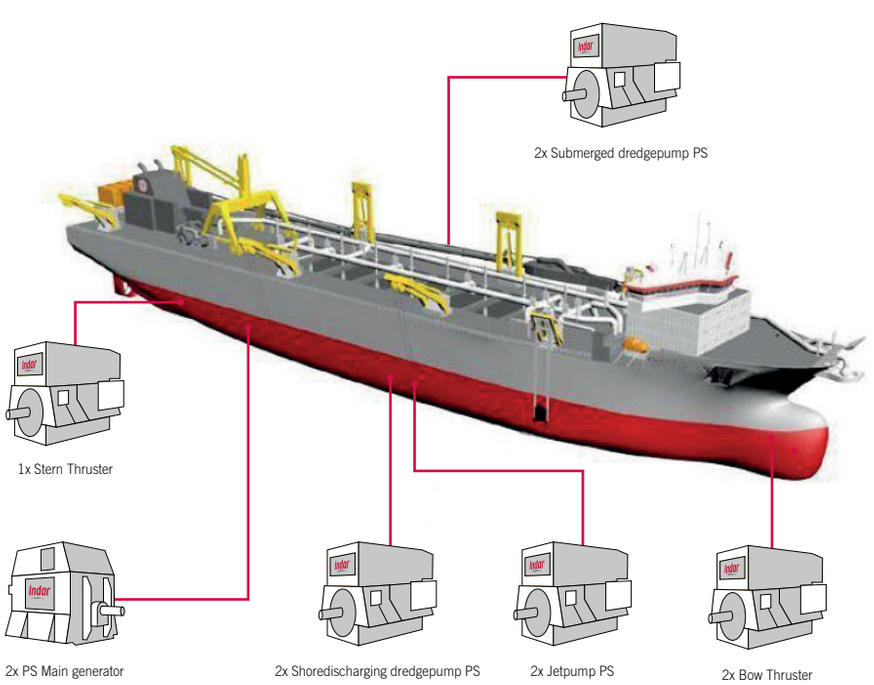
CASE STUDY

Mega Hopper Suction Dregger
Cristobal Colón & Leiv Eiriksson

The largest ones of their type in the world: Cristobal Colón and Leiv Eiriksson, are identical “mega” trailing suction hopper dredgers (TSHD) with a hopper volume of 46,000m^3, built in La Naval (Spain), for Jan de Nul. The fully loaded vessel is capable of cruising at a speed of 18kt.

46,000 m^3 Hopper Capacity



INDAR Marine Applications:

- Generation
- Propulsion and maneuver
- On-deck Machinery

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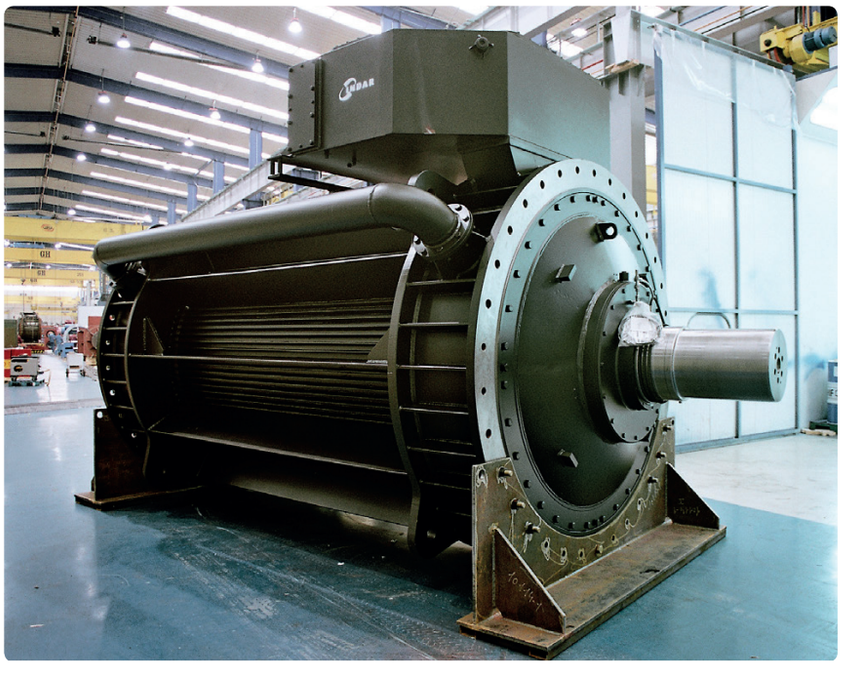
General Description

INDAR Scope of Supply

Main Generators		Output power:	18,500 kVA		
		Voltage:	6,600 V		
		Speed:	900 rpm		
Bow Thruster [1]	[1] [2]	Output power:	2,150 kW		
Stern Thruster [2]		Voltage:	6,600 V		
		Speed:	900 rpm		
Jet Pump Motors [3]	[3]	Output power:	2,150 kW	[4] Output power:	8,000 kW
Dredge & Shore discharging Pump Motors [4]		Voltage:	3,150 V	Voltage:	3,150 V
		Speed:	900 / 1,050 rpm	Speed:	1,000 / 1,200 rpm
Submersible Motors		Output power:	6,500 kW		
		Voltage:	3,100 V		
		Speed:	253 / 325 rpm		



Vessel Main Characteristics

Owner:	Jan de Nul
Hopper capacity:	46,000 m^3
Deadweight:	78,000 Tn
Length overall:	223 m
Breadth:	41 m
Pump Power (Trailing):	2 x 6,500 kW
Pump Power (Discharging):	16,000 kW
Maximum dreadging depth:	155 m

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Your driving force

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