Rollers, 1 off End Roller for Internal and External ramps	CastorONE	SAIPEM PORTUGAL
2011	2 off 60T Pipe Tensioners with Control System	PIPER	LOCAR BRASIL
2011	1 off 120T A&R Winch with Control System	PIPER	LOCAR BRASIL
2011	Complete Pipe Handling System with Firing Line equipment	PIPER	LOCAR BRASIL
2011	1 off 60T Pipe Tensioner, single lift and stand-alone Integrated system composed by Tensioner and EPU container with A/C chiller Unit.	H1450	OU ABM TRADE



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2011	Supply of various ILUC for J-lay, S-lay for different pipe OD range.	/	SAIPEM PORTUGAL
2011	7100T Main Crane conversion: design, engineering, fabrication and installation of new control system Cranes.	THIALF	Heerema Marine Constructor
2011	Pipe Handling System for 5 off DJ production lines (625 machines) for A-deck and Firing Line including movable working station system, Pipe Elevators and SAW machine movable Supports. Integrated with Control and Working stations Safety System and Automatic Pipe Flow Management	PIETER SCHELTE	ALLSEAS
2011	Integrated and modular SJ-DJ-QJ Pipe Handling System (275 machines), 1 off 40T Gantry Crane, Skid for Working station for Welding and Beveling, Bridge Skid with E-room shelter (400T structure). Integrated with Control and Working stations Safety System and Automatic Pipe Flow Management	AEGIR	Heerema Marine Constructor
2011	4 off 130T Pipe Tensioners c/w Control System	N448	TL OFFSHORE
2011	1 off 500T Traction Winch, 1 off 150T A&R Winch, 1 off 40T Storage winch and Sheaves c/w control system.	N448	TL OFFSHORE

Year	Project Description	Vessel name/project	Client
2011	3 off 130T Pipe Tensioners c/w control System	N449	TL OFFSHORE
2011	1 off 400T Traction Winch, 1 off 150T A&R Winch, 1 off 30T Storage winch and Sheaves, c/w control System	N449	TL OFFSHORE
2011	1 off 250T Vertical Traction Winch, 1 off 150T A&R Winch, 1 off 30T Storage winch with 90° Level winder, Mobile Instrumented sheave, c/w control System	DB30	McDermott
2010	Subsea Hydraulic Forging Tool 24"	Med Gaz	Saipem Energy Service S.P.A
2010	Subsea Connector 20"	Med Gaz	Saipem Energy Service S.P.A
2010	Quadruple Joints production line System (130 machines) integrated with Control and Working stations Safety System	FDS2	SAIPEM PORTUGAL
2010	1 off 60T Pipe Tensioner 4 tracks with containerized control system	/	SAIPEM UK
2010	2 off 100T Pipe Tensioners c/w control System	SEMINOLE	MICOPERI
2010	1 off 200T A&R Winch c/w control System	SEMINOLE	MICOPERI
2010	Complete Pipe Handling System with Firing Line and Stinger Rollers	SEMINOLE	MICOPERI
2010	1 off 5T Pipe Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	CASPIAN SPIDER	SES



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2010	Overhead Welding Carousel for J-lay tower	FDS2	SAIPEM PORTUGAL
2010	1 off 125T Pipe Tensioners with control system upgrade to existing 4 off Pipe Tensioner units	G1201	GLOBAL INDUSTRIES
2010	3 off 130T Pipe Tensioners Integrated Tensioning system	SEMAC 1	SAIPEM PORTUGAL
2009	Subsea Connector 20"	Med Gaz	Saipem Energy Service S.P.A
2009	2 off 100T Pipe Tensioners Integrated Tensioning system	HONGKONG 3	ZPMC
2009	1 off 200 T A&R Winch Integrated Tensioning system	HONGKONG 3	ZPMC
2009	2 off 100T Pipe Tensioners Integrated Tensioning system	HONGKONG 4	ZPMC
2009	1 off 200 T A&R Winch Integrated Tensioning system	HONGKONG 4	ZPMC
2009	2 off 125T Pipe Tensioners Integrated Tensioning system	Db27	McDermott
2009	1 off 250T A&R Winch Integrated Tensioning system	Db27	McDermott
2009	3 off Stern Pipe Track Support for Firing Line	Db27	McDermott
2009	2 off ILUC with Inspection Trolley equipped with Inspection Camera and Internal welding measuring system (for Spool base)		Subsea 7
2009	2 off 130T Pipe Tensioners Integrated Tensioning system	Castoro 6	SAIPEM PORTUGAL

