

ABOUT **FLEX FIGHTER**
 Crew Boat • Security Boat • Anytime • Anywhere

Specifications and Diagrams



Purveyors of Quality High-Speed Aluminum Craft

About Flex Fighter



ENGINEERED FOR SPEED AND SECURITY

VESSEL OVERVIEW

Vessel Type:	Aluminium Monohull Fast Multi-Role Security Vessel Designed and built based on the Caterpillar-Powered Flex-40SC
Classification	BVI + HULL . MACH, Crew Boat, Sea Area 3
Safety Regulation :	BV and Panama Flag State requirements
Regs, Codes, Guidelines:	MARPOL, SOLAS, IMDG

HULL PARTICULARS

Length Overall:	40.00 m
Breadth Moulded:	7.60 m
Depth Moulded:	3.65 m
Loaded Draft:	1.89 m
Bow Transfer Platform for Personnel:	Fitted

CARGO DECK

Clear Deck Area:	93 sqm
Deck Cargo Capacity:	60 MT
Deck Strength:	2.0 MT/ sqm
Deck Dimensions:	16.9 m x 5.5 m
Cargo Railing Height:	1.0 m
Deck Crane:	Palfinger PK450 IM, 500kg @ 5.5 m outreach
Deck Store:	Fitted
Remarks:	Adequate cargo retainers and lashing lugs on both sides for securing deck cargo



TONNAGE

GRT:	279 MT
NRT:	83 MT
DWT:	131 MT

MAIN MACHINERY

Number of Main Engines:	3 units with resilient mountings
Make / Type:	Caterpillar C32 ACERT IMO Tier 2
Total BHP:	3 x 1450 BHP @ 2300 rpm
Propellers:	3 x fixed pitch, Ni-Al-Bronze, 5 blades
Bow Thruster:	1 unit electro-hydraulic @ 100 HP



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PERFORMANCE

Maximum Speed:	28 knots @ 100% MCR
Maximum Fuel Consumption:	878 L/hr
Economical Speed:	26 knots @ 85% MCR
Economical Fuel Consumption:	765 l/hr

GENERATORS AND AUXILIARY ENGINES

Generators:	3 x Caterpillar SR4 Alternator 86 kW
Prime Movers:	3 x 125 BHP @ 1500 rpm
Make / Type:	Caterpillar C4.4
Vessel Power Supply:	415/220 Volt AC, 50Hz, 3-phase + 24 Volt DC
Shore Power / Reefer Sockets:	1/4

SAFETY EQUIPMENT

Life Rafts:	3 x 25-man each side as per SOLAS
Life Jackets:	69 on board as per SOLAS
Life Buoys:	8 on board as per SOLAS
Scrambling Nets:	2 units
Other Equipment:	Pyrotechnics, line-throwing apparatus
Rescue Zone:	Port and Starboard

EMERGENCY RESPONSE FEATURES

1x external FiFi monitor with remote clutch and control @ 600 cbm per hour
Aerosol fire extinguishing system
Inflatable workboat with diesel outboard motor



Forward Bridge console with all-round view



Aft bridge console with remote FiFi controls

STANDARD FLEX FIGHTER FEATURES

All-Round Wheelhouse Ballistic Protection:

- Wheelhouse Windows (STANAG L1 or equivalent)
- Full Wheelhouse Cladding (STANAG L1 or equivalent)

Gun mounts with Ballistic Shields (1x forward and 2x aft)

*Weapons not included



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ACCOMODATION AND STORAGE

MAIN DECK

Passenger Seats:	50 pax
Passenger Toilets	2 cubicles with showers
Entertainment System :	1xLCD TV screen
Security Personnel Cabins / Total Bunks:	3 / 12 (3 x 4-m an)
Security Personnel Shower Rooms :	2 cubicles
Deck Command Centre with Radar Monitor, CCTV Monitor, VHF, Heading Repeater and GPS Repeater.	Fitted
Arms Locker	Fitted

BELOW MAIN DECK

Crew Cabins / Total Bunks:	4 / 8 (2 x 1-m an, 1 x 2-m an, 1 x 4-m an)
Crew Toilet:	1 cubicle with shower
Entertainment System:	1xLCD TV screen
Crew Mess and Galley:	Fitted
Crew Washer and Dryer:	Fitted
Separate Walk-In Freezer and Chiller:	Fitted
Dry Store:	Fitted
Work Bench:	Fitted

