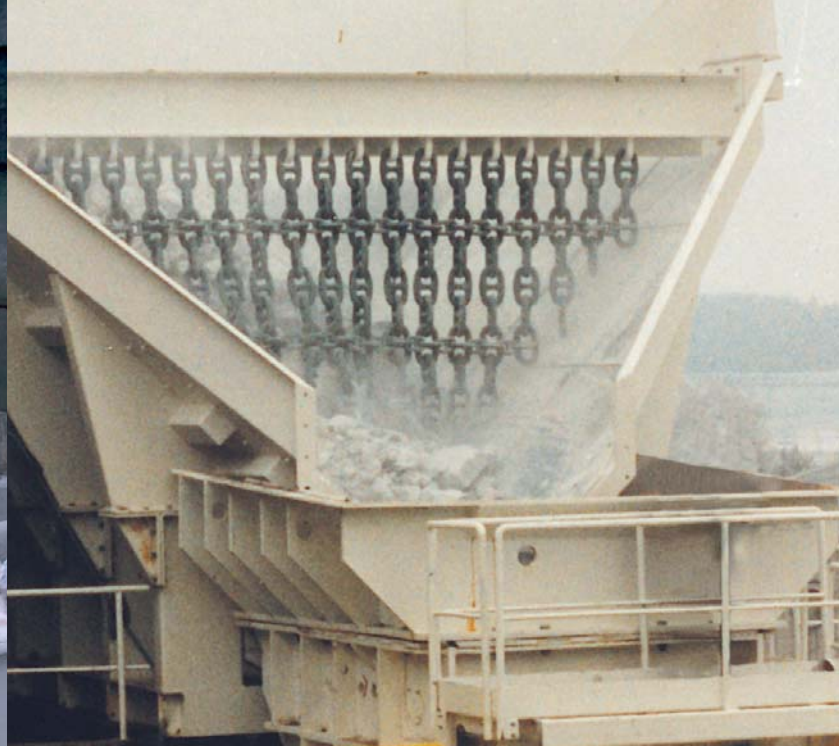


Sandvik Feeders





A full range of proven feeders - and the people to support you

Sandvik offers you a wide range of quality feeders. But that is not all. Many of our sales people have a long experience with many types of feeders and are well qualified to help you select the right equipment for your plant. Whether you need just a feeder or a complete process solution, Sandvik can provide you with equipment that is easy to install and fully functioning from day one.

Sandvik has actually designed, manufactured, supplied and serviced top-of-the-line feeders for mining and aggregates customers worldwide for over half a century.

Extended equipment life with Sandvik wear protection.

