

THE NEWEST

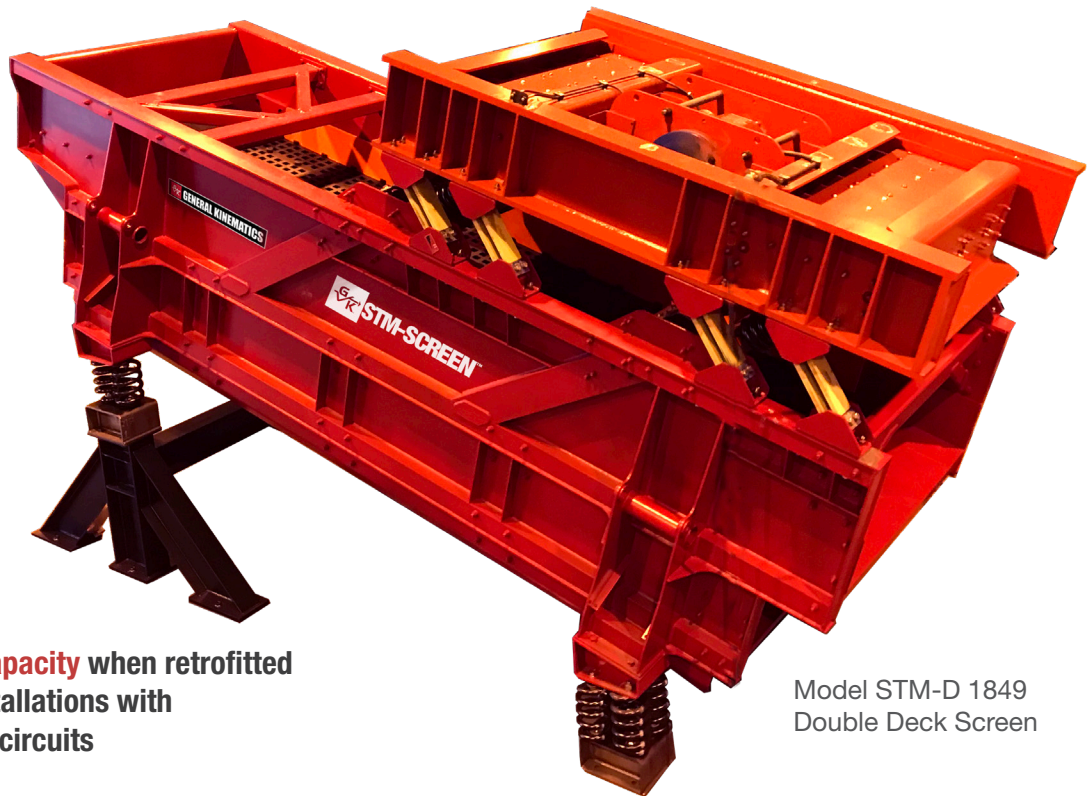


GENERAL KINEMATICS

STM-SERIES® SCREENS

The “Innovative Solution” that has changed how mining companies do business.

IMPROVE YOUR SCREENING CAPACITY & EFFICIENCY /M²
High-Efficiency. Low Horse Power.



20-40% higher capacity when retrofitted
in brownfield installations with
AG, SAG or HPGR circuits

