



LAY SYSTEMS

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Year	Project Description	Vessel name	Client
2022	Cable Lay Integrated Control System	Ariadne	Asso Subsea
2021	Integrated Cable Lay System (Stern Chutes, Highways, Loading Arms, Cps Handling, Tensioners, Winches; Quadrant, Quadrant Overboarding Frame	Ariadne	Asso Subsea
2021	1 off 20T Cable Tensioner 2 track completed with HPU and Integrated Control system	Vessel of Opportunity	Consolidated Contractors Company SAL (CCC)
2021	1 off 13T Cable Tensioner 2 track completed with HPU and Integrated Control system	Vessel of Opportunity	NPCC
2021	Upgrade of Top module system for existing JLAY tower	LVNO105	McDermott Inc.
2021	Upgrade of TBWS System for existing JLAY tower	LVNO105	McDermott Inc.
2020	Subsea Cable Tensioner	Vessel of Opportunity	Alcatel Submarine Networks
2020	1 off 7.5 T Cable Tensioner (Vertical)	Factory Unit - South Carolina, USA	Nexans
2020	5600T Storage Reel, 1600T Storage Reel, Primary, Secondary and Tertiary Spooling Gantries	SEVEN VEGA	IHC/SUBSEA 7

LAY EQUIPMENT

Summary of major projects

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Year	Project Description	Vessel name	Client
2018	4000T cable carousel including Loading Tower, Loading Arm & 20T Spooling Tensioner	Vessel of Opportunity	LS CABLES
2016	Well Intervention System composed by 10T Air Umbilical Winch, HPU unit and over-boarding chute according to DNV 2.7-3 Standard	-portable unit-	SAIPEM S.P.A.
2016	1 off 400T Reel Drive System composed by movable under load RDS, rails equipped transversal jacking system, Integrated control system	-portable unit-	McDermott Inc.
2016	150T Vertical Lay System (VLS) composed by 2x75T - 4 Track tensioners, Extendable Working Platform, HOC clamp/Tulip Bellmouth, Initiation Sheave, 2x20T SWL Hoists, Centralizer/wire guide, A&R system, Top aligner, Lighting system, Integrated control system	LV108	McDermott Inc.
2015	1 off 22T 4 track Tensioner c/w skid and HPU certified design by LLoyd's Register	portable unit	AIRBORNE Oil&Gas
2014	J lay Tower welding carousel and control system upgrade.	Saipem 7000	SAIPEM PORTUGAL

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2014	350T Reel Drive System	New Build Vessel	COOEC
2014	15T Cable Tensioner	Factory Unit – Hartlepool, UK	JDR
2013	90T VLS including Lay Tower, Work Platform, Tensioner, Aligner, Hold-off Clamp, Underbender-Compensator	NORMAND CLIPPER	OCEAN INSTALLER
2013	Cable handling system 1900T Carousel, Loading Tower with Loading Arm & 10T Spooling Tensioner and integrated controls	NORMAND CLIPPER	OCEAN INSTALLER
2012	25T Umbilical Tensioner	FACTORY UNIT ANGOLA	DUCO
2011	Horizontal Lay System [HLS] including Lay Ramp, 2x35Te Flex/Umbilical Pipe Tensioners, A&R Winch, A&R Sheave System, Work Platform	AKER CONNECTOR	EMAS AMC
2011	1x10T Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	KIZOMBA SATELLITE PROJECT	SAIPEM SA
2011	1x10T Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	/	MICOPERI
2010	3000T Carousel - Repair and Upgrade	Factory Unit – Newcastle, UK	DUCO
2010	25T Cable Tensioner	Factory Unit – Newcastle, UK	DUCO