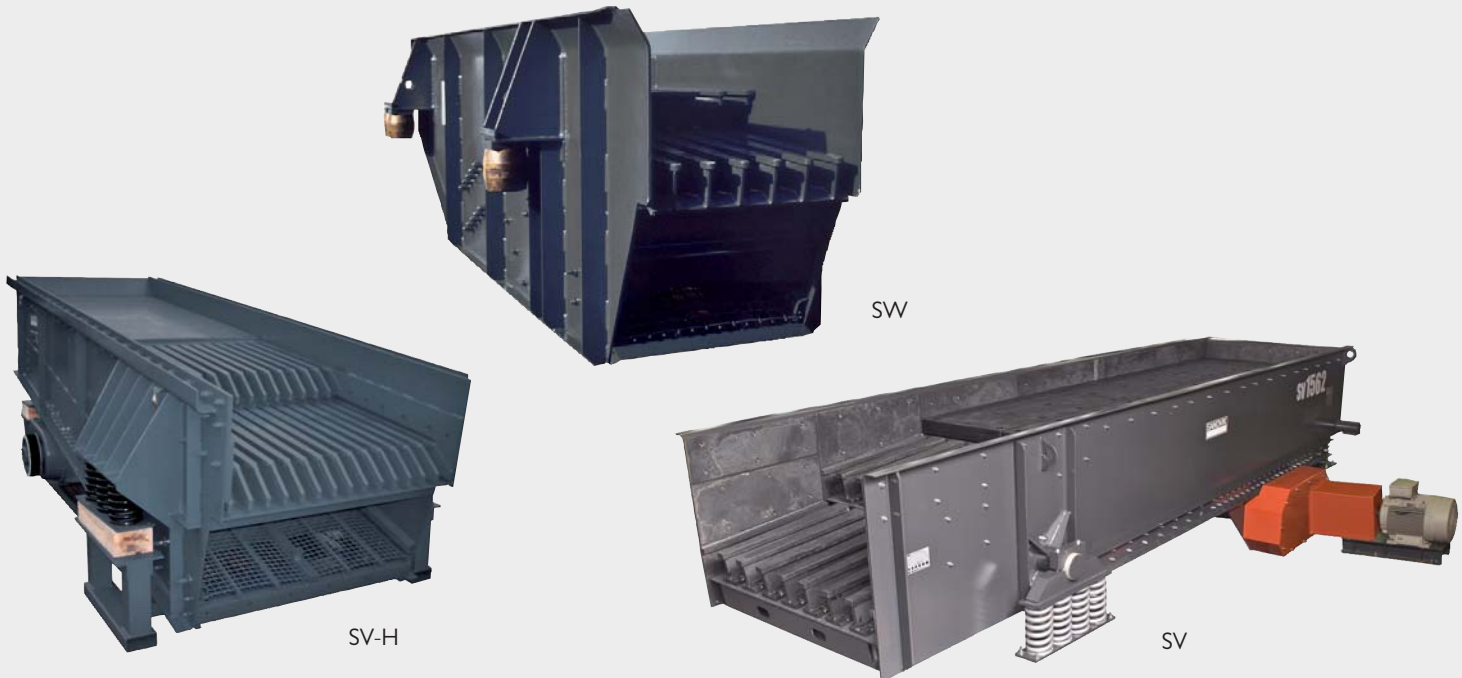
Sandvik offers a wide and versatile range of wear protection products for numerous and diversified applications. Extended equipment life, safe & easy handling, minimized

noise levels and reduced maintenance and operating costs are only a few of the many assets of the top-quality product offering.

Worldwide experience and expertise with local flavor.

Sandvik has an unrivaled network of subsidiaries and a strong local presence in all major countries. We have a tradition and conviction that there can be no substitute for direct service and direct contact. Our some 130 market companies assure easy access to specialists whenever required. More importantly, Sandvik service is a united global team of experts. They can assist each other when required, or put together special teams for specific cases. Sandvik service and stocking is managed locally with central support. Moreover, we have one simple aim: to benefit your bottom line.

Sandvik grizzly feeders



Sandvik grizzly feeders come in three main types and many sizes to balance demands for capacity, impact resistance, weight and installation dimensions.

Besides handling large feed rates with coarse blasted rock, a primary feeder must also take the material impact from dump trucks or wheel loaders. Sandvik offers a range of primary grizzly feeders that balance the demands of capacity, impact strength, weight and installation dimensions.

SV-H, FOR YOUR HEAVIEST DUTIES

The heavy duty design of the SV-H feeder pays off in open pit applications with coarse feed of up to 1000 mm, and large hopper volumes, up to 200 m³.

The SV-H is designed to match the largest jaw crushers and impact crushers available. It scalps and bypasses material effectively to relieve the crusher, as well as removes low quality fine material.

The feeder's rugged body is all welded for maximum impact rigidity. Replaceable abrasion resistant (AR) steel wear liners are used on all exposed area, and suspended on coil springs are mounted for minimum transmission of dynamic loads.

The SV-H has a heavy-duty double shaft mechanism with gears in oil-bath lubrication and a separate electric motor and v-belt drive ensuring reliable and precise feed rate adjustment by speed and stroke. The feeder has two grizzly sections (integral type) in the top deck for separations from 75 to 225 mm. An installation at six degrees helps keep the grizzly clean and increases feeding and scalping capacity in a controlled way. A cross-tensioned optional second deck can be installed for removal of natural fines.

