

REFERENCES

OFFSHORE VESSELS & DREDGERS



**REFERENCES ROYAL IHC
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April 2021



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ROYAL IHC OFFSHORE VESSELS & DREDGERS

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Over the years, IHC has built a large number of Offshore vessels. This list highlights a number of recent projects, followed by a brief overview of the projects over the past 10 years for respectively Offshore vessels, custom built Hopper dredgers and custom built Cutter Suction dredgers.

Year	2021
Client	Subsea 7
Name	Seven Vega
Length / Beam	149.00 m / 33 m
Speed	13.4 kn
Scope / Relevancy	In close collaboration with Subsea 7, IHC has incorporated various innovations into the design of the Seven Vega, making it the most technologically advanced pipelay vessel to date. Thanks to the creative placement of the 3 engine rooms and the main "reel", the efficient use of the superstructure and the relatively low pipe laying tower, the ship remains compact. The clever use of space results in a large working deck. In addition, weight distribution reduces the amount of ballast water required.



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Year	2014 - 2016
Client	Sapura Navegação Marítima
Name	Sapura Rubi – YN 734 Sapura Jade - YN 732 Sapura Onyx – YN 730 Sapura Esmeralda – YN 13.001 Sapura Topazio – YN 729
Length / Beam	133.00 m – 146.00 m / 24.00 m – 30.00 m
Speed	13.6 kn – 14.7 kn
Scope / Relevancy	Between 2014 and 2016 IHC delivered five Pipelay Support Vessels to Sapura Navegação Marítima. They are fully integrated offshore vessels completely designed, engineered and built by IHC. The system comprises a single-tensioner lay tower, flexible product storage in two below-deck baskets, and support equipment for the spooling and routing of products. It includes a high capacity 340 ton abandonment and recovery (A&R) system, and a secondary lower capacity 100 ton A&R system for increased operational flexibility. A custom-designed control system integrates each aspect of the pipe-lay spread to ensure excellent performance, safety and reliability.



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Year	2014 - 2016
Client	Subsea 7
Name	Seven Cruzeiro – YN 735 Seven Sun – YN 733 Seven Rio – YN 731 Seven Waves – YN 727
Length / Beam	146.00 m / 30.00 m
Speed	13.6 kn
Scope / Relevancy	Between 2014 and 2016 IHC delivered four Pipelay Support Vessels to Subsea 7. The vessels have an overall length of 146 metres, a beam of 30 metres and a Class-2 dynamic positioning system. Designed by IHC in close collaboration with Subsea 7, each vessel is fitted with two under-deck storage carousels, with a capacity for 2,500t and 1,500t of product respectively. A vertical (tiltable) lay system with a 550t top tension capacity is permanently installed for the deployment of a range of flexible products with a diameter of 50-650mm. The lay tower can operate at up to 10° from the vertical and is fitted with two wire centralizers and with two tensioners, each with a 275t capacity, that can be retracted clear of the firing line. Each vessel has two work-class ROVs rated to 3,000 m.



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Name of ship	Seven Vega
Type	Reel-lay vessel
Owner	Subsea 7
Year of delivery	2020
Yard number	
Scope	Design / Engineering / Construction
Length over all	149.00 m
Breadth	33 m
Depth	13 m
Draught	8.30 m
Speed	13.4 kn
DP Class	3



Name of ship	Gulliver
Type	Heavylift Crane Vessel
Owner	Scaldis salvage & marine contractors NV
Year of delivery	2017
Yard number	YN-736
Scope	Design / Engineering / Construction
Length over all	108.00 m
Breadth	50.90 m
Depth	8.00 m
Draught	4.9 m
Speed	7 kn
DP Class	2



Name of ship	Seven Cruzeiro
Type	Pipelay Vessel
Owner	Subsea 7
Year of delivery	2016
Yard number	YN-735
Scope	Design / Engineering / Construction
Length over all	146.00 m
Breadth	30.00 m
Depth	13.00 m
Draught	8.5 m
Speed	13.6 kn
DP Class	2

