

Elliptical motion horizontal screens



ENDURON® Orbital E series screens

ENDURON® Orbital E series screens are Weir's next generation of elliptical motion screens. Designed for a wide range of feed material, they operate in a variety of screening duties across sand and aggregate, construction and small tonnage mining operations. Featuring improved structural life through industry-leading, high-cycle fatigue design.

The ENDURON® Orbital elliptical screens are built to deliver the perfect combination of quality, superior performance and exceptional reliability when processing the most difficult materials.

Accepting feed sizes of up to 150mm, our ENDURON® Orbital E series screens have an innovative deck support structure that allows changing between side-tension and modular panel decks without having to replace the deck assemblies.

The modular design of the screen body is completely weld-free, resulting in a reliable, maintenance-friendly operation. All bolted connections ensure ease of maintenance during the replacement of components. LINATEX® premium rubber lining protects impact zones from wear in the toughest applications. The digitally enabled modular exciters maximise bearing life thanks to their smart housing design and oil lubrication (patent pending).

Design features

- All-bolted construction improves reliability by eliminating welding.
- Modular screen construction for easy replacement of individual components.
- Designed with industry leading high cycle fatigue standards.
- All designs undergo finite element analysis (FEA) before being released, with extensive prototype testing to confirm design and FEA results.
- Engineered with a wide operating window, which allows throw-angle, speed, and stroke adjustments, without compromising structural integrity.
- Superior configurability as operating conditions change. Both side-tension or modular panels are accommodated on the same deck structure by changing minimal deck support components.
- Digitally enabled, including our modular exciter technology (patent pending).
- Standard models are EN 1009 compliant, for easy access during maintenance.
- Lower profile models available in select popular sizes.
- Optional dust-encapsulation or wet kit available.
- Fully supported by our Weir global service network.

Applications

- Tertiary screening
- Product classification
- Washing and rinsing
- Fine dry and wet screening

ENDURON® Orbital E series typical physical properties

MODEL*	DECK SIZE**				DECKS	TOTAL DECK SURFACE AREA m ²	MAX. FEED SIZE mm	EXCITER MODEL	POWER		SPRUNG MASS *** kg
	Width mm	Length mm	Width ft	Length ft					kW	HP	
E18483S	1840	4880	6	16	3	26.9	150	ECX050D	22	30	8200
E18612S	1840	6100	6	20	2	22.4	150	ECX070D	22	30	7200
E18613S	1840	6100	6	20	3	33.7	150	ECX070D	37	40	9200
E24612S	2450	6100	8	20	2	29.9	150	ECX090D	37	40	8900
E24613S	2450	6100	8	20	3	44.8	150	ECX090D	45	60	12000

* All models have an adjustable deck angle of 0° to 10°.

** Screening area may differ as different screen media options are selected.

*** Sprung mass excludes motors, drive assembly and springs.

Underpinning the design and manufacture of all of our ENDURON® products is a commitment to innovation and quality.

By combining our latest technologies and advanced wear resistant materials, we deliver solutions precisely designed to fit your unique requirements.

All of our products are fully supported by our Weir service network offering unrivalled service, support and local expertise right across the globe.

ENDURON® HPGR, vertical stirred mills, crushers and screens are innovative solutions, engineered for your particular needs.