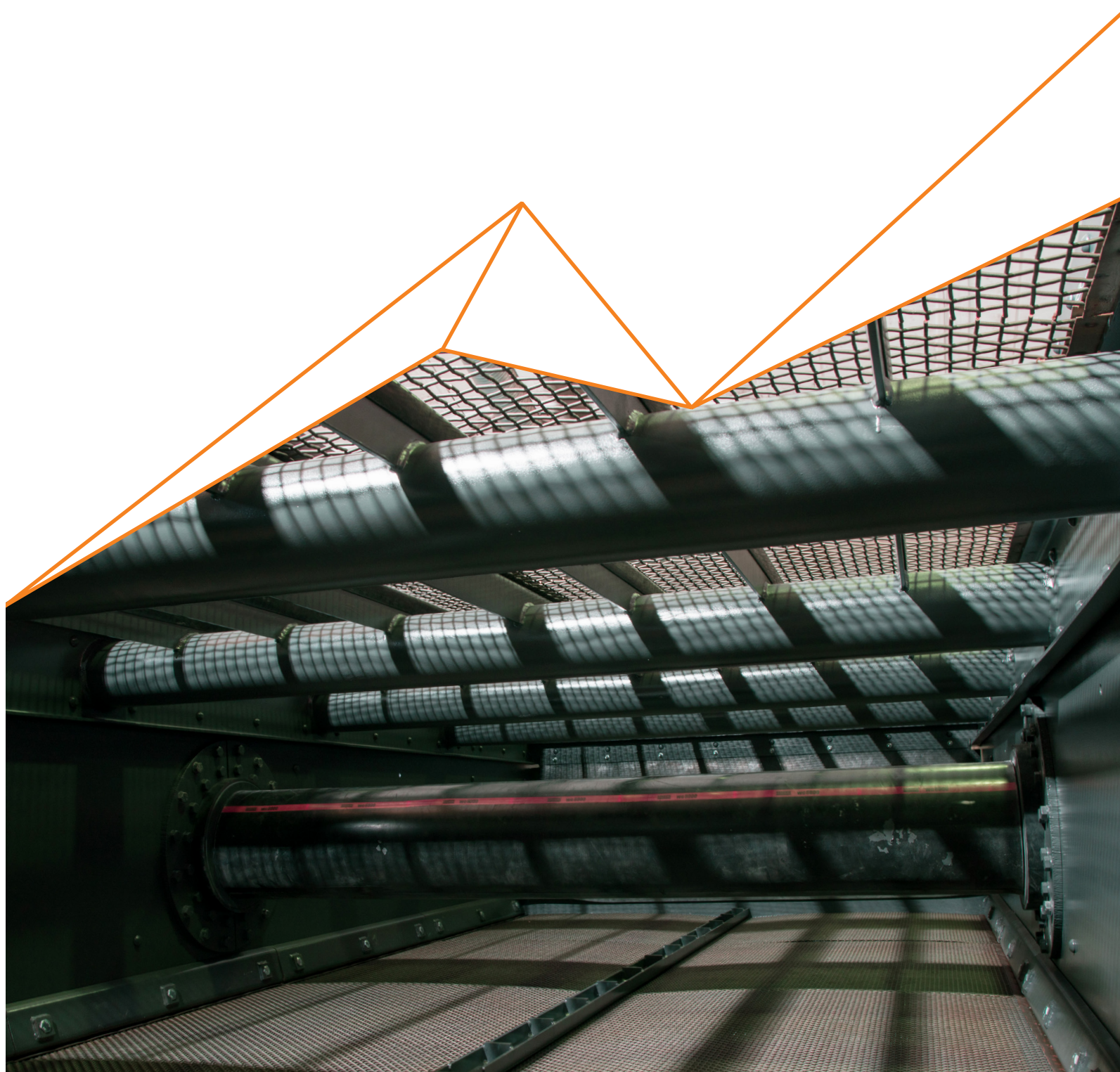




# OPTIMIZING YOUR SCREENING PROCESS



# A GREAT RANGE OF SCREENS FOR ALL APPLICATIONS

Our screens are the result of over 50 years of continuous development

All critical components have been field-tested with various applications. The results have been subject to careful analysis and compared with our customers' experience and requirements.

