

the past
il passato

Barquentine Class

Genoa,
Maritime Museum

The “Barquentine” was a typical ship of Genoa, built in response to the need to reduce the number of crew members in three masted ships and barques. Dating back to 1840, this ergonomic approach created a very successful type of sailing vessel which survived in some sanctuaries of sailing (such as Camogli) till the end of the 19th century. Two fore-and-aft sails afforded good sailing qualities and speed: the only drawback was their large size for a very small crew (of less than 15) which limited their spread in merchant shipping. The picture shows the barquentine “Domenico Galliano” that was built in 1865 at Sestri Ponente, the current site of a Fincantieri shipyard. Efficiency and outstanding performances of this type of ship are shared by modern LPDs.

La “Goletta” era una caratteristica nave genovese, ideata in risposta alla necessità di ridurre l'equipaggio su velieri a tre alberi. Fin dal 1840 questo approccio ergonomico ha portato ad un tipo di nave di grande successo, rimasta in uso in qualche santuario della navigazione a vela (come Camogli) fino alla fine del novecento. Due vele a prua e a poppa assicuravano ottima qualità di tenuta del mare e velocità sostenuta; l'unico svantaggio era la dimensione considerevole della nave in rapporto al numero dell'equipaggio (meno di 15 persone). Questo delimitò l'uso presso le flotte mercantili. L'illustrazione riporta la goletta “Domenico Galliano” che fu costruita a Sestri Ponente, ora sede di un cantiere Fincantieri. Le caratteristiche di efficienza e le eccellenti performance di questo tipo di nave sono oggi condivise dagli LPD.



Head Office

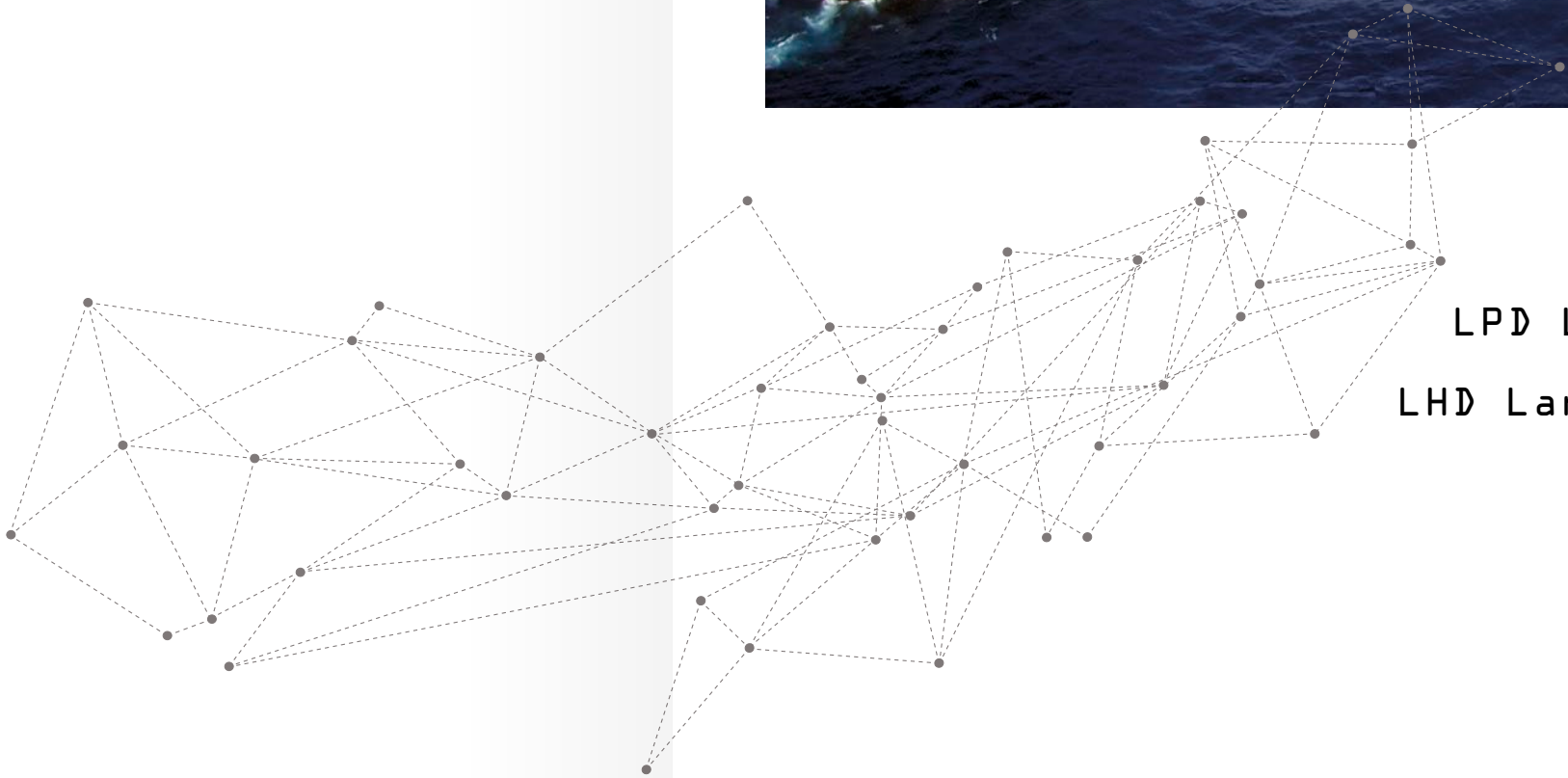
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fincantieri / naval vessels