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2010	200T Flexible Lay System including 200T Flex/Umbilical Tensioner, Lay Tower, Aligner	BOA DEEP C	AKER SOLUTIONS
2010	1x60T Tensioner 4 tracks with containerized control system	/	SAIPEM UK
2010	1x5T Tensioner 2 track for Flexible lay completed with HPU system on a single structure.	CASPIAN SPIDER	SES
2009	Tower Jacking System	MIDNIGHT EXPRESS	HELIX ENERGY SYSTEMS
2009	2x2800T Pipe Storage Reels	DEEP ENERGY	TECHNIP
2009	40T Vertical Pipelay System (fleeting) including Fleeting Ramp, 40T Tensioner, Hang-off Clamp	Vessel of Opportunity	CANYON
2008	Flex/Umbilical Lay System including 2000Te Reel, 20T Flex/Umbilical Tensioner, Underbender/Compensator	VOLANTIS	CTC MARINE
2008	20T Cable Tensioner	Factory Unit - Denmark	NKT
2008	4T Cable Tensioner	Dockside Unit – Rosyth, UK	OCEANEERING
2008	150T VLS Skidding Grillage	SKANDI NEPTUNE	SUBSEA 7
2008	1 off 350T Reel Drives system with rails equipped with under load vertical and transversal jacking system	Challenger	GLOBAL INDUSTRIES

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2008	1 off 350T Reel Drives system with rails equipped with under load vertical and transversal jacking system	Challenger	GLOBAL INDUSTRIES
2007	1 off 15T Pipe Tensioner	Dockside Unit	TECHNIP
2006	1 off 7.5T Cable Tensioner	Factory Unit - Norway	NEXANS
2004	1 off 5T & 1 off 7.5T CABLE TENSIONERS	Factory Unit - Norway	NEXANS
2007	FLEXIBLE REEL SYSTEM – DECK SKIDDING UNIT	MIDNIGHT EXPRESS	HELIX ENERGY SOLUTIONS
2006	1 off 1750T Pipe Storage Reel	MIDNIGHT EXPRESS	HELIX ENERGY SOLUTIONS
2006	1x60T Pipe Tensioner	Gabarra	Z&P (Venezuela)
2005	Pipelay System Upgrade from 156T to 205T	SKANDI NAVICA	CTC MARINE
2003	3 off 1000T Carousel, 4x3T Cable Tensioners, Roller Track System	Factory Unit – Freeport Texas, USA	CABETT SUBSEA
2001	300T REEL DRIVE SYSTEM 2 off 1750T REELS, 1 off 120T tensioner, straightener	BALDER	HEEREMA
2000	Line-up system and Firing Line rollers	Saibos 230	SAIBOS
1999	PLOW WINCH & TOWING WINCH	Vessel of Opportunity	GLOBAL MARINE SYSTEMS
1999	Deepwater Reel Pipelay System 1 off 7000T REEL, 2 off 275T Tensioners, Straightener	DB HERCULES	GLOBAL MARINE SYSTEMS
1999	1 off 2T SPOOLING	Dockside Unit	TECHNIP

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	TENSIONER		
1999	1 off 5T & 1 off 7.5T CABLE TENSIONERS	Vessel of Opportunity	ALCATEL
1999	3 off 5T Linear Cable engines	Vessel of Opportunity	A.T. & T
1998	1 off 350T FLEXIBLE REEL DRIVE UNIT	Vessel of Opportunity	ROCKWATER LTD
1993	PLOUGH HANDLING SYSTEM	Vessel of Opportunity	CABLE & WIRELESS
1992	PLOW HANDLING SYSTEM	CABLE VENTURE	CABLE & WIRELESS
1992	PLOW TOWING SYSTEM	Vessel of Opportunity	A.T. & T
1991	FIBRE OPTIC HANDLING SYSTEM	Vessel of Opportunity	A.T. & T
1992	POWER SHEAVE UNIT	Vessel of Opportunity	BT MARINE
1991	FIBRE OPTIC HANDLING SYSTEM	Vessel of Opportunity	BT MARINE
1991	PLOW HANDLING SYSTEM (x3)	Vessel of Opportunity	A.T. & T
1989	BOW SHEAVES	Vessel of Opportunity	A.T. & T.
1990	7000T Cable Carousel & 20T Cable Engine	GIULIO VERNE	PIRELLI/SMEB
1998	Flexible Pipe Manufacture Carousel System 3 Off 1500t Carousels, 5 Off Tensioners & Roller Track System With Compensator Bend Units	WELLSTREAM- FACTORY	M.W. KELLOGG LTD (WELLSTREAM)
1990	4 off 3.5M CAPSTAN DRUMS & FLEETING KNIVES	Vessel of Opportunity	DOWTY BOULTON PAUL

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