Our screens have shown themselves to be extremely reliable, economic, easy to use and maintain, and suitable for most applications.

## SCREENS FOR ALL APPLICATIONS

Vibrating equipment commonly used for separating different grades of crushed minerals uses either stratification (screening with a vibrating bed) or free-fall screening.

Conventional screens used in the aggregate industry have great versatility as regards to separation

limits and material size processed. They work on the stratification principle; the vibration of the machine shifts the material bed so that finer material passes through the coarser material. This enables particles smaller than the mesh of the screen to pass through it.

Screens operating on the free-fall principle have been developed as an alternative to conventional screens. They are used successfully in both mobile and stationary plants. Sandvik have further developed simple free-fall screening by building each deck in several sections and optimizing the inclination of the deck sections. Free-fall screens can be built much shorter and with smaller footprint than conventional screens of comparable capacities.

Sometimes, non-abrasive, soft or sticky materials and materials with high moisture content are best

screened with equipment that does not rely on vibration as an operating principle. Sandvik offers roller screens that are ideal for careful screening of such materials.

## A FULL RANGE OF SCREENING MEDIA

An efficient screen also needs efficient wear protection, dust encapsulation and screening media products, thus satisfying increased requirements for screening accuracy, clean air, efficient production and high up-time.

We have a full range of screening media in polyurethane and other rubber qualities.

Take a closer look at our range of machines and media. Our people are the true experts who can help you optimize your screening process!





# INCLINED CIRCULAR MOTION SK SCREENS

Our new SK Circular Motion Screens are specially designed for extra heavy-duty, medium and fine screening applications. This inclined screen is ideal for use screening after primary and secondary crushing, as a splitter screen to divide flows within a plant, and for final screening of a finished fraction.

## PRODUCT FEATURES

- Installing different type of screening medias and customized engineering for many features is possible
- Possibility for acceleration rate of max. 3.5 G results in increased performance
- Drive assembly and modular mechanism are designed for easy servicing and maintenance
- A numerous variation of options available
- Using long lifetime components gives decreased maintenance costs and minimized downtime

## SK SCREENS

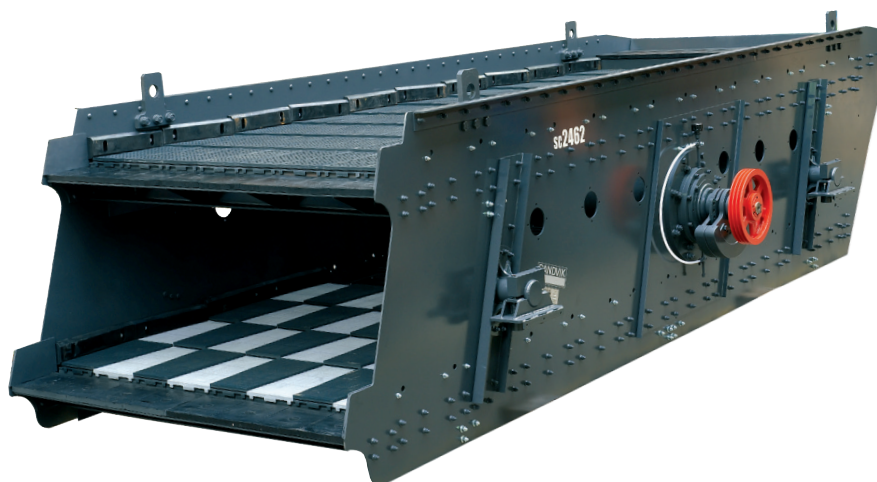
Model*	Dimensions mm W x L	2 Decks		3 Decks		4 Decks	
		Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW
SK154_	1 500 × 3 600	3 700	15	4 500	15	–	–
SK185_	1 800 × 4 800	4 600	15	6 300	18.5	8 200	22
SK186_	1 800 × 6 000	6 100	18.5	8 400	22	**	**
SK216_	2 100 × 6 000	6 600	18.5	9 000	30	11 400	37
SK246_	2 400 × 6 000	7 300	22	10 300	30	**	**
SK306_	3 000 × 6 000	10 000	30	14 200	45	–	–
SK307_	3 000 × 7 000	11 800	37	15 500	45	–	–
SK308_	3 000 × 8 000	12 600	37	–	–	–	–

All dimensions are inside nominal dimensions.

