

SYM[®]
NAVAL

MOTOR WORK BOAT
HARBOUR TUG - TM
TM-036-08 - TM-024-02

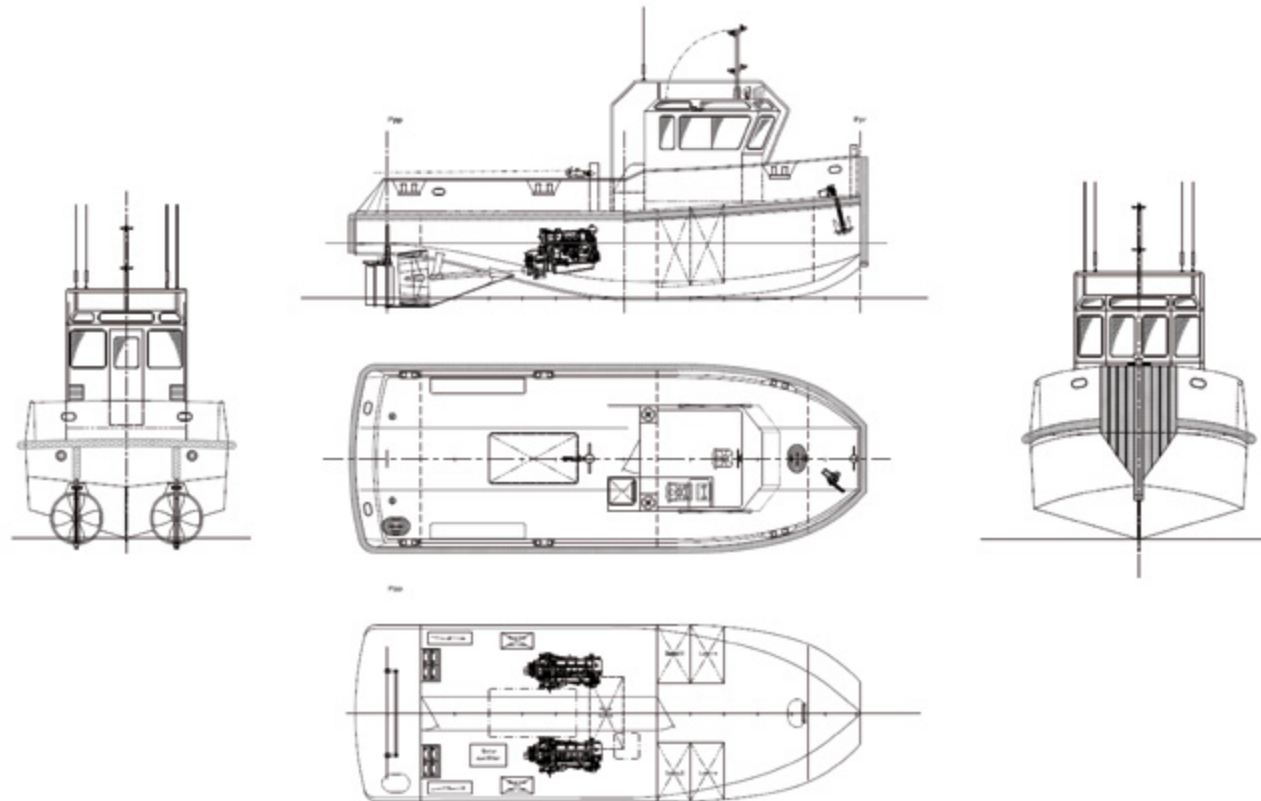
Barcelona · Miami · Santo Domingo



MAIN CHARACTERISTICS HARBOUR TUG TM-036-08	
L.O.A.	12 m
BEAM	4,5 m
DRAUGHT	1.3 m
BOLLARD PULL	8,5 Ton
SPEED	8 Knots
POWER	2X360 hp at 2,000 rpm
BREADTH OVER ALL	4,5 m
FULL DISPLACEMENT	40 Ton
CLASS	S

