



High G Upgrade Kit



*Upgrade Derrick 3-Panel Shakers
to High G's for Superior Performance*



Derrick Upgrade Kit

Derrick Equipment's relentless commitment to Research and Development has led our engineers to create a simple, bolt-in upgrade kit designed to significantly enhance the performance and simplify the maintenance of Derrick 3-panel shakers.

The Derrick FLC Upgrade Kit offers:

- Quick and easy upgrade to high G's.
- Super G® motors that increase vibratory G force from 4.6 to a continuous 7.0 G's.
- "Greased-for-life" bearing system reduces maintenance requirements.
- Super G motors operate at lower decibel levels (81 dBA) than conventional motors.
- New screen frame designed to accommodate high G force.
- Increased performance.
- Decreased drilling mud and dilution costs.

Quick and Easy Installation

The FLC Upgrade Kit is designed to fit Derrick's full line of FLC Plus, AWD, and 2000™ shakers. The upgrade kit does **NOT** require any cutting, welding, or modification to the existing solids control systems. The existing flow line, back tank, screen underflow sump, discharge piping, and cuttings discharge trough do **NOT** need to be altered. This allows for an easy upgrade to higher G's with minimal down time.

Reinforced Screen Frame

Derrick's newly engineered screen frame is designed to maintain structural integrity at higher G's. The vibrating deck design ensures that the higher G force produced by the Super G motors is transmitted directly to the screen surface, thus optimizing solids conveyance. Stainless steel components with multiple coats of epoxy ensures maximum corrosion resistance.

Other Features

- New float mounts, or vibration isolators, support the shaker deck without inhibiting vibratory forces. Float mounts also prevent transmission of G force to the underflow sump and support structure.
- FLC Upgrade Kits enable the use of Derrick's full line of patented 3-dimensional Pyramid™ Screens. Field tests have shown that the combination of Super G motors and Pyramid screens have increased shale shaker capacity by over 125%.

The Results

To measure the performance gains produced by the Upgrade Kit, Derrick has performed extensive tests comparing the traditional Flo-Line Cleaner 2000 (4.6 G's) and the upgraded FLC 2000 (7.0 G's).

- A traditional FLC 2000 3-panel (4.6 G) shaker was fitted with three PWP™ DX™-A140* mesh screen panels and processed 250 GPM with a 10.0 lb/gal water base drilling fluid.
- Once outfitted with the upgrade kit, the FLC 3-panel (7.0 G) could process 528 GPM of 10.4 lb/gal water base drilling fluid over three PMD™ DX-A140F* mesh screens.

**DX-A140 replaces DX 175 and DX-A140F replaces DX 210*

Upgrade Kits Include:

- 1 High G Derrick screen frame
- 2 Super G vibrating motors
- 6 Drawbars
- 24 Rapid Change tensioning bolts (Ramp-Lok option available)
- 6 Cross supports with complete hardware
- 6 Side supports with complete hardware
- 8 Float mounts
- 1 Front discharge curtain
- 27 Channel rubbers



15630 Export Plaza Drive • Houston, Texas 77032
Toll Free: (866) DERRICK Phone: (281) 590-3003 • Fax: (281) 442-6948
www.DerrickEquipment.com



PYRAMID™ SCREEN