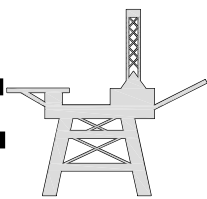
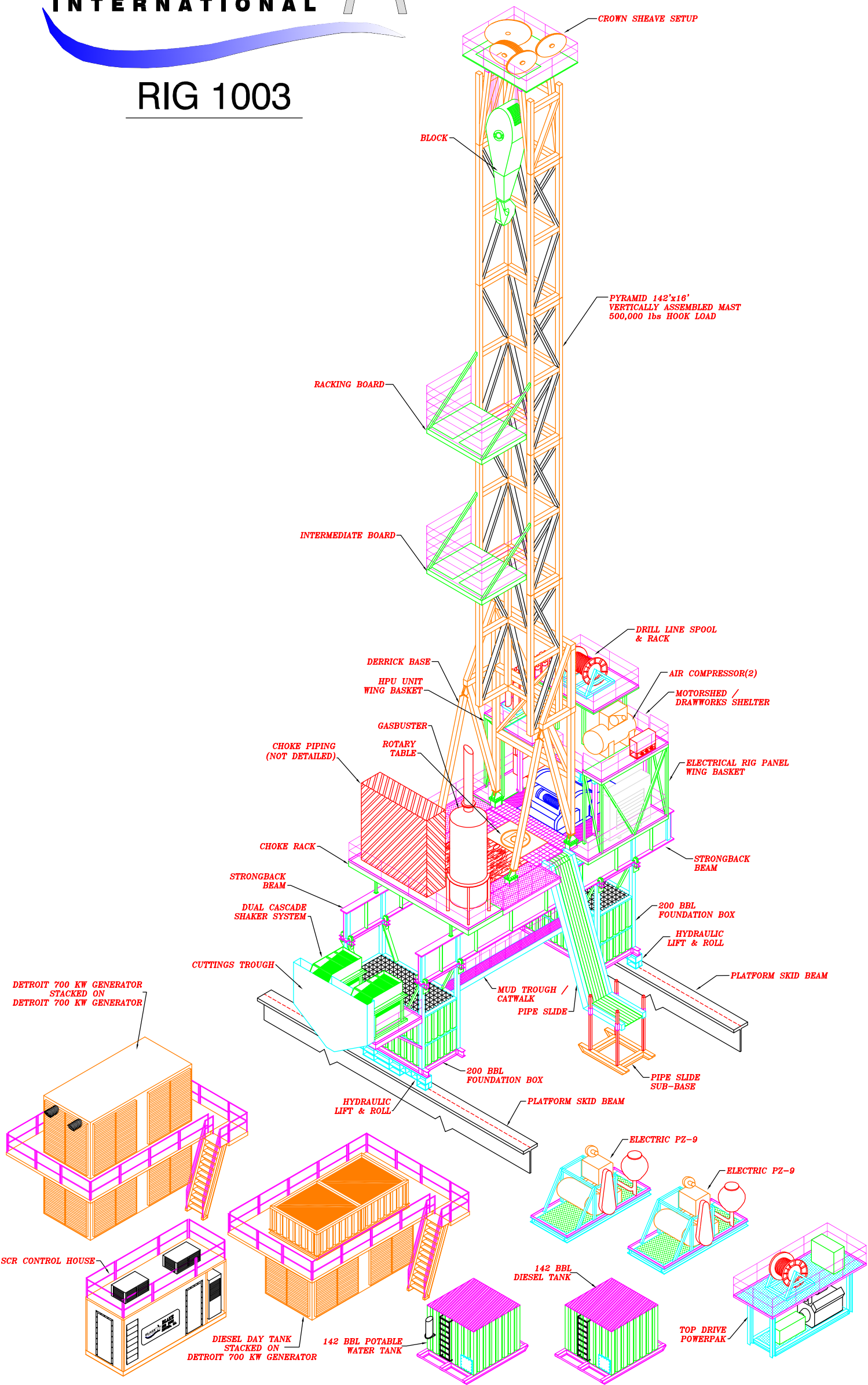


# BLAKE INTERNATIONAL



## RIG 1003





## Blake 1003E

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### BASIC EQUIPMENT INVENTORY

#### Mast and Superstructure

##### Assembly:

1. Pyramid 142'x16' "free standing" triples bootstrap mast with a static hook load of 500,000 pounds with 10 lines. Maximum wind load 115 MPH, no setback and 100 MPH rated setback of 17,950' 4-1/2" drill pipe, 14,480' 5" drill pipe and 4 stands 8-1/2" drill collars.
2. Air operated adjustable casing stabbing board, dual 4-1/2" O.D. 10M test 5M working stand pipe.

