Minerals

Screening Technology

Our screening philosophy

Work safe
Keeping people safe every day.

Built to last
Combining the latest technological advancements and engineering expertise with the toughest materials to deliver robust, rugged, long-lasting equipment.

Complete solutions
Partnering with you to deliver unique, site-specific solutions to allow you to fully optimise your operations.

Global support
Ensuring you have the support you need, whenever and wherever you need it.

By using the very best design standards and methodologies, our extensive range of equipment is built to last.

Every step of the way

At Weir Minerals, our reputation for quality engineering and exceptional service is second-to-none.

Combining decades of experience with innovative design and materials technology, our equipment is designed with reliability, productivity, and ease of operation and maintenance in mind.

Designed to maximise performance and built for extra-long service life, our entire range of separation and classification equipment is backed by the Weir Minerals service network, operating in over 70 countries across the globe.

Reliable solutions

Delivering innovation, quality and efficiency, our range of Enduron® screens have been expertly designed for the tough conditions of the mining and minerals industries. They are engineered-to-order and showcase our most advanced technology and wear-resistant materials.

Designed to deliver reliable solutions to all of our sand and aggregate customers, our range of robust Trio® screens are easy to use and maintain, and are built to last.

With a global footprint covering over **70 countries**, we operate more than **120 facilities** providing expert manufacturing and service support.

This is how we have successfully manufactured and delivered **1000s of screens** across the globe.

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ENDURON®

Enduron®

Engineered-to-order

Efficient

Innovative

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 custom-made solutions precisely designed to fit your unique requirements.

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

Enduron® innovative solutions, designed specifically for you.

The Enduron® screen range

Our range of Enduron® screens have been designed for the tough conditions of the mining and minerals processing industries. These linear motion screens are available in banana, horizontal or dewatering models. Custom-built, Enduron® screens are designed to meet your specific needs.

Each Enduron® screen build follows a detailed process. Our customer's needs are identified and comprehensively mapped out. Your screen is then designed from the ground up to address your unique requirements. The screen is modeled and reviewed by our senior design engineers to ensure that your screen delivers peak performance. Once approved, our supply chain and manufacturing specialists work together to manufacture your screen to the highest standards.

Why should you consider an engineered-to-order (ETO) screen?

- Enduron® ETO screens fit perfectly within existing footprints limiting the changes needed to your current plant layout and reducing downtime during installation
- Our advanced wear-resistant materials are used to combat areas of high-wear specific to your process, increasing the overall lifetime of the screen
- Each screen is fine-tuned in order to optimise existing processes or match the parameters of a new project
- Every application has specific requirements - ensure your screen is perfectly suited to your specific application and reduce maintenance requirements or risk of breakdowns

ENDURON® BANANA SCREENS

Often referred to as multi-slope or multi-inclination screens, our range of Enduron® banana screens offer exceptionally high throughput per deck. Offered in a variety of deck angles, our high capacity, high velocity screens have a low bed depth which results in greater efficiencies by allowing quicker stratification of the material bed.

Applications

- Secondary sizing
- Tertiary sizing
- HPGR discharge screening
- Stockpile sizing
- Mill discharge screening
- Desliming
- Washing

Media options

- Linathane® polyurethane modular panels
- Linard® rubber modular panels
- Woven/wedge wire

Design features

- Engineered up to 4.27m in width and 10m in length
- Available in single or double deck arrangements
- The multi-slope deck features varying angles of inclination which are matched to specific application needs
- High throughput per screening area
- Excellent sizing efficiency due to rapid stratification of material bed
- All-bolted construction using locking bolts to ensure structural integrity
- Features Linatex® rubber installed to protect the screen in highly corrosive applications and to lower the total cost of ownership
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Available in heavy duty configurations designed to deliver a high throughput and perform in hard wearing applications
- Offered with vibrator motors or out-of-balance exciters (size dependent)
- Can be supplied featuring our LTX range of split-casing exciters, the largest exciters in the world producing up to 1.2MN of centrifugal force per exciter
- Single sheet side walls
- Epoxy adhesive used between all mating surfaces to protect against corrosion

ENDURON®
HORIZONTAL SCREENS

Featuring a stress-relieved, all-bolted construction using locking bolts to ensure structural integrity, our Enduron® horizontal screens deliver exceptionally high throughput per deck. As Enduron® screens are specifically engineered for your process, they will offer an increased service life compared with alternative solutions. Capable of being installed from 0 to 10 degrees, these screens are suitable for a variety of different mineral processing duties.