HARBOUR TUG TM-036-08

TECHNICAL SPECIFICATIONS HARBOUR TUG TM-036-08



GENERAL DATA TM-036-08

CHARACTERISTICS

BASIC FUNCTIONS

Passenger capacity 12 pax deck loading capacity 2.5 Ton

CLASSIFICATION NOTES

SPANISH FLAG	Grupo III, Class S
TOWING HOOK	Authomatic 15 SWL

PERFORMANCES

BOLLARD PULL	8,5 Ton
SPEED	8 Knots

STEERING SYSTEM

RUDDER BLADE	2 x high performance rudder Blade with flap
RUDDER SHAFT	Stainless Steel AISI 316 L
RUDDER BEARINGS	Thordon SXL

TANK CAPACITIES

DIESEL OIL	3,7 m ³
FRESH WATER	2 m ³
BLIGE WATER	0,6 m ³

MAIN DIMENSIONS

L.O.A.	12 m
L.B.P.	11,25 m
BEAM (INCL.FENDERS)	4,5 m
DEPTH	2 m
DRAUGHT	1,3 m
DISPLACEMENT	40 Ton

ACCOMODATION

The wheelhouse are completely insulated and finished with durable modern linings and composite synthetic floor.

GENERAL DATA TM-036-08

PROPULSION SYSTEM	
M.E. MAKER	Doosan Intracore Co.
MODEL	L-126 TI
TOTAL POWER	530 kW (720 hp) at 2000 rpm
TAIL SHAFT	Stainless Steel AISI 316 L
TAIL SHAFT BEARINGS	Thordon SXL
GEARBOXES / RATIO	DMT-144 / 3,43:1
PROPELLER	2 unit, 4 fixed Blades 1,050 mm diameter
ENGINE CONTROL	Doosan
RUDDERS	2x double plate high performance
STEERING GEAR	Powered hydraulic 2x35° + rudder indicators

MOORING & TOWING SYSTEM	
ANCHOR WINCH	Electrically driven 24V
TOWING HOOK	Authomatic 15 SWL

AUXILIARY EQUIPMENT	
BATTERY SET	2x 12V 180 Ah.
GENERATOR	1x Nanni 10 KVA with alternator Leroy Somer 175 alternator
BILGE / FIRE FIGHTING PUMP	Feit 24-1 and Feit 23-2, 14 m³/h
ENGINE ROOM VENTILATION	Electro fan 2x8,000 m³/h
FIRE EXTINGUISHERS	5x6 kg dry powder

COMMUNICATION & NAVIGATION SYSTEM	
SEARCHLIGHT	1X150W
MAGNETIC COMPASS	Ritchie B-81-WM
AIS	ICOM MA500TR
ECHO SOUNDER	FURUNO FCV627
VHF GMDSS	Entel HT 649
VHF RADIO TELEPHONE	2x ICOM ICM323
FLOODLIGHT	1x 150W on aft deck and 1x150W on fore deck