ELECTRONIC FUEL MANAGEMENT SYSTEM

FUELTRAX electronic fuel management system :	NEW IN 2020
• Coriolis meters for main engines and generators:	12 units
• Coriolis meter for bunker line:	1 unit



Comfortable crew rest area



Main passenger deck with reclining seats and security cabins

FLEX FIGHTER OPTIONS (additional costs apply)

- Additional ballistic protection
- Additional gun mounts



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ELECTRONICS AND CONTROLS

GMDSS:	Sea Area A1 + A2
VHF:	Sailor 6222
MF/HF Radio:	Sailor 6310
BNWAS:	Le Guardian 2025
Marine Radar:	HALO - 6
GPS:	Sim rad P2005
Depth / Echo Sounder:	SonarHub
Gyro Compass:	Sim rad RGC50
Magnetic Compass:	Riviera 6"
Navtex Receiver:	JMC NT1800
Public Address / Intercom System:	Vingtor CTB
Search Lights:	3x 1000W
EPIRB:	McMurdo S5A
SART:	Sim rad V5035
AIS:	FLIR M364
Night Vision Camera:	10 unit fitted
CCTV:	(5 x Exterior, 1x Bridge, 1x Passenger Area, 1 x Mess Room , 2 x Engine Room)



Spacious engine room

TANK CAPACITIES

Fuel Oil:	86,000 L
Fresh Water:	30,000 L
Oily Bilge:	600 L
Lube Oil:	450 L
Gear Oil:	450 L
Hydraulic Oil:	450 L
Fuel Oil Sludge:	500 L
Fuel Oil Purifier:	Heavy duty, self-cleaning unit
IMO-Approved Sewage Treatment Plant:	Fitted for 15 pax
IMO-Approved Oily Water Separator:	15 ppm
Water maker:	3.4 MT / day

Deck Command Centre with threat monitoring system

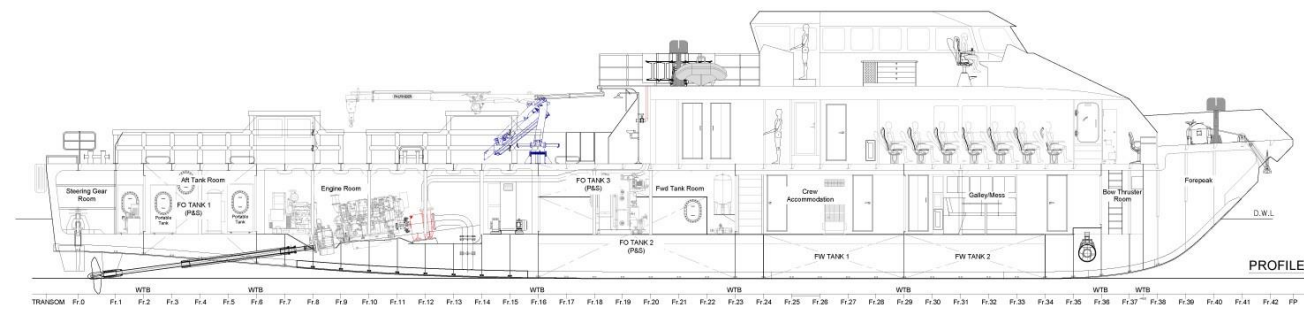
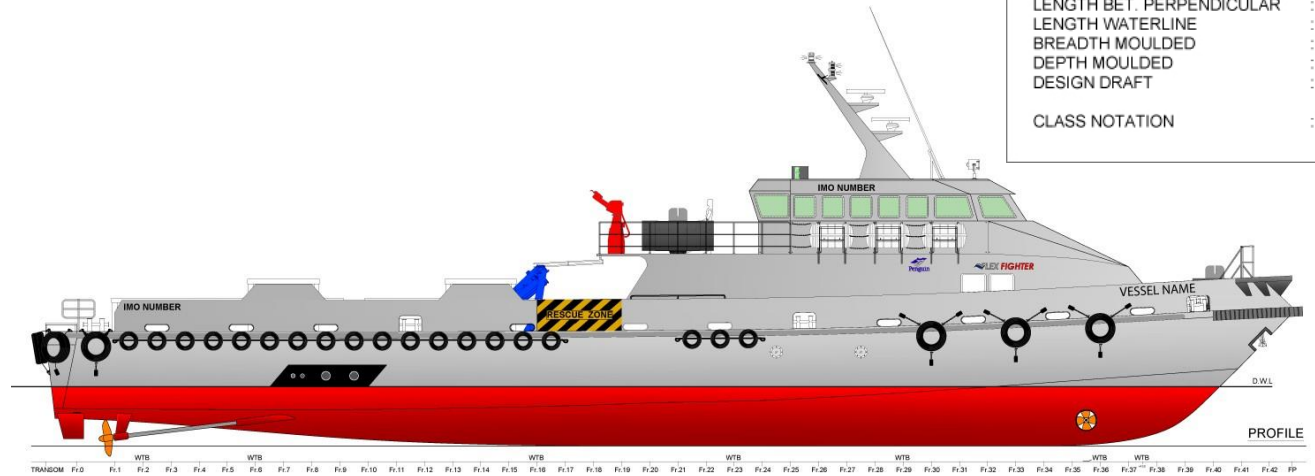


