Hyper-G Shale Shaker
Product Overview

2018 – Revision K
Full-Service OEM
Engineering, Design, Manufacturing, Commissioning and Servicing.

As a division of the Elgin Equipment Group, Elgin Separation Solutions is able to tackle both the small and the big projects, regardless of location or well complexity.
Organizational Footprint
And Key Customers.
Hyper-G™ Shale Shaker

Product Innovation – Dual Motion, Multi-G, Progressive G Shaker

Elgin Separation Solutions’ Dual Motion Hyper-G™ allows operators to select both the G-force and the excitation pattern (linear motion or balanced elliptical motion) with a single on-board NEMA 7X explosion-proof VFD system.
Shale Shaker Innovation

Product Development from 1997 to 2015

Elgin Separation Solutions has incorporated a series of product innovations into the Hyper-G Shaker that now allows operators to use one shaker for a variety of mud and hole applications.
Elgin’s Dual Motion Hyper-G™ shale shaker allows operators to tune one shaker for any hole or drilling fluid condition experienced.
Hyper-G™ Shaker
Proprietary Progressive G-Force Profile

Relative G-Force at Screen Surface

G-force and conveyance is further reduced to minimize solids degradation and maximize dryness.

G-force and conveyance are lowered to minimize solids degradation.

Maximum conveyance and G-force is applied to the entry screen.

To ensure that excessive G-force is not being applied, when not called for, the on-board VFD allows for optimum system fine-tuning.
Hyper-G™ Shaker

Installation Flexibility

The Hyper-G™ Shaker was designed for maximum installation flexibility, regardless of the rig or the current assets utilized.

Reversible control panel that can be placed on the left or right side of the shaker.

Dual single-piece flow diverters allow for mud to be managed to either side of the shaker.

Fully-balanced shaker basket allows for deck angling with minimal effort while drilling.

New conveniently located knife-gate provides for seal-tight mud by-pass capability.

10” inlet flange provided directly on rear of one-piece possom-belly / gumbo tray.
Hyper-G™ Shaker
Ergonomics and Durability

Rated lifting eyes located at the top of the shaker basket improves handling.

Single-piece tubular steel for maximum energy translation & lower weld stress.


¾” ASTM A36 plate steel construction, full seam welded for maximum equipment life.

Fully integrated “gumbo tray” and “possum belly” ensures strength and stability.

Ensuring Operator Safety Remains a Fundamental Commitment to Elgin’s Design Philosophy.
Hyper-G™ Shaker

Integrated “gumbo tray” and “possum belly” eliminate possibility of mud by-pass into the carriage.

“Gumbo tray” designed with integrated flow diffusion device to minimize physical wear on the screens.

New single piece wedge ensures that sufficient pressure is applied to seal the screens to the basket.

Elgin’s proprietary “water-fall” staggered screens eliminate solids bypass between screens.

Integrated mud skirt lip allows for smooth discharge of solids directly into a conveyor or tank.

By significantly improving the design, Elgin has been able to extend a three-year warranty with its Hyper-G™ Shaker.
Hyper-G™ Shaker

Lower Total Cost of Ownership

“Crown rubbers” have been eliminated within Elgin’s Hyper G, replaced by durable polyurethane.

Firestone™ Marshmallow Springs provide for a one-piece design. Does not corrode or require repainting.

Fully powder-coated construction provides for excellent wear and abrasion resistance.

Dual jacks have been designed with a safety factor of 4 to ensure maximum life.

Low pressure water knife gate with radial seals will ensure a tight seat and minimal maintenance.

Most importantly, Elgin’s new Hyper-G shaker comes with an unbeatable, industry leading, 3-Year Limited Warranty.
Closing the WBM & OBM Loop

Integrated Solids Control and Waste Management Products.

Flow Line Shaker System

Drilling Rig → Flow Line Shaker System → Wet Cuttings Discharge

Active Mud System

Recovered Drilling Fluid

Recovered Barite

Recovered Drilling Fluid

Fines Laden Centrate

“Dried” Waste Cuttings

Solids Control Centrifuge

Drying Shaker

Vertical Cuttings Dryer

Recovered Barite

Fines Laden Filtrate

Dewatering System for WBM

Elgin’s product portfolio provides a “one-stop” shop for any solids control management or waste management challenge.
**Hyper-G™ Shaker**

**Key Features**

**Power**

**On-Demand Power**

With a redesigned basket & motors, the Hyper-G™ is Elgin Separation Solution’s most powerful variable G shaker, therefore allowing the operator to tune the shaker to the drilling program.

**Motion**

**Selectable Motion**

By the simple turn of a switch the Hyper-G™ can generate either linear motion or balanced elliptical motion, therefore allowing the operator to tune the shaker to the cuttings.

**Durability**

**Three-Year Warranty**

By focusing on quality and value, Elgin Separation Solution’s Hyper-G™ maintains the industry’s most aggressive three-year warranty.
Elgin Value
Definitive Value Proposition in Utilizing Elgin Shakers

Unsurpassed Experience
Elgin Separation Solutions has shipped shakers to over 40 different countries over the last 25 years and continues to provide local support and maintenance in 16 different countries.

Unsurpassed Durability
With more than 25 years of experience building shakers for the oil and gas industry, Elgin Separation Solutions has developed a reputation for the most durable systems in the market. The average asset life exceeds 10 years with proper preventative maintenance.

Engineering Support
Elgin’s dedicated Engineering team evaluates system hydraulics, frictional losses, predictive reliability, and failure mode evaluation analysis ("FMEA") for each shaker designed. Months of product validation testing is performed prior to the release of any Elgin shaker.

Elgin manufactures its own spare parts and consumables ensuring 100% integrated accountability for the entire shaker.