



TOPAZ 1700 TEU

Modern Eco Design Container Vessels

MANDARIN
SHIPPING





Providing unprecedented operational efficiency and economy, Mandarin Shipping's series of six new 1,700teu Topaz-class container vessels give charterer's a competitive edge in regional feeder markets.

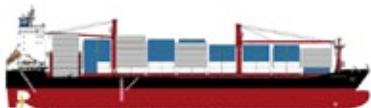
The vessels smaller dimensions are combined with a higher 14t homogenous intake and lower consumption to ensure these are the most efficient vessels in this sector.

Committed Hong Kong based ownership/management team willing to work with charterers to enhance operational efficiency and integrate preferred Performance Management System (such as BMT Smart, Marorka Kongsberg etc.) for real-time vessel performance reporting using data from vessel's mass-flow meters and shaft-power meters.

Optimized propulsion systems and hull design and low-friction, high performance Silyl Acrylate paint specifications give 'Best in Class' fuel consumption figures whilst latest electric MAN engine provides maximum efficiency across the whole power range.

Seacos loading system fitted with trim optimization, hot areas, ballast water exchange and residual strength modules for optimized cargo handling and efficiency.

Vessels meet all current environmental regulations with Ballast Water Treatment Systems, advanced incinerator and oily water separator plants.



TOPAZ 1700

LOA x LBP x B x D

169.99m x 161.58m x 28.1m x 14.2m

Tonnage

International 18,887 GT / 7,637 NT

DWT / Draft (scantling)

23,400mt on about 9.5m sswd

DWT / Draft (design)

19,400mt on about 8.5m sswd

Container intake

1,730 TEU (668 in holds / 1,062 on deck)

Homogenous intake

1,370 / 1,380 TEU at 14t (geared / gearless)

Reefer

Total 350 reefer plugs (130 in holds / 220 on deck)

Container fittings

Fully cellularised in holds for 40' units

Stowage of 45' units is possible on deck

Three layers of high cube containers can be accommodated under deck without losing slot

2.5m (Euro) and 2.6m (Wide-body) containers can be carried on deck in a mixed stowage

Stack Weights

Tanktops 120/185 mt per 20'/40' stack

Hatchcovers 40 mt per 20' stack in hatch 1

60 mt per 20' stack in hatches 2-8

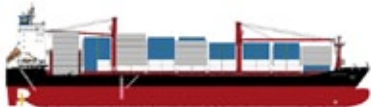
60 mt per 40' stack in hatch 1

105/75 mt per 40'/45' stack in hatches 2-8

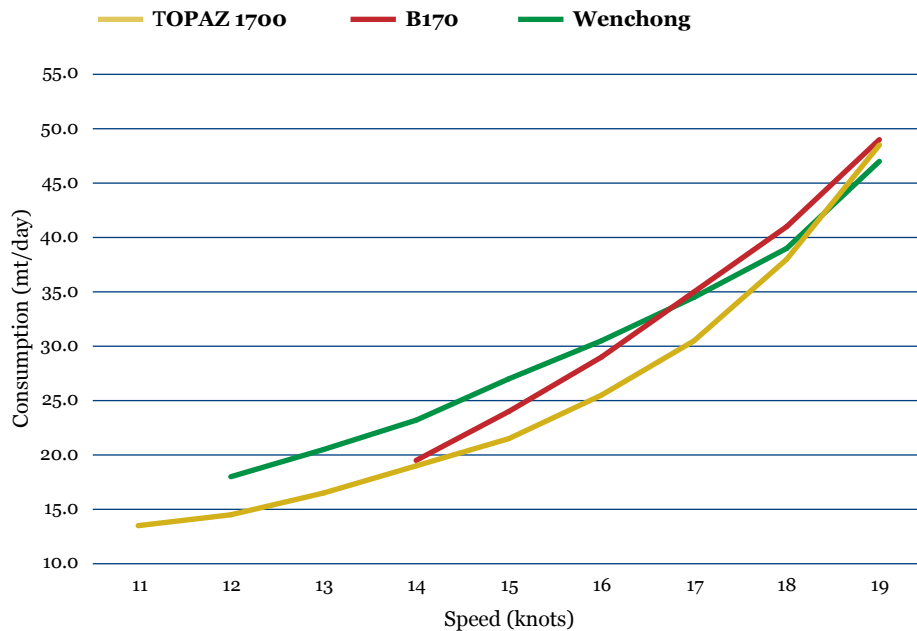
Main Deck 150 mt per 40' stack

Cargo Gear (optional)