Applications

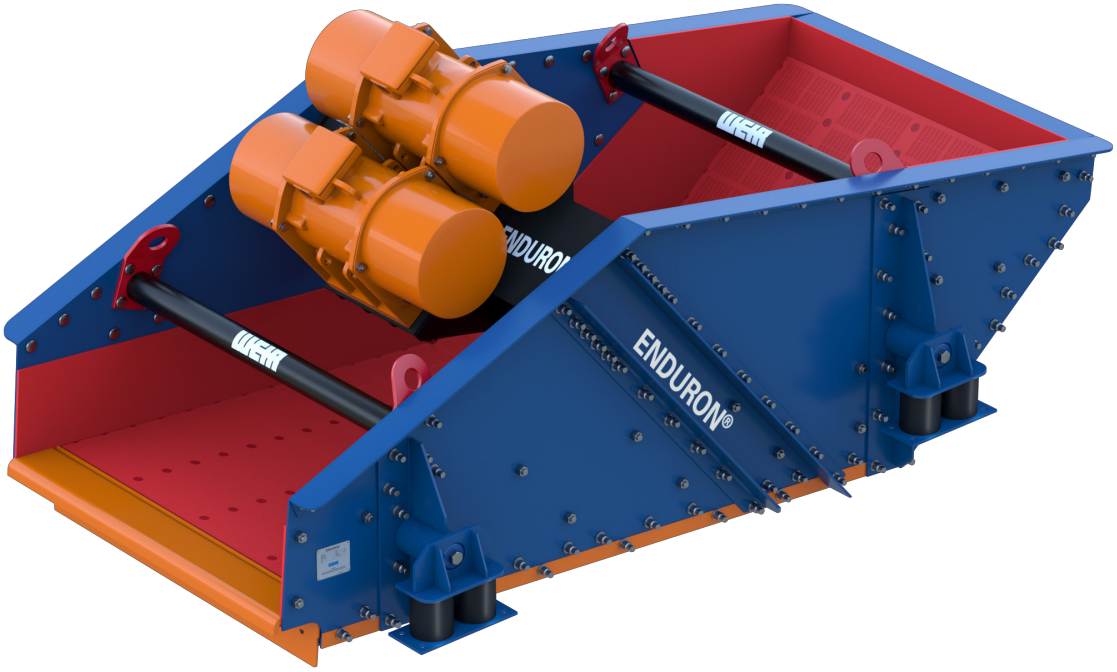
- Secondary sizing
- Tertiary sizing
- Stockpile sizing
- Mill discharge sizing
- Drain and rinse
- Washing
- General classification
- Desliming
- Media recovery
- Trash removal

Media options

- Linathane® polyurethane modular panels
- Linard® rubber modular panels
- Woven/wedge wire

Design features

- Engineered up to 4.27m in width and 10m in length
- Available in single or double deck arrangements
- All-bolted construction using locking bolts
- Features Linatex® rubber installed to protect the machinery during highly corrosive applications and lower the total cost of ownership
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Available in heavy duty configurations designed to deliver a high throughput and perform in hard wearing applications
- Offered with vibrator motors or out-of-balance exciters (size dependent)
- Excitation via out-of-balance exciters
- Can be supplied featuring our LTX range of split-casing exciters, the largest exciters in the world producing up to 1.2MN of centrifugal force per exciter
- Single sheet side walls
- Epoxy adhesive used between all mating surfaces to protect against corrosion



ENDURON®
DEWATERING SCREENS

Featuring an uphill screening slope design and drainage feed-slope, these screens offer class-leading dewatering capability delivering an end product that can be easily handled and stock-piled. Our range of Enduron® dewatering screens offer exceptionally high throughput per deck, excellent water removal and high load capacity, making them integral to our range of sand wash plants.

Applications

- Dewatering mineral concentrates
- Dewatering tailings
- Dewatering sand
- Desliming
- Sand recovery
- Scalping oversize from suspensions and slurries

Media options

- Linathane® polyurethane modular panels

Please Note: While our dewatering screen range can be engineered-to-order, we do have standard sizes. For more information, please refer to page 20.

Design features

- Engineered up to 2.44m in width and 6.1m in length
- Excellent water removal
- High load capacity
- Low total cost of ownership
- Epoxy adhesive used between all mating surfaces to protect against corrosion
- All-bolted construction using locking bolts to ensure structural integrity
- Fitted with modular screen deck panels providing long life, easy handling and maintenance, with the ability to replace areas of localised wear
- Moulded rubber buffers are used on all four support points to isolate live frame vibrating and prevent corrosion in wet applications
- Easily adjustable discharge weir height to control the moisture of the discharge material
- Features Linatex® rubber installed to protect the machinery from wear and lower the total cost of ownership
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Available in heavy duty configurations designed to deliver a high throughput and perform in hard wearing applications
- Offered with vibrator motors or exciters (size dependent)
- Single sheet side walls

Trio®

Reliable

Proven

Easy-to-use
and maintain

Trio® products operate in some of the most challenging environments in the industry.

