

ELGIN

HYPER-G™

DUAL-MOTION, VARIABLE-SPEED SHAKER



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.

Natural Resource Recycling • Product Classification • Dewatering • Fluid Recovery
Waste Management • Material Handling • Liquid/Solid Separation • Crushers • Feeders



Variable-G VFD Control System

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.

Bypass Flow Control System

By using 10" (25.4 mm) fully enclosed knife-gate valve to ensure a tight seal, the Hyper-G™ easy fluids by-pass hand-wheel is mounted conveniently near the rear side of the shaker.



Adjustable While Operating Single Point Jacking System

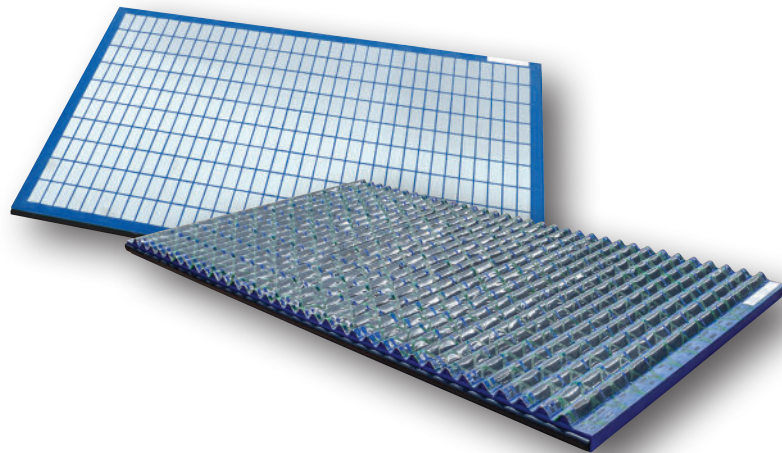
By utilizing two tethered, 2,000-pound gear jacks, the Hyper-G™'s basket can be adjusted by the rotation of a conveniently mounted hand-wheel near the rear side of the shaker. With minimal effort, the shaker basket angle can be adjusted allowing for better separation of the liquid from solids as it passes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



Hyper-G Composite Shaker Screen	API 13C Designation	API 13C D100 Cut Point (Microns)	API 13C Conductance (kd/mm)
BlueCrest/BlueWave-API-10	API 10	1900	40.0
BlueCrest/BlueWave-API-14	API 14	1400	30.0
BlueCrest/BlueWave-API-16	API 16	1100	22.0
BlueCrest/BlueWave-API-20	API 20	870	17.0
BlueCrest/BlueWave-API-25	API 25	757	13.0
BlueCrest/BlueWave-API-30	API 30	600	10.3
BlueCrest/BlueWave-API-35	API 35	491	9.2
BlueCrest/BlueWave-API-40	API 40	450	6.0
BlueCrest/BlueWave-API-50	API 50	315	5.0
BlueCrest/BlueWave-API-60	API 60	275	4.0
BlueCrest/BlueWave-API-70	API 70	205	2.9
BlueCrest/BlueWave-API-80	API 80	182	2.8
BlueCrest/BlueWave-API-100	API 100	146	2.5
BlueCrest/BlueWave-API-120	API 120	120	1.8
BlueCrest/BlueWave-API-140	API 140	114	1.7
BlueCrest/BlueWave-API-170	API 170	97	1.1
BlueCrest/BlueWave-API-200	API 200	73	1.0
BlueCrest/BlueWave-API-230	API 230	62	.7
BlueCrest/BlueWave-API-270	API 270	43	0.5

OEM Composite Shaker Screens

Elgin is an original manufacturer of Bluecrest 26/28™ & BlueWave 26/28™ composite 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.

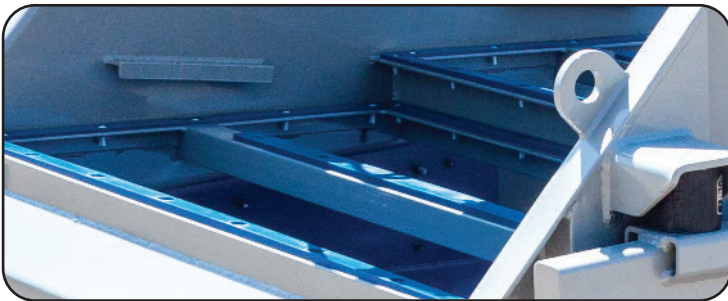
Vibration Isolation

Elgin's Hyper-G™ is fitted with Firestone™ Marsh Mellow™ rubber isolator springs. The Marsh Mellow™ spring includes 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.