Year	Project Description	Vessel name/project	Client
2009	5 off ILUC 42"-48" for Nord stream project	Castoro 6 - Castoro 10	SAIPEM PORTUGAL
2009	Upgrade of Stinger Handling System for Internal and External ramp up to 1500 T	Castoro 6	SAIPEM PORTUGAL
2008	Subsea Spool Piece 24"	Med Gaz	Saipem Energy Service S.P.A
2008	Subsea Clamp 24"	Med Gaz	Saipem Energy Service S.P.A
2008	3 off 250T Pipe Tensioners	CastorONE	SAIPEM PORTUGAL
2008	1 off 750T Integrated Control System for A&R Winch	CastorONE	SAIPEM PORTUGAL
2008	ILUC for S-lay and J-Lay (various sizes)	/	SAIPEM PORTUGAL
2008	1 off 90T Pipe Tensioner	Cheyenne	GLOBAL INDUSTRIES
2008	3 off 125T Pipe Tensioners c/w control System	G1200	GLOBAL INDUSTRIES
2008	1 off 60T four-tracks Pipe Tensioner c/w control System	Challenger	GLOBAL INDUSTRIES
2008	1 off 75T A&R Winch c/w control System	Challenger	GLOBAL INDUSTRIES
2008	1 off 350T Reel Drives system with rails equipped with under load vertical and transversal jacking system	Challenger	GLOBAL INDUSTRIES
2008	2 off 60T Pipe Tensioners c/w control System	Lb32	McDermott
2008	1 off 120T A&R Winch c/w control System	Lb32	McDermott
2008	2 off 90T Pipe Tensioners c/w control System DNV certified	ARMADA INSTALLER	BUMI ARMADA

Year	Project Description	Vessel name/project	Client
2008	1 off 180T A&R Winch with c/w control System (DNV certified)	ARMADA INSTALLER	BUMI ARMADA
2008	2 off 90T Pipe Tensioners with Containerized Control System	FDS1	SAIPEM SA
2008	2 off 90T Pipe Tensioners c/w control System (RINA certified)	Castoro 10	SAIPEM PORTUGAL
2008	1 off 200T A&R Winch c/w control System (RINA certified)	Castoro 10	SAIPEM PORTUGAL
2008	3 off 125T Pipe Tensioners c/w control System	G1201	GLOBAL INDUSTRIES
2008	2 off 100T Pipe Tensioners c/w control System	HONGKONG 1	ZPMC
2008	1 off 200T A&R Winch c/w control System	HONGKONG 1	ZPMC
2008	2 off 100T Pipe Tensioners c/w control System	HONGKONG 2	ZPMC
2008	1 off 200T A&R Winch c/w control System	HONGKONG 2	ZPMC
2008	Control and Drives System for Skagit Winches	Castoro 8	SAIPEM ITALY
2007	3 off 80T Pipe Tensioners c/w control System	Div. 4400	ZPMC
2007	1 off 240T A&R Winch c/w control System	Div. 4400	ZPMC
2007	Pipe Handling system for beveling area with 2 off 40T Pipe Elevators	SEMAC 1	SAIPEM ITALY
2007	3 off 90T Pipe Tensioners c/w control System System	Castoro 8	SAIPEM ITALY
2007	Control and Drives System for Main Cranes 7000+7000T Lifting Capacity	Saipem 7000	SAIPEM ITALY

Year	Project Description	Vessel name/project	Client
2007	3 off 125T Pipe Tensioners c/w control System	Goliath I	OCEANOGRAFIA
2007	1 off 300T A&R Winch c/w control System	Goliath I	OCEANOGRAFIA
2007	Complete Pipe Handling System for DJ fabrication and Firing Line	Goliath I	OCEANOGRAFIA
2007	Complete Pipe Handling System for DJ fabrication, Firing Line and Stinger Rollers	Div. 4400	ZPMC
2007	2 off 60T Pipe Tensioners c/w control System	Java Constructor	CLOUGH
2007	1 off 120T A&R Winch with c/w control System	Java Constructor	CLOUGH
2006	2 off 125T Pipe Tensioners c/w control System	DB 750	NPCC
2006	1 off 250T A&R Winch A/C c/w control System	DB 750	NPCC
2006	Complete pipe handling system and Firing line equipment	DB 750	NPCC
2006	New control system for 8 off Skagit Winches	Castoro 8	SAIPEM INDONESIA
2006	New Firing Line Equipment System	FDS1	SAIPEM SA
2006	1 off 90T four-tracks Pipe Tensioner for J-Lay c/w control System	Normand Cutter	Sonsub UK
2006	2 off 125T Pipe Tensioners c/w control System	DB30	McDermott
2006	1 off 60T Pipe Tensioner c/w control System	Gabarra	Z&P (Venezuela)
2005	2500T Crane: Control and Drives upgrade, hook replacement, winches and submergible swivel hook supply	Derrick Barge Azerbaijan	SAIPEM Azerbaijan