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Name of ship	Sapura Rubi
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2016
Yard number	YN-734
Scope	Design / Engineering / Construction
Length over all	Pipelay spread / Electrical installation
Breadth	146.00 m
Depth	30.00 m
Draught	13.00 m
	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Seven Sun
Type	Pipelay Support Vessel
Owner	Subsea 7
Year of delivery	2015
Yard number	YN-733
Scope	Design / Engineering / Construction
Length over all	146.00 m
Breadth	30.00 m
Depth	13.00 m
Draught	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Sapura Jade
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2015
Yard number	YN-732
Scope	Design / Engineering / Construction
Length over all	Pipelay spread / Electrical installation
Breadth	146.00 m
Depth	30.00 m
Draught	13.00 m
	8.5 m
Speed	13.6 kn
DP Class	2

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Name of ship	Seven Rio
Type	Pipelay Support Vessel
Owner	Subsea 7
Year of delivery	2015
Yard number	YN-731
Scope	Design / Engineering / Construction
Length over all	146.00 m
Breadth	30.00 m
Depth	13.00 m
Draught	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Sapura Onyx
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2015
Yard number	YN-730
Scope	Design / Engineering / Construction
Length over all	Pipelay spread / Electrical installation
Length over all	146.00 m
Breadth	30.00 m
Depth	13.00 m
Draught	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Sapura Esmeralda
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2015
Yard number	YN-13.001
Scope	Design / Engineering / Construction
Length over all	Pipelay spread and main equipment
Length over all	133.80 m
Breadth	24.00 m
Depth	10.00 m
Draught	6.75 m
Speed	14.7 kn
DP Class	2

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Name of ship	Sapura Topazio
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2014
Yard number	YN-729
Scope	Design / Engineering / Construction
Length over all	Pipelay spread / Electrical installation
Breadth	146.00 m
Depth	30.00 m
Draught	13.00 m
	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Sapura Diamante
Type	Pipelay Support Vessel
Owner	Sapura Navegação Marítima
Year of delivery	2014
Yard number	YN-728
Scope	Design / Engineering / Construction
Length over all	Pipelay spread / Electrical installation
Breadth	146.00 m
Depth	30.00 m
Draught	13.00 m
	8.5 m
Speed	13.6 kn
DP Class	2



Name of ship	Seven Waves
Type	Pipelay Support Vessel
Owner	Subsea 7
Year of delivery	2014
Yard number	YN-727
Scope	Design / Engineering / Construction
Length over all	146.00 m
Breadth	30.00 m
Depth	13.00 m
Draught	8.5 m
Speed	13.6 kn
DP Class	2

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Name of ship	Oleg Strashnov
Type	Heavy lift crane vessel
Owner	Seaway Heavy Lifting
Year of delivery	2011
Yard number	YN-716
Scope	Engineering / Construction
Length over all	183.00 m
Breadth	47.00 m
Depth	18.20 m
Draught	13.84 m
Speed	14 kn
DP Class	3



Name of ship	Seven Pacific
Type	Flexible pipelay vessel
Owner	Subsea 7
Year of delivery	2010
Yard number	YN-719
Scope	Design / Engineering / Construction
Length over all	133.15 m
Breadth	24.00 m
Depth	10.00 m
Draught	6.75 m
Speed	14.7 kn
DP Class	2



Name of ship	Seven Atlantic
Type	Well Stimulation / Diving Support Vessel
Owner	Subsea 7
Year of delivery	2009
Yard number	YN-713
Scope	Design / Engineering / Construction
Length over all	144.85 m
Breadth	26.00 m
Depth	12.00 m
Draught	8 m
Speed	13.6 kn
DP Class	3

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Over the years, IHC has built a large number of Dredgers. The following list shows a brief overview of all Trailing Suction Hopper Dredger projects of the past ten years. All Ships were built at IHC Shipyards in the Netherlands unless another country of construction is listed.