Our Trio® solutions are designed and proven to be able to withstand even the harshest of operating conditions.

Designed to perform, our Trio® products require as little attention as possible and assure ease of operation. We understand that the continued production of quality end-products is of critical importance, that's why our Trio® products are manufactured to be quickly installed and commissioned, and are fully supported by our Weir Minerals global service network.

Trio® products you can rely on.

The Trio® screen range

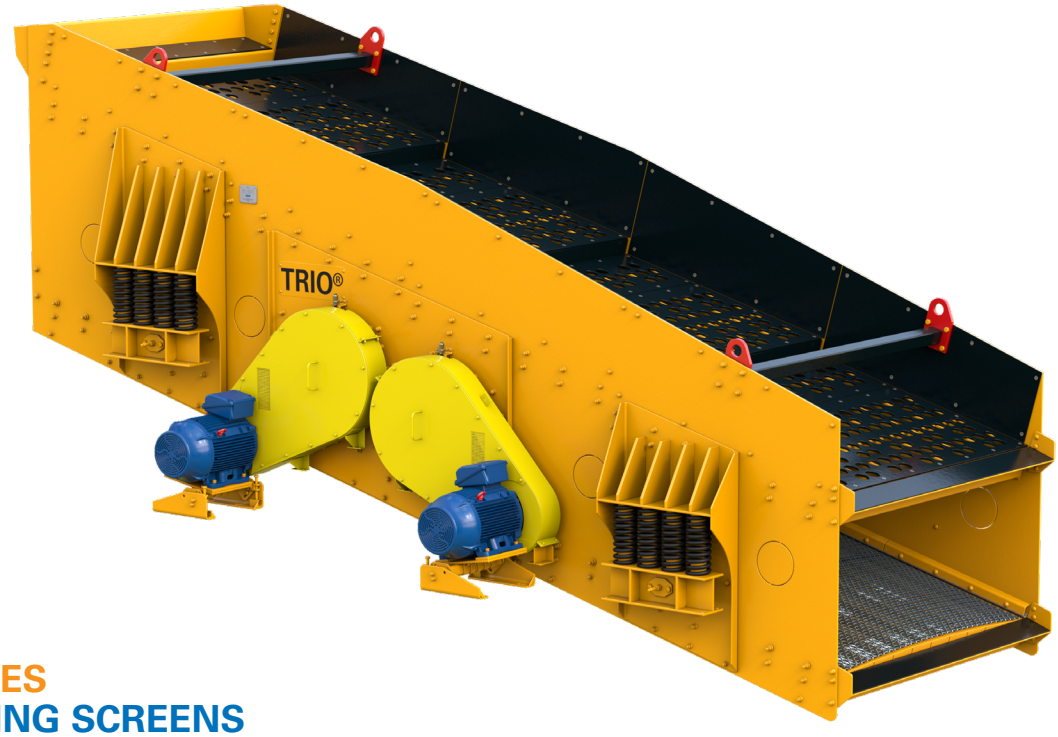
Trio® screens have been designed using proven design methodologies and are manufactured using industry-leading technologies and materials. By focussing on the end user, the operation and maintenance of our Trio® screens is kept as simple and as safe as possible.

Featuring multiple deck options, our range of elliptical motion horizontal, circular motion inclined and scalping screens are designed to deliver reliable separation and classification.

Ensuring the range is reflective of your needs, Trio® screens have been developed in response to extensive, global customer feedback.

Unlike our engineered-to-order Enduron® range, our standardised range of Trio® screens have pre-defined configurations, enabling us to accommodate short lead times.

Across the globe we provide unsurpassed service and support, offering rapid response, local expertise, and high-quality spares and wear parts, whenever and where ever you need it.



TRIO® TIOSP SERIES
INCLINED SCALPING SCREENS

Our rugged Trio® TIOSP series scalping screens reliably accept feed sizes up to 400mm and are available in up to a triple deck configuration. These screens are well suited to secondary scalping and large size separation applications. They typically operate at an inclination of 20° and can be supplied with a steel punch plate, steel-backed rubber media, or cascading grizzly bars.

