



Schulte & Bruns

Nederland BV

52° 57' 23" 5° 56' 70"



FWN RANGER INDUSTRIAL ROYAL

MAIN PARTICULARS:

Flag	: Liberia
Port of registry	: Monrovia
Built:	: 2005, Volharding Shipyards
Type	: Heavy Lift Multipurpose geared Tweendecker, strengthened for heavy cargoes, equipped for carriage of containers
Class	: DNV-GL
IMO Nr.	: 9277280



GENERAL DIMENSIONS:

GT/NT	: 8.963 / 4.522
DWT summer sw	: 10.508 mts
Draft fully laden sw	: 7,95 m
LOA	: 134,52 m
LPP	: 125,67 m
Beam	: 21,50 m
Depth moulded	: 9,30 m
Ballast air draft	: 42,20 m
Distance wl/hc	: abt 7,9 m (ballast)
TPC	: 24,9 (summer draft)

GEARS:

Cranes (starboard)	: 2 x 250 mts, combinable
Outreach, capacity	: 250 mt (6,5-12 m); 200 mt (5,5-15 m) 150 mt (5,5-20 m); 100 mt (4-30 m)

Spreader beam (44 mts) on board, lifting capacity is subject vessel's stability and depends on cargo/ballast on board.

DECK STRENGTH:

Tanktop strength	: 15,0 mts / sqm
Tweendeck strength	: 3,0 mts / sqm
Hatchcover strength	: 3,5 mts / sqm

CONTAINER DATA:

Container intake	: 547 TEU total 295 TEU (deck) + 252 TEU (hold)
Stack loads	: hold - TEU 60-96 ts/ FEU 91-122 ts deck - TEU 40 ts/ FEU 60 ts

Intake is always subject vessel's stability, trim, permissible weight and is subject to regulations of visibility.

TANK CAPACITIES:

HFO	: 719 cbm (incl day + settling tank)
MGO	: 318 cbm (incl day + settling tank)
Fresh water	: 136 cbm
Ballast water	: 5.843 cbm

HOLD PARTICULARS:

Grain capacity	: 527.994 cbft (14.951 cbm) –w/o twd : 490.000 cbft - with twd in hold
Holds/hatches	: 2/2; boxshaped, openhatch
Hold No 1 / 2	: 123.354 / 404.637 cbft (3.493/11.458 cbm)
Hold 1 (LxBxH)	: 20,25 x 13,0 / 7,8 / 2,6 x 11,89 m (6,75 m without narrowing)
Hold 2 (LxBxH)	: 58,5 x 16,9 / 5,2 x 11,89 m (45,0 m without narrowing)
Hatch 1+ 2	: 26,26 x 17,38 m 58,50 x 17,30 m
Hatch covers	: hydraulic folding + one pontoon
Moveable bulkheads	: 1 (made of twn deck panels)
Hold ventilation	: 6 air changes per hour
Reefer plugs	: 10, on deck only

Cargoes always to comply with vessel's certificate for carriage of dangerous goods and carriage of solid bulk cargoes.

TWEENDECK:

Tweendeck	: complete twd (except frwd narrowing in hold 1)
Panel thickness	: 0,62 m (12 panels)
Height under td/above td	: hold 1 – 5,18 / 6,09 m hold 2 – 4,68 / 6,59 m hold 2 – 8,47 / 2,80 m (with 4 panels)

CAPACITY AREA:

Tanktop	: Total 4.155 m2
Tweendeck	: 1.006 m2
Deck	: 1.736 m2 : 1.413 m2

MACHINERY:

Main engine	: MAK 8M43 – 7.200 kW
Auxiliary engines	: 2 engines (371 kw each)
Shaft generator	: 750 kva
Bow thruster	: 650 kw

Main engine outside Seca: HFO – ISO8217:2010e – Category ISO/F – RMG 380

Main engine inside Seca: MGO – ISO8217:2010e – Category ISO/F – DMA

Aux engines: MGO – ISO8217:2010e – Category ISO/F – DMA

Vessel is not equipped with an EGCS. For trading in any SECA the fuel oil to meet the requirements as per MARPOL Annex VI, Regulation 14 and regulation 18.3.

Bunkers shall not be comingled to avoid compatibility problems. Owners are participating in Fuel Quality Testing Services, any new delivered fuel shall only be used when the analysis is at hand. Bunkers to be planned accordingly.

Speed and consumption figures are "about" and calculated basis sailing even keel on max Beaufort 3/ DS 3 and seawater temperature max 26 C.

No MGO at sea provided shaft generator connected except if hold ventilation is used, reefers connected and in case of emergency and/or maneuvering in/out of ports and when navigation in shallow, narrow or other constraint waters.