Year of delivery	2021 (under construction)
Order number	63484
Name Ship	IMA
Owner	Cohidro, Peru
Country of construction	Brazil
Hopper capacity	500 m ³
Installed power	1550 kW
Length overall	57.20 m



Year of delivery	2020
Order number	CO 1308
Name Ship	GHASHA
Owner	NMDC, Abu Dhabi
Hopper capacity	8,000 m ³
Installed power	9,670 kW
Length overall	123.00 m



Year of delivery	2020
Order number	CO 1304
Name Ship	RIVER THAMES
Owner	DEME N.V., Belgium
Country of Construction	Indonesia
Hopper capacity	2,300 m ³
Installed power	3,600 kW
Length overall	79.95 m



Year of delivery	2020
Order number	CO 1307
Name Ship	MEUSE RIVER
Owner	DEME N.V., Belgium
Hopper capacity	8,150 m ³
Installed power	10,410 kW – Prepared for LNG
Length overall	113.00 m

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Year of delivery	2020
Order number	CO 1305 / CO 1306
Name Ship	BENGEL / DEUGNIET
Owner	DEME N.V., Belgium
Country of Construction	Indonesia
Hopper capacity	2 units 3,500 m ³ split barge
Installed power	Approx. 3,500 kW
Length overall	95.20 m



Year of delivery	2021
Order number	CO 1297
Name Ship	CHALLENGER 3
Owner	under sale
Hopper capacity	2,700 m ³ , Easydredge®
Country of Construction	Poland
Installed power	4625 kW
Length overall	81.75 m



Year of delivery	2020
Order number	CO 1296
Name Ship	MONT MANDARA
Owner	Port Authority of Douala, Cameroon
Hopper capacity	2,700 m ³ , Easydredge®
Country of Construction	Bulgaria
Installed power	4625 kW
Length overall	81.75 m



Year of delivery	2019
Order number	63438
Name Ship	BIN GANG JUN 8
Owner	BinZhou Port Group, Co., Ltd., P.R. of China
Country of Construction	China
Hopper capacity	7,200 m ³
Installed power	10,288 kW
Length overall	111.25 m



Year of delivery	2019
Order number	CO 1295
Name Ship	LESSE
Owner	Baggerbedrijf de Boer – Dutch Dredging, The Netherlands
Country of Construction	Bulgaria
Hopper capacity	2,300 m ³
Installed power	3,600 kW
Length overall	79.95 m

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Year of delivery	2018
Order number	CO 1292
Name Ship	D11-21 de JULIO
Owner	Administracion de Puertos Uruguayana, Uruguay
Country of Construction	Uruguay
Hopper capacity	4,200 m ³
Installed power	5,338 kW
Length overall	91.00 m



Year of delivery	2019
Order number	63424-1 & 2
Name Ship	HANG JUN 6008 / 6009
Owner	CHECD (Shanghai Dredging Co), P.R of China
Country of Construction	China
Hopper capacity	6,500 m ³
Installed power	9,600 kW
Length overall	108.70 m



Year of delivery	2019
Order number	CO 1288
Name Ship	BONNY RIVER
Owner	DEME N.V., Belgium
Country of Construction	China
Hopper capacity	15,000 m ³
Installed power	17,520 kW – Prepared for LNG
Length overall	158.20 m



Year of delivery	2018
Order number	CO 1291
Name Ship	MARIO OLIVA PEREZ
Owner	Obras Maritimas, Cuba
Hopper capacity	3,350 m ³ , Easydredge© 3700
Installed power	6,725 kW
Length overall	92.95 m

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Year of delivery	2018
Order number	CO 1290
Name Ship	DC ORISANT
Owner	Zandexploitatie mij. Den Herder, The Netherlands
Hopper capacity	5,450 m ³ - marine aggregates dredger
Installed power	10,778 kW
Length overall	142.50 m



Year of delivery	2018
Order number	CO 1289
Name Ship	ARZANA
Owner	NMDC, Abu Dhabi
Hopper capacity	6,000 m ³
Installed power	9,670 kW
Length overall	109.00 m



Year of delivery	2017
Order number	CO 1285 / CO 1286
Name Ship	SHANTI SAGAR - 17 / SHANTI SAGAR - 18
Owner	Mundra Port development, India
Hopper capacity	2 units 8,000 m ³ , Beagle® 8
Installed power	8,760 kW
Length overall	104.50 m



