Elgin’s Hyper-G™ Shaker provides power, performance and a new standard in practical design. Capable of producing up to 8 G’s of force and coupled with a variable frequency drive, the Hyper-G™ provides power when you need it. By adding a single point jacking system and an improved screen fastening system, you now have a shaker that is as easy to operate, as it is powerful.
**Variable-G VFD Control System**

Operating a shaker at high G's on a consistent basis does not provide the operational flexibility needed when managing solids. High G-force can be detrimental to the drying efficiency of fine, reactive or sticky solids. As such, Elgin has incorporated a user-friendly, intelligent, variable frequency drive system that allows the shaker to consistently achieve three different preset G-force levels in both linear motion and balanced elliptical motion. This allows the G-force and conveyance dynamics of Elgin’s Hyper-G™ Shaker to be adjusted with the simple twist of the wrist at the control panel.

**G-Force Response System**

To further enhance the Hyper-G™’s capabilities, a G-Force response system that automatically manages the G-Force to meet pre-set levels can be added as an optional feature. As solids loading increases, the Hyper-G™ will respond by increasing the shaker's energy input, therefore maintaining a constant G-Force, regardless of the solids loading.

**Bypass Flow Control System**

By using 10” (25.4 mm) fully enclosed knife-gate valve to ensure a tight seal, the Hyper-G™ accommodates easy by-pass of fluids. A valve stem is provided along with a hand-wheel mounted conveniently near the rear side of the possum belly.

**Adjustable While Operating Single Point Jacking System**

By utilizing two tethered, 2,000-pound gear jacks, the Hyper-G™’s basket can be adjusted by the rotation of a conveniently mounted hand-wheel near the rear side of the possum belly. With minimal effort, the shaker basket angle can be adjusted allowing for better separation of the liquid from solids as it passes over the screening area during operation.

**OEM Performance Shaker Screens**

Elgin is an original manufacturer of pretensioned, polyester, powder-coated shaker screens. Elgin's screens are third party tested and conform to API 13C RP standards for cut point and conductance.

**Mounting and Installation**

Elgin’s Hyper-G™ incorporates four top-side lifting eyes on each corner of the shaker basket. By installing the shipping brackets, the Hyper-G™ can be easily moved using the basket-mounted lifting eyes. The control panel is capable of being installed on either side.
of the shaker for easy access, depending on final placement of the equipment at the rig site.

**Vibration Isolation**

Elgin’s Hyper-G™ is fitted with Firestone™ Marsh Mellow™ rubber isolator springs. The Marsh Mellow™ spring includes a solid rubber core with a hollow center and fabric reinforced body. The variable spring rate allows for a nearly constant natural frequency with changing loads. This results in consistent vibration isolation with variable loading. Due to the rubber construction, Marsh Mellow™ springs do not bottom-out like coil springs. Bottoming-out under overload or surge load sends a large amount of stress to all of the machine’s components.

**“Water-fall” Screen System**

Elgin’s Hyper-G™ shaker incorporates a “water-fall” screen system that dramatically reduces the potential for solids bypass typically encountered by damaged screen gaskets, improper installation, and flooding of the rear gasket by fluid. By having the discharge of each screen fall to the top of the next screen, the rear gasket area’s exposure to fluids is significantly reduced. This maximizes the performance of the shaker.

**Side Outlet Doors**

Further flexibility is provided in the side-outlet doors. As a standard feature, the side discharge doors incorporate mounting faces. The mounting configuration also allows for a host of standard discharge adapters to be mated to the shaker side outlets.

**Operator Friendly**

Elgin’s shakers are designed with your team in mind. Screen replacement is made easy using simple wedge block technology with limited downtime. By using readily available electrical components and standard fastening assemblies, maintenance concerns are eliminated.

Combined with our international field service team and regional spare part distribution centers, you will never be left without the support you need.
Proven History
From the snows of Siberia to the sands of Abu Dhabi, from the outback of Australia to the jungles of Brazil, Elgin shakers can be found in some of the harshest environments.

With over 25 years of experience, our engineers have the insight and technical capability to support your project needs. With thousands of installations worldwide, Elgin has built a proven product history.

Durability
All Elgin shakers are given a two-part epoxy powder coating to maximize equipment life. Three-part marine coatings are also available for offshore applications.

Spare parts and consumables have been designed to ensure the lowest replacement cost and long-term product durability. By using hydrocarbon-resistant polyurethane and stainless steel wear parts, Elgin's shakers are designed for long-term performance.

Elgin's shakers are manufactured from ASTM A-36 quarter-inch (6.35 mm) plate steel and are full seam welded. Depending on the application and desired cleaning efficiency, Elgin has a host of vibrator motor options that allow each shaker to achieve 4 to 8 Gs of output. In Elgin's newest shaker, the Hyper-G™, operators can achieve variable G-force with both linear and balanced elliptical motion through the integrated variable frequency drive. All Elgin shakers are available for integration with existing assets and are typically available for delivery within 30 days of order placement.

Motor Setting | Balanced Elliptical Motion | Linear Motion | Fixed Motion High-G
--- | --- | --- | ---
Low G | 5.0 | 4.5 | N/A
Mid G | 6.0 | 5.5 | N/A
High G | 7.0 | 6.5 | 7.5

Elgin's Hyper-G™ features Progressive-G technology. The g-force imparted on the shaker decreases as the solids travel across the screen yielding better cut results and solid integrity for disposal.