#### Master Skid and Substructure:

1. Mast and drawworks skid, 18' x 36" to accommodate a Pyramid 142' telescoping mast and 1000 H.P. drawworks with two (2) motor drive (electric).
2. Box girders 62'x5'4".
3. Dual purpose substructure supports (7-compartments):
  - a. 20' x 8' x 17' 200 Bbl. 4 compartment active tank.
  - b. 20' x 8' x 17' 200 Bbl. 3 compartment shaker tank.
4. Split Master Skid with hyd. Jacks and skid pipes (skid top section)
5. Hydraulic rig mover jacks and mats to skid total rig package under support boxes.
6. Motorshed (drawworks roof) with built in brake water tank, hydraulic drill line rack with 1-1/4" plastic coat drill line, drill line anchor and air compressor skid.
7. Wing basket (off drillers side) with air purged motor control panel (MCC) 400 gal. hydraulic power unit (HPU).
8. Wing basket (drillers side), 160 gal. accumulator, 7 station with bottle skid and nitrogen back up.

#### Drawworks and Prime

##### Mover Assembly:

1. 1000 HP Partech OIME SL-5 electric drawworks with high/low drum clutch.
2. Parmac 342 brake installed on drawworks with over riding clutch.
3. Cardwell (hydrocat) hydraulic breakout cathead with air controls (over hyd.) mounted in derrick base.
4. Cardwell (hydrocat) hydraulic makeup cathead with air controls (over hyd.) mounted in derrick base.
5. Duramatic crown/floor protector, installed on drawworks.
6. Lebus grooving, split sleeves for 1-1/4" drill line.



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7. Two (2) G.E. 752 traction motors 1000 HP (electric), factory frame (series) winding.
8. Partech - 2 speed transmission on top Partech right angle drive, coupled with Faulk 1050 couplings to traction motors (1000 HP).
  - a. Right angle drive with air brakes and torque tube to drive rotary table.
  - b. One (1) elect. driven drawworks oiler pump with all stainless steel piping on air lines.
  - c. One (1) 3 x 2 mission magnum centrifugal pump for hydromatic brake cooling system.
  - d. Oil lubricating system with heat exchange.

### Rotary Table and Associated Equipment:

1. Oilwell 3750 (37-1/2") rotary table with master bushing locks. Rated 600-tons dead weight capacity, maximum speed, 350 rpms.
2. Continental Emsco LB-400 Ton with 6-5/8" API regular left hand pin down substitute and link bumper, 260 ton capacity at 100 rpm. 400 Ton working load 5000 psi rating wd.
3. Continental Emsco RA 44-5 350 Ton Block, with five (5) 42" diameter fabricated steel sheaves grooved for 1-1/4" drill line, 8" diameter coaster pin with 350 ton Web Wilson Hook (Hydra-Hook).
4. 5-1/4" Hex kelly with 6-5/8" regular API LH box thread 40' long with 4-1/2" XH bottom connection (with pin drive bushing).
5. OMSCO upper kelly valve, 6-5/8" 5,000 lbs. test pressure.
6. Varco kelly (pin drive) bushing complete with assembly for 5-1/4" Hex kelly with guide skirt.
7. Rotary hose, Copper State, 4' x 70' long with 4" API line pipe couplings. (7500 PSI working pressure.)
8. One (1) set Web Wilson bails, 2-3/4" x 108" long, 350-ton or equivalent.
9. One (1) set DU long slips.

### Travel and Associated Equipment:

1. 350 Ton Traveling block with five (5) fabricated steel sheaves, grooved for 1-1/4" drill line.
2. Set of Spinmaster 950H hyd. spinning tongs (for D.P. only)
3. One (1) set Foley type "B" tongs for 4-1/2" Drill Pipe. (With Hyd. Lift Cyclinder.)



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### Pump Units:

1. Gardner-Denver PZ-9: (electric)
  - a. Powered by G.E. 752 traction motor.
2. Gardner-Denver PZ-9: (electric)
  - a. Powered by G.E. 752 traction motor.

### Blowout Preventer Stack:

1. One (1) Hydril GK, 13-5/8" 5,000 PSI working pressure annular preventer with 10,000 flange on bottom.
2. One (1) 13-5/8" Cameron Type "U" double, 10,000 working pressure with 13-5/8" 10,000 working pressure flanges top and bottom, with 4-1/16" 10,000 working pressure flange outlets between rams.
3. One (1) 13-5/8" Cameron type "U" single Ram type preventer, 10,000 working pressure with one (1) 4-1/16" 10,000 working pressure flange outlet.
4. One (1) set of blind shear rams and two (2) sets Variable Bore Rams 2-7/8"-5".
5. 13-5/8" Bell Nipple.
6. Two (2) 4-1/16" Cameron HCR valves rated at 10,000 PSI working pressure.
7. Two (2) 4-1/16" Cameron Type "F" manual valves, rated 10,000 PSI working pressure.

### Blowout Preventer Closing Unit:

1. Skid mounted blowout preventer closing unit (split skid) consisting of 160 gallon (7 station) 3,000 psi accumulator and manifold consisting of six (6) stations complete with (2) remote control station. Air and electric power sources and nitrogen backup system.
2. BOP actuating lines between closing system and BOP stack.