Flex Fighter - Diagram



ENGINEERED FOR SPEED AND SECURITY

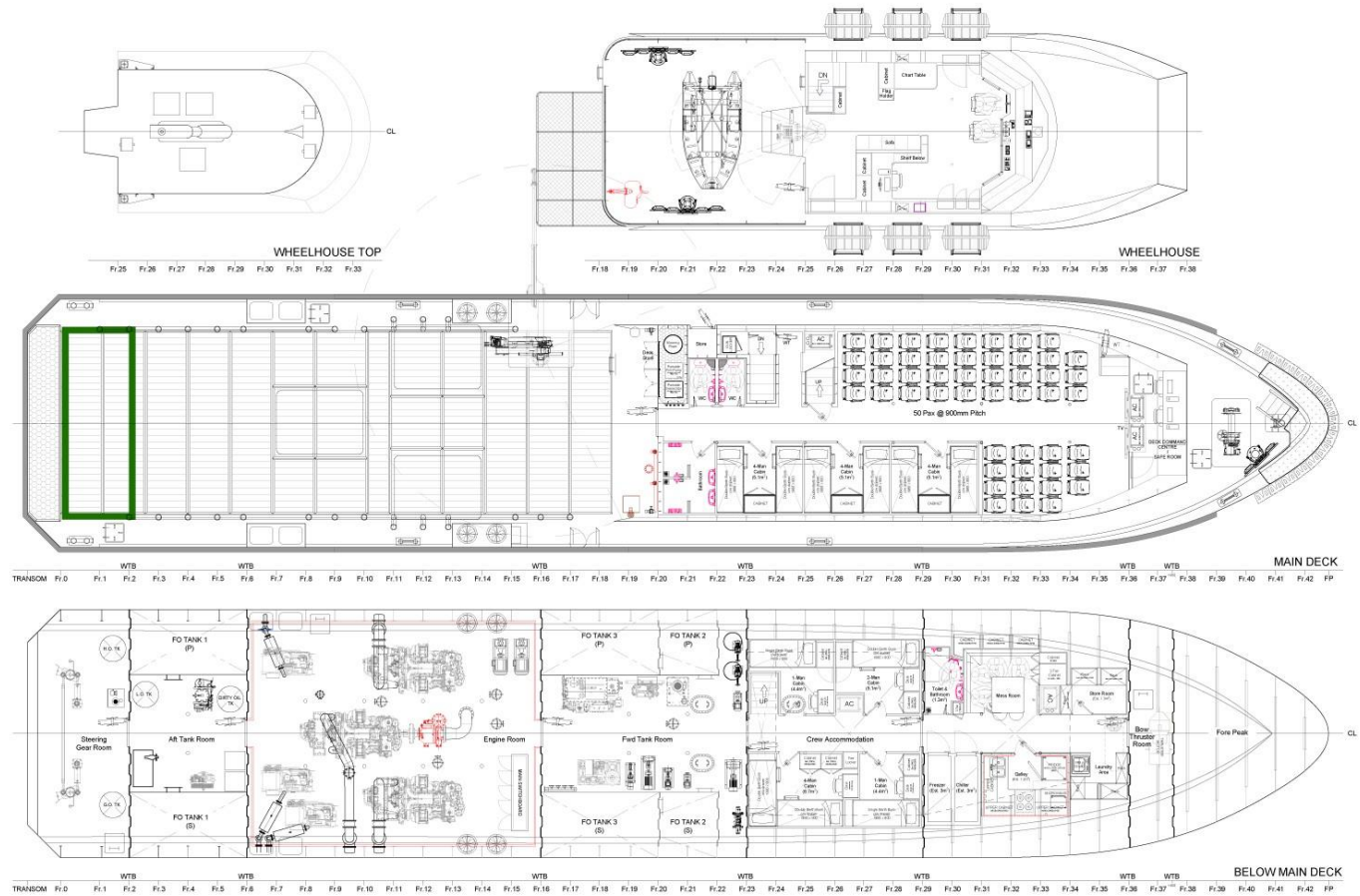
MAIN PARTICULARS	
LENGTH OVERALL	: 40.00 M
LENGTH BET. PERPENDICULAR	: 36.51 M
LENGTH WATERLINE	: 37.45 M
BREADTH MOULDED	: 7.60 M
DEPTH MOULDED	: 3.65 M
DESIGN DRAFT	: 1.89 M
CLASS NOTATION	: BV I *