\* The number of decks are added at the end of the code. For example, SK1542 has two decks.

\*\* 4-deck models available, values to be given by request.

SK-range	
Rotation speed	780 – 900 rpm
Stroke	7 – 12 mm
G-force	up to 3.5 G
Inclination	15 to 22 deg
Separation	1 – 130 mm
Max feed size	200 mm



# INCLINED CIRCULAR MOTION SC SCREENS

Our SC Circular Motion Screens can be used in a wide range of screening applications than SK screens. Generally SC screen construction is more robust than SK allowing to receive and process more coarse feed material size.

## PRODUCT FEATURES

- Maximized versatility concerning the screening medias.
- Acceleration can be increased up to 4,5 G depending the application to ensure maximized screening efficiency.
- Suits also for extremely coarse feed material.
- Movement control with friction brakes as standard.
- Ready holes for washing pipes as standard.
- Longer feed box and discharge lips
- Wide-ranging variation of options available.

## SC SCREENS

Model*	Dimensions mm W × L	2 Decks		3 Decks		4 Decks	
		Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW
SC124_	1 200 × 3 600	4 200	15	5 100	15	–	–
SC154_	1 500 × 3 600	4 700	15	–	–	–	–
SC155_	1 500 × 4 800	5 700	18.5	6 800	22	–	–
SC185_	1 800 × 4 800	6 200	18.5	8 300	22	–	–
SC186_	1 800 × 6 000	7 400	22	9 800	30	12 000	45
SC215_	2 100 × 4 800	7 100	22	9 200	30	–	–
SC216_	2 100 × 6 000	7 900	22	10 900	37	–	–
SC245_	2 400 × 4 800	7 800	22	10 300	37	–	–
SC246_	2 400 × 6 000	9 300	30	12 500	37	15 900	2 × 30
SC247_	2 400 × 7 200	10 500	37	14 600	45	–	–
SC278_	2 700 × 8 400	14 400	45	19 800	2 × 37	–	–
SC306_	3 000 × 6 000	12 200	37	18 300	2 × 30	–	–
SC307_	3 000 × 4 200	14 400	45	20 600	2 × 37	–	–
SC308_	3 000 × 8 400	17 800	2 × 30	22 300	2 × 37	–	–

All dimensions are inside nominal dimensions.

\* The number of decks are added at the end of the code. For example, SC1242 has two decks.

SC-range	
Rotation speed	600 – 1 100 rpm
Stroke	5 – 13 (17) mm
G-force	up to 3.5 G (4.5 G with low bed depth)
Inclination	15 to 20 deg
Separation	1 – 140 mm
Max feed size	300 mm



# INCLINED CIRCULAR MOTION MSO SCREENS

Our MSO Circular Motion Screens are specially designed for extra heavy-duty, medium and fine screening applications.

It is a high-capacity machine that has been engineered to increase material speed at the feed end and decrease it at the discharge end, resulting in far more accurate screening.

## PRODUCT FEATURES

- Installation of the mechanism on the top of the screen body offers easy maintenance.
- Suitable wear protection for heavy mining applications available.
- Robust construction enables screening of high bulk density materials.
- Elliptic stroke with high material speed on feed end and low material speed on discharge end gives maximum capacity and screening efficiency.

## CLASSIFICATION SCREEN MSO

Model*	Dimensions mm W x L	Type S, 1 Deck		Type D, 2 Decks		Type T, 3 Decks	
		Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW
MSO1030_	1 000 x 3 000	1 630	5.5	2 200	2 x 5.5	2 780	2 x 5.5
MSO1230_	1 200 x 3 000	1 720	5.5	2 400	2 x 5.5	–	–
MSO1240_	1 200 x 4 000	2 320	2 x 5.5	2 900	2 x 5.5	3 920	2 x 5.5
MSO1540_	1 500 x 4 000	2 620	2 x 5.5	3 530	15	4 510	15
MSO1550_	1 500 x 5 000	3 150	2 x 5.5	4 020	15	5 140	15
MSO1850_	1 800 x 5 000	3 890	15	4 780	15	7 520	15
MSO1860_	1 800 x 6 000	4 380	15	6 860	22	8 280	22
MSO2160_	2 100 x 6 000	4 800	15	7 660	22	9 890	22
MSO2460_	2 400 x 6 000	5 410	15	8 830	22	13 660	22
MSO2470_	2 700 x 7 000	–	–	10 800	30	–	–