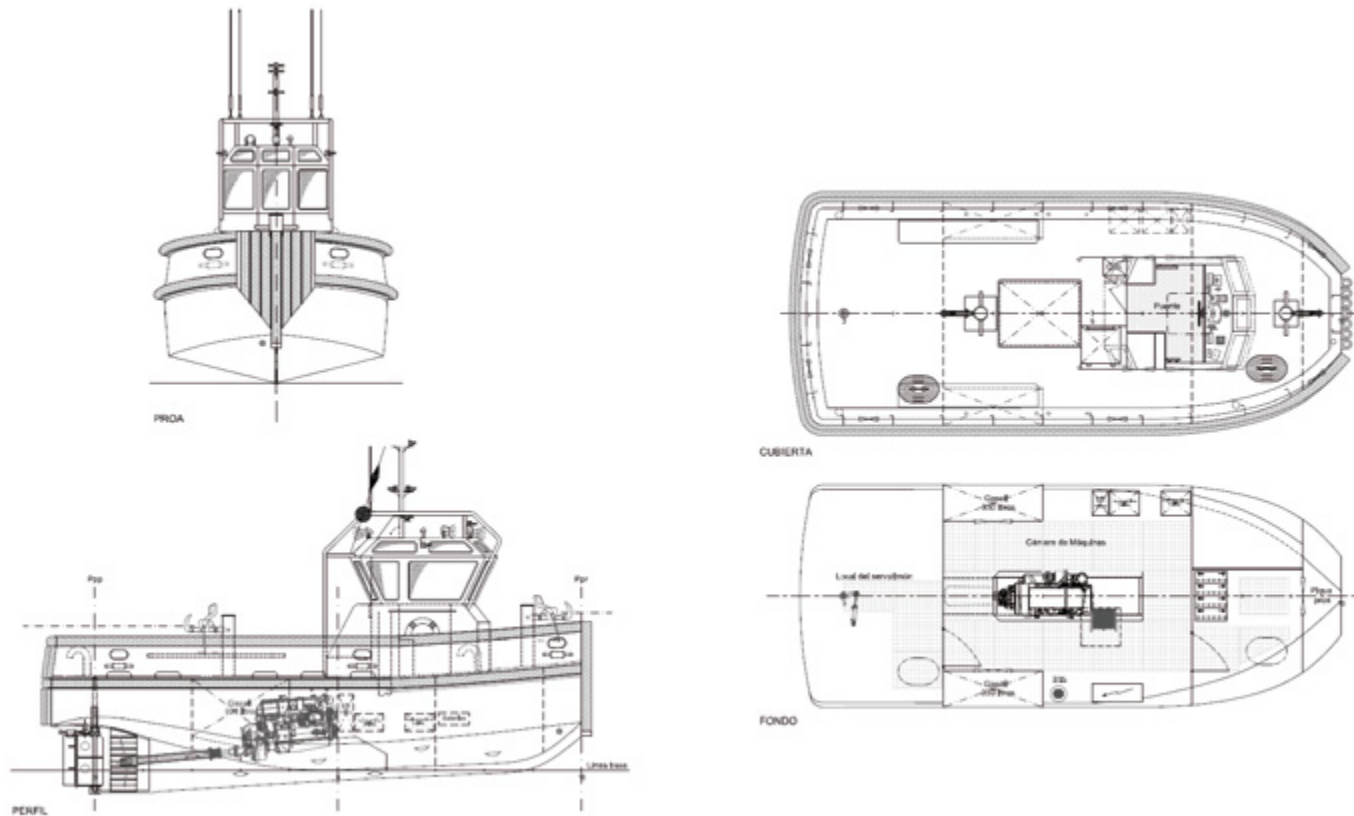


HARBOUR TUG TM-024-02

MAIN CHARACTERISTICS HARBOUR TUG TM-024-02

L.O.A.	8,7 m
BOLLARD PULL	2.05 ton
POWER	1x230 hp at 2,200 rpm
BREADTH OVER ALL	3,6 m
DRAUGHT	1 m
SPEED	8 knots
FULL DISPLACEMENT	± 18 ton
CLASS	S
BEAM	3,6 m

TECHNICAL SPECIFICATIONS HARBOUR TUG TM-024-02



GENERAL DATA TM-024-02

CHARACTERISTICS

BASIC FUNCTIONS

Towing and mooring operations
Passenger capacity 12 pax Deck cargo 1 ton

CLASSIFICATION NOTES

SPANISH FLAG	Grupo III, Class S
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PERFORMANCES

BOLLARD PULL	2,05 Tn
SPEED	8 Knots

STEERING SYSTEM

RUDDER BLADE	1 x high performance rudder Blade with flap
RUDDER SHAFT	Stainless Steel AISI 316 L
RUDDER BEARINGS	Thordon SXL

TANK CAPACITIES

DIESEL OIL	1,2 m ³
OIL	60 ltrs
BILGE TANK	60 ltrs

MAIN DIMENSIONS

TM-024-02

L.O.A.	8,7 m
LBP	8,35 m
BEAM (INCL.FENDERS)	3,6 m
DEPTH	1,5 m
DRAUGHT	1 m
DISPLACEMENT	18 ton

ACCOMODATION

The wheelhouse are completely insulated and finished with durable modern linings and composite synthetic floor.

