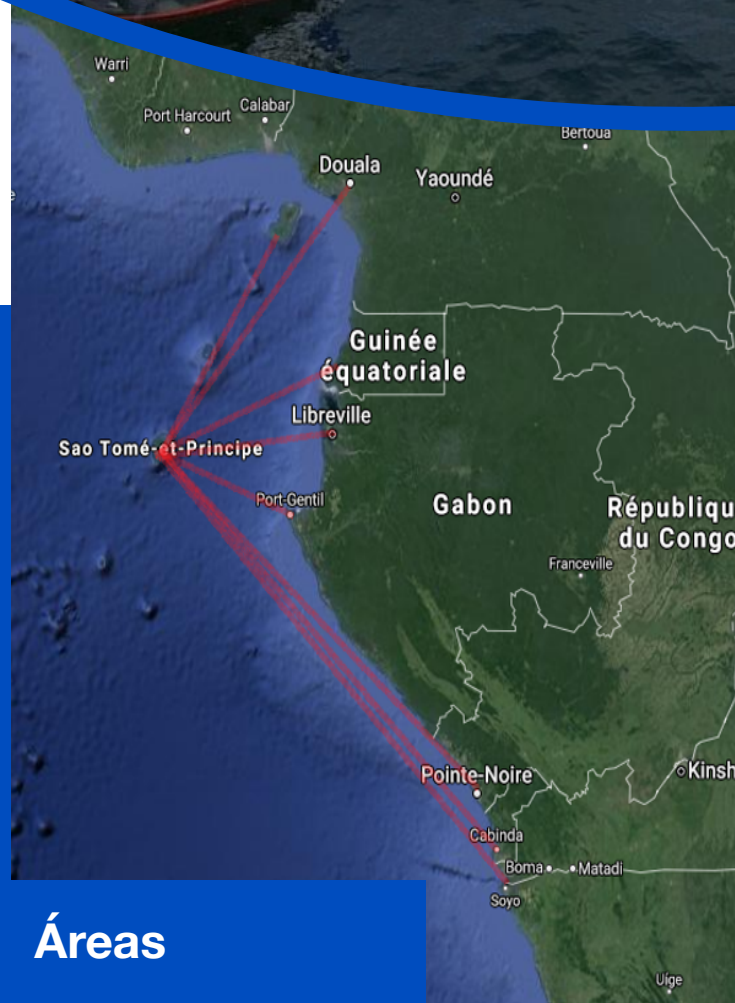
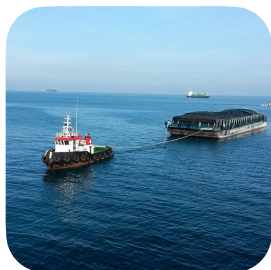


É uma empresa especializada em transporte rio e fretamento no Golfo de Guiné. Composto por uma equipe de profissionais ao seu serviço. Oferecemos a você uma solução adaptada e sob medida para cada tipo de operação.

## Serviços :

- Transporte marítimo no Golfo da Guiné
- Afretamento: Rebocadores e barcas
- Reboque e assistência
- Transbordo



## Clientes e parceiros :

Apoiar fabricantes e atores envolvidos em projetos como:

- Construção e edificações: transporte de materiais no local
- Exploração de matérias-primas: Assistência ao petróleo, silvicultura e mineração
- Operações
- Plantio: Transporte de frutas e hortaliças
- Indústrias de processamento
- Importadores e exportadores da sub-região CEMAC

Para atender às restrições de localização, oferecemos soluções para cada projeto, por viabilidade logística, estudos e planos.

## Áreas

## CONTACTO



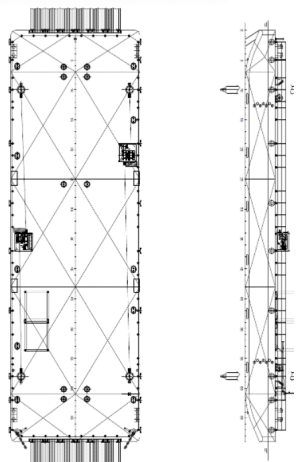
MAC GREGOR MARINE SERVICE - RUA MORTA - Ao lado do BISTP  
SAO TOME - SAO TOME E PRINCIPE



Tel : +239 991 75 86 / +33 749 44 96 19



O email : [info@macgregor-ms.com](mailto:info@macgregor-ms.com)



## GENERAL

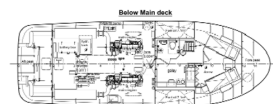
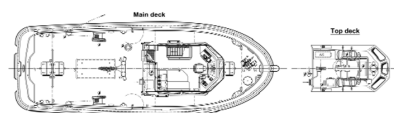
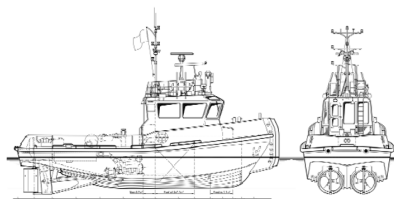
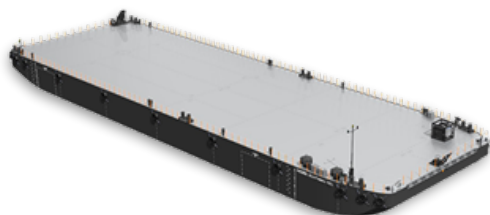
Typical applications: Deck Cargo, RoRo Cargo  
Typical area of operation: Deep Sea, Coastal waters, Harbours, Inland water  
Classification Lloyd's Register ✱100 AT, Pontoon, Strengthened for deck load of 10 ton/m<sup>2</sup>, Bottom Strengthened for Loading and Unloading Aground, ✱IWS  
Flag St. Vincent and the Grenadines