SV, FOR HIGH CAPACITY FEEDING AND SCALPING

The SV-unit is designed for high capacities, from 300 to 1400 t/h, in primary and secondary feeding application. The low profile makes the SV feeders cost-effective to install. The standard hopper volume is 26-45 m³ with max feed size up to 1 500 mm.

The SV feeder is highly adjustable for tailored performance, thanks to the following: adjustable grizzly gaps, easy adjustment of stroke length by extra counter weights, gear wheel transmission facilitating easy adjustment of stroke angle, spring pedestals for inclination adjustment, and optional electrical or hydraulic speed (capacity) adjustment.

With the SV unit, the maintenance is easily done and kept to a minimum. The heavy-duty double shaft mecha-

nism with gears are in an oil-bath for extended service intervals, thick replaceable wear plates are mounted on all exposed surfaces, and the mechanism is easily dismantled for easy servicing.

SW, THE BEST FOR MOBILE PLANTS

Sandvik SW feeders are specially developed for mobile and portable plants, and small to medium size stationary plants. Compact and high capacity with an effective grizzly design and an optional second deck for fines removal, they have proved equally well-suited for shot rock as for gravel.

Dual section grizzly design allows for a step that turns over large material, effectively liberating more fines. The two-section grizzly reduces the bar length which enables sufficient taper of the bars. Integral type exchangeable grizzly sections ensure structural rigidity and long wear life. A second deck screen section is available to combine scalping with fines removal.

Tapered side plate profiles over the pan bottom make it possible to use the full width of the feeder pan to maximize feeding performance. They also maximize the live hopper volume using minimal height and allow for a spill proof hopper design.

The dual unbalanced electric motordrive makes a simple stepless feed rate adjustment possible off-line or on-line using a frequency converter. Sandvik's experience with unbalanced motor drives over the last decades has shown that they give very high availability and reliability, especially for this type and size of feeder, which is often installed under unfavourable conditions.

SV-H technical data

Model	Inside width (mm)	Inside length (mm)	Grizzly length (mm)	Second deck (m ²)	Inclination (°)	Weight (kg)	Motor effect (kW)	Max feed size (mm)	Capacity (t/h) *
SV1152H	1075	4857	2 x 1200	NA	0°	4956	18,5	700	360-600
SV1153H	1075	4857	2 x 1200	0.7	0°	5256	18,5	700	360-600
SV1252H	1175	4825	2 x 1200	NA	6°	7240	22	800	400-800
SV1253H	1175	4825	2 x 1200	2.2	6°	7390	22	800	400-800
SV1651H	1575	5220	NA	NA	6°	10 300	37	900	900
SV1652H	1575	5240	2 x 1200	NA	6°	10 100	30	900	550-900
SV1653H	1575	5240	2 x 1200	2.2	6°	10 500	30	900	550-900
SV1852H	1770	5225	2 x 1200	NA	6°	12 040	45	1000	700-1200
SV1853H	1770	5225	2 x 1200	2.2	6°	12 700	45	1000	700-1200

SV technical data

Model	Pan width (mm)	Feed length (mm)	Grizzly length (mm)	Grizzly area (m ²)	Total weight (kg)	Motor effect (kW)	Feed capacity * (t/h)
SV1032	1020	3000	1 x 900	0.9	3480	15	550
SV1232	1220	3000	1 x 900	1.1	3815	15	700
SV1532	1520	3000	1 x 900	1.4	4435	15	850
SV1832	1820	3000	1 x 900	1.6	5195	22	1000
SV2132	2120	3000	1 x 900	1.9	6025	22	1200
SV2432	2420	3000	1 x 900	2.2	6650	22	1400
SV1052	1020	4500	1 x 1200	1.2	4480	15	550
SV1252	1220	4500	1 x 1200	1.5	5215	22	700
SV1552	1520	4500	1 x 1200	1.8	6000	22	850
SV1852	1820	4500	1 x 1200	2.1	6700	22	1000
SV2152	2120	4500	1 x 1200	2.5	8195	37	1200
SV2452	2420	4500	1 x 1200	2.9	8975	37	1400
SV1062	1020	6000	2 x 900	1.8	5965	22	550
SV1262	1220	6000	2 x 900	2.2	6855	22	700
SV1562	1520	6000	2 x 900	2.7	8050	30	850
SV1862	1820	6000	2 x 900	3.3	10620	37	1000