Year	Project Description	Vessel name/project	Client
2005	2 off 60T Pipe Tensioner c/w control System	DLB 332	GLOBAL INDUSTRIES
2005	1 off 120T A&R winch with c/w control System	DLB 332	GLOBAL INDUSTRIES
2005	1 off 60T Pipe Tensioner c/w control System	Mahesh	PUNJ LLOYD
2005	1 off 60T A&R Winch with c/w control System	Mahesh	PUNJ LLOYD
2005	New DC drives unit for Barge main Crane	DB 750	NPCC
2004	2 off 75T Pipe Tensioner c/w control System	PLBG136	SADRA
2004	1 off 180T A&R winch c/w control System	PLBG136	SADRA
2004	2 off Umbilical Winches	PLBG136	SADRA
2004	Tensioner Control System Upgrade	Castoro 8	SAIPEM ITALY
2004	A&R Winch Control System Upgrade	Castoro 8	SAIPEM ITALY
2004	1 off 60T Pipe Tensioner c/w control System	DB30	MICOPERI
2004	4 off 50T Pipe Davits	Akademik Tofik Ismayilov	McDermott
2004	1 off Launch and Recovery System (LARS) for Divers	Akademik Tofik Ismayilov	McDermott
2004	Pipe Handling System	SB270	SAIBOS
2004	Stinger Jacking System Upgrade	Israfil Huseynov	McDermott
2004	1 off Stinger Winch	Israfil Huseynov	McDermott
2004	Tensioner Control System Upgrade	Castoro 6	SAIPEM ITALY
2004	A&R Winch Control System Upgrade	Castoro 6	SAIPEM ITALY
2004	2 off 140T Pipe Track supports	Castoro 6	SAIPEM ITALY
2004	2 off 50T Pipe Elevator upgrade	Castoro 6	SAIPEM ITALY



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2004	Cranes electrical upgrading including new load measuring system	Castoro 6	SAIPEM ITALY
2004	Internal Line Up Clamps with a new generation Inspection camera System	Castoro 6	SAIPEM ITALY
2003	Subsea Interface MISP Spool- piece 32"	Green Stream	Saipem FPSO S.P.A
2003	Subsea Diverless Repair clamp 32"	Green Stream	Saipem Limited
2003	Subsea Hydraulic Forging Tool 32"	Green Stream	Saipem Limited
2003	1 off 40T Pipe Tensioner - c/w control System	SEMAC 1	SAIPEM ITALY
2003	1 off 40T A&R Winch c/w control System	SEMAC 1	SAIPEM ITALY
2003	Load, Speed and footage measuring system for Anchor Winches	Abouzar 1200	IOEC
2003	4 off ILUCs Radio controlled	Balder	Heerema Marine Constructor
2003	Pipe Handling Equipment system Upgrade	Israfil Huseynov	McDermott
2003	Inert material handling system	Castoro 6	SAIPEM ITALY
2003	Subsea Pipe Recovery Head	Blue Stream	SONSUB-ENI
2002	Subsea Spool Piece 24" Upgrade of ARCOS System	Blue Stream	SONSUB-ENI
2002	23 off ILUCs radio controlled from 8" to 28" for J-Lay and Double joint	Balder	Heerema Marine Constructor
2002	4 off Pennant Wire Winches - Modification	Castoro 6	SAIPEM ITALY
2002	New umbilical System for ILUC	SEMAC 1	SAIPEM ITALY



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2002	Stinger Internal ramp handling system with HPU	Castoro 6	SAIPEM ITALY
2002	2 off ILUC 30"-32"		NPCC
2002	2 off 90T Pipe Tensioner c/w control System	Israfil Huseynov	McDermott
2002	1 off 180T A&R winch with c/w control System	Israfil Huseynov	McDermott
2001	Subsea Insertion Tool 24"	Blue Stream	SONSUB-ENI
2001	PRH Insertion Tool and Pipe Recovery Head	Blue Stream	SONSUB
2001	2 off 25T Pipe Tensioners c/w control System	Pecos Horizon	HORIZON OFFSHORE
2001	1 off 50T A&R Winch c/w control System	Pecos Horizon	HORIZON OFFSHORE
2001	Line-up system and Firing Line rollers	Pecos Horizon	HORIZON OFFSHORE
2001	4 off Internal line up clamps from 12" to 16" for J-Lay and Double joint	FDS1	SAIBOS
2001	Overhead welding carousel for J-lay tower	Saipem 7000	SAIPEM ITALY
2001	2 off 80T Pipe Tensioners c/w control System	Abouzar	IOEC
2001	1 off 180T A&R Winch c/w control System	Abouzar	IOEC
2001	Firing Line Ramp track supports	Abouzar	IOEC
2001	1 off 24" 60T Anode clamp	Saipem 7000	SAIPEM FRANCE
2000	1 off 25T Pipe tensioner c/w control System	Saibos 230	SAIBOS
2000	1 off 50T A&R Winch c/w control System	Saibos 230	SAIBOS
2000	Line-up system and Firing Line rollers	Saibos 230	SAIBOS
2000	1 off 40T Pipe Tensioner	Gulf Horizon	HORIZON OFFSHORE
2000	Internal Line Up Clamps for J-Lay tower (various	Saipem 7000	SAIPEM ITALY



