

Abbreviations: IAS= Integrated Automation System PMS= Power Management System PCS= Propulsion Control System 4 Stroke Engine BMS= Bridge Maneuvering System 2 Stroke Engine (Including Electronic Governor)  
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COUNTRY	SHIP TYPE	OWNER	VESSEL NAME	YARD	YEAR	SYSTEM	CLASS
The Netherlands	Multi Purpose Vessel	Wagenborg offshore	Serkeborg	Niestern Sander	2016	DP-2+Taut Wire	BV
China	10T Buoy Working Boat	Guandong Yuedong Waterway Bureau		Shantou Shipyard	2016	DP-1	CCS
China	Science Research Vessel	Shenzhen TsjingHua University			2016	DP-1	CCS
China	Research Vessel	SOA BeiHai Branch	MV Oceanic No1	Wuchang SY	2016	DP-1 + PCS	CCS
China	10T Buoy Working Boat		GS2016006	Guangzhou Salvage Bureau SY	2016	DP-1	CCS
China	10T Buoy Working Boat		GS2016005	Guangzhou Salvage Bureau SY	2016	DP-1	CCS
China	Condukt Patrolling Vessel	CNOOC Limited	H2368	CSSC Huangpu Wenchong SY	2016	DP-2	CCS
China	160m Plate Module Transport vessel	Zhejiang Hongsheng SY	HS2015002	Zhejiang Hongsheng SY	2016	DP-2 +PCS +TCS + PMS	CCS
China	160m Plate Module Transport vessel	Zhejiang Hongsheng SY	HS2015001	Zhejiang Hongsheng SY	2016	DP-2 +PCS +TCS + PMS	CCS
China	Cable Layer	Ningbo Orient Group		Zhenjiang Shipyard	2016	DP2	CCS
Germany	Luxury Motor Yacht		NB790	Nobiskrug GmbH	2016	IAS + DP1	LRS
China	Ocean Environment Monitoring vessel	SOA China South Sea Branch	C201518a	Guangxin Shipbuilding	2016	JC	CCS
China	Ocean Environment Monitoring vessel	SOA China South Sea Branch	C201517a	Guangxin Shipbuilding	2016	JC	CCS
China	Ocean Environment Monitoring vessel	SOA China South Sea Branch	C201516a	Guangxin Shipbuilding	2016	JC	CCS
China	Ocean Environment Monitoring vessel	Soa China North Sea Branch	HSZ-2015-009	Qingdao Heshun Shipyard	2016	JC + PCS (2x CPP)	CCS
China	Ocean Environment Monitoring vessel	Soa China North Sea Branch	HSZ-2015-008-4	Qingdao Heshun Shipyard	2016	JC + PCS (2x CPP)	CCS
China	Ocean Environment Monitoring vessel	Soa China North Sea Branch	HSZ-2015-008-3	Qingdao Heshun Shipyard	2016	JC + PCS (2x CPP)	CCS
China	Ocean Environment Monitoring vessel	Soa China North Sea Branch	HSZ-2015-008-2	Qingdao Heshun Shipyard	2016	JC + PCS (2x CPP)	CCS
China	Ocean Environment Monitoring vessel	Soa China North Sea Branch	HSZ-2015-008-1	Qingdao Heshun Shipyard	2016	JC + PCS (2x CPP)	CCS
China	Self Elevating wind farm installation vessel	Honghua Offshore Oil & Gas Equipment		Honghua Offshore Oil & Gas Equipment	2016	DP1	ABS
Japan	Fire Fighting Vessel		SNO N27-28	Sumidagawa Shipyard	2016	JC + PCS (2x CPP)	
China		CSSC		CSSC	2015	DP2	CCS/LRS/ABS
China	350ft Self-Elevating Accommodation Platform		DSME1502	Xiamen Shipbuilding Industry	2015	DP1	DNV
China	350ft Self-Elevating Accommodation Platform		DSME1501	Xiamen Shipbuilding Industry	2015	DP1	DNV
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	1204	Nevsky Shipyard	2015	DP2 + IAS	RMRS (ice class)
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	1203	Nevsky Shipyard	2015	DP2 + IAS	RMRS (ice class)
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	1202	Nevsky Shipyard	2015	DP2 + IAS	RMRS (ice class)
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	1201	Nevsky Shipyard	2015	DP2 + IAS	RMRS (ice class)
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1087	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1086	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1085	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1084	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1083	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	6500HP Oilfield Guard and Supply Vessel	COSL	ZPMC1082	Shanghai Zhenhua Heavy Industry	2015	JC + PCS (2x CPP)	CCS
China	AHTS	COSL	GS15157	Guangxin Shipbuilding	2015	JC	CCS
China	AHTS	COSL	GS15156	Guangxin Shipbuilding	2015	JC	CCS
China	AHTS	COSL	GS15155	Guangxin Shipbuilding	2015	JC	CCS