SW technical data

Model	Inside pan width (mm)	Inside pan length (mm)	Grizzly length (mm) / Second deck (m ²)	Suspension type	Weight (kg)	Motor effect (kW)	Max hopper volume (m ³)	Max feed size (mm)	Capacity * (t/h)
SW0732/3	655	3375	2 x 750 0.7 m ²	Rubber elements	2800	2 x 2.5	15	400	150-200
SW0842/3	810	4220	2 x 900 1.2 m ²	Rubber elements	3300	2 x 4.0	15	500	200-250
SW1042/3	980	4200	2 x 900 1.2 m ²	Rubber elements	4800	2 x 4.0	20	600	300-350
SW1052/3H	1000	4750	2 x 600 0.9 m ²	Coil Springs	4500	2 x 6.6	30	600	350-400
SW1252/3H	1200	4850	2 x 600 1.0 m ²	Coil Springs	5000	2 x 6.6	6 (mobile)	700	400-450

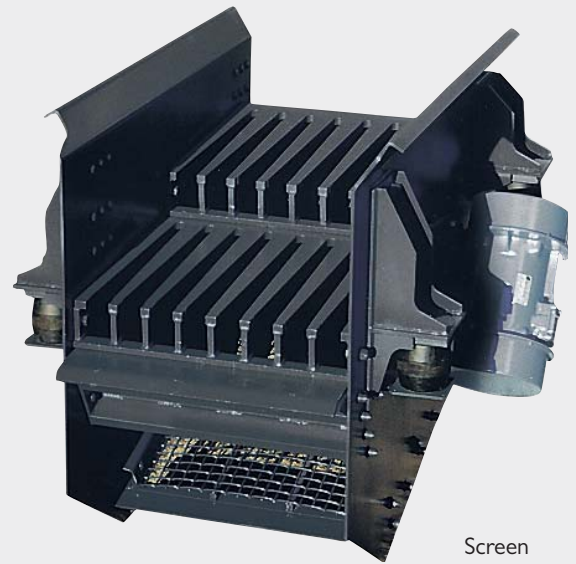
* At specified inclination and 1.6 t/m³. Capacities depend not only on feeder size but also on feeder inclination, feed gradation, etc.



Sandvik feeder screens



Pan feeder



Screen

ST units combine a separate pan feeder with a double-deck vibrating screen that has a stepped grizzly on the top deck. The result is better flow control, greatly superior fines removal and optimum crusher performance.

POWERFUL DRIVE WITH VARIABLE CAPACITY

ST units can significantly improve the total throughput of a primary station by their ability to keep a primary crusher fully fed even during varying feed conditions. The separate screen unit ensures efficient scalping and fines removal as well as high availability even with difficult materials. The separate feed unit gives better flow control than vibrating grizzly feeders as it can be regulated based on what tonnage is actually reaching the subsequent crusher.

COMPACT INSTALLATION

The live hopper volume is maximized and the total height minimized by inclined side plate upper edges.

Power consumption for the units is moderate despite the use of four motors. The ST units give low dynamic loads and very little excessive movement during start up and stopping.

EFFICIENT SCALPING

The feeder screen offers very good separations since it runs independently of the feeder. Consequently, the stroke length, stroke angle and motor speed can be optimized for effective scalping and fines removal. The top deck has two grizzly sections with a step in between for efficient scalping and to keep the grizzly from pegging. The second deck has tensioned screening media and a steeper inclination for better fines removal. The linear motion vibration and

drive size ensure enough acceleration (g-force) to keep the wire mesh from blinding.

MINIMUM OPERATING COSTS

Low maintenance is achieved by using robust unbalanced electric motors on both the feeder and the screen. Bolt-on wear liners are provided on the bottom of the pan, as well as on the side walls above the scalping deck.