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	sizes)		
2000	2 off 90T four-tracks Pipe Tensioners c/w control System	FDS1	SAIBOS
2000	Overhead welding carousel for J-lay tower	FDS1	SAIBOS
1999	Pipe handling system for Firing line	FDS1	SAIBOS
1999	2 off 40T Pipe Tensioners c/w control System	Lone Star	HORIZON OFFSHORE
1999	Internal Line Up Clamps for DJ plant for S-lay (various sizes 6"-48")	/	SAIPEM ITALY
1998	Subsea SIRCOS 20"-26"	TRANSMED pipeline	SNAMPROGETTI-ENI
1998	Subsea Spool Piece 20"-26"	TRANSMED pipeline	SNAMPROGETTI-ENI
1998	Subsea Clamp 20"-26"	TRANSMED pipeline	SNAMPROGETTI-ENI
1998	2 off 25T Pipe Tensioners c/w control System	Yamashiro	Van Oord
1998	1 off 50T A&R winch c/w control System	Yamashiro	Van Oord
1998	1 off 60T Pipe Tensioner c/w control System	Java Constructor	CLOUGH
1998	1 off 60T A&R winch c/w control System	Java Constructor	CLOUGH
1998	Internal Line Up Clamps for SJ-DJ for S-lay (various sizes 6"-48")	/	SAIPEM ITALY
1998	3 off 175T pipe Tensioners for J-Lay/S-lay tower	Saipem 7000	SAIPEM ITALY
1998	DJ Nesting System	SEMAC 1	EMC UK
1997	3 off 40T Pipe Tensioners c/w control System	SEMAC 1	EMC UK
1997	1 off 120T A&R Winch c/w control System	SEMAC 1	EMC UK



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Year	Project Description	Vessel name/project	Client
1997	1 off 60T Pipe Tensioner c/w control System	Castoro 10	EMC UK
1997	1 off 100T A&R Winch c/w control System	Castoro 10	EMC UK
1996	2 off 68T Pipe Tensioners (Upgrade)	Israfil Huseynov	AIOC
1996	1 off 160T A&R Winch (Upgrade)	Israfil Huseynov	AIOC
1995	ILUCs for SJ-DJ for S-lay (various sizes 6"-48")	/	EMC UK
1994	Stinger handling system - Upgrade of the external ramp up to 1000 T capacity	Castoro 6	EMC UK
1994	2 off Pipe support roller and 2 off Stern Pipe Rollers support for Ramp E off tensions	Castoro 6	EMC UK
1994	Stinger handling system - Upgrade of the external booms up to 1000 T capacity	Castoro 6	EMC UK
1994	1 off 40T Pipe Tensioner	ODS Mariner	Rana
1994	2 off 40T Pipe Tensioners	/	GMC
1994	1 off 80T A&R Winch	/	GMC
1993	Upgrade of 64T Pipe Tensioners to 110 T capacity	Castoro 6	EMC UK
1993	2 off Stern Pipe Track Supports for Firing Line	Castoro 6	EMC UK
1993	Internal Line Up Clamps for S-lay (various sizes 6"-48")	/	EMC UK
1992	2 off 30T Pipe Tensioners c/w Control System	CASTORO 10	EMC UK



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PIPE LAY EQUIPMENT

Summary of major projects

Year	Project Description	Vessel name/project	Client
1990	Modification of 3 off 68T pipe tensioners manufactured by Western Gear (conversion from hydraulic to electric)	SEMAC 1	EMC UK
1990	Modification of one A&R winch manufactured by Western Gear (conversion from hydraulic to electric)	SEMAC 1	EMC UK
1990	Internal Line Up Clamps for DJ plant for S-lay (various sizes 6"-48")	/	EMC UK
1985	2 off 68T Pipe Tensioners	Israfil Huseynov	Rauma Repola
1975	Ramp rollers	Castoro 6	SAIPEM ITALY
1975	2 off 45T Pipe Tensioners	/	SAIPEM ITALY
1974	3 off 60T Pipe Tensioners	Castoro 6	SAIPEM ITALY
1974	Line-up station and pipe Handling Equipment for DJ plant	Castoro 6	SAIPEM ITALY
1974	2 off Pipe lifting system	Castoro 6	SAIPEM ITALY
1974	Stinger handling system - Internal ramp system	Castoro 6	SAIPEM ITALY