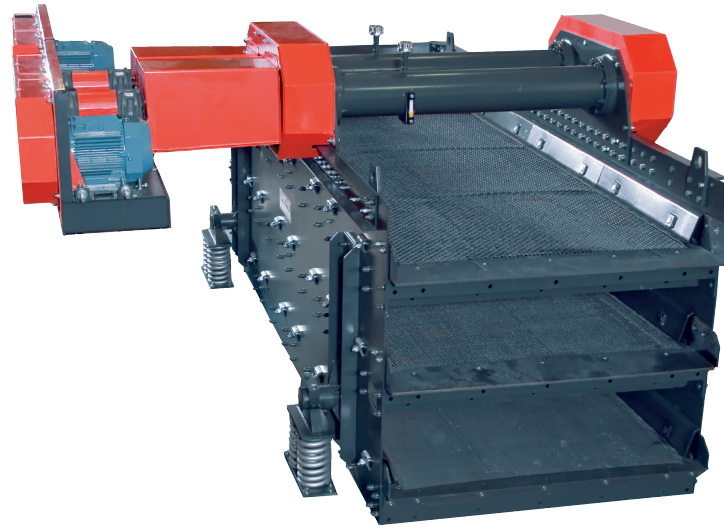
All dimensions are inside nominal dimensions.

NOTE: Heavy-duty Mining version available for all models (combination of options).

\* The number of decks are added at the end of the code by a letter (S, D or T).

For example MSO1540S has one deck.

MSO-range	
Rotation speed	730 – 940 rpm
Stroke	4 – 16 mm
G-force	up to 5.0 G (at discharge end)
Inclination	15 to 20 deg
Separation	2 – 140 mm
Max feed size	300 mm



# LINEAR MOTION LF SCREENS

Our LF Linear Motion Screens are designed for accurate secondary screening and final sizing, as well as scalping ahead of crushers in mining applications.

LF screens are an ideal choice in conditions where the height is limited by surrounding facilities, for screening small and short fractions, and when heavy material is loaded on the screen.

## PRODUCT FEATURES

- Linear stroke improves screening and increases productivity.
- Easy maintenance due to mechanism installation on the top of the screen body.
- Suitable wear protection for heavy mining applications available.
- Compact design and horizontal or low slope angle allows installation in height limited locations.
- Robust construction enables screening of high bulk density materials.
- Plenty of options available for different kind of applications.