## REFERENCE LIST

### Dynamic Positioning Systems

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COUNTRY	SHIP TYPE	OWNER	VESSEL NAME	YARD	YEAR	SYSTEM	CLASS
China	AHTS	COSL	GS15154	Guangxin Shipbuilding	2015	JC	CCS
Kazakhstan	Multi Purpose Deck ship	CASPIAN SERVICES GROUP	Caspian Maria		2015	DP1	BV
Poland	Cable Layer	Bohlen & Doyen GmbH		Poltramp Yard Sp. z o.o	2015	DP1	GL
The Netherlands	Fast Crew Supply Vessel		FCS5009	Damen Shipyard	2015	DP1	BV
The Netherlands	Fast Crew Supply Vessel		FCS5009	Damen Shipyard	2015	DP1	BV
The Netherlands	Fast Crew Supply Vessel		FCS5009	Damen Shipyard	2015	DP2	BV
The Netherlands	Fast Crew Supply Vessel		FCS5009	Damen Shipyard	2015	DP1	BV
China	Fishery Research Vessel	S.O.A. East China Sea Branch	SH15N007	Shen Jia Shipyard	2015	DP1	CCS
Japan	Pusher Crane Barge		KAIYOU MARU		2015	DP0	LRS
USA	Cruise Ship	Royal Caribbean Cruises Limited	Explorer of the Seas		2015	DP0	DNV
Netherlands	Diving Support Vessel	DUC International BV	SOLUTION		2015	DP2 + IAS + PMS + PCS (2x Azimuth, 2x Tunnel)	RINA
China	PSV	COSL	MW633-2	Fujian Mawei Shipbuilding	2014	DP2	CCS
China	PSV	COSL	MW633-1	Fujian Mawei Shipbuilding	2014	DP2	CCS
Spain	AHTS		C706	Astilleros Armon Vigo	2014	DP1	LRS
Japan	Fire Fighting Boat		SNO.N26-07	Sumidaqawa Shipyard	2014	JC	
Finland	Research and supply vessel	CMA CGM S.A.	Marion Dufresne		2014	DP1 + IAS	BV
The Netherlands	Simulator Trainer	KHAN Korea			2014	DP+ BMS-4 + TCS	
The Netherlands	Barge		NB 044	Gemak Gemi	2014	DP0	BV
China	Barge	Winning logistic company	VB010A	Huarundadong dockyard Co	2014	JC	
China	Barge	Winning logistic company	VB009A	Huarundadong dockyard Co	2014	JC	
China	Barge	Winning logistic company	VB008A	Huarundadong dockyard Co	2014	JC	
Spain	Standby Vessel	Graig Group	453	Astilleros Balenciaga	2014	JC	
Spain	Standby Vessel	Graig Group	452	Astilleros Balenciaga	2014	JC	
Japan	Trawler Vessel		SNO.J271	TAI CHUAN	2014	JC + BMS-4	JG
Japan	Trawler Vessel		SNO.J270	TAI CHUAN	2014	JC + BMS-4	JG
China	Pipe Layer			Tianjin Xin Gang	2013	DP2	LRS
The Netherlands	Yacht Support Vessel		QA030DAM	DAMEN	2013	DP0	LRS
The Netherlands	Yacht Support Vessel		QA029DAM	DAMEN	2013	DP0	LRS
China	Research Vessel	COSL		Siemens China	2013	DP2 + PCS	CCS
China	Science Research Vessel			Taixing Shipyard	2013	DP1	LRS
Turkey	Barge		NB17	Cimtag Shipyard	2013	DP0	BV
The Netherlands	Crew Ferry	Chevalier Floatels	Galyna	Holland Shipyards	2013	DP2	LRS
UAE	Liftboat	Levingston Offshore		Gulf Piping	2012	DP1	ABS
Spain	Research Vessel			Armon	2012	DP0	BV
UAE	Jackup				2012	JC	GL
The Netherlands	Crew Ferry	Chevalier Floatels	Gezina	Holland Shipyards	2012	DP2	LRS
China	PSV		UT708	Ri Zheo Huayong	2012	DP1	CCS
Italy	PSV		MAR122	Mariotti	2012	DP1	RINA
Italy	PSV		MAR121	Mariotti	2012	DP1	RINA
China			CA032	Fujian Huahai	2012	DP1	CCS
China	Multi Purpose Supply Vessel		4	Zhe Jiang Zhoushan Zhao Bao	2011	DP1	CCS
China	MPV		ZL679	FuJian JinHongsheng	2011	DP1	CCS
Spain	FSV		C684	Astilleros Armon S.A.	2011	DP1	BV
China	MPV	Xinghang OS		Jiujiang Yinxing	2011	DP1	CCS
China	MPV	Xinghang OS		Jiujiang Yinxing	2011	DP1	CCS
China	MPV	Xinghang OS		Jiujiang Yinxing	2011	DP1	CCS
Dubai	Cable & Pipe Layer	Solid State Industries	SSI Shella 2010	Dubai Ship Building	2011	DP2	BV
Rumania	Yacht		Albatros		2010	DP0	
China	Multi Purpose		FJHS-02	Fujian Hengsheng	2010	DP1	CCS
China	Multi Purpose		FJHS-01	Fujian Hengsheng	2010	DP1	CCS
The Netherlands	Tug		ZN0239		2010	DP0	
United Arab Emirates	Crew Boat	Caspian Marine	H115	Topaz/Nico Crafts	2010	DP1	DNV
Turkey	Exploration Vessel	Ocean Exploration Trust	Nautilus		2010	DP0	ABS
USA	Self Elevating Crane Vessel	GOS Petroleum	1015	SEMCO	2010	DP1	ABS
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	702	Nevskij Shipyard	2010	DP2 + IAS	RMRS (ice class)
Russia	Multi Purpose Salvage Vessel	Federal Budgetary institution	702	Nevskij Shipyard	2010	DP2 + IAS	RMRS (ice class)