Applications

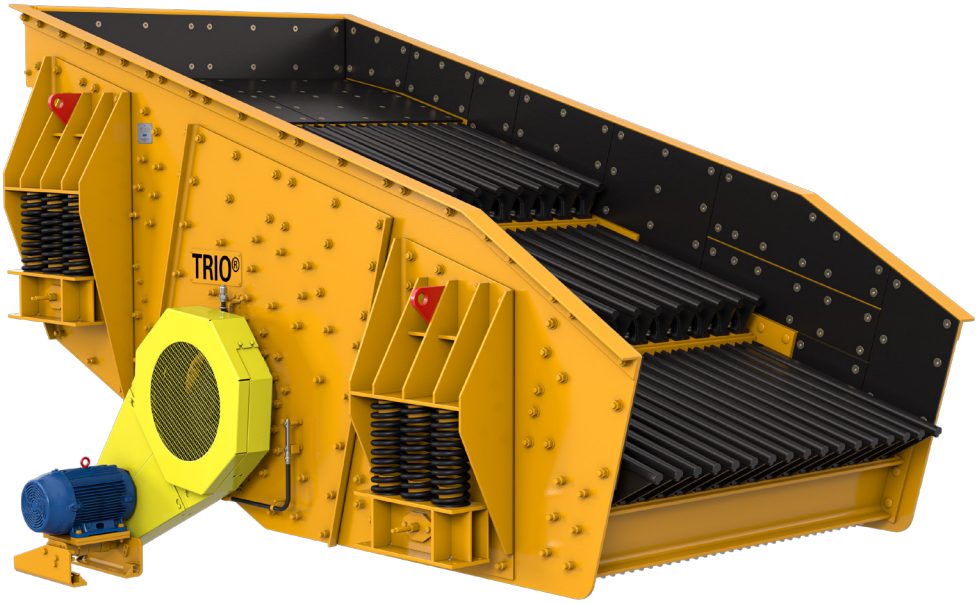
- Stationary and mobile operations
- Scalping
- Heavy secondary sizing applications
- Aggregate processing
- Mining and industrial minerals screening applications
- Environmental mitigation
- Recycling separation processes

Media options

- Cascading grizzly bars
- Heavy duty rubber steel-backed media
- Steel punch plate
- Side tension wire
- Linathane® polyurethane modular panels
- Linard® rubber modular panels

Design features

- All-bolted construction using locking bolts to ensure structural integrity
- The stroke can be easily adjusted using counterweights that are bolted to the flywheels
- Rubber side snubbers to prevent surge motion
- Vibrating units attached with threaded bolts to enable easy servicing
- Available in single, double and triple deck arrangements
- One sheet side wall
- Oil lubricated
- Self-adjusting motor base
- Can be supplied in either dual or single drive (machine size dependent)
- Crowned or flat deck support frames
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Can be supplied with a wet kit (optional)
- Punch plate top deck design
- Replaceable side wall liner
- V-belt drive
- Rubber side snubbers
- Side tension clamp rails
- Fully supported by the Weir Minerals global service network



TRIO® THDS SERIES
INCLINED SCALPING SCREENS

Trio® THDS series scalping screens are proven performers when removing undersized material before the primary crusher in mining, aggregate, recycling, or rip rap separation applications. Trio® scalping screens can be supplied with grizzly bars, heavy duty rubber steel-backed media, and steel punch plate in an optional stepped-deck layout. The stroke can be easily adjusted using counterweights that are bolted to the flywheels, while the vibrating units are attached with threaded bolts to enable easy servicing.

Applications

- Stationary and mobile operations
- Both wet and dry continuous duty operations
- Primary, secondary or large size separation
- Aggregate processing
- Mining and industrial minerals screening applications
- Environmental mitigation
- Recycling separation processes

Media options

- Cascading grizzly bars
- Heavy duty rubber steel-backed media
- Steel punch plate

Design features

- All-bolted construction using locking bolts for structural integrity
- One sheet side wall
- Designed to allow for easy adjustment of the stroke
- Designed to facilitate easy servicing
- Coil springs and spring bases
- Rubber side snubbers to prevent surge motion
- Heavy duty impact section
- Optional stepped deck layout
- Vibrating units attached with threaded bolts
- V-belt drive
- Flywheel guard
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Adjustable grizzly gap
- Oil lubricated
- Self-adjusting motor base
- Rubber side snubbers
- Side tension clamp rails
- Fully supported by our Weir Minerals global service network

TRIO® TIO SERIES INCLINED SCREENS

Trio® TIO series screens are designed for continuous, reliable operation in the most demanding wet and dry applications. These high performance screens are available in 2, 3 and 4-deck configurations. Screen support decks can be supplied to accommodate all media types including woven wire mesh, Linathane® polyurethane, Linard® rubber panels, self-cleaning mesh and punch plate. The stroke can be easily adjusted using counterweights that are bolted to the flywheels.

