

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

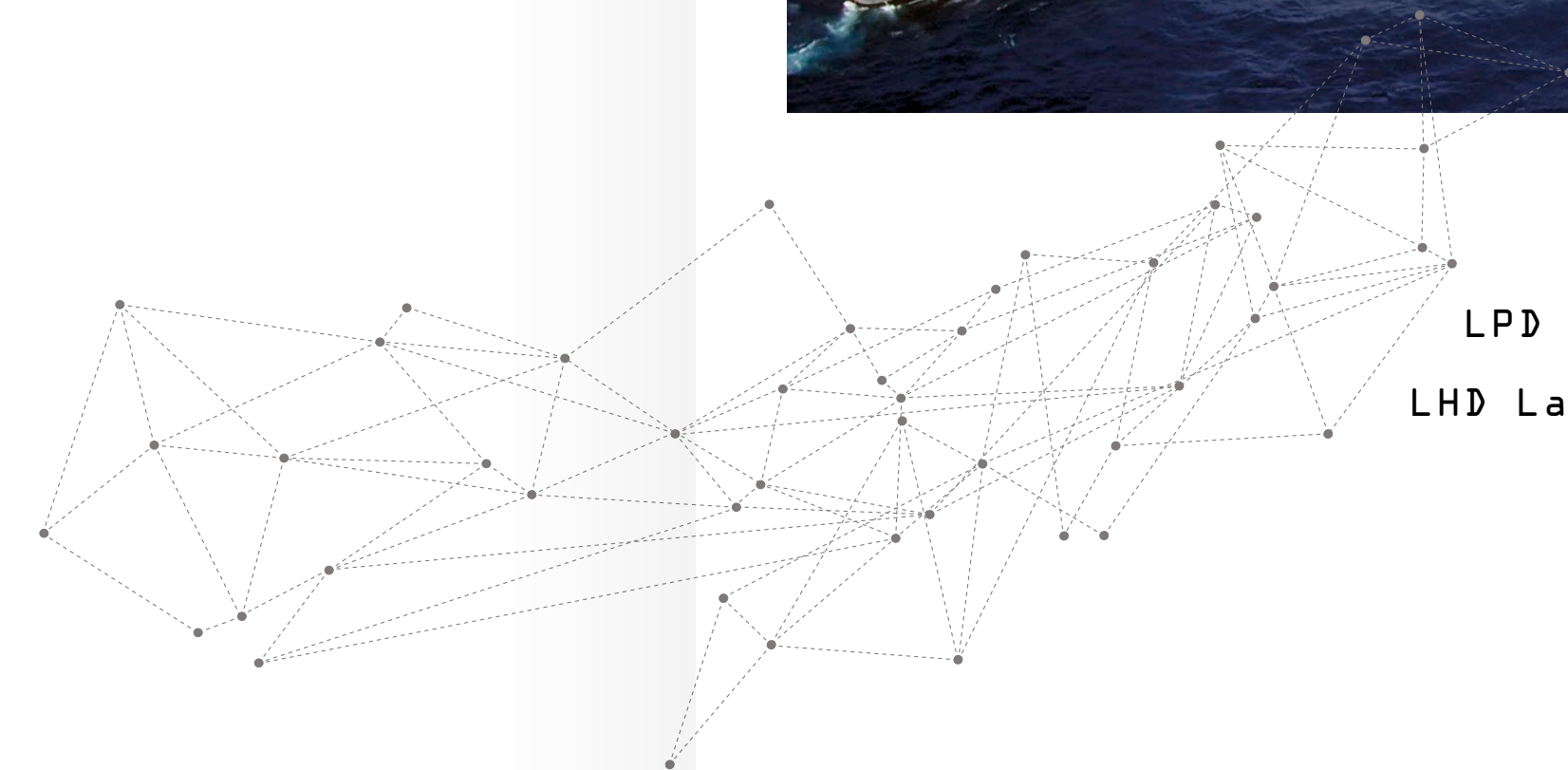
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fincantieri / naval vessels



LPD Landing Platform Dock
LHD Landing Helicopter Dock



styling/AB M-12/16

LPD/LHD

— The vessels are designed to ensure extremely efficient land - air - marine connections. They can carry a fully equipped battalion of landing troops: they are Amphibious Transport Ships with through deck for helicopter operation and a full length garage deck, after portion of which is convertible in dock with own LCMs. During peacetime the vessels confirm their excellent capabilities in disaster relief, humanitarian and SAR operations.

— Le navi sono progettate per assicurare collegamenti terrestri, aerei e marittimi estremamente efficienti. Esse sono in grado di trasportare un battaglione di truppe da sbarco completamente equipaggiato: si tratta di navi da trasporto anfibio, a tutto ponte per operazioni elicotteristiche, e con ponte garage a tutta lunghezza convertibile nella sua porzione poppiera in bacino operante con proprie MTM. Tali unità dimostrano le loro eccellenti qualità in molteplici missioni umanitarie e di soccorso, anche in tempo di pace.

_ overview



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	<ul style="list-style-type: none"> • 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 m ²
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 m ² plus 1 000 m ² 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 radars)
- 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 radars)