ST technical data

Model	Feeder Screen	Scalper pan width (mm)	Total pan length (mm)	Grizzly length (mm) / Second deck (m ²)	Weights (kg)	Motor effect (kW)	Max hopper volume (m ³)	Max feed size (mm)	Capacity (t/h)
ST0863	ST0841	750	5500	2 x 1000	2350	4 x 4.0	15	500	100-240
	ST0822			0.5 m ²	2550				
ST1063	ST1041	1020	5500	2 x 1000	2530	4 x 4.0	20	600	150-300
	ST1022			0.6 m ²	2800				
ST1263	ST1241	1150	5500	2 x 1000	2680	4 x 4.0	30	750	180-400
	ST1222			0.9 m ²	3620				
ST1363	ST1341	1300	5500	2 x 1000	2860	4 x 4.0	30	850	200-550
	ST1322			1.0 m ²	3930				
ST1673*	ST1541H	1600	6600	2 x 600 + 1 x 1200	5500	4 x 10.8	80	950	350-800
	ST1622H			2.9 m ²	6580				

* Special extra heavy design



Sandvik pan feeders



SP



SP with u-lip

Sandvik pan feeders are built for high capacity feeding, with a simple interface and several options to facilitate installation.

The design and wide size range of Sandvik pan feeders is adapted to make proper access around crushers possible and decrease the total cost of the installation. Both base mounted and suspended installations can be accommodated.

SIMPLE PACKAGED FEEDING SOLUTIONS

Fully engineered feed chutes guarantee proper installation, reliable operation within a very wide capacity range and with the right flow geometry for very high capacities. The SP feeder is prepared for simple dust encapsulation. It has an adjustable inclination from 0-12 degrees to adapt to different materials and installation requirements. High sidewalls effectively prevent spillage and simplify feed chute design. The feed rate can either be adjusted by repositioning weight segments in the

drive or during operation using a frequency converter.

RELIABILITY AND HIGH PERFORMANCE

SP feeders offer large drive units and proper feed chutes designed to make high feed rates even of coarse materials possible. The dual unbalanced motors, rotate in opposite directions and self-synchronize to give the feeder pan its linear motion. The self synchronization means that no gearbox or other transmission is needed. The linear motion (stroke) of Sandvik pan feeders will ensure efficient and accurate operation as well as low liner wear.

VARIOUS VERSIONS TO SUIT THE JOB

SP model with flat discharge end for unloading bins into crushers, onto screens and conveyors (i.e. loading

from a position perpendicular to the conveyor belt).

SP with u-lip which has a u-shaped extension beak to center the material better into a conveyor belt or crusher. H version, heavy-duty, for both models to enable feeding during large head loads, coarse material and high capacities.

A wide range of sizes is available to suit your needs. Many feeder lengths make installation flexible and can reduce your total cost of installation. Removable pan extensions are available for some sizes to suit installations where, for instance, access for maintenance above a crusher is critical. Heavy duty version with larger drive and heavier design is available for all sizes to make sure you get a feeder with the resilience and capacity you need.



