

## C.S. Sovereign



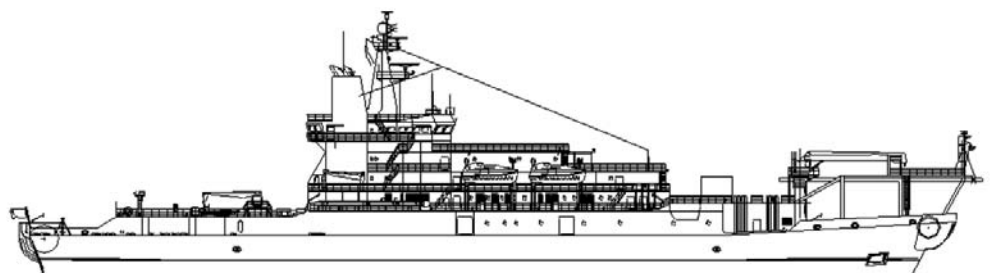
CS Sovereign is a class DP2 vessel capable of undertaking Subsea cable installation and repair projects. Equipped with powerful trenching/work class ROV and a 35 tonne A-frame, the vessel can be utilised for a wide range of Subsea tasks.

### Head Office

Global Marine Systems  
Limited  
New Saxon House  
1 Winsford Way  
Boreham Interchange  
Chelmsford  
Essex CM2 5PD  
England

Tel: +44 (0)1245 702000

Fax: +44 (0)1245 702210





## C.S. Sovereign

### Propulsion and Electric Power Generation

#### 6.6 KV Generating Sets

|                                       |  |
|---------------------------------------|--|
| For Propulsion & services comprising: | 2 x Stork Wartsila SW280 12 Cylinder 3.1 MWE at 750 RPM each |
|                                       | 2 x Brush Alternators 3.8 MVA @ 6.6 KV each                  |
|                                       | 1 x Stork Wartsila SW280 16 Cylinder 4.2 MWE at 750 RPM each |
|                                       | 1 x Brush Alternator 5.1 MVA @ 6.6 KV                        |

#### Auxilliary Generator

|                       |   |
|-----------------------|---|
| For Harbour use only: | 1 x Stork Wartsila FHD 240 G 6 Cyl 0.75MW at 750RPM |
|-----------------------|---|

#### Thrusters

|                          |   |
|--------------------------|---|
| Bow Thrusters:           | 2 x Ulstien Type 375 TV-C, variable pitch (Motor output each 1.0 MW) Max Lateral Bow Thrust 2 x 14 tonnes |
| Azimuth Stern Thrusters: | 2 x Lipps Type S2514 LSCP 360° azimuth thrusters each with a nozzle                                       |

#### Fuel Consumptions

95% max capacity, 1108 Tonnes Marine Gas Oil (Max Lift, No reserve allowed)

### Capacity and Equipment

#### Cable Tanks

|                        |                              |
|------------------------|------------------------------|
| Main Cable Tanks:      | 2                            |
| Internal Diameter:     | 17.00m                       |
| Cone Outer Diameter:   | 3.00m                        |
| Tank Height:           | 8.00m                        |
| Cone Height:           | 6.5m                         |
| Maximum Load per Tank: | Equating to 2668 tonnes each |
| Tank Top Loading:      | 15 tonnes/sq m               |
| Volume of Cable Tanks: | 1327 cubic metres            |

#### Wing Tanks

|                        |                             |
|------------------------|-----------------------------|
| Main Wing Tanks:       | 2                           |
| Internal Diameter:     | 6.60m                       |
| Cone Outer Diameter:   | 2.45m                       |
| Tank Height:           | 8.00m                       |
| Cone Height:           | 6.60m                       |
| Maximum Load per Tank: | Equating to 432 tonnes each |
| Tank Top Loading:      | 15 tonnes/ sq m             |
| Volume of Wing Tanks:  | 199 cubic metres            |

#### Cable Machinery

|                    |   |
|--------------------|---|
| Forward Machinery: | 2 x Hydraulic Powered Drums & 4 Wheel Pair Haul-off gear. |
| Drum Diameter:     | 3.50m   |
| Drum Speed:        | 12.6km/hr @ 25kN  |
| Pull Load:         | 400kN @ 2.5km/hr  |
| Haul-off Gear:     | 4 Pair Opposed Wheel unit. Variable tension 0 to 4 tonnes |

#### Cable Transporters:

|   |
|---|
| 1 x Hyrdraulic Powered 2 Wheel Pairs - 2 tonne pull |
| 1 x Hydraulic Powered single Pair                   |

#### Aft Machinery:

|  |  |
|--|--|
| 1 Hydraulic Powered Drum & 6 Wheel Pair Haul-off gear. |  |
| Drum Diameter:   | 4.00m  |
| Drum Speed:  | 14.4km/hr @ 20kN   |
| Pull Load:   | 200kN @5.4km/hr  |
| Haul-off Gear:   | Electrically Powered 6 Pair Vertical Wheel unit. Variable Tension 0 to 4 tonnes. |
| Auxilliary Haul-off gear:                              | Dowty 2 Pair Vertical, Hydraulic Powered machine 1.5 tonne pull.                 |