2 x MacGregor Deck Cranes - 1 x GL3537, 1 x GL4527



Speed and consumption of TOPAZ 1700, B170 and Wenchong vessels

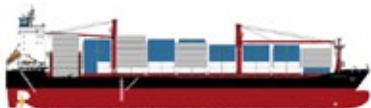


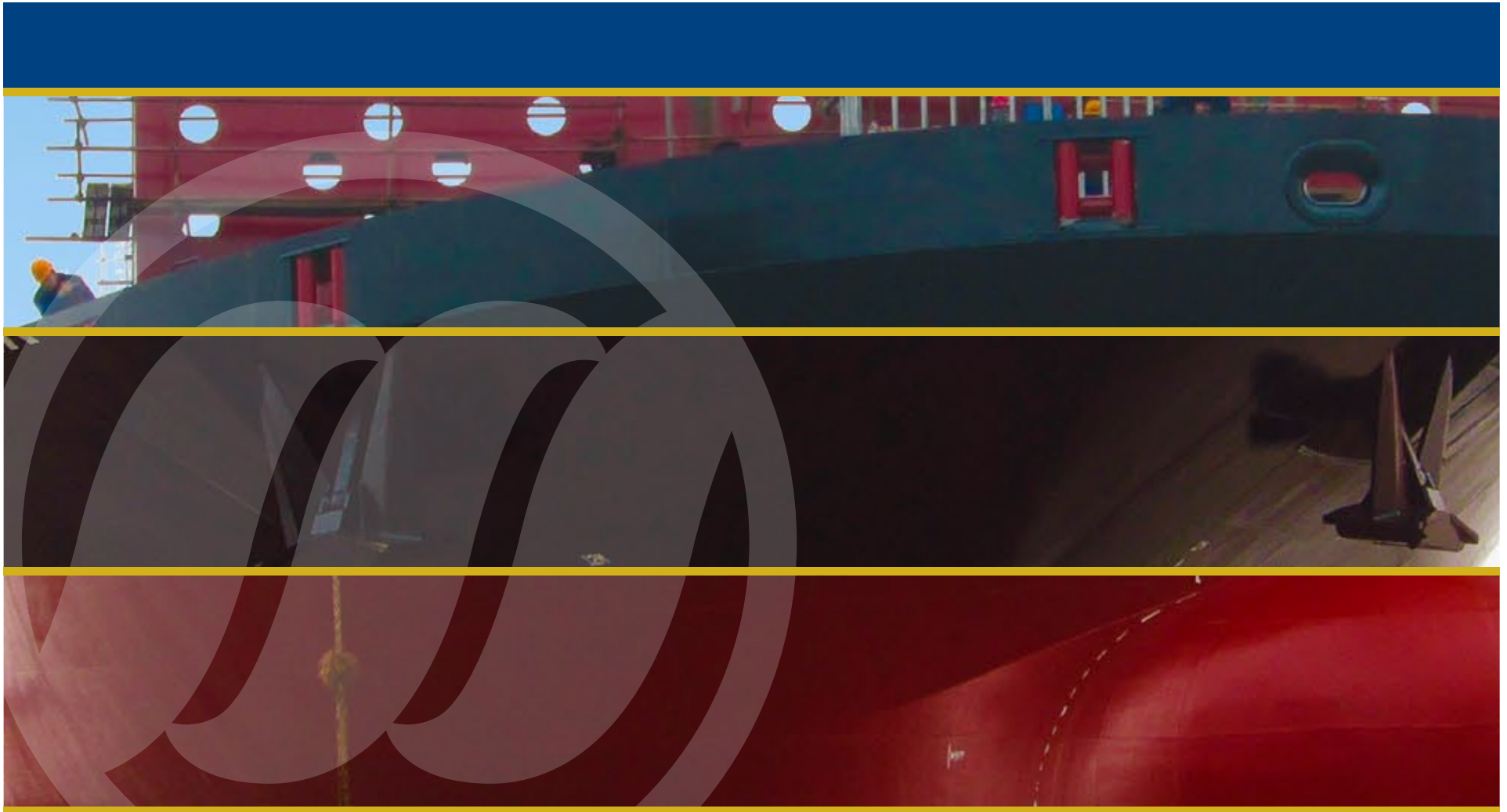
Speed (kt)	M/E consumption (mt/day)		
	TOPAZ 1700	B170	Wenchong
19.0	48.5	49.0	47.0
18.0	38.0	41.0	39.0
17.0	30.5	35.0	34.5
16.0	25.5	29.0	30.5
15.0	21.5	24.0	27.0
14.0	19.0	19.5	23.2
13.0	16.5	-	20.5
12.0	14.5	-	18.0
11.0	13.5	-	-

Consumption per TEU/mile @ 17 knots

- about 18% less than a Wenchong 1700 (53,78 gr vs 63,57 gr per TEU/14t per mile)
- about 40% less than a B-170 (53,78 gr vs 76,25 gr per TEU/14t per mile)

New vessel design has a positive effect on fuel consumption. More cost-efficient than standard designs.





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