

A multi purpose submersible, designed for one atmosphere operations, diver lockout, dry transfer, and submarine rescue (DSRV). This submersible is in excellent condition and dive ready. Suitable for underwater tourism, scientific research, search and salvage, and a range of military tasks.

Statistics:

Operating Depth: 1200ft (400m). Crew: six (normal), six (diver lockout operations), twenty-two (DSRV operations). Weight: 22 tons. One large front viewport, one large aft viewport, four tower viewports, one lower viewport. Fitted with external lighting, sonar system, acoustic tracking, communications, manipulator arm, and hydraulic cable cutter.

The DSRV-TAURUS was designed and built to conduct a wide range of underwater tasks, and submarine rescue operations worldwide. This superb deep diving submersible offers a number of unique features.

ONE ATMOSPHERE OPERATIONS

DRY TRANSFER

DIVER LOCKOUT

TWO-TON PAYLOAD

1200FT (400m) WORKING DEPTH

SUBMARINE CREW RESCUE

This submarine was constructed in Canada, by Hyco International, one of the world's leading submarine manufacturers. Following successful diving and certification trials the submarine then supported scientific, commercial and Royal Navy subsea operations offshore Europe, and America. During this initial period DSRV-TAURUS completed 165 dives, supporting a wide range of underwater operations.

Missions included scientific research dives for the University of Southern California. Salvage, inspection, one atmosphere intervention, and diver-lockout operations, to 450ft (150m) in support of subsea construction (North Sea). Dry transfer trials, in support of a subsea manned intervention programme. This programme included thirty dry transfer dives to mate with a test-cap. Eight of these dry transfer missions achieved a successful mate at 1005ft (314m)

Submarine rescue trials and exercises with the Royal Navy. DSRV-TAURUS mated with an "Oberon" Class submarine offshore Kyle, Scotland (zero degree mate). Also completed a number of mates with a simulated target, one of which was at 45-degrees. The exercises were a great success. It should be noted that the use of a 15-degree adaptor wedge (fitted to the DSRV-TAURUS mating skirt) permits a 60-degree dry transfer intervention during a submarine rescue mission.

Following the successful completion of these diving programmes, TAURUS spent a period of inactivity (at a facility in Scotland). Subsequently the submersible was purchased, and refitted by Silvercrest Submarines (a British Company that specialises in deep diving submersible operations worldwide). During the last two years TAURUS has completed a further thousand deep dives. Scientific research, educational tourism in Loch Ness (Scotland), underwater filming in support of documentary and television projects. Navy trials, as part of the current submarine rescue programme. Search and Salvage. Subsea inspections. Scientific Research in the Caribbean and trials and training dives off Southern Africa.

# Specifications

1. Weight 22 tons
2. Length 34 feet
3. Beam 13 feet (reducing to 9 feet)
4. Height 12 feet (reducing to 9 feet)
5. Operating depth 1200 feet (400m)
6. Speed 3 knots maximum
7. Payload 4,000 lbs
8. Crew one pilot + five passengers (one atmosphere operations)
9. Three crew + three divers (diver lockout operations)
10. Two crew + twenty passengers (dsrv operations)
11. Viewing one 36 inch front viewport
12. One 36-inch aft viewport
13. Five conning tower viewports
14. One lower viewport
15. Lighting 6 x 500w external lights (forward)
16. 2 x 500w external lights (aft)
17. Propulsion 4 x 5hp electric thrusters
18. Power sources electric batteries)
19. 120vdc (950ah), 24vdc (300ah).
20. 12 vdc (inverter)
21. 110vac (inverter)
22. Life support 1008 man hours
23. Oxygen, soda sorb, rations, water
24. Ballast water, air.
25. Gas capacity 12,000cu.ft. Air or mix
26. 6,000 cu.ft. Air
27. Drop weight 1,000 lbs (moveable for trim angle)
28. Safety life support systems to abs, and msa standards
29. Dive duration eight hours (normal)
30. Ninety-six hours minimum (life support).
31. External equipment 1 x seven function manipulator (hydraulic)
32. 1 x hydraulic cable cutter
33. Still/video cameras as required
34. Scientific equipment as required.
35. Navigation sonar, fluxgate compass, magnetic compass, echo sounder,
36. Depth gauges, acoustic tracking, xenon beacon
37. Surface marker buoy
38. Communications vhf (all marine channels),
39. Uqc (10khz, 27khz, 37.5khz).
40. Pinger/receiver
41. Emergency food and water
42. Emergency lighting
43. Emergency breathing system (bibs)
44. Fire extinguishers
45. First aid kit
46. Life jackets