Applications

- Stationary and mobile operations
- Both wet and dry continuous duty operations
- Secondary screening and finish sizing
- Aggregate processing
- Mining and industrial minerals screening applications
- Environmental mitigation
- Recycling separation processes

Media options

- Side tension wire
- Linathane® polyurethane modular panels
- Linard® rubber modular panels
- Self cleaning mesh
- Steel punch plate
- Screen support decks can be supplied to accommodate all media types

Design features

- Available in double, triple and quad deck arrangements
- One sheet side wall
- All-bolted construction using locking bolts to ensure structural integrity
- Oil lubricated
- Designed to allow for easy stroke adjustment
- The vibrating units are attached with threaded bolts for easy servicing
- Can be supplied with a wet kit (optional)
- Can be supplied with either left hand or right hand drive arrangements
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Can be supplied with a wet kit (optional)
- V-belt drive
- Self-adjusting motor base
- Can be supplied with coil springs or rubber buffers
- Rubber side snubbers to prevent surge motion
- Crowned or flat deck support frames
- Replaceable liner for feed box and discharge lip
- Rubber side snubbers
- Side tension clamp rails
- Fully supported by our Weir Minerals global service network

TRIO® TTH SERIES HORIZONTAL SCREENS

Trio® horizontal screens are designed to deliver the perfect combination of quality, superior performance, and exceptional reliability when processing even the most difficult materials. Gear cases are attached using threaded bolts to facilitate easy maintenance and servicing. Accepting feed sizes of up to 250mm, our Trio® TTH series is fitted with a variable pitch drive sheave allowing for quick speed adjustment.

Applications

- Wet and dry continuous duty operations
- Aggregate processing
- Mining and industrial minerals screening applications
- Environmental mitigation
- Recycling separation processes

Media options

- Side tension wire
- Polyurethane cloth
- Linathane® polyurethane modular panels
- Linard® rubber modular panels

Design features

- All-bolted construction using locking bolts to ensure structural integrity
- One sheet side wall
- Adjustable timing of stroke motion
- Crowned or flat deck support frames
- Oil lubricated
- Threaded bolts are used to attach gear cases to facilitate quick and easy servicing
- Variable pitch drive sheave
- Rubber side snubbers
- Side tension clamp rails
- Lined feed box
- Lined discharge lips
- Available in up to a four deck arrangement
- Can be supplied with Synertrex® technology (please see page 23 for more information)
- Can be supplied with a wet kit (optional)
- Fully supported by our Weir Minerals global service network

Enduron® VD Series Typical Physical Properties

MODEL	SIZE (W X L)	SPEED*		TOTAL SCREEN AREA	DRIVE	INSTALLATION ANGLE
		VIBRATING MOTOR	EXCITER			
	mm	pole	rpm	m2		deg
VD6	610 x 2,100	4 and 6	N/A	1.28	VM	3-5
VD9	915 x 2,440	4 and 6	N/A	2.23	VM	3-5
VD12	1,220 x 3,050	4 and 6	N/A	3.72	VM	3-5
VD12	1,220 x 3,660	4 and 6	N/A	4.47	VM	3-5
VD15	1,525 x 3,660	4 and 6	980	5.58	VM/Exciter	3-5
VD15	1,525 x 3,810	4 and 6	980	5.81	VM/Exciter	3-5
VD18	1,830 x 3,810	4 and 6	980	6.98	VM/Exciter	3-5
VD21	2,135 x 4,880	6	980	10.42	Exciter	3-5
VD24	2,440 x 4,880	6	980	11.91	Exciter	3-5
VD24	2,440 x 6,100	6	980	14.88	Exciter	5

* Exciter and vibrating motor speeds have been calculated assuming electricity is supplied at 50Hz.

Enduron® Exciters Typical Physical Properties*

MODEL	MIN CENTRIFUGAL FORCE**	MAX CENTRIFUGAL FORCE**	MIN WORKING TORQUE**	MAX WORKING TORQUE**	INSTALLED MOTOR POWER	WEIGHT
	kN	kN	kg.cm	kg.cm	kW	kg
Nr2	74	158	703	1,513	7.5	625
MK3	158	316	1,490	2,980	15	805
MK4	229	458	2,137	4,274	18.5	1,328
LTX6	390	716	3,636	6,622	30	1,822
LTX8	578	937	5,420	8,664	45	2,432
LTX10	676	1,234	6,342	11,415	55	3,263

* The values are determined using a reference speed of 980 rpm. The exciters can operate between 750 and 1000 rpm.
** The minimum and maximum centrifugal forces and torques are achieved by adjusting the "out-of-balance" mass.