## DIMENSIONS

Length moulded 41.40 m  
Beam moulded 13.00 m  
Depth moulded 3,00 m  
Draught max. 2,37 m  
Free deck space 530 m<sup>2</sup>  
Deadweight max. 965 ton

## CAPACITIES

Deck load 10 ton/m<sup>2</sup>  
Deck thickness 12 mm extra heavy deck  
Void spaces 10 pcs., 1.500 m<sup>3</sup>  
Ramp panels 1,5 meter width and 8 meter length  
Railing Removable stanchions with wire guard rails



Basic functions Towing and mooring, pushing and survey operations  
Classification Bureau Veritas  
I ✱ HULL • MACH Tug Coastal area incl.tonnage certificate  
Painting: Epoxy paint system

## DIMENSIONS

Length overall 16.76 m  
Beam overall 5.94 m Depth at sides 2.54 m  
Draught aft (approx.) 2.25 m  
Displacement:90 t  
Scantlings Sides and bottom 10 mm, Sheerstrake 20 mm

## TANK CAPACITIES

Fuel oil 14.2 m<sup>3</sup>  
Fresh water 1.1 m<sup>3</sup>  
Sewage 0.7 m<sup>3</sup>  
Bilge water 0.5 m<sup>3</sup>

## PERFORMANCES

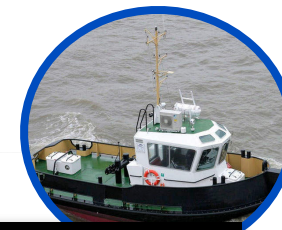
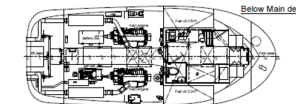
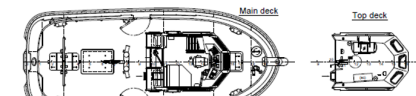
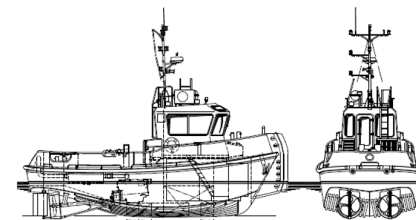
Bollard pull ahead 16 tSpeed 11.0 kn

## PROPULSION SYSTEM

Main engines 2xCaterpillar C18 TA/A / Total power 894 bkW (1216 bhp) at 1800 rpm  
Gearboxes 2x Reintjes WAF 264L 4.5:1  
Propellers 2x Kaplan II Fixed pitch  
Nozzles 2x 1350 mm Van de Giessen 'Optima' with stainless steel innerrings  
Rudders 2x streamlined double plate  
Steering gear Powered-hydraulic 2x 50° + rudder indicator

## NAUTICAL AND COMMUNICATION EQUIPMENT

Searchlight Pesch 250W  
Horn: Electric Ebuki E90  
Ø Radar Furuno FR-8065  
Compass Cassens & Plath type Kotter  
GPS Furuno GP-32  
Echosounder Furuno LS-6100  
VHF radio telephone Sailor Compact 6248, 25 W  
Navigation lights Navigation lights incl. towing and side lights Floodlight 150 W on aft deck



Basic functions Towing and mooring operations  
Classification Bureau Veritas  
I ✱ HULL • MACH Seagoing Launch / Painting Epoxy paint system

## DIMENSIONS

Length overall 13.08 m  
Beam overall 5.28 m  
Depth at sides 2.30 m  
Draught aft (approx.) 1.80 m  
Displacement (98% consumables)58 t  
Scantlings Sides and bottom 10 mm, Sheerstrake 15 mm

## TANK CAPACITIES

Fuel oil 5.80 m<sup>3</sup>  
Fresh water 0.35 m<sup>3</sup>  
Sewage 0.33 m<sup>3</sup> B  
ilge water 0.30 m<sup>3</sup>

## PERFORMANCES

Bollard pull 8.3 t  
Speed 8.8 kn

## PROPULSION SYSTEM

Main engines 2x Volvo D9 MH / Total power 442 bkW (600 bhp) at 1800 rpm  
Gearboxes Twin Disc MG 5091 / 3.82:1  
Propellers 2x Kaplan fixed pitch, 1050 mm diameter  
Nozzles 2x Van de Giessen 'Optima' with stainless steel innerrings  
Engine control Volvo EVC  
Rudders 2x double plate high performance  
Steering gear Powered-hydraulic 2x 50° + rudder indicator

## NAUTICAL AND COMMUNICATION EQUIPMENT

Searchlight Den Haan 250 W, 24 V  
Ø Radar Furuno FR-1835  
Compass fluxgate Cassens & Plath  
GPS Furuno GP-32  
Echosounder Furuno LS-6100  
VHF radio telephone Sailor Compact 6248, 25 W  
Navigation lights Navigation lights incl. towing and side lights Floodlight 150 W on aft deck