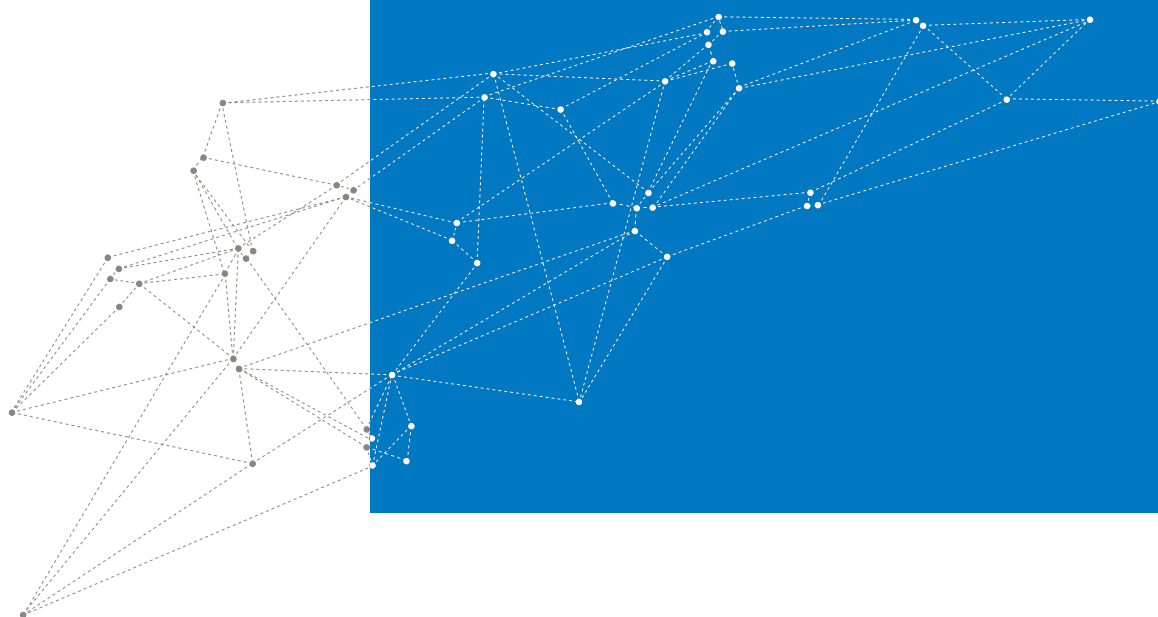




the added value to your project

company profile



*Isotta Fraschini Motori*

a **FINCANTIERI** company





[1]

## Solutions

— Recent years have seen the maximum commitment of men and resources applied to the Isotta Fraschini brand for the adoption of avant-garde production processes and to meet the today requirements of the market.

The strategic choice of accepting the new challenges presented by the market in terms of reliability and concern for the environment with limited costs and excellence of performance, have led the Company to develop a modern and full range of engines, with outputs from 200 to 3.600 hp for marine, industrial and rail traction applications, based on the 1300 and 1700 engine families. As well as offering its Customers technical support for any type of installation whatever, the Company is provided with centres for the distribution of spare parts and for technical assistance able to guarantee after sales service appropriate to the most diversified of requirements.

## Integrated engineering

— Last but not least being part of FINCANTIERI MARINE SYSTEMS has allowed many Customers to appreciate the know-how built up in the years so that today Isotta Fraschini Motori S.p.A. is always more a Diesel Systems provider rather than only a Diesel engine supplier.

FINCANTIERI Marine Systems must be considered a Customers problem solving supplier as it is able to supply highly integrated engineering for naval, marine and power generation applications.



[2]

- [1] ITALIAN COAST GUARD DICIOTTI  
VL 1716 Propulsion engines  
L 1306 On-board generator sets  
Image courtesy of Guardia Costiera Italy, 2011