Model STM-D 1849
Double Deck Screen

Screen Smarter

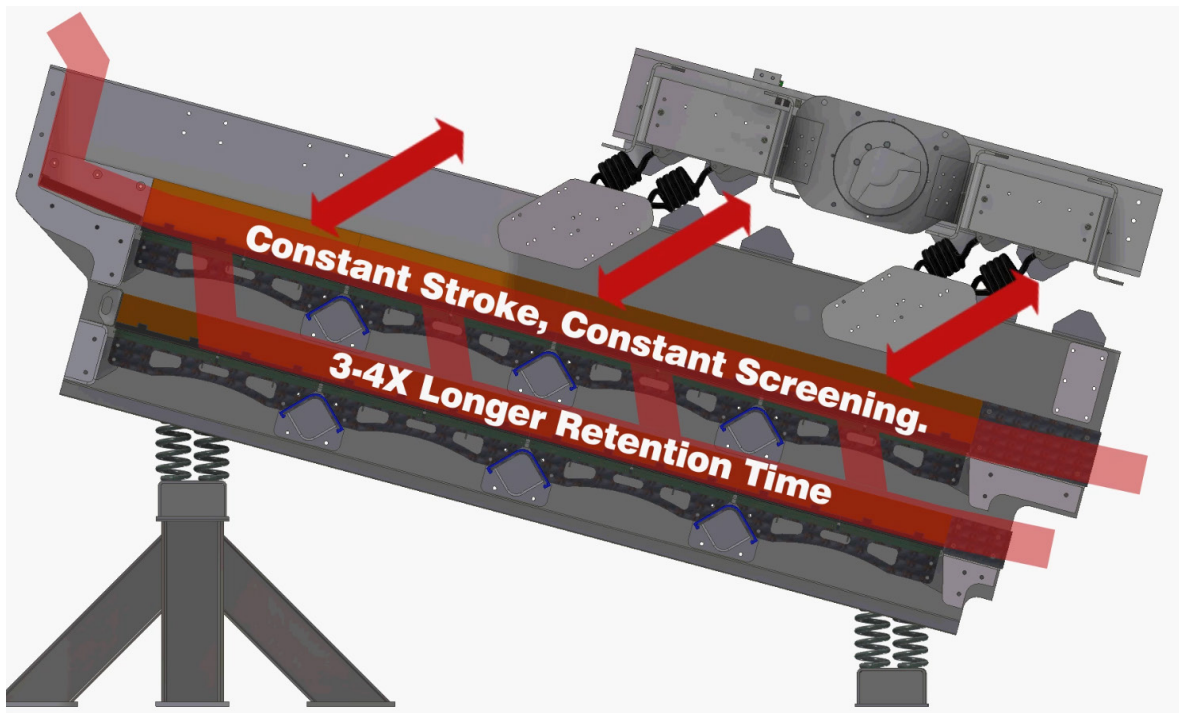
GK's STM-SCREEN™ Two-Mass Vibratory Screen delivers proven results. The STM-SCREEN™ maintains its stroke, even under full load conditions, for the whole length of the screen. While, it's consistent energy drives material across the entire screening surface, creating continual stratification. The resulting material separation, through the customized screen openings, provides the highest quality product in the industry. The STM-SCREEN™ goes one step further by increasing the amount of time the screen works the material. The STM's design keeps material on the screen, and field tests show we achieve a 3 – 4 times longer material retention than banana screens. The STM-SCREEN™ handles intentionally higher bed depths to ensure enough material is on the deck from infeed to discharge. The increased volume combined with continual stratification delivers the most efficient screen in mining.

Why GK'S STM-SERIES®

- **Highest Quality End Product.** Customized screen openings, provides the highest quality product in the industry.
- **Efficiency.** Increased volume combined with continual stratification delivers the most efficient screen in mining.
- **Load responsiveness.** Maintains its stroke, even under full load conditions, for the whole length of the screen.
- **Built to Last.** Heavy-duty, low-stress design lasts up to 5 times longer than traditional brute force screens.

Increased Efficiency and Longevity

Designed to keep material on the screen, field tests show we achieve a 3 – 4 times longer material retention than banana screens.

