

# **Songa Offshore** AS



## **Songa Mercur**

**Semi-Submersible**

**Rig and Equipment Overview**

The SONGA MERCUR is F&G 9500 design semisubmersible drilling unit, capable of operating in water depths up to 1,200 feet using a 18-3/4" x 15 ksi BOP with 21" OD riser.

### General

**Rig:** SONGA MERCUR  
**Flag:** Marshall island  
**Owner:** Songa Offshore AS  
**Previous names:** IPC "La Muralla-1", Shelf 10  
**Year Built:** 1989  
**Year Upgraded:** 1999 and 2006/07  
**Design:** Friede & Goldman 9500  
**Builder:** Vybord Shipyard JSC  
**Classification:** DNV

### Main Dimensions/Draft/Displacement

**Length:** 322'  
**Breadth:** 323.8' - 235' including anchor racks.  
**Depth:** 80.5'  
**Columns:** 6 ea with 32.2' diameter  
**Pontoons:** 302' x 49.3' x 19.7'  
**Operating Draft:** 47'  
**Ocean Transit draft:** 18.4'  
**Storm Draft:** 39.4'  
**Operating Disp:** 19,980  
**Ocean Transit Disp:** 14,542 tons

### Machinery

**Main Power:** 5 generators: 3 ea Cat 3606 (1820kw) 1 ea Cat 3606 (1515 kw) 1 ea Cat 3512 (965kw)  
**Power Dist.:** Ross Hill SCR 8 model 1860  
**Emerg. Power:** 1 x Cat 3512 with generator model SR4B 760kw 50 Hz 1,500 rpm  
**Propulsion:** NA  
**Cranage:** 2 x KEG63028 hydraulic cranes rated at 63 tons @ 10-12m radius and 1 Sea Lion rated at 44 tons @ 10-20m radius

### Operating Parameters

**Max Water Depth:** 1200'  
**Max Drilling Depth:** 25,000'  
**Transit Speed:** avg 4 knots wet tow, weather dependent.  
**Operating Conditions:** Hs=5m / W=50kts / C=1.6kts  
**Storm Conditions:** Hs=10m / W=70kts / C=2.5kt  
**Design Conditions:** Hs=16m / W=100kts / C=2.5kts

### Drilling Equipment

**Derrick:** Uralmash 46'-7" x 55'-2" X 183' high, static hook load: 1200 kips with 14 lines  
**Drawworks:** National 1625-DE with 3 GE-752, 3,000hp  
**Rotary:** National 495 "C" 49-1/2" opg, Varco MPCH  
**Top Drive:** Tesco ECI 650 tons, 900 hp MD 500 drive  
**Traveling Block:** Emsco RA-60-7, 650 ton  
**Hook:** N/A  
**Swivel:** National P-650 rated for 650 tons  
**Drillpipe:** 5-1/2" 21.90 lb/ft, grade S-135, HT55,  
**Drill Collars:** 9 1/2", 8 1/4", 6 1/2"  
**Pipe Handling:** Maritime Hydraulic 2 arm system  
**Motion Compensator:** Rucker drill string motion Compensator, 400,000 lbs compensated hook capacity

### Capacities

**VDL - Operating:** 2400 tons  
**VDL - Storm:** 2,400 tons  
**VDL - Ocean Transit:** 854 tons  
**Liquid Mud:** 2,720 bbls active and 1,031 bbls reserve  
**Bulk Mud:** 7,400 cuft (Barite & bentonite combined)  
**Bulk Cement:** 3,700 cuft  
**Sack Material:** 6,000 sacks (or equivalent)  
**Drillwater:** 8,617 bbls  
**Potable Water:** 1,500 bbls  
**Fuel Oil:** 5,962 bbls

**Cementing Unit:** Halliburton RCM 111R(Client provided)  
**Mud Pumps:** 3 National 12-P-160, 2 GE752 800hp ea.  
**Shale Shakers:** Scalper: Model Primar 258, Shakers: 3 ea, Derrick FLC 514.  
**Desander:** Derrick: FLC S13/ S14 with 3 1/4" cones.  
**Desilter:** Mud Cleaner: Derrick FLC 2000. w/16 \* 4" cone

### Subsea Systems

**BOP:** 18-3/4" 15,000 psi stack consisting of:  
 2 x Shaffer type "NXT" Doubles,  
 1 x Hydril type GL 10,000 psi Annular  
**LMRP:** Vetco MR6-C Riser Adaptor, Oil States 2.5k Flex Joint, Shaffer dual "SL" 10k annular  
**BOP Handling:** 2 x 63 ton bridge cranes  
**Control System:** Shaffer hydraulic  
**Riser Details:** 21" OD x .625 Wt marine riser with 15 k psi C&K  
**Choke & Kill:** Cameron 15,000 psi, H2S service  
**Diverter:** Regan system 2,000 psi, 2 x 12" lines  
**Riser Tensioners:** 8 EA 80-K, 80,000 lbs capacity  
**Guideline Tensioner:** 6 x 16,000 lbs  
**Pod Tensioner:** 2 x 16,000 lbs  
**TV System:** Kongsberg Simrad sub-sea TV

### Mooring

**Winches:** 4 x double Skagit windlasses  
**Wire/Chain:** 3" K4 chain x 5,000'  
**Anchors:** 8 ea 9 ton Stevpris NG  
**Positioning:** NA

### Other

**Moonpool:** 19 ft x 17.7 ft  
**Helideck:** Certified for Sikorski-61N, CAP 437  
**Accommodations:** 120 persons

These specifications are intended for general reference purposes only as the actual equipment and specifications may vary based upon subsequent changes, the contract situation and customer needs.