Year of delivery	2017
Order number	CO 1287
Name Ship	MAHAA JARRAFU
Owner	Maldives Transport and Trading Comp., Maldives
Country of Construction	China
Hopper capacity	3,700m ³ , Easydredge® 3700
Installed power	6,130 kW
Length overall	92.95 m



Year of delivery	2017
Order number	CO 1283
Name Ship	MINERVA
Owner	DEME N.V., Belgium
Hopper capacity	3,500m ³
Installed power	5,300 kW – LNG Dual fuel
Length overall	83.50 m

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Year of delivery	2017
Order number	CO 1282
Name Ship	SCHELDT RIVER
Owner	DEME N.V., Belgium
Hopper capacity	7,950 m ³
Installed power	10,410 kW – LNG Dual fuel
Length overall	113.00 m



Year of delivery	2017
Order number	CO 1271
Name Ship	MAGDALEN
Owner	Weeks Marine, USA
Country of Construction	USA
Hopper capacity	6,540 m ³
Installed power	10,320 kW
Length overall	106.60 m



Year of delivery	2016
Order number	CO 1275
Name Ship	JUN YANG 1
Owner	Guangzhou Dredging Company, P.R. of China
Hopper capacity	21,028 m ³
Installed power	24,400 kW
Length overall	167.50 m



Year of delivery	2016
Order number	CO 1279
Name Ship	MAHURY
Owner	Baggerbedrijf de Boer - Dutch Dredging, The Netherlands
Country of Construction	Bulgaria
Hopper capacity	1,840 m ³
Installed power	3,180 kW
Length overall	75.00 m



Year of delivery	2016
Order number	CO 1274
Name Ship	DASA 1
Owner	Dragados Argentinas SA, Argentina
Country of Construction	Bulgaria
Hopper capacity	2,700 m ³ , Easydredge© 2700
Installed power	4,450 kW
Length overall	81.75 m

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Year of delivery	2015
Order number	CO 1278
Name Ship	ILEMBE
Owner	Transnet National Port Authority, South Africa
Hopper capacity	5,500 m ³
Installed power	7,660 kW
Length overall	101.50 m



Year of delivery	2014
Order number	11010
Name Ship	ITALENI
Owner	Transnet National Ports Authority, South Africa
Country of Construction	Bulgaria
Hopper capacity	750 m ³ with grab
Installed power	3,203 kW
Length overall	62.00 m



Year of delivery	2014
Order number	CO 1266
Name Ship	DCI DREDGE XXI
Owner	Dredging Corporation of India Ltd., India
Hopper capacity	5,500m ³
Installed power	9,373 kW
Length overall	114.00 m



Year of delivery	2013
Order number	CO 1265
Name Ship	DCI DREDGE XX
Owner	Dredging Corporation of India Ltd., India
Hopper capacity	5,500m ³
Installed power	9,373 kW
Length overall	114.00 m



Year of delivery	2012
Order number	CO 1264
Name Ship	DCI DREDGE XIX
Owner	Dredging Corporation of India Ltd., India
Hopper capacity	5,500m ³
Installed power	9,373 kW
Length overall	114.00 m

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Year of delivery	2013
Order number	CO 1272
Name Ship	ALBATROS
Owner	Baggerbedrijf de Boer - Dutch Dredging, The Netherlands
Country of Construction	Bulgaria
Hopper capacity	1,500 m ³
Installed power	3,189 kW
Length overall	75.00 m



Year of delivery	2013
Order number	CO 1260
Name Ship	CHANG JIANG KOU 02
Owner	Yangtze Estuary, P.R. of China
Country of Construction	China
Hopper capacity	12,000m ³
Installed power	16,578 kW
Length overall	132.00 m



Year of delivery	2012
Order number	CO 1259
Name Ship	CHANG JIANG KOU 01
Owner	Yangtze Estuary, P.R. of China
Hopper capacity	12,000m ³
Installed power	16,578 kW
Length overall	132.00 m



Year of delivery	2012
Order number	CO 1270
Name Ship	DOHUK
Owner	Toyota Tsusho Corp., Japan
Hopper capacity	500 m ³ with grab
Installed power	1,638 kW
Length overall	57.00 m