Trio® TTH Series Typical Physical Properties

MODEL*	DECK SIZE**		DECKS	TOTAL DECK SURFACE AREA	MAX FEED SIZE	POWER		WEIGHT***	OVERALL SIZE (W X L X H)
	mm	ft		m^2	mm	kW	HP	kg	mm
TTH4142	1,257 x 4,270	4 x 14	2	10.7	250	18.5	25	6,200	2,690 x 4,890 x 1,600
TTH5162	1,562 x 4,880	5 x 16	2	15.2	250	22	30	7,100	2,955 x 5,604 x 1,600
TTH5163	1,562 x 4,880	5 x 16	3	22.9	250	22	30	8,200	2,955 x 5,604 x 1,974
TTH6162	1,930 x 4,880	6 x 16	2	18.8	250	22	30	7,200	3,355 x 5,604 x 1,600
TTH6163	1,930 x 4,880	6 x 16	3	28.3	250	30	40	9,000	3,364 x 5,604 x 1,974
TTH6202	1,930 x 6,096	6 x 20	2	23.5	250	30	40	8,700	3,364 x 6,820 x 1,600
TTH6203	1,930 x 6,096	6 x 20	3	35.3	250	30	40	10,500	3,364 x 6,820 x 2,005
TTH6203H	1,930 x 6,096	6 x 20	3	35.3	250	30	40	10,700	3,364 x 6,820 x 2,160
TTH6204	1,930 x 6,096	6 x 20	4	47.1	250	37	50	12,275	3,550 x 6,820 x 2,424
TTH7202	2,235 x 6,096	7 x 20	2	27.2	400	37	50	10,830	3,755 x 6,820 x 1,700
TTH7203	2,235 x 6,096	7 x 20	3	40.9	250	37	50	12,800	3,800 x 6,820 x 2,220
TTH8202	2,540 x 6,096	8 x 20	2	31.0	250	37	50	11,800	4,060 x 6,820 x 1,710
TTH8203	2,540 x 6,096	8 x 20	3	46.5	250	37	50	13,900	4,160 x 6,820 x 2,230
TTH9202	2,845 x 6,096	9 x 20	2	34.7	200	45	60	13,360	4,700 x 6,820 x 1,800

* All models have an inclination angle of 0°.
** Deck size is defined from inner side plate to inner side plate multiplied by total length of the deck. Effective screening area may differ as different screen media options are selected.
*** Weight includes motor and excludes screen media and wet kit.

Trio® TIOSP Series Typical Physical Properties

MODEL*	DECK SIZE**		DECKS	TOTAL DECK SURFACE AREA	MAX FEED SIZE	POWER		WEIGHT***	OVERALL SIZE (W X L X H)
	mm	ft		m^2	mm	kW	HP	kg	mm
TIOSP4101	1,270 x 3,060	4 x 10	1	3.9	400	15	20	4,480	2,415 x 3,530 x 2,426
TIOSP4102	1,270 x 3,060	4 x 10	2	7.8	400	15	20	4,680	2,440 x 3,530 x 2,520
TIOSP5142	1,575 x 4,270	5 x 14	2	13.5	400	18.5	25	7,300	2,770 x 4,656 x 2,995
TIOSP5162	1,575 x 4,880	5 x 16	2	15.4	400	22	30	7,575	3,235 x 5,210 x 2,850
TIOSP5163	1,575 x 4,880	5 x 16	3	23.1	400	22	30	9,790	2,840 x 5,210 x 3,675
TIOSP6162	1,880 x 4,880	6 x 16	2	18.3	400	30	40	8,850	3,220 x 5,210 x 3,236
TIOSP6163	1,880 x 4,880	6 x 16	3	27.5	400	30	40	9,870	3,220 x 5,210 x 3,780
TIOSP6202	1,880 x 6,096	6 x 20	2	22.9	400	37	50	10,400	3,260 x 6,385 x 3,570
TIOSP7202	2,180 x 6,096	7 x 20	2	26.6	400	18.5 x 2	25 x 2	13,535	3,500 x 6,385 x 3,695
TIOSP8202	2,490 x 6,096	8 x 20	2	30.4	400	22 x 2	30 x 2	14,440	3,836 x 6,390 x 3,640
TIOSP8203	2,440 x 6,096	8 x 20	3	45.5	400	30 x 2	40 x 2	18,340	3,930 x 6,600 x 4,425
TIOSP8243	2,440 x 7,325	8 x 24	3	54.7	400	37 x 2	50 x 2	21,400	3,950 x 7,535 x 4,960

* All models have an inclination angle of 15°.
** Deck size is defined from inner side plate to inner side plate multiplied by total length of the deck. Effective screening area may differ as different screen media options are selected.
*** Weight includes motor and excludes screen media and wet kit.