## LINEAR MOTION LF SCREEN

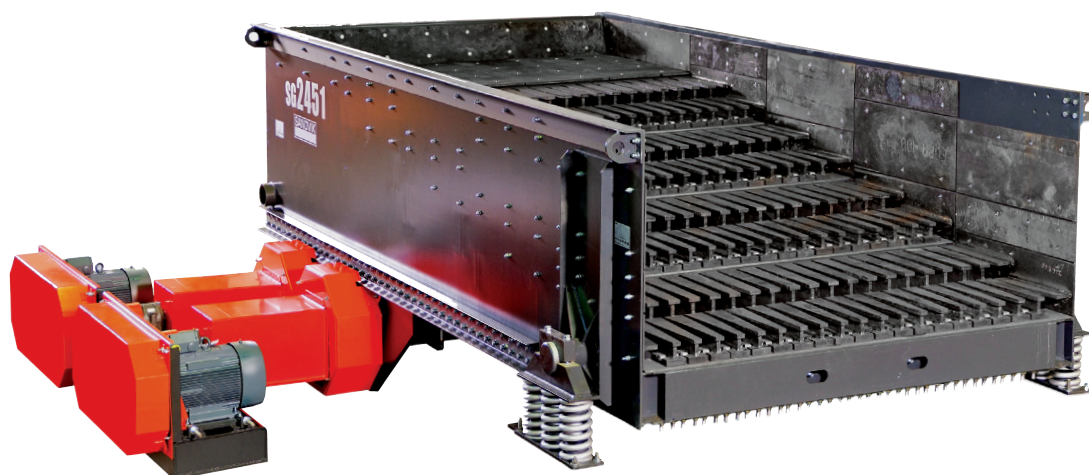
Model*	Dimensions mm W × L	Type S, 1 Deck		Type D, 2 Decks		Type T, 3 Decks	
		Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW	Weight (without screening media) kg	Motor Size, kW
LF1030_	1 000 × 3 000	1 990	2 × 5.5	2 450	2 × 5.5	3 040	2 × 5.5
LF1230_	1 200 × 3 000	2 130	2 × 5.5	2 770	2 × 5.5	–	–
LF1240_	1 200 × 4 000	2 650	2 × 5.5	3 530	2 × 11	4 250	2 × 11
LF1540_	1 500 × 4 000	2 890	2 × 5.5	3 880	2 × 11	4 680	2 × 11
LF1550_	1 500 × 5 000	3 770	2 × 11	4 350	2 × 11	6 000	2 × 15
LF1850_	1 800 × 5 000	4 220	2 × 11	5 160	2 × 11	7 280	2 × 15
LF1860_	1 800 × 6 000	4 700	2 × 11	6 680	2 × 15	10 100	2 × 22
LF2160_	2 100 × 6 000	5 150	2 × 11	7 460	2 × 15	11 810	2 × 22
LF2440_	2 400 × 4 000	4 500	2 × 11	9 500	2 × 22	–	–
LF2450_	2 400 × 5 000	–	–	10 200	2 × 22	–	–
LF2460_	2 400 × 6 000	6 580	2 × 15	11 000	2 × 22	13 340	2 × 30
LF2470_	2 400 × 7 000	7 280	2 × 15	12 200	2 × 22	15 650	2 × 30
LF2770_	2 700 × 7 000	–	–	14 350	2 × 30	–	–
LF3060_	3 000 × 6 000	13 360	2 × 30	14 000	2 × 30	–	–
LF3070_	3 000 × 7 000	–	–	15 430	2 × 30	–	–

All dimensions are inside nominal dimensions.

NOTE: Heavy-duty Mining version available for all models (combination of options).

\* The number of decks are added at the end of the code by a letter (S, D or T). For example LF1550T has three decks.

LF-range	
Rotation speed	730 – 940 rpm
Stroke	5 – 16 mm
G-force	up to 5.0 G
Inclination	–3 to 10 deg
Separation	2 – 100 mm
Max feed size	300 mm



# SG GRIZZLY SCREENS

Our SG Grizzly Screens are robust linear-motion screens designed for heavy-duty scalping, and the removal of fines from the feed before primary crushing.

These screens are ideal for tough primary screening of blasted rock, ripped rock and gravel with a high fines content.

## PRODUCT FEATURES

- Double shaft mechanism generates an linear stroke that gives better performance.
- Versatile adjustment possibilities enables best achievable screening performance.
- Large separation range available with one or two deck construction.
- High acceleration keeps the grizzly section clean.

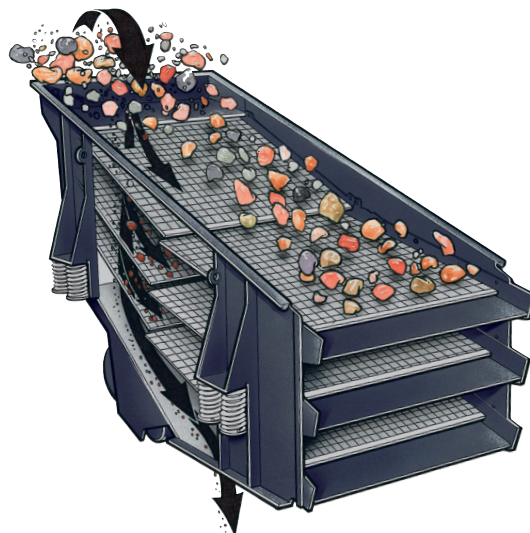
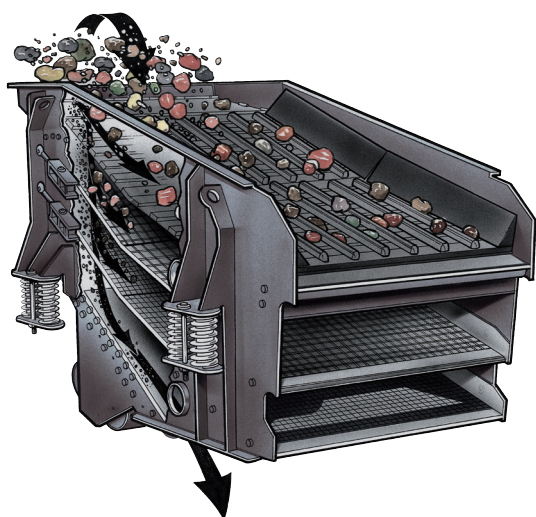
## SG GRIZZLY SCREEN