- [2] Image courtesy of Metamarine Italy, 2011







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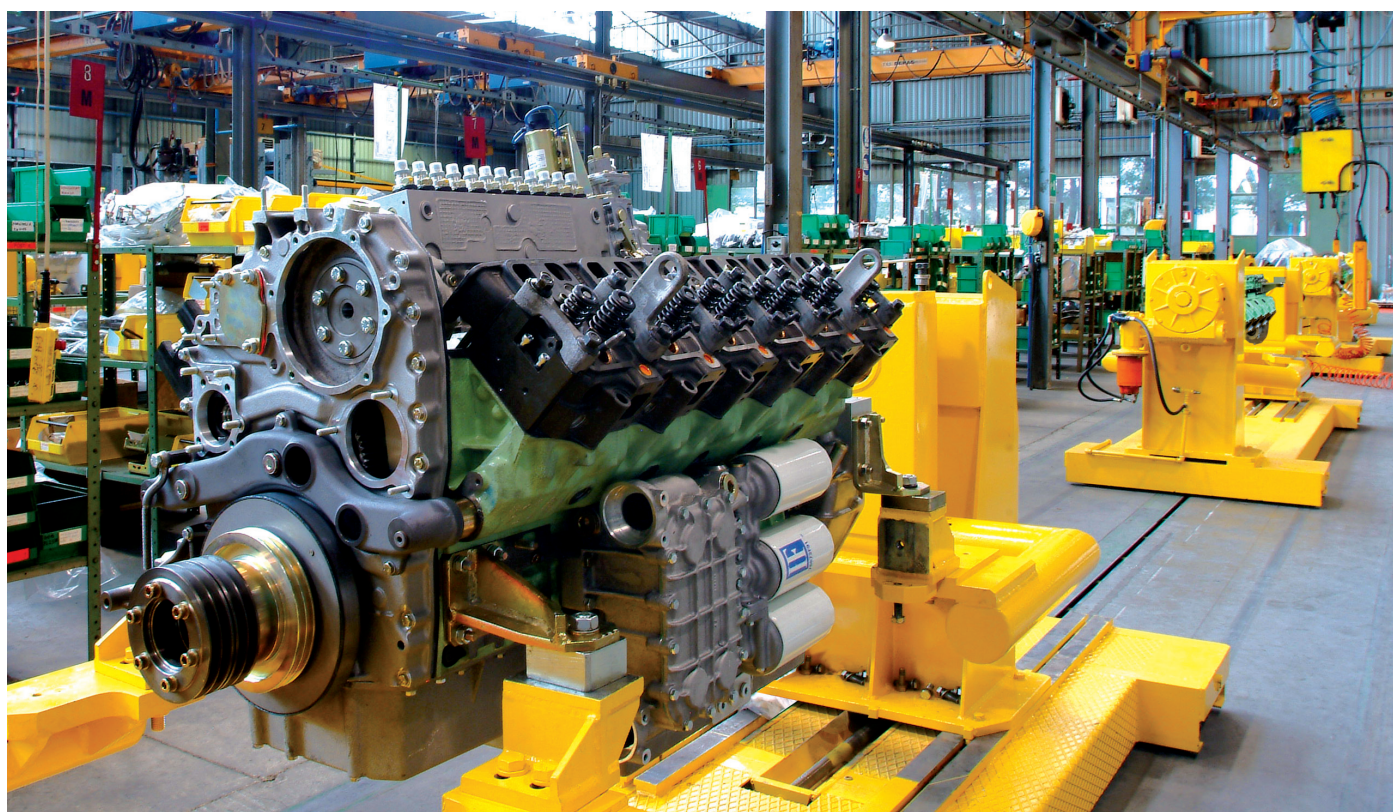
Isotta Fraschini Motori a FINCANTIERI Company is within FINCANTIERI MARINE SYSTEMS business unit, which allows Customers to receive a fully Integrated Engineering service, from consultancy right up to taking delivery of high quality reliable state of the art products.

## Expertise

— A Fincantieri Company, Isotta Fraschini: a name that has always been synonymous of advanced technology in the history of Italian industry. A past of excellence, of quality and of international recognition that has led to specialisation in the production of diesel engines, putting the Company in the forefront for the level of technology adopted and for the combination of high performances with extremely limited size and weight.

## Competence

— The brand is of very old date. Since 1908 Isotta Fraschini has produced engines for various applications: from the marine and aviation to the automotive which in 1920 made the Company known and admired throughout the world for its luxury cars. Different applications at different times, aiming always at the same goals: quality and product reliability.





