



**CONTRACTOR SERVICES INC**

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Well Servicing / Workover Derrick  
Rigs

Technical Data Sheet

**RIG #6** DICKIRSON/KSM K-550

**FEATURES AND SPECIFICATIONS**

**Mast Rating:** Maximum hook load capacity: 220,000 lbs. with 6 lines, 185,000 lbs. with 4 lines

**Main Drum:** 16" diameter X 36 3/4" long drum. Main drum rims 42" X 10" wide. Drum brake blocks 1" thick X 10" wide X 12" long (330 degrees of wrap). Brake flanges heat treated and hardened, brinell hardness tested, demountable type double-lipped for water splash cooling. Auxiliary 40" air cooled disc brake with air powered brake caliper. Drum shafts are 4140 chrome moly manganese steel, heat-treated, stress relieved, with double row self-aligning spherical roller bearings. Fawick (Eaton Yale) 32" CB525 drum clutch. 1 1/4" pitch triple roller input drive chain, and 2" pitch single roller inner drum drive chain.

**Main Drum Cont.** Chain guards fully enclosed with inspection covers and site glasses. Self-equalizing brake system complete with guards, rollers, springs and adjustable equalizers provide for full release of drawworks brakes with simple adjustment. All bell cranks have grease nipples. Main drum line has Lebus split sleeve grooved for 1" drill line with replaceable wear plates and drill line kickers. Includes one plain steel open side anchor complete with drilling line clamps to be used with deflection type load cell and weight indicator. Right angle drive has high capacity oil bath gears, shafts mounted on heavy-duty bearing, with integral power shaft and tubular housing support with extended shaft for optional rotary drive.



## FEATURES AND SPECIFICATIONS (continued)

**Sandline Drum:** Provisions only, as required for future installation of sand line drum, including brake system and controls.

**Operator Controls:** All Rexroth air controls are centrally located in a panel with hinged door at rear for easy access to valves with a union at the bottom for easy removal to different operating locations. Air is taken from main air distribution block located in panel. All controls are tagged with ID plates.

**Mast Pole:** Telescoping type mast, 104' high when fully extended. Includes: (1) three sheave assembly, 24" diameter, and grooved for 1" line, (2) one sheave assemblies, 24" diameter, grooved for 1" line, and (1) provision for sandline sheave assembly, 20" diameter, and grooved for 9/16" line.

Includes: crown saver assembly, (1) racking board with 10,000 ft tubing capacity, and (1) rod board.

**Power Unit:** Detroit 60 series 6063-HV39 turbo diesel engine, industrial type, rated for 475 hp @ 2,100 rpm. Includes a Bendix Tuflo 750 air compressor.

**Transmission:** Allison CLT5861-5 transmission with TC680 torque converter, and Chelsea 852XBAKPF4XS power take-off unit.

**Hydraulic System:** Commercial P37X378BYJC20-7BIT15-1 hydraulic gear pump 50 gpm and 2,000 psi rated. 150 gallon reservoir. Driven from transmission PTO.

Supplies power for leveling jacks, winch mast hoist, and power tongs.

**Winches:** (2) Braden BG8B34029-01-1 winches

**Rotary Drive:** One KSM heavy-duty torque tube rotary drive with a KSM reversing box, twin disc PO214 clutch and drive line to the rear of the rig with control valve in operator's panel.

**Hydraulic Catworks:** One 60" makeup and one 60" breakout hydraulic catwork cylinder mounted in the mast with hydraulic controls and lineguide rollers.

**Tong Counterweight:** Two tong counterweights mounted in mast.

**Chain Case:** One KSM two shaft oil bath rotary drive chain mounted on carrier with sprockets, flanges, chains, and support equipment.

**Kelly Spinner:** Stand pipes (1" XH SMLS) complete with hosing to control in driller's console. Hoses from gooseneck on top of standpipes to Kelly Spinner not included.

**Stand Pipe and Manifold:** One 3" stand pipe comes complete with gooseneck 5,000 psi working pressure. The stand pipe is clamped to the mast. Includes connection to front of rig at front bumper.

**Units Available:** (1) 2007 Dickirson/KSM 550 RIG #6