Model	Dimensions, mm W × L	1 Deck Weight (with grizzlies, gap 100 mm) kg	2 Decks Weight (with grizzlies, gap 100 mm) kg	Motor Size, kW
SG1231	1 200 × 3 000	4 150	–	2 × 7.5
SG1531	1 500 × 3 000	4 720	–	2 × 7.5
SG1831	1 800 × 3 000	6 100	–	2 × 11
SG1541	1 500 × 3 900	6 220	–	2 × 11
SG1841	1 800 × 3 900	7 500	–	2 × 11
SG2141	2 100 × 3 900	9 260	–	2 × 18.5
SG1851	1 800 × 4 800	10 500	–	2 × 18.5
SG2151	2 100 × 4 800	11 640	–	2 × 18.5
SG2451	2 400 × 4 800	13 200	–	2 × 18.5
SG1242	1 200 × 3 900	–	6 100	2 × 11
SG1542	1 500 × 3 900	–	7 600	2 × 11
SG1842	1 800 × 3 900	–	9 650	2 × 18.5
SG2452X	2 400 × 5 160	–	20 500	2 × 37

All dimensions are inside nominal dimensions.

SG-range	
Rotation speed	700 – 980 rpm
Stroke	5 – 14 mm
G-force	up to 4.5 G
Inclination	5 to 10 deg
Separation	60 – 250 mm
Max feed size	500 – 1 500 mm

Values are dependent of the actual screen model.



# SS AND SF FREE-FALL SCREENS

Our SS and SF Free-Fall Screens are compact and high-capacity screens designed to handle large loads of material despite their modest size. These screens have steeply inclined decks and a linear throw.

SS screens are often used for instance instead of a slot sizer to remove natural fines before crushers and SF screens for instance screening crushed stone to asphalt fractions and to railway ballast.

## PRODUCT FEATURES

- Compact size (small foot print, low weight, low dynamic loads) allows light support structure design and easy installation.
- Economical to use because of the low power consumption.
- High capacity due to the free-fall principle enabling a quick removal of large amounts of fines.
- Simple drive system by two un-balanced vibrating motors, no gears.
- Easy to encapsulate to protect environment against dust.