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Year of delivery	2012
Order number	CO 1269
Name Ship	KARBALA
Owner	Toyota Tsusho Corp., Japan
Hopper capacity	3,500 m ³
Installed power	7,646 kW
Length overall	90.65 m



Year of delivery	2011
Order number	CO 1267
Name Ship	BREUGHEL
Owner	DEME N.V., Belgium
Hopper capacity	11,650m ³
Installed power	11,250 kW
Length overall	122.90 m



Year of delivery	2011
Order number	CO 1263
Name Ship	CONGO RIVER
Owner	DEME N.V., Belgium
Hopper capacity	30,000m ³
Installed power	25,445 kW
Length overall	168.00 m



Year of delivery	2010
Order number	CO 1258
Name Ship	JUHU BEACH
Owner	Mark Shipping, The Netherlands
Hopper capacity	2,400m ³
Installed power	3,009 kW
Length overall	82.80 m

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The following list shows a brief overview of all Custom built cutter suction dredger projects of the past ten years.



Year of delivery	2020 / 2021 (under construction)
Order number	CO 1299 / CO 1300
Name Ship	MOHAB MAMEESH / 26 TH OF JULY
Type	2 units Heavy Duty cutter suction dredger, cutter power 4.800kW
Installed power	29.190 kW



Year of delivery	2020 (under construction)
Order number	CO 1277
Name Ship	KRIOS
Type	Self-propelled rock cutter suction dredger, cutter power 7.000kW
Installed power	23.684 kW



Year of delivery	2020
Order number	15052
Name Ship	DRAGA 20 BIAJO
Type	800 kVA electric wheel suction dredger
Installed power	800 kVA



Year of delivery	2019
Order number	15051
Name Ship	JULIA
Type	2,500 kVA electric heavy mineral sands cutter suction dredger
Installed power	2,500 kVA

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Year of delivery	2021 (under construction)
Order number	CO 1294
Name Ship	SPARTACUS
Type	Self-propelled mega rock cutter suction dredger, LNG powered
Installed power	44.180kW



Year of delivery	2018
Order number	CO 1293
Name Ship	JARASH
Type	Salt mushroom cutter suction dredger, cutter power 900 kW
Installed power	3.557kW



Year of delivery	2019
Order number	CO 1281
Name Ship	EMBARKA 11
Type	Cutter suction dredger, cutter power 1.500kW
Installed power	5.940 kW



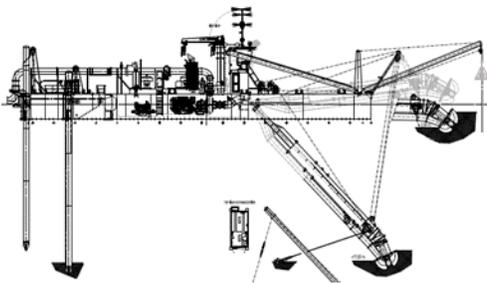
Year of delivery	2018
Order number	02940
Name Ship	SWSD 40; Swivel ladder wheel suction dredger
Type	
Installed power	Approx. 480 kW

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Year of delivery	2018
Order number	02923
Name Ship	MUTAH Beaver 40 MkII modified Salt pond maintenance cutter suction dredger, cutterpower 120kW
Type	
Installed power	Approx.. 550 kW



Year of delivery	2018
Order number	BD 63428 / 63427 / 63426 CSD 650 1 – 5 / CSD 500 1 – 5 / CSD 450 1 - 10
Name Ship	
Type	5 units CSD 650, 5 units CSD 500 and 10 units CSD 450 Cutter dredger pump gearbox package



Year of delivery	2017
Order number	02910 - 02914
Name Ship	PSD 45 5 units Electric Plain Suction Dredger 450mm,
Type	
Installed power	IHC HR MD 91-19-45 pump