Technical Specifications

Trio® TIO Series Typical Physical Properties

MODEL*	DECK SIZE**		DECKS	TOTAL DECK SURFACE AREA	MAX FEED SIZE	POWER		WEIGHT***	OVERALL SIZE (W X L X H)
	mm	ft		m²	mm	kW	HP	kg	mm
TIO5142	1,575 x 4,280	5 x 14	2	13.5	200	11	15	4,550	2,690 x 4,666 x 3,110
TIO5143	1,575 x 4,280	5 x 14	3	20.2	200	11	15	5,754	2,690 x 4,665 x 3,586
TIO5162	1,575 x 4,890	5 x 16	2	15.4	200	11	15	5,016	2,680 x 5,240 x 3,340
TIO5163	1,575 x 4,890	5 x 16	3	23.1	200	11	15	6,250	2,690 x 5,240 x 3,795
TIO6162	1,880 x 4,890	6 x 16	2	18.4	200	15	20	5,680	3,020 x 5,240 x 3,340
TIO6163	1,880 x 4,890	6 x 16	3	27.6	200	15	20	7,110	3,020 x 5,240 x 3,816
TIO6202	1,880 x 6,105	6 x 20	2	23.0	200	18.5	25	6,420	3,020 x 6,380 x 3,730
TIO6203	1,880 x 6,105	6 x 20	3	34.4	200	18.5	25	7,930	3,020 x 6,380 x 4,240
TIO6204	1,880 x 6,105	6 x 20	4	45.9	200	22	30	10,865	3,150 x 6,380 x 4,865
TIO7202	2,184 x 6,105	7 x 20	2	26.7	200	22	30	9,345	3,480 x 6,390 x 4,155
TIO7203	2,184 x 6,105	7 x 20	3	40.0	200	18.5x2	25x2	14,070	3,480 x 6,385 x 4,730
TIO7204	2,184 x 6,096	7 x 20	4	53.3	200	22x2	30x2	16,385	3,560 x 6,385 x 5,310
TIO7242	2,184 x 7,325	7 x 24	2	32.0	200	22x2	30x2	11,780	3,550 x 7,530 x 4,394
TIO7243	2,184 x 7,325	7 x 24	3	48.0	200	22x2	30x2	13,900	3,460 x 7,423 x 5,080
TIO8202	2,494 x 6,096	8 x 20	2	30.4	200	18.5x2	25x2	12,095	3,760 x 6,390 x 4,000
TIO8203	2,494 x 6,096	8 x 20	3	45.6	200	22x2	30x2	15,375	3,820 x 6,390 x 4,872
TIO8204	2,494 x 6,096	8 x 20	4	60.8	200	22x2	30x2	20,650	3,820 x 6,450 x 5,550
TIO8242	2,494 x 7,325	8 x 24	2	36.5	200	22x2	30x2	14,570	3,960 x 7,550 x 4,470
TIO8243	2,494 x 7,325	8 x 24	3	54.8	200	30x2	40x2	18,950	3,900 x 7,550 x 5,244

* All models have an inclination angle of 20°.
** Deck size is defined from inner side plate to inner side plate multiplied by total length of the deck. Effective screening area may differ as different screen media options are selected.
*** Weight includes motor and excludes screen media and wet kit.

Trio® THDS Series Typical Physical Properties

MODEL*	DECK SIZE**		DECKS	GRIZZLY STEPS	SURFACE AREA PER DECK	MAX FEED SIZE	POWER		WEIGHT***	OVERALL SIZE (W X L X H)
	mm	ft			m²	mm	kW	HP	kg	mm
THDS5141	1,575 x 4,280	5 x 14	1	3	6.7	800	22	30	9,990	2,855 x 5,100 x 3,145
THDS6151	1,850 x 4,675	6 x 15	1	3	8.5	800	37	50	11,125	3,250 x 4,685 x 2,785
THDS7161	2,156 x 4,780	7 x 16	1	3	10.3	1200	37	50	13,920	3,550 x 4,640 x 3,060

* All models have an inclination angle of 15°
** Deck size is defined from inner side plate to inner side plate multiplied by total length of the deck. Effective screening area may differ as different screen media options are selected.
*** Weight includes motor and excludes screen media and wet kit

Please Note: the data above applies to screens which feature a grizzly gap of 100mm as standard.

Synertrex® enabled

Engineered for the future mine, Weir's proprietary Synertrex® Industrial Internet of Things (IIoT) technology enhances the performance of our Enduron® and Trio® range of screens.

The intelligent analytics platform converts equipment operating data into advanced insights, strengthening the overall performance of your screens and enabling them to operate at an optimum level.

Synertrex® technology instantly alerts you to any change in the screen's operating conditions. Immediate notification of changes to the screen's acceleration, excitation levels, frequency or structural health reducing the need to visually inspect the screen, providing peace of mind that your screen is running at its optimal condition.

IIoT in screening

Synertrex® remote monitoring goes beyond identifying if a screen is operational. Synertrex® IIoT technology continuously monitors various operating and performance parameters and alerts operators when a screen begins to act beyond its optimal parameters.

- Health of the screen's suspension and drive - to predict and prevent failure
- Screen dynamics - to identify overloading and feed bias
- Screen's excitation levels - to understand the screen's impact on structural components
- Speed of the screen - to ensure that the screen is running at the optimum design/performance point
- Overall operational performance

Monitoring capabilities

Synertrex® can be integrated into existing control systems such as SCADA (Supervisory Control & Data Acquisition System) allowing users to monitor all equipment from one platform.