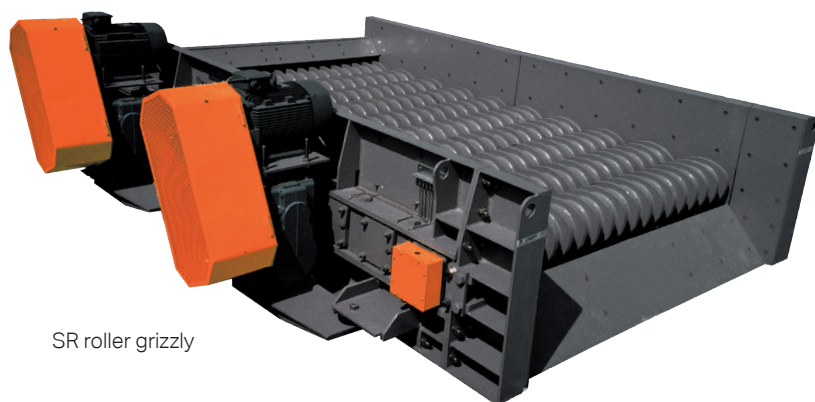
## SS AND SF FREE-FALL SCREENS

Model	Dimensions, mm W × L	Weight, kg	Motor Size, kW
SS1012	1 000 × 1 330	1 000	2 × 2.0
SS1013H	1 000 × 1 460	1 300	2 × 2.6
SS1223	1 200 × 2 435	1 800	2 × 3.0
SS1233	1 200 × 2 500	2 000	2 × 3.0
SS1233H	1 200 × 2 990	2 700	2 × 5.5
SS1433	1 400 × 2 500	2 600	2 × 5.5
SS1633H	1 600 × 2 920	4 450	2 × 5.8
SS1823	1 800 × 2 645	3 800	2 × 8.5
SS1833	1 800 × 2 645	3 800	2 × 8.5
SF1443	1 400 × 3 540	3 200	2 × 8.5
SF1843	1 800 × 4 290	6 100	2 × 11.5
SF1844	1 800 × 4 290	7 700	2 × 14.5

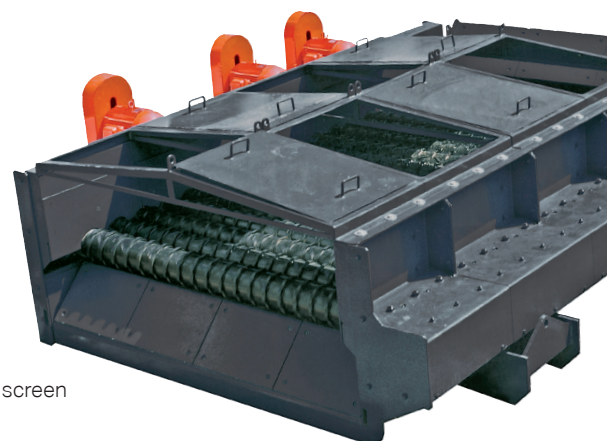
All dimensions are inside nominal dimensions. Motor power at 50 Hz net.

	SS-range	SF-range
Rotation speed	864 – 1 152 rpm	864 – 960 rpm
Stroke	5.5 – 9 mm	8 – 9 mm
G-force	up to 5.0 G	up to 5.0 G
Inclination	std	std
Separation	2 – 100 mm	2 – 64 mm
Max feed size	120 – 350 mm	120 mm

Values are dependent of the actual screen model.



SR roller grizzly



SR roller screen

# SR-ROLLER SCREENS

Our SR Roller Screens are compact, non-vibrating roller grizzlies, roller screens and roller screen crushers ideal for use with non-abrasive materials like coal and limestone, even when materials are wet and sticky.

Roller grizzly and roller screen are a high-capacity equipment and easy to encapsulate against noise and dust.

Roller screen crusher is designed for washed coal and is already a fully encapsulated unit.

## PRODUCT FEATURES

- No vibration, thus lighter supporting structure requirements.
- Screens wet and sticky materials without blinding, giving increased screening efficiency with difficult materials.
- Easy to encapsulate (to minimize dust and noise emissions).
- Reliable efficiency and efficient screening action means that minimized screening area and optimized screen size can be used.

## SR-ROLLER GRIZZLY, PRIMARY

Model	Dimensions mm W × L	Weight kg	Motor Size kW
SR1221	1 200 × 2 000	7 200	22
SR1521	1 500 × 2 000	7 900	22
SR1821	1 800 × 2 000	8 600	30
SR2131	2 100 × 2 000	15 100	2 × 22
SR2431	2 400 × 2 000	15 500	2 × 22
SR1541	1 500 × 4 000	14 500	2 × 22
SR1841	1 800 × 4 000	15 500	2 × 22
SR2141	2 100 × 4 000	16 500	2 × 22
SR2441	2 400 × 4 000	18 500	2 × 22
SR1861	1 800 × 6 000	24 500	3 × 30
SR2161	2 100 × 6 000	26 500	3 × 30
SR2461	2 400 × 6 000	28 500	3 × 30

All dimensions are inside nominal dimensions.  
All models available also for secondary duty.