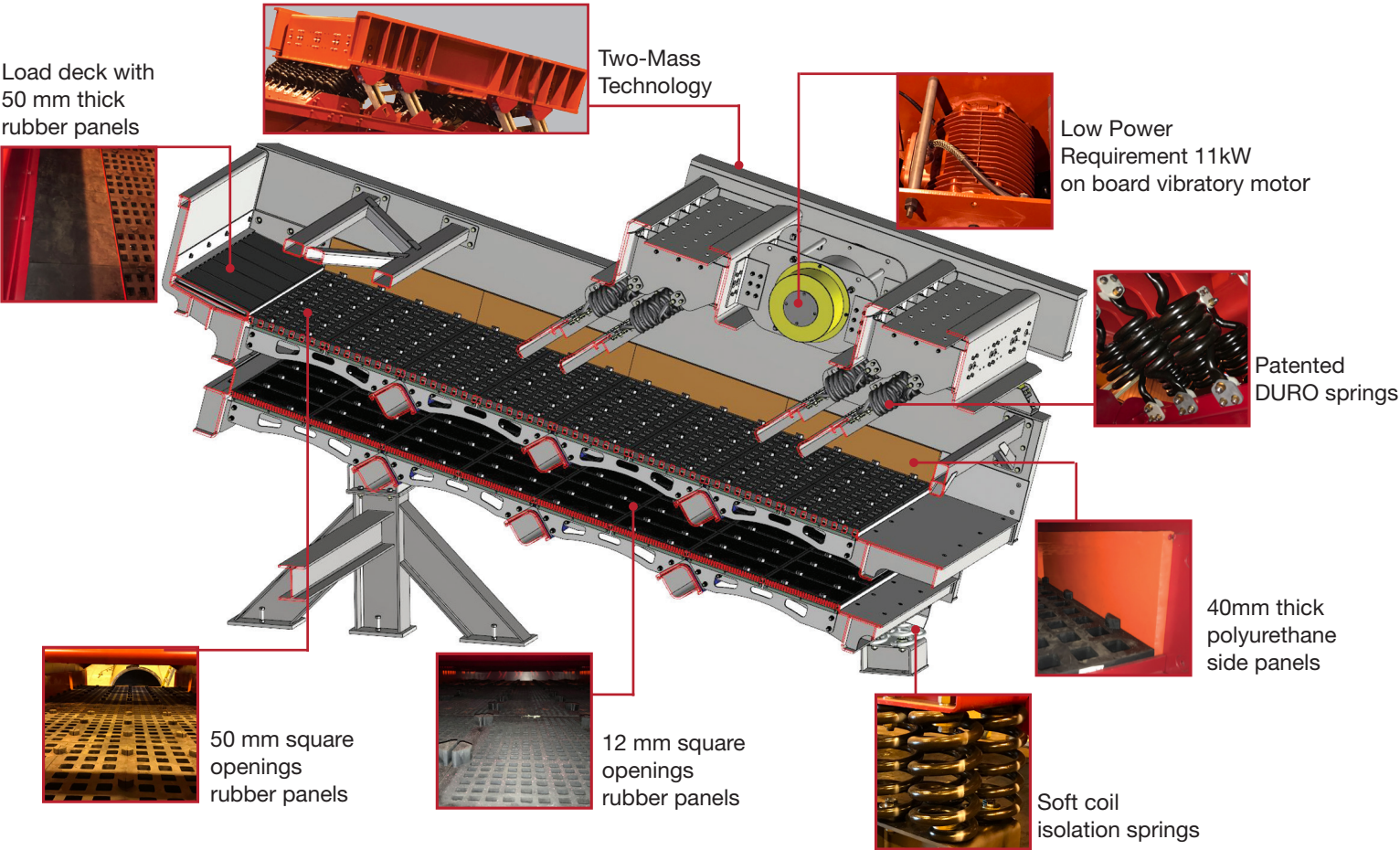


	GK STM-SCREEN™	Brute Force Screen
Designed to run continuously 24/7	X	X
Designed to stay in operation greater than 6 months	X	X
Designed to stay in operation greater than 3 years	X	
Screen decks can be customized	X	X
Material is spread across 100% of the screen deck	X	
Material retention time is between 8 and 12 seconds	X	X
Material retention time is between 25 and 30 seconds	X	
Maintains stroke, even under loaded conditions	X	
Constant stroke, constant screening	X	
Highest quality screened product in the industry	X	

Two mass technology enabling
vibratory screen sizes as large as
5.4m wide by 8.5m long.

UNRIVALED
TWO-MASS
SCREENING
TECHNOLOGY

- 20 to 40%+ higher capacity
- 3-4 times longer retention of material
- 100% screen utilization



PHYSICAL DATA	
Screen manufacturer	General Kinematics
Design	Two-Mass
Screen model number	STM-D 1849
Number of decks	2
Screen width	1.8 meters (6 feet)
Screen length	4.9 meters (16 feet)
Load deck	50 mm (2") thick solid rubber panel
Top deck	50 mm (2") square opening rubber panel
Bottom deck	12 mm (1.5") square opening rubber panel
Screening media specification	300 mm x 600 mm panels with rail design
Total machine static weight	15,600 Kg (34,300 Lbs)

TECHNICAL SPECIFICATIONS	
Number of motors	1
Power consumption	11 KW (15 HP) vibratory motor 460 V/3ph/60hz
Operation frequency	720 RPM
Design trough stroke empty	10 mm (3/8)*
Design trough stroke loaded	12 mm (1/2")*
*Adjustable based on process requirement	
Stroke monitoring	Vertex™ Monitoring System
Dynamic vertical loads	+/- 1.7 kN (375 lbf.) per isolation spring
Dynamic horizontal loads	+/- 1.6 kN (550 lbf.) per isolation spring
Reactor springs	Patented DURO Springs designed for higher stroke capabilities



Industries

Across multiple industries, GK's STM-SCREEN™ provides increased uptime, longer service intervals, significantly increased throughput, and the lowest cost of ownership.



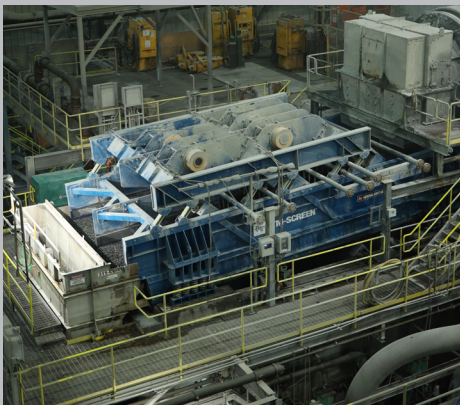
Gold



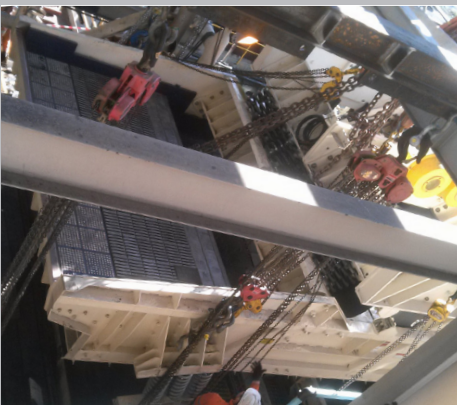
Iron Ore



Minerals



Copper



Coal



Diamonds