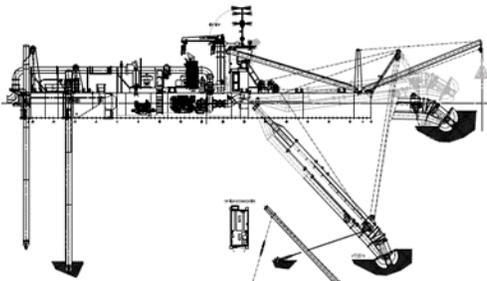
Year of delivery	2017
Order number	02915 - 02919
Name Ship	PSD 35 5 units Plain Suction Dredger 350mm, diesel-hydraulic
Type	
Installed power	IHC TT pump 35

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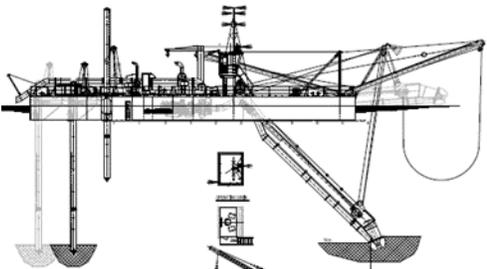
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Year of delivery	2017
Order number	BD 63396 – local built
Name Ship	ROBERT M WHITE
Type	Wide cutwidth Cutter suction dredger w DD ladderpump +2 boosterpumps, cutter power 746kW
Installed power	7.112 kW



Year of delivery	2017
Order number	BD 63421 – local built
Name Ship	CSD 650 1 - 6
Type	6 units CSD 650 cutter suction dredger
Installed power	2.270kW



Year of delivery	2017
Order number	BD 63420 – local built
Name Ship	CSD 500 1 - 4
Type	4 units CSD 500 cutter suction dredger
Installed power	1.261kW



Year of delivery	2017
Order number	CO 1276
Name Ship	HELIOS
Type	Self-propelled rock cutter suction dredger, cutter power 7.000kW
Installed power	23.684 kW

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Year of delivery	2016
Order number	02839
Name Ship	
Type	Stationary deep water cutter suction dredger IHC 4035 C, environmental clean-up
Installed power	900 kW



Year of delivery	2015
Order number	02806
Name Ship	
Type	Self-propelled Beaver 1200 cutter suction dredger
Installed power	882 kW



Year of delivery	2014
Order number	02800
Name Ship	AL BAHAR C/D
Type	Self-propelled rock cutter suction dredger, cutter power 3.500kW
Installed power	23.545 kW



Year of delivery	2013
Order number	15043 / 15044
Name Ship	DRAGA 18 / DRAGA 19
Type	2 units Electric wheel suction dredger, wheel power 250kW
Installed power	1.600 kVA

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Year of delivery	2013
Order number	CO 1262
Name Ship	ARTEMIS
Type	Self-propelled rock cutter suction dredger, cutter power 7.000 kW
Installed power	24.700 kW



Year of delivery	2012
Order number	02798
Name Ship	MIONDO
Type	Stationary rock cutter suction dredger, cutter power 1.100 kW
Installed power	4.286 kW



Year of delivery	2012
Order number	CO 1268
Name Ship	AMBIORIX
Type	Self-propelled rock cutter suction dredger, cutter power 6.000 kW
Installed power	26.100 kW



Year of delivery	2011
Order number	CO 1261
Name Ship	ATHENA
Type	Self propelled rock cutter suction dredger, cutter power 7.000 kW
Installed power	24.700 kW

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Year of delivery	2012
Order number	02784
Name Ship	SHANTI SAGAR XVI
Type	Cutter suction dredger IHC9029, cutter power 1.500 kW
Installed power	13.000 kW



Year of delivery	2010
Order number	02732 / 02733
Name Ship	ZHONG 08 / ZHONG 09
Type	2 units Cutter suction dredger IHC9029, cutter power 1.500 kW
Installed power	13.000 kW



Year of delivery	2010
Order number	02482
Name Ship	AL SAKAB
Type	Cutter suction dredger, cutter power 1.500 kW
Installed power	16.500 kW



Year of delivery	2010
Order number	02730
Name Ship	QUIBIÁN I
Type	Cutter suction dredger, cutter power 1.500 kW
Installed power	11.787 kW