SP technical data

Model	Pan width (mm)	Pan length (mm)	Wear plates Bottom/side (mm)	Weight (kg)	Drive	Power input (kW)	Max feed size (mm)	Capacity * (t/h)
SP0715	650	1500	5/5	500	30 - 14/6	2 x 1,2	220	180
SP0725	650	2500	6/6	650	30 - 18/6	2 x 1,2	220	160
SP0818	800	1750	6/6	590	30 - 14/6	2 x 1,2	265	250
SP0825	800	2500	6/6	840	30 - 23/6	2 x 1,2	265	250
SP0830	800	3000	10/10	1950	45 - 50/6	2 x 4,5	200	700**
SP1020	1000	2000	10/6	840	30 - 23/6	2 x 1,2	330	420
SP1025	1000	2500	10/6	1200	40 - 27/6	2 x 2,3	330	375
SP1030	1000	3000	10/6	1420	40 - 35/6	2 x 2,3	330	400
SP1320	1250	2000	10/6	915	30 - 23/6	2 x 1,2	415	550
SP1325	1250	2500	10/10	1370	40 - 35/6	2 x 2,3	415	500
SP1423	1400	2250	16/10	2020	42 - 24/6	2 x 2,7	460	900
SP1623	1600	2250	16/10	2160	40 - 35/6	2 x 2,3	500	650
SP1630	1600	3000	16/10	2750	50 - 60/6	2 x 4,5	500	1250
SP0818H	800	1750	16/6	705	30 - 18/6	2 x 1,2	265	290
SP1020H	1000	2000	16/6	995	40 - 27/6	2 x 2,3	330	480
SP1025H	1000	2500	16/20	1500	45 - 42/6	2 x 2,7	330	430
SP1030H	1000	3000	20/6	1750	45 - 50/6	2 x 2,7	330	480
SP1320H	1250	2000	20/6	1195	40 - 35/6	2 x 2,3	415	630
SP1325H	1250	2500	20/10	1700	45 - 50/6	2 x 2,7	415	580
SP1623H	1600	2250	20/10	2290	45 - 50/6	2 x 2,7	500	740
SP1630H	1600	3000	20/10	2900	60 - 75/6	2 x 4,5	500	1500

** When max. feedsizes is bigger than 60 mm the capacity will decrease down to approx. 300 MTPH with max. size 200 mm

SP U-lip technical data

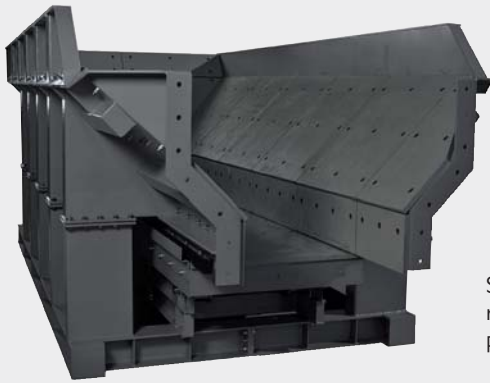
Model	Pan width (mm)	Discharge end width (mm)	Pan length (mm)	AR wear plates Bottom/side + discharge (mm)	Weight (kg)	Drive	Power (input) (kW)	Max feed size* (mm)	Capacity * (t/h)
SP1023	1000	600	2000	10/6 + 6	900	30-23/6	2 x 1,2	330	420
SP1028	1000	600	2500	10/6 + 6	1340	40-35/6	2 x 2,3	330	375
SP1323	1250	850	2000	10/6 + 6	1120	40-27/6	2 x 2,3	415	550
SP1328	1250	850	2500	10/10 + 6	1500	40-35/6	2 x 2,7	415	500
SP1426	1400	1100	2250	16/10 + 6	2200	45-42/6	2 x 2,7	460	900
SP1630	1600	1000	2500	16/10 + 6	2770	50-60/6	2 x 4,5	500	1250
SP1023H	1000	600	2000	20/6 + 6	1140	40-35/6	2 x 2,3	330	480
SP1028H	1000	600	2500	20/6 + 6	1610	45-42/6	2 x 2,7	330	430
SP1323H	1250	850	2000	20/6 + 6	1320	40-35/6	2 x 2,3	415	630
SP1328H	1250	850	2500	20/10 + 6	1840	45-50/6	2 x 2,7	415	580
SP1630H	1600	1000	2500	20/10 + 6	2950	60-75/6	2 x 4,5	500	1500

* Note: 1) All dimensions are for base mounted versions at 8° inclination. Some deviations between base mounted and suspended version may exist. Always verify from valid dimensional drawing.
2) Capacities depend not only on feeder size but also on feeder inclination, feed gradation, etc.



Sandvik

reciprocating plate feeders



SH primary reciprocating plate feeder unit



SH secondary reciprocating plate feeder



SH primary reciprocating plate feeder

Rugged, reliable, vibration-free, hydraulic reciprocating plate feeders for primary crushers, as well as for numerous secondary and other feeding applications.