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USA	Self Elevating Crane Vessel	GOS Petroleum			2009	DP1	ABS
UAE	Barge	Smit	Al Khatiya	Grand Weld	2009	DP1	BV
Singapore	AHTS		1375	Nakashima	2009	DP1	KR
Singapore	AHTS		1352	Nakashima	2009	DP1	KR
Singapore	AHTS		1379	Wuxue Janda Shipbuilding	2008	DP1	LRS
Singapore	AHTS		1379	Wuxue Janda Shipbuilding	2008	DP1	LRS
Portugal	Ferry	AtlanticoLine	259	Estaleiros Navais de Viana do Castelo	2008	DP1	LRS
Singapore	AHTS	Garware Offshore	Mv.Meghna	Fujian Guanhai	2008	DP1	IRS
Japan	AHTS		4969	Hin Lee Shipyard	2008	DP1	KR
Portugal	Ferry	AtlanticoLine	258	Estaleiros Navais de Viana do Castelo	2008	DP1	LRS
Singapore	AHTS		1325	Wuxue Janda Shipbuilding	2008	DP0	KR
Singapore	AHTS		1324	Wuxue Janda Shipbuilding	2008	DP0	KR
Singapore	AHTS		1323	Wuxue Janda Shipbuilding	2008	DP0	KR
Singapore	AHTS		1322	Wuxue Janda Shipbuilding	2008	DP0	KR
Japan	AHTS	Nakashima			2008	DP1	
Japan	Passenger Ferry	Orange Ferries	448	Nishi Shipyard	2007	DP0	JG
Singapore	Offshore Supply Vessel	Garware Offshore	Garware III		2007	DP1	LRS/IRS
Japan	Ferry		Orange Ferry		2006	DP0	JG
UK	Yacht		Vega	Penzance	2005	DP0	LRS
Japan	Fishery Training Vessel	Japanese Government			2005	DP0	LRS