Patented "Water-fall" Screen System

Elgin's Hyper-G™ shaker incorporates a patented "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 that 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

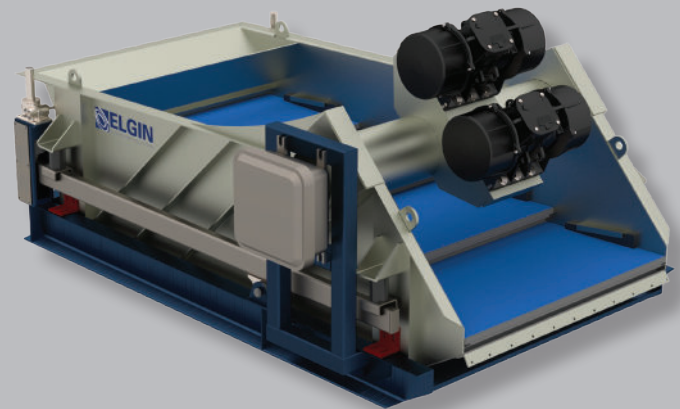
Elgin's shakers are designed with your team in mind. Screen replacement is made easy using simple wedge block technology with limited downtime. By using readily available electrical components and standard fastening assemblies, maintenance concerns are eliminated.

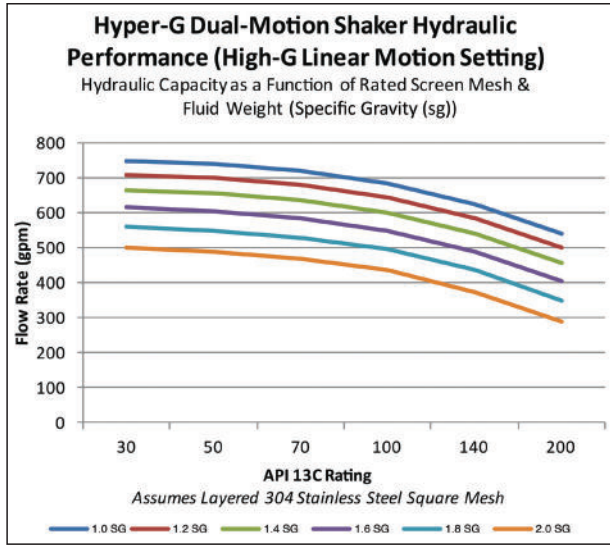
Combined with our international field service team and regional spare part distribution centers, you will never be left without the support you need.

Hyper-G 3P™ Shaker



Hyper-G™ Drying Shaker





Dual-Motion, Variable Speed Technology

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 G's of output. In Elgin's newest shaker, the Hyper G Pro™ model, operators can achieve variable G-force with both linear and balanced elliptical motion through the integrated variable frequency drive.

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.

Model Number:	Hyper-G 3P™	Hyper-G 4P™	Hyper-G 6P™	Hyper-G 3PDS™	Hyper-G 4PDS™	Hyper-G 6PDS™
Equipment Image:						
Screen Type:	Hyper-G BlueCrest 28 Composite	Hyper-G BlueCrest 26 Composite	Hyper-G BlueCrest 28 Composite	Hyper-G BlueCrest 28 Composite	Hyper-G BlueCrest 26 Composite	Hyper-G BlueCrest 28 Composite
Vibratory Motors:	(2) 2.0HP (1.49kW)	(2) 2.5HP (1.86kW)	(2) 2.5HP (1.86kW)	(2) 2.0HP (1.47kW)	(2) 2.5HP (1.86kW)	(2) 2.5HP (1.86kW)
Number of Screen Panels:	Three (3) Panels	Four (4) Panels	Six (6) Panels	Three (3) Panels	Four (4) Panels	Six (6) Panels
Screen Surface Area:	28 sq. ft. (2.6 m²)	35 sq. ft. (3.25 m²)	56 sq. ft. (5.2 m²)	28 sq. ft. (2.6 m²)	35 sq. ft. (3.25 m²)	56 sq. ft. (5.2 m²)
Maximum Flow Rate:	650 gpm (41 lps)	750 gpm (48 lps)	1250 gpm (79 lps)	650 gpm (41 lps)	750 gpm (48 lps)	1250 gpm (79 lps)
Weir Height:	30" (76 cm)	33" (83 cm)	40" (102 cm)	N/A	N/A	N/A
Length:	117" (297 cm)	127" (322 cm)	112" (284 cm)	96" (244 cm)	108" (274 cm)	108" (274 cm)
Width:	79" (200 cm)	79" (200 cm)	79" (201 cm)	69" (175 cm)	79" (200 cm)	82" (208 cm)
Maximum Height:	54" (137 cm)	58" (147 cm)	65" (165 cm)	52" (132 cm)	58" (147 cm)	65" (165 cm)
Weight:	4,586 lbs (2,080 kgs)	4,850 lbs (2,200 kgs)	5,300 lbs (2,404 kgs)	3,000 lbs (1,361 kgs)	4,500 lbs (2,041 kgs)	4,200 lbs (1,905 kgs)