Sandvik offers a range of hydraulic powered linear plate feeders for primary and secondary applications, all of which featuring easy and minimal maintenance.

EXCELLENT OPERATING CHARACTERISTICS

The SH feeders can be subjected to high head loads without affecting the feed rate. They handle sticky material well and can allow dumping of large size material directly since they always retain some material on the reciprocating plate.

MULTIPLE FEED RATE ADJUSTMENT POSSIBILITIES

The feed rate is easily adjustable, both by changing the stroke length and the stroke frequency. Stroke adjustment can be done without

stopping the feeder, completely automatically, remotely or manually by hand. The feeder can be started and stopped as often as required with shorter delays in the feeding than with a vibrating feeder.

SH – PRIMARY RECIPROCATING FEEDER

SH is a heavy reciprocating feeder for large primary stations with large volume, high drop height or where very large dump trucks are used. It has a robust feeder plate, skirts with an effective double wiper side sealing system and rear sealings, wear liners and a hydraulic drive unit with hydraulic cylinder, hoses and a control system (optional). SH feeders are supported from below and a separate feed hopper or chute is used.

SH UNIT – PRIMARY RECIPROCATING FEEDER WITH HOPPER

This is a complete feed unit including a SH-feeder and in addition a complete heavy duty primary dump hopper with inclined walls. The hopper is equipped with wear liners and overflow curtain (optional). The volume of the hopper can be increased with hopper extension.

SH-SECONDARY RECIPROCATING PLATE FEEDER

The secondary range is primarily designed for tough secondary applications. These feeders are normally mounted underneath a silo or a bunker in order to discharge material at a belt conveyor. However, a special option is available for truck loading procedures (e.g. commonly used in underground mines).



Technical data SH and SH Unit for primary feeding

MINIMUM OPERATING COSTS

- Low power consumption thanks to the low operating speed required.
- The reciprocating plate is the only moving part and the supporting rollers (with ball bearings) are never exposed to any dirt or dust.
- The long life wear liners are of a simple design, they can be made very thick and are easy to replace.

SIMPLE, SELF-PROTECTING WEAR FREE DRIVE

- One hydraulic cylinder means a simple system to power the feeder.
- Oil lubrication of the hydraulic system minimizes wear and need for maintenance.
- The feeder is completely vibration free and the dynamic loads very small.

SPECIAL OPTIONS

Special options for either high or low ambient temperature are available.

Model	SH					SH Unit		
	Height (mm)	Weight (kg)	Motors (kW)	Max feed (mm)	Capacity range (m ³ /h)	Height (mm)	Weight (kg)	Hopper volume (m ³)
SH1041	860	3 450	11	700	0-300	3080	12 500	15
SH1351	918	5 250	22	1000	0-450	3610	21 600	30
SH1661	1110	9 000	37	1300	0-700	4400	39 300	45
SH2071	1420	17 100	55-90	1800	0-1100	6400	57 500	75
SH2571	1450	21 000	55-110	2400	0-1700			

Technical data SH for secondary feeding

Model	Overall width (mm)	Overall height (mm)	Motors (kW)	Weight (kg)	Hopper volume (m ³)	Max feed (mm)	Capacity range (m ³ /h)
SH0835	1280	1460	7,5	3 000	1,5	250	0-150
SH1035	1480	1460	11	3 200	1,5	300	0-200
SH1335	1780	1460	15	3 500	2,5	400	0-250
SH1645	2250	2015	30	8 700	4	500	0-500
SH1645H	2250	2615	30	11 000	7	700	0-650
SH1955H	2550	2615	37	13 750	12	900	0-750
SH2255H	2850	2615	30-74	15 000	15	1200	0-950
SH2555H	3150	2615	60-110	17 000	18	1800	0-1100

* Capacity in m³/h at 0° inclination. Capacities depend not only on feeder size but also feeder inclination, feed gradation, etc.