Rotation speed	25 – 40 rpm
Inclination	5 – 15 deg
Separation	50 – 180 mm
Max feed size	1 500 / 400 mm

Values are dependent of the actual screen model.

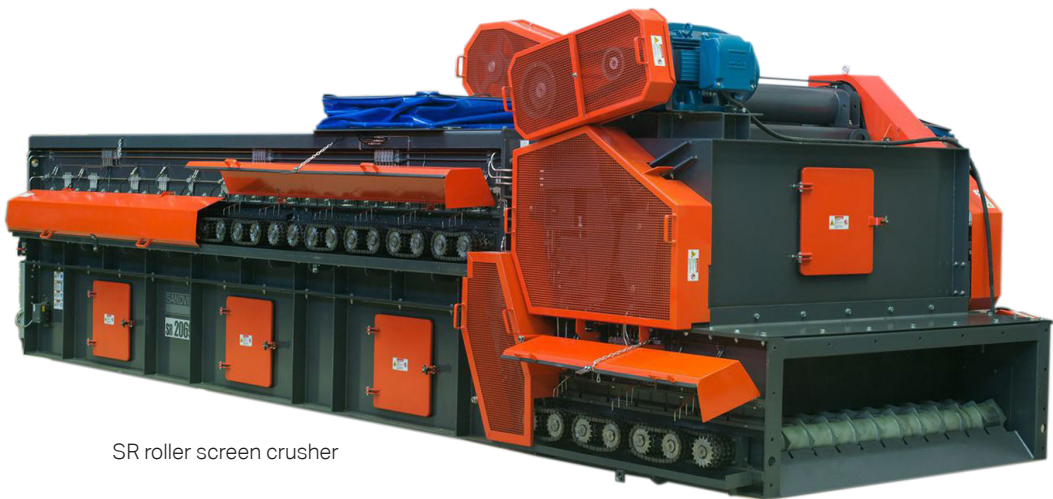
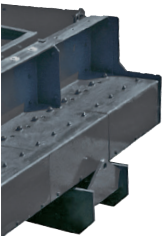
## SR-ROLLER SCREEN

Model	Dimensions mm W × L	Weight kg	Motor Size kW
SR1234	1 200 × 2 500	5 200	2 × 7.5
SR1534	1 500 × 2 500	5 900	2 × 7.5
SR2144	2 100 × 4 000	11 900	4 × 7.5
SR2454	2 400 × 5 000	16 700	5 × 7.5
SR2464	2 400 × 6 000	19 500	6 × 7.5
SR2474	2 400 × 7 000	23 200	6 × 7.5
SR1035	1 000 × 2 500	4 000	7.5
SR1535	1 500 × 3 000	4 200	2 × 7.5
SR2045	2 000 × 4 000	7 500	3 × 7.5
SR2065	2 000 × 6 000	11 200	4 × 7.5
SR1237	1 200 × 2 500	3 500	2 × 5.5
SR1537	1 500 × 3 000	5 000	3 × 5.5
SR2147	2 000 × 4 000	8 000	4 × 5.5
SR2167	2 000 × 6 000	13 400	6 × 5.5
SR2477	2 400 × 6 500	16 000	10 × 5.5

All dimensions are inside nominal dimensions.

Rotation speed	80 – 300 rpm
Inclination	0 deg
Separation	5 – 80 mm
Max feed size	300 mm

Values are dependent of the actual screen model.



SR roller screen crusher

SR-ROLLER SCREEN CRUSHER

Model	Dimensions mm W × L	Weight kg*	Motor power kW*
SR1039	1 000 × 4 500	8 000/9 100	37,5/52.5
SR1539	1 500 × 5 000	9 800/11 500	52.5/67.5
SR1549	1 500 × 6 000	10 950/12 400	52.5/67.5
SR2049	2 000 × 6 000	11 700/13 500	59.5/81.5
SR2069	2 000 × 8 000	14 900/16 700	74.5/96.5

All dimensions are inside nominal dimensions.  
\* Values are for machine without/with pre-crusher.  
Motor power informed as total input power for  
several motors.

Rotation speed	100 – 150 rpm
Inclination	0 deg
Separation	20 – 80 mm
Max feed size	300 mm

Values are dependent of the actual equipment.





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