Synertrex® screen monitoring capabilities include:

Structural health

- Structural failure
- Screen motion
- Suspension health
- Root cause analysis
- Health status
- Regular performance alerts
- Critical failure alarms

Performance

- Speed (RPM)
- Excitation (g)
- Stroke (mm)
- Drive balance

Drive health

- Gearbox Health
- Bearing Health
- Shaft failure
- Regular performance alerts
- Critical failure alarms

Production

- Recirculating load*
- Load sensing*
- Throughput
- HMI (human machine interface)
- Utilisation

* Requires additional sensing equipment being installed on peripheral equipment

SYNERTREX®

Minerals

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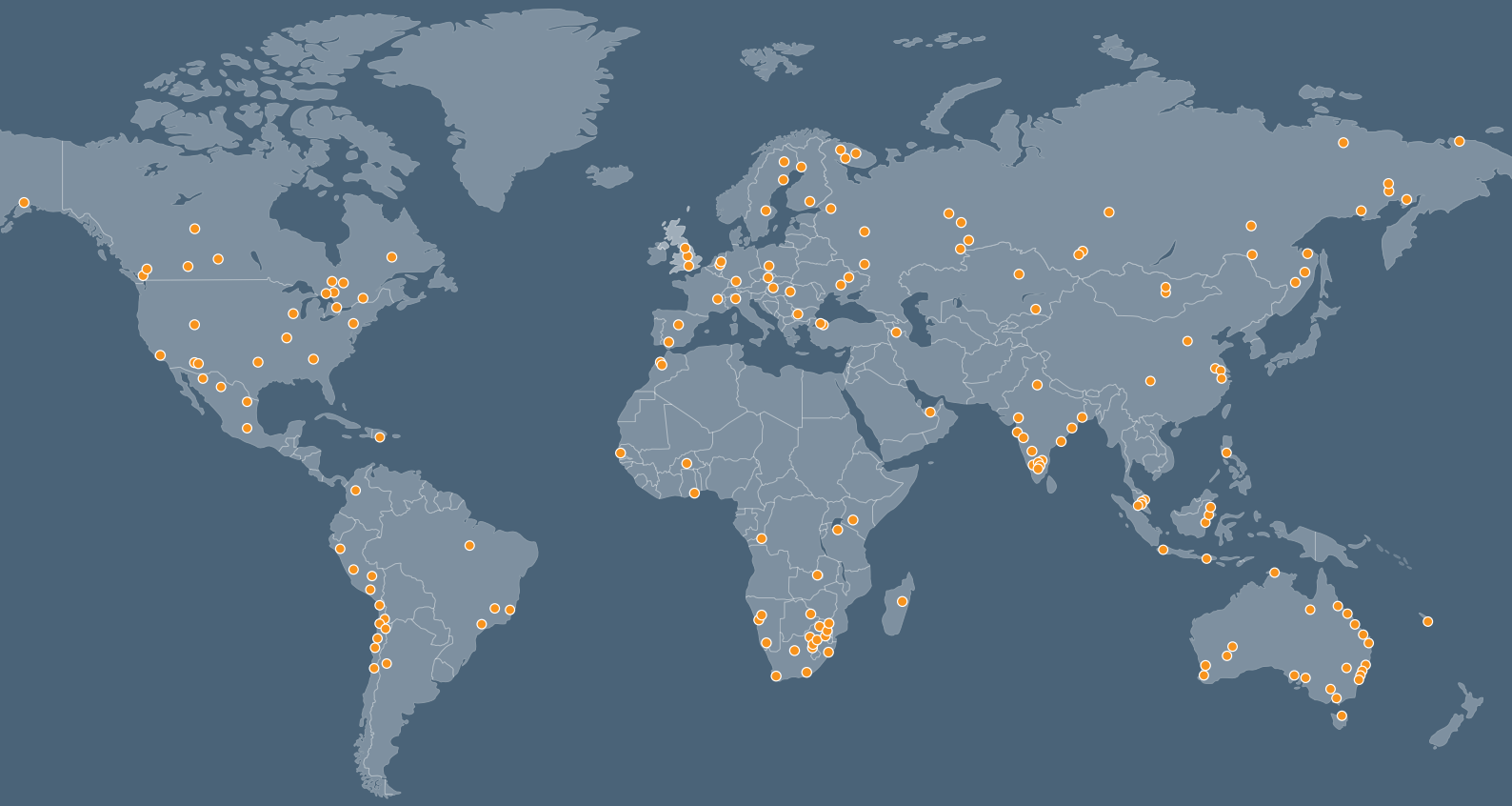

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