LPD Landing Platform Dock

LHD Landing Helicopter Dock



series/ASB M-12/16

LPD/LHD

_ overview

— Fincantieri is one of world's largest shipbuilding groups and the number one by diversification and innovation. The Group is a reference player in design and construction of high-tech naval vessels and has among its clients the Italian Navy and the U.S. Navy as well as several foreign ones. It is one of the partners in important multinational programmes, such as the European FREMM frigates, the Horizon destroyers and the U212A submarines. The Group is capable of designing and building a broad and complete product portfolio, including surface combatant ships, auxiliary and special vessels as well as submarines. Fincantieri can act as Prime Contractor, managing a full ship life-cycle support, from design to construction, to logistic support, to after sales assistance. The Group can also carry out design activities and provide technical assistance to design and production of naval vessels at third parties shipyards, in the frame of agreements that often include also transfer of technology and training.

— Fincantieri è uno dei più importanti complessi cantieristici al mondo e il primo per diversificazione e innovazione. Il Gruppo è operatore di riferimento per quanto riguarda la progettazione e la costruzione di navi militari ad alto contenuto tecnologico e ha nel suo portafoglio clienti la Marina Italiana, la US Navy oltre a numerose Marine estere. È partner nell'ambito di importanti programmi sovranazionali quali i programmi europei per le fregate FREMM, i cacciatorpediniere classe Orizzonte e i sommergibili U212. Il Gruppo è in grado di progettare e costruire un ampio e completo portafoglio prodotti, che comprende navi combattenti di superficie, navi ausiliarie e speciali, nonché sommergibili. Fincantieri gestisce in qualità di Prime Contractor tutte le fasi del ciclo di vita della nave, dalla progettazione alla costruzione, al supporto logistico, all'assistenza post-vendita. È inoltre in grado di svolgere attività di progettazione e assistenza tecnica a progettazione di dettaglio e produzione di navi militari presso cantieri terzi, nel quadro di accordi che sovente includono anche trasferimento di tecnologia e training.



LPD

Enhanced
San Giusto Class

_ main characteristics



Length overall.....	142.90 m
Length between perpendiculars.....	127.60 m
Breadth.....	21.50 m
Depth to flight deck.....	16.20 m
Depth to garage deck.....	7.70 m
Full load displacement.....	abt. 8 800 t
Main diesel engines.....	2 x 6 000 kW
Maximum speed.....	20 kn
Range at 15 kn.....	7 000 nm
Crew.....	152 people
Transported.....	438 + 12 people

HELO CAPABILITIES

Flight Deck	
• 2 landing spots for EH101	
• 2 take-off for EH101 & Super Lynx-type helicopters	
Hangar.....	recovery of Super Lynx helicopters type
Hangar/Garage deck.....	up to 465 m (garage + fore area of flight deck)
Hospital area.....	abt. 250 m²
Floodable dock.....	dimensions abt. 20.50 x 7 m
Vehicle ramps.....	1 stern + 1 side

_ combat system

- 1 Combat Management System
- 1 Identification Friend or Foe Phased Array + Transponder
- 2 X-Band Navigation Radars
- 1 Navigation System
- 1 Helo Deck Radar
- 1 Fire Control System
- 1 Electronic Warfare System
- 1 Anti-Air Warfare Decoy Launching System (2 launchers)
- 1 76/62 SR Main Gun
- 2 25 mm Machine Guns
- 1 Ship to Air Missile [1 x 8 + 1 x 8 fitted for] + Multifunctional Radar
- 1 Integrated Communication System

LHD

20 000 t

_ main characteristics



Length overall.....	190 m
Length between perpendiculars.....	167 m
Max breadth.....	33 m
Moulded breadth.....	28 m
Full load displacement.....	20 000 t
Operational speed.....	20 kn
Range at 16 kn.....	7 000 nm

ENERGY AND PROPULSION SYSTEM

Propulsion diesel engines MMPP.....	2 x 11 000 kW
.....	2 x 6 500 kW
Diesel generators sets.....	4 x 2 500 kW each

Flight deck for.....	up to 6 helicopters EH-101 type
Helicopters hangar for.....	up to 6 EH-101 type
Vehicle deck capability.....	up to 1 200 metric lanes
Hospital area.....	abt. 1 000 m² plus 1 000 m² of convertible areas
Floodable dock.....	abt. 50 x 15 m
Vehicle ramps.....	1 stern + 1 side
Accommodation.....	200 crew + 750 troops

_ combat system

- Air & Surface surveillance system (combined air/surface surveillance radar or air+surface surveillance radar's)
- Mine avoidance sonar
- Artillery: 3 Short Range Gun 25 mm + 2 Otomelara 76/62 SR (acting also as CIWS)
- EW system (ESM/ECM + 2 AAW DLS)
- Torpedo defense (Towed Array + 2 ASW DLS)
- Open architectural command & control system able to be implemented also in later phase (i.e. adding operational functions & operator consoles) (400 m² available)
- Integrated comms. system (including also the means for landing troops)
- Integrated navigation system (including X and S band navigation radar's)