#### Repeater Stowage 90 with Portable Stacking

#### Deck Equipment

|                 |   |
|-----------------|---|
| A Frame:        | 35 tonnes   |
| ROV SWL:        | 1 x Fassi Retractable Crane. 1.0 tonnes @ 10.10m<br>5.57 tonnes @ 2.54m |
| Forward Cranes: | 1 x 5 tonne @ 20m<br>2 x 5 tonne Gantry Hoists                          |
| Aft Cranes:     | 2 x 2 tonne @ 6m  |
| ROV:            | Powerful Trenching/ World class Atlas 1 permanently mobilised           |

#### Head Office

Global Marine Systems  
Limited  
New Saxon House  
1 Winsford Way  
Boreham Interchange  
Chelmsford  
Essex CM2 5PD  
England

Tel: +44 (0)1245 702000

Fax: +44 (0)1245 702210

# C.S. Sovereign

## Particulars

**Endurance** - 30 days at 12 knots

Fresh Water Capacity: 720 tonnes

Fresh Water Usage: Approx. 15  
tonnes/ day

### Speed

Economic Speed: 9@12.5 tonnes/day

Max Speed: 12.5@28 tonnes/day  
Dependent on time  
since last docking

### Accommodation

Total Berths: 76

Officer Cabins: 13

Crew Cabins: 23 x Single,  
19 x Double

Representative Suites: 2

Hospital: 2 Berth Hospital  
(Deck 5)

## Technical and Navigational Info

### Navigational Aids, Radio Equipment & Communications

Radars: 2 x Kelvin Hughes Nucleus 6000A 'X'&'S' Band  
Interchangeable

Navigation Receivers: 2 x Leica Mk412 DGPS  
1 x Racal Skyfix Decoder 90938  
2 x JAVAD dual GPS GLONASS DGPS RxS

Gyro Compasses: 2 x Sperry SR-220  
1 x Sperry Navigat X Mk2

Echo Sounder: 1 x Marconi International Marine Seachart 3  
(0 - 1200 Metres)  
1 x Honeywell Elac LAZ 4400 (0-15000 metres)  
with wide beam transducer

DP Vertical Reference Units: 2 x units

DP Acoustic Reference System: 1 x Sonardyne System

DPTaut Wire Reference System: 2 x CEGELEC units - max operating depth approx.  
300metres

DP Artemis Reference System: 1 x Artemis Mk 4 - ships station only.

Cyscan Reference System: 1 x Cyscan short range ref system (hired in)  
(mobilised as required)

NavTex: 1 x ICS Nav 5 NAVTEX

Satcom: 1 x SAT C  
2 x SATCOM B  
1 x SEA-TEL KU BAND VSAT

### Head Office

Global Marine Systems  
Limited  
New Saxon House  
1 Winsford Way  
Boreham Interchange  
Chelmsford  
Essex CM2 5PD  
England

Tel: +44 (0)1245 702000

Fax: +44 (0)1245 702210

# C.S. Sovereign

## General Dimensions and Particulars

|                               |  |
|-------------------------------|--|
| Type of Ship                  | Cable Ship   |
| Builders                      | Van de Geiessen-de Noordm, Netherlands   |
| IMO Number                    | 8918629  |
| ABS I.D.                      | 91143143   |
| Call Sign                     | MNNU8  |
| Port of Registry              | Southampton (British)  |
| Length Overall                | 130.70 metres (inc. gantry)  |
| Length Between Perpendiculars | 116.68 metres  |
| Breadth Moulded               | 21.00 metres   |
| Depth Moulded (to Deck 4)     | 13.00 metres   |
| Designed Draft                | 7.014 metres   |
| Deadweight                    | 7417 tonnes  |
| Summer Draft                  | 2.508 metres   |
| Gross Registered Tonnage      | 11242 tonnes   |
| Net Registered Tonnage        | 3372 tonnes  |
| Suez Tonnage                  | 12121.25 tonnes  |
| Panama Tonnage                | 12034.94 tonnes  |
| Classifications:              | ABS Ice Class 1C 14445 kw,AMS, ACCU, DPS2, Certification of Financial responsibility - Water Pollution |

Fitted with 'Navigator' survey spread for instant & accurate position referencing and post processing capability to meet all clients needs.



All performance figures quoted are nominal, actual performance is dependent on environmental conditions prevailing at the time of operations.

© Copyright

### Head Office

Global Marine Systems  
Limited  
New Saxon House  
1 Winsford Way  
Boreham Interchange  
Chelmsford  
Essex CM2 5PD  
England

**Tel:** +44 (0)1245 702000

**Fax:** +44 (0)1245 702210