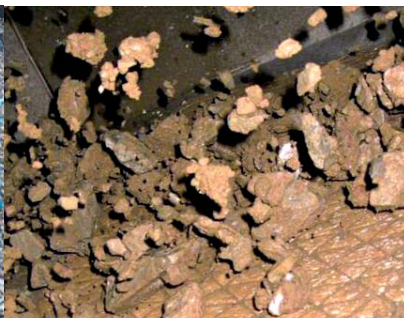
Sandvik Wear Protection & Screening Media



Tensioned rubber screening media



Modular PU screening media



Ceramic wear protection



Self supporting screening media



Pulley lagging



Modular rubber screening media



Tensioned PU screening media



Modular wear protection



Impact bars



Telescopic Chute



Rubber wear protection



Self supporting screening media



Mill Lining



Dust encapsulation



Rubber wear protection



Rubber sheeting

Product Range

Wear Protection

- **Rubber wear protection**
Rubber wear plates, flat or corrugated, with steel backing or aluminium profiles
- **Ceramic wear protection**
Ceramic/rubber wear plates, with steel backing or aluminium profiles
- **PU wear protection**
Flat polyurethane wear plates with steel backing
- **Modular wear protection**
Modular dual hardness flat rubber wear plates
- **Wear bars**
Rubber wear bars with extruded aluminium profile
- **Flexible rubber wear plates**
Rubber wear plates with flexible metal reinforcement
- **Flexible PU wear plates**
Polyurethane wear plates with flexible metal reinforcement
- **Rubber sheeting**
Wear resistant rubber sheeting
- **Polyurethane sheeting**
Wear resistant polyurethane sheeting
- **Ceramic sheeting**
Ceramic/rubber sheeting
- **Polyethylene sheeting**
Low friction sheeting (UHMW-PE)

- **Impact bars**
Rubber impact bars with low friction UHMW-PE top surface
- **Pulley lagging**
Bolted high friction pulley lagging for drive pulleys

Screening Media

- **Modular rubber screening media**
Rubber modules with punched or moulded apertures
- **Modular anti blinding screening media**
Soft rubber modules with punched apertures
- **Modular PU screening media**
Polyurethane modules with moulded apertures
- **Tensioned anti blinding PU screening media**
Tensioned polyurethane panel with dam bars and punched apertures
- **Tensioned rubber screening media**
Tensioned rubber panels with punched apertures
- **Tensioned PU screening media**
Tensioned polyurethane panels with moulded apertures
- **Pre-tensioned rubber screening media**
Pre-tensioned rubber panels with punched apertures
- **Pre-tensioned PU screening media**
Pre-tensioned polyurethane panels with moulded apertures
- **Flat self-supporting screening media**
Flat self-supporting rubber panels with punched or moulded apertures
- **Self-supporting screening media**
Self-supporting rubber panels with skidbars and moulded apertures
- **Special PU screening media**
Flip-Flow polyurethane screening media with punched holes
- **Capping**
Rubber capping for crowned deck support bars
- **Side hold down**
Clamping system for pre-tensioned and self supporting panels
- **Centre hold down**
Hold down bars for tensioned, pre-tensioned and self supporting panels

Dust Encapsulation

- **Telescopic chute**
Polyurethane telescopic chute with optional automatic level sensor
- **Dust encapsulation**
Flexible rubber sheeting for dust encapsulation
- **Grip strip & Grip corners**
Rubber profiles for attaching dust encapsulation sheeting



Sandvik is a global industrial group with advanced products and world-leading positions in selected areas – tools for metal cutting, machinery and tools for rock excavation, stainless materials, special alloys, metallic and ceramic resistance materials as well as process systems. The Group had at the end of 2007 about 47,000 employees and representation in 130 countries, with annual sales of more than SEK 86,000 M.

Sandvik Mining and Construction is a business area within the Sandvik Group and a leading global supplier of machinery, cemented-carbide tools, service and technical solutions for the excavation of rock and minerals in the mining and construction industries. Annual sales 2007 amounted to about SEK 33,100 M, with approximately 15,200 employees.