### Choke Manifold:

1. Skid mounted 10m PSI working pressure 3-1/16" choke manifold with 48" gas buster and hydraulic choke.
2. 200' chocksan lines (15,000 test working pressure).

### Tankage (400 Bbl. Surface Volume):

1. Rig Substructure (400 Bbls.) consisting of:
  - a. 1-200 bbl. shaker tank manifolded to degasser, 1-5 h.p. dual blade agitator with shakers. (Operator to furnish screens.)
  - b. 1-200 bbl. active tank with (4) 5 h.p. dual blade agitators.
  - c. 3-50 HP 5" X 6" mission magnum electrical centrifugal pumps with mechanical seals.
  - d. Burgess model 1000 degasser (on shaker tank).
  - e. 2-mud hoppers.



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2. Additional 142 Barrel tanks are available if needed for volume (to be charged back at current rental rates).

### Mud Processing System:

1. Unit has self contained mud system and engineered for excellent mud control.
  - a. 7-tank compartments, sand trap, settling tank, reserve tank, mixing tank, active tank and 2-slug tanks.
  - b. Top equalization between each compartment.
  - c. 48" gas buster with 8" vent and 8" discharges.
  - d. Burgess model 1000 degasser (1000 gpm flow rate) 20 h.p.
  - e. Two (2) Fluid System Model 500/50 linear cascade shakers.

### Accessory Rig Equipment:

1. Generators: 3 - 700KW 600 volt (1) 10' x 20' Generator House, 1-IPS Model 1000 house and gen. day tank and qtrs. panel.
2. Air Compressor for standard rig equipment.  
Quincy Model 390 Air compressors, 20 h.p. motors with 2-400 gal. air receivers.
3. One (1) 142 Bbl. diesel tank and transfer pump.
4. Five (5) station gaitronic communication system.
5. Two (2) 142 Bbl. potable water tank and transfer pump.
6. One (1) sewage unit (Red Fox Model 1500).
7. Two (2) Reda submersible pumps - 30 HP.
8. Drip pans and outlets with lines to operating system.
9. Two (2) skid jacks on strong back beams and 2 rig mover mats.
10. Life jackets and work vests, life rafts, etc. for 40 men accommodations.
11. Standard safety equipment for normal operations.
12. One (1) personnel basket.
13. Gas buster, 48" with 8" vent and discharge
14. Sump tank.
15. Tool House (with rig tools and spare parts).



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### EQUIPMENT TO BE FURNISHED BY OPERATOR:

1. Offshore workover permits.
2. Workover site cleared of obstructions.
3. Marine and air transportation for equipment and supplies to platform within the field as necessary.
4. All marine and air transportation of Contractor's and Operator's Items and personnel between Operator's shore base and rig for crew change, safety personnel and operations personnel.
5. Fuel and water.
6. Weather forecasting and hurricane evacuation plan.
7. All electrical well logging services and unit rental, including string shot and back-off equipment.
8. All third party services including extra labor beyond Contractor labor schedule as previously stated (including third party for platform modifications, crane rig-up and MOB/DEMOB)
9. Operator agrees to rent 10M BOP's, workstring, handling tools and shear ram assembly, as required.
10. Cement, mud and additives.
11. Wellhead connections, if necessary, to permit rig operations on operating deck.
12. Flanged connection from Customer's tree or wellhead to 11" series 1500 flange.
13. Field welder and equipment when required (including third party for platform modifications, crane rig-up and MOB/DEMOB).
14. Operator will allow Toolpusher to phone in hot shot reports daily and the use of a FAX machine.
15. Expendable BOP replacements (including annular BOP elements, ram BOP element and ring gaskets) after initial set.
16. Ring gaskets and handling tool inserts (Operator will furnish or reimburse Contractor after initial sets).
17. Replacement liners for pumps as designed to meet operators hydraulic specifications.



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18. All third party equipment, services and supplies furnished by BLAKE INTERNATIONAL at the request of Operator will be invoiced to Operator at third party published rates plus 10%.
19. Blake International rental equipment will be charged at the published or negotiated price in the contract. If this equipment is down for repairs, this does not go against the stated downtime for the rig and shall be treated as any other third party rental equipment on the rig. Repairs for Blake International rental equipment will be invoiced to the operator at third party rates.
20. Casing, tubing and attachments.
21. Any drill pipe, and drill collars, Kellys or subs in addition to those not furnished by Contractor.
22. Stabilizers, hole openers, reamers and centralizers.
23. Shale shaker screens.
24. Well test unit and associated equipment for production testing.
25. Loading and unloading services at dock site or heliport of all material and equipment of Contractor and Operator.
26. Containers for disposal of refuse and cuttings to transport from offshore location to dock and disposal at dock site.
27. Casing thread dope, thread lock, etc. for Operator's tubulars.
28. Operator to provide pipe wipers.
29. Gaitronics communication system.
30. PVT equipment.