## Include items in 20ft shipping container:

1. Bauer k-15, three phase, 3000psi hp air compressor
2. 24vdc submarine battery charger. La marche 24vdc/45amp three phase
3. 24vdc submarine battery charger. Oldham/rd 24vdc/35amp three phase
4. 10vdc submarine battery charger. Rd100 120vdc/135amp three phase
5. 3 x hand held vhf radios
6. Vhf base station
7. Vhf battery charging units
8. Mesotech submarine uqc underwater communication surface unit with transducer
9. Assorted ropes and cordage
10. Assorted wire strops and shackles
11. Submarine oxygen charging whip (synflex)
12. Acrylic domed viewpoint 36 inch
13. 2 x flat viewports 30 inch
14. 3 x steel hatches
15. Spare grp battery boxes and lids
16. Heavy duty front crash-bar (taurus)
17. Oil absorbent matting
18. 20 x drums sodasorb
19. 1 x drum helkama cable
20. 1 x coil heavy duty surface comms cable
21. 1 x heavy duty battery oil hand pump
22. Manuals, drawings and schematics (taurus)
23. Container taurus penetrators and cables
24. 2 x 110vac oil pumps
25. Container taurus cables
26. 1 x inverter
27. Spare parts unit for 24vdc la marche battery charger
28. 1 x 50ton shift shackle (taurus)
29. Container hydraulic fittings (taurus)
30. Container personal life jacket
31. Assorted stainless steel tubing
32. Sperry gyro system
33. Container hull penetrators (taurus)
34. Spare hard ballast sphere
35. Assorted (al and ss) parts and pods
36. Dloc skirt lift frame
37. Lp air grinder tool
38. Assorted frame parts (taurus)
39. Hydraulic pump test unit
40. Electrical control boxes, spare parts
41. Container battery fittings
42. Wesmar sonar spares
43. Spare grp wing (taurus)
44. 2 x 45gallon drums battery oil
45. 1 x battery birdcage
46. 120vdc submarine battery charging cables
47. 24vdc submarine battery charging cables
48. 2 x hymac thrusters unit (taurus)
49. 1 x drum magna2 oil
50. 1 x drum hyspin aws15 oil
51. 1 x drum hp compressor oil

52. Grimsby buoys
53. Assorted oils and greases
54. Container ss nuts and bolts
55. 25 x bins assorted submarine consumables
56. Heavy duty work bench
57. Three phase power distribution panel
58. Surface power cable
59. Container pressure gauge
60. Spare underwater lights
61. Container thrusters spare parts
62. Assorted compensation bags
63. Synflex pressure hoses
64. Container hydraulic pipe fittings
65. Hard ballast system spare parts
66. 1 x 5hp ird motor 120vdc
67. Container external cables
68. Container external pens and cables
69. 2 x emergency marker buoys
70. 1 x ss coiling coil
71. Spare scrubber motors
72. First aid kit
73. Submarine work ladder
74. Power supply 24vdc/240vac
75. Container e.o's
76. Container cannon connectors
77. Spare kort nozzle
78. Container electrical spares (taurus)
79. 20 x lead weights
80. 5 x 2.2vdc battery cells (taurus)
81. 3 x survival suites
82. 8 x drums diala.b oil
83. 1 x heavy duty vice
84. 3 x buckets
85. 2 x coils electrical cable
86. 20 x O2 ss whips
87. Whitey valve and fittings
88. Container electrical crimps
89. 24vdc/12vdc/6amp converter
90. Container circuit boards
91. Anderson connectors
92. O2 gauges
93. Container 125a/100a/25a heavy duty fuses
94. Container meters and breakers
95. 1 x drum coax
96. Charging breaker
97. Multiway penetrator
98. 2 x surface blower fans
99. 316 ss tubing

**Taurus submarine and container situated in Strand, Western Cape**

*34°08'37.2"S 18°54'17.5"E*

*-34.143670, 18.904862*