Flex Fighter - Diagram



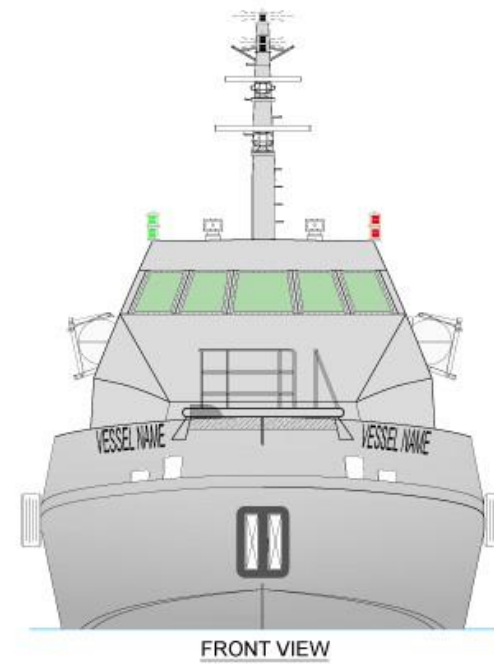
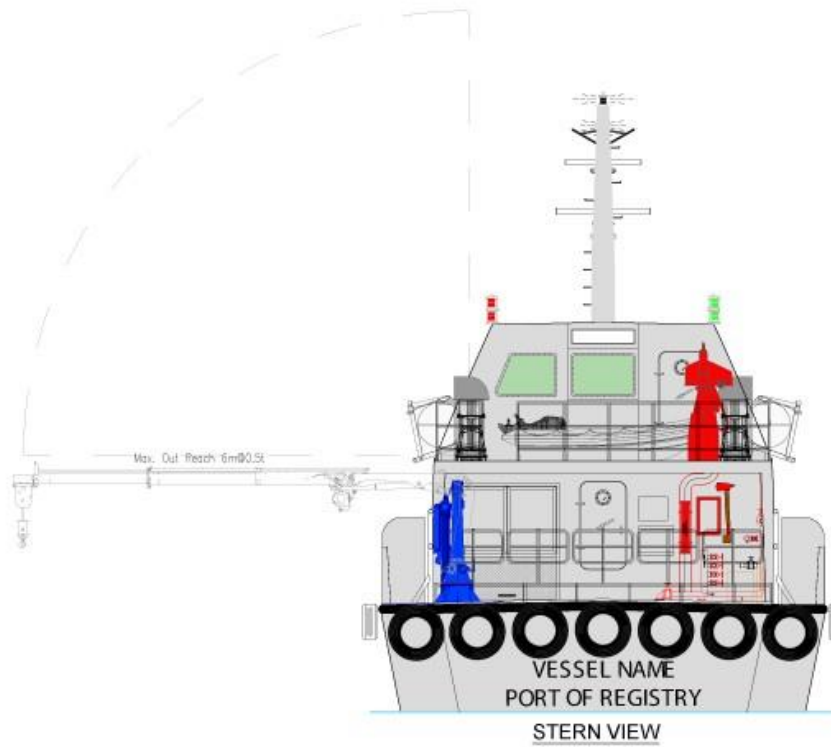
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Flex Fighter - Diagram



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RUHM MARINE SDN BHD