GENERAL DATA TM-024-02

PROPULSION SYSTEM	
M.E. MAKER	DoosanIntracore Co.
MODEL	L-136 TI
TOTAL POWER	1x 230 hp at 2,200 rpm
TAIL SHAFT	Stainless Steel AISI 316L
TAIL SHAFT BEARINGS	Thordon SXL
GEARBOXES / RATIO	DMT-110 / 3,19:1
PROPELLERS	1 unit, 4 fixed Blades 840 mm diameter
ENGINE CONTROL	Doosan
RUDDERS	1 double plate high performance
Steering Gear	Powered hydraulic 35° + rudder indicators

MOORING & TOWING SYSTEM	
ANCHOR WINCH	Electrically driven 24V
TOWING HOOK	Manual DGMM approved

AUXILIARY EQUIPMENT	
BATTERY SETS	2x 24V 230 Ah.
GENERATOR	1x Driven Generator PRESTOLITE 175
BILGE / FIRE FIGHTING PUMP	1x Engine driven JABSCO 51200, 12 m³/h with manual clutch
ENGINE ROOM VENTILATION	Creixenti electro fan 6,000 m³/h
FIRE EXTINGUISHERS	2x5 Kg CO2 and 5x6 dry powder

COMMUNICATION & NAVIGATION SYSTEM	
SEARCHLIGHT	2X150W
MAGNETIC COMPASS	Ritchie B-81-WM
AIS	ICOM MA500TR
ECHO SOUNDER	FURUNO FCV627
VHF GMDSS	Entel HT 649
VHF RADIO TELEPHONE	2x ICOM ICM323
FLOODLIGHT	2x150W on aft deck and 1x150W on fore deck

GENERAL DATA TM-024-02

CHARACTERISTICS

BASIC FUNCTIONS

Towing and mooring operations

CLASSIFICATION /APPROVAL BY

DGMM

PERFORMANCES

BOLLARD PULL	2,05 Ton
SPEED	8 Knots

TANK CAPACITIES

DIESEL OIL	1,2 m ³
OIL	60 ltrs
BILGE TANK	60 ltrs

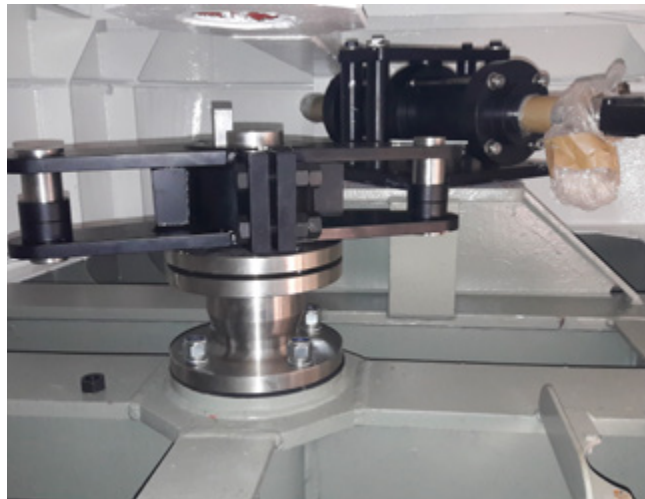
DIMENSIONS

L.O.A.	8,7 m
BEAM (INCL.FENDERS)	3,6 m
DRAUGHT	1 m
DISPLACEMENT	18 Ton

HARBOUR TUG TM-036-08



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OTHER CONSTRUCTIONS



HARBOUR TUG TM-036-08

OBELIX



HARBOUR TUG TM-036-08

ASTERIX



OIL TANKER TM-083-23

OIL TANKER



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