\_ US NAVY Joint High Speed Vessels  
V 1312 ON-BORAD GENERATOR SETS

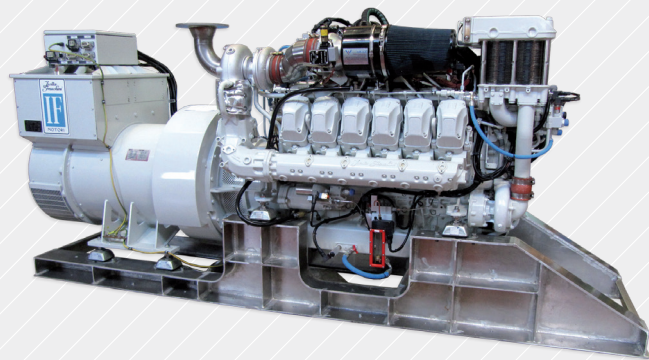


Image courtesy of Austral, Australia, 2011

\_ Italian Coast Guard CP 800 Class  
L 1306 PROPULSION ENGINES

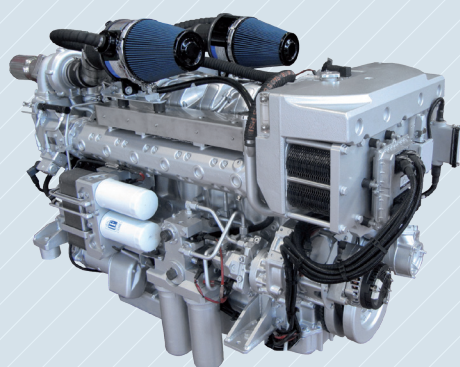


Image courtesy of Guardia Costiera Italy, 2011

\_ US NAVY Littoral Combat Ships  
V 1708 ON-BOARD GERATOR SETS

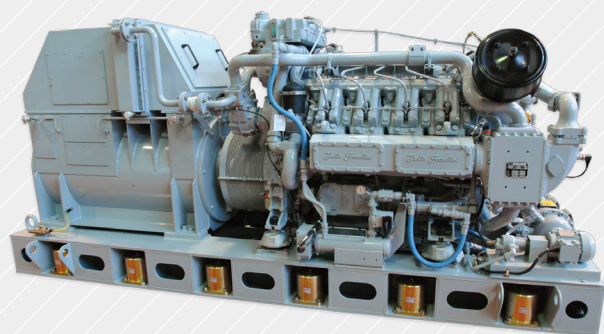


Image courtesy of FINCANTIERI, 2011

\_ Italian Navy Fregate Frigates  
VL 1716 ON-BOARD GENERATOR SETS



Image courtesy of FINCANTIERI, 2011

# MARINE DIESEL ENGINES

## PROPULSION APPLICATIONS

ENGINE MODEL	POWER OUTPUT		RATED SPEED RPM	ISO CODE (*)	APPLICATION GROUP	EMISSIONS COMPLIANCE
	kW	HP				
L1306C2 MSD	590	802	2600	ICFN	LIGHT DUTY	MARPOL Tier II. EPA Tier II
V1312C2 MSD	1100	1496	2800	ICFN	LIGHT DUTY	MARPOL Tier II. EPA Tier II
V1708C2 MLL	815	1108	1935	ICFN	MEDIUM DUTY	MARPOL Tier II. EPA Tier II
V1712C2 MLL	1540	2094	2000	ICFN	MEDIUM DUTY	MARPOL Tier II. EPA Tier II
V1712C2 MLH	1350	1835	1800	ICFN	HEAVY DUTY	MARPOL Tier II. EPA Tier II CCNR Stage 2
VL1716C2 MSD	2750	3740	2100	ICFN	LIGHT DUTY	MARPOL Tier II. EPA Tier II
VL1716C2 MSD	2400	3264	2000	ICFN	MEDIUM DUTY	MARPOL Tier II. EPA Tier II
VL1716C2 MLH	1800	2448	1800	ICFN	HEAVY DUTY	MARPOL Tier II. EPA Tier II CCNR Stage 2

## ON-BORAD POWER GENERATION

ENGINE MODEL	MAXIMUM CONTINUOUS POWER OUTPUT			RATED SPEED RPM	ISO CODE (*)	EMISSIONS COMPLIANCE
	kWm <sup>(1)</sup>	kWe <sup>(2)</sup>	Hz			
L1306C2 ME	320	300	50	1500	ICXN	MARPOL Tier II. EPA Tier II
L1306C2 ME	375	350	60	1800	ICXN	MARPOL Tier II. EPA Tier II
V1312C2 ME	535	500	50	1500	ICXN	MARPOL Tier II. EPA Tier II
V1312C2 ME	640	600	60	1800	ICXN	MARPOL Tier II. EPA Tier II
V1708C2 ME	730	680	50	1500	ICXN	MARPOL Tier II. EPA Tier II
V1708C2 ME	860	800	60	1800	ICXN	MARPOL Tier II. EPA Tier II
V1712C2 ME	1065	1000	50	1500	ICXN	MARPOL Tier II. EPA Tier II
V1712C2 ME	1280	1200	60	1800	ICXN	MARPOL Tier II. EPA Tier II
VL1716C2 ME	1670	1600	60	1200	ICXN	MARPOL Tier II. EPA Tier II
VL1716C2 ME	1880	1800	50	1500	ICXN	MARPOL Tier II. EPA Tier II
VL1716C2 ME	2190	2100	60	1800	ICXN	MARPOL Tier II. EPA Tier II

### AMBIENT REFERENCE CONDITIONS: According to Marine Classification Societies requirements

(ISO 3046/1 for unrestricted navigation)

- Ambient temperature .....45° C
- Sea water temperature.....32° C
- Barometric pressure .....1000 mbar
- Relative humidity .....60%

### Rated power available without any derating up to:

- Ambient temperature .....55° C
- Sea water temperature.....36° C
- Relative humidity .....100%

<sup>(1)</sup>: Mechanical Power at Engine Flywheel [kWm]

<sup>(2)</sup>: Eletrical Power Output at Alternator Terminals [kWe]

(\*) ICFN: Maximun Continous Rating (MCR) - No overload admitted

(\*) ICXN: Maximun Continous Rating (MCR) - 10% overload admitted



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