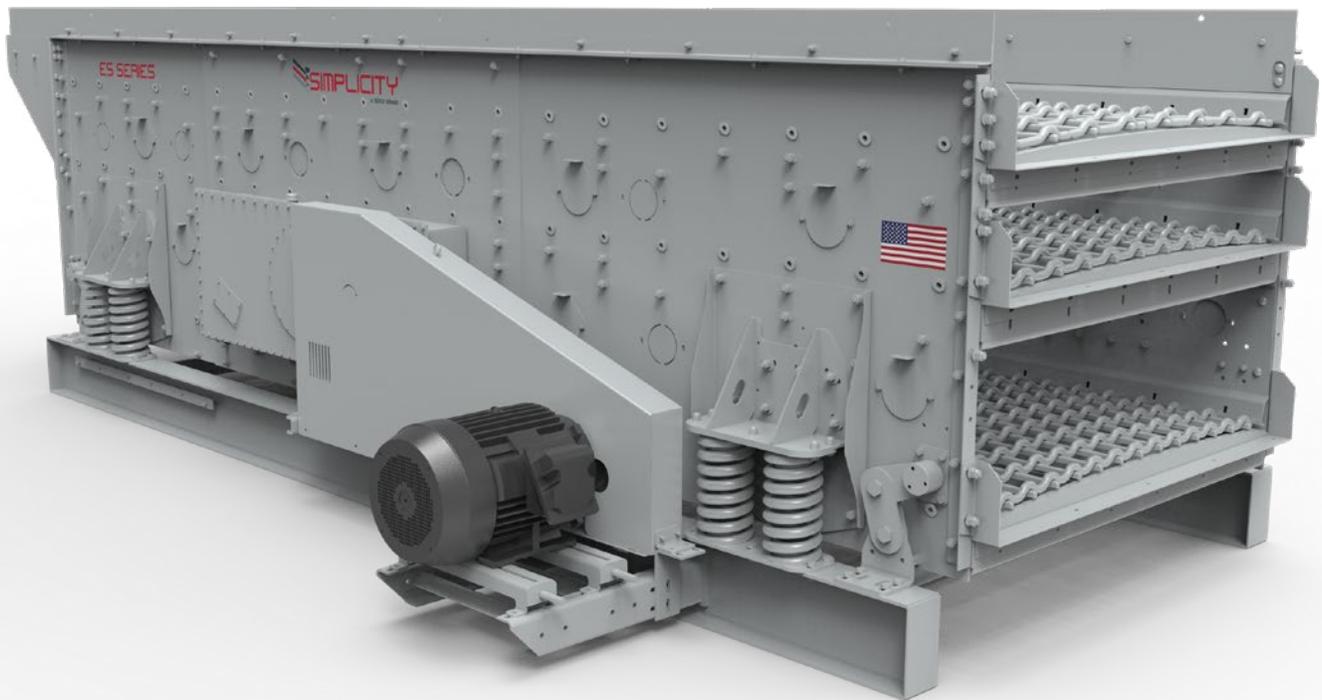




# Horizontal Screens ES Series



A world working better™

 **TEREX**® MPS

# Simplicity® ES Series

The Simplicity ES series screens take the legendary oval stroke screen to the next generation of product. These ES series screens are built stronger, run smoother, handle more applications, and have longer life than older or copycat oval stroke screens in the market today.

## Designed for Long Life

- More steel in “rock zone” for industry leading durability; 5/16” (8 mm) Grade 50 side plates are 2-times stronger than 1/4” (6 mm) standard steel; rugged computer-optimized decks with full-length bracing are unmatched
- Patented gear case baffled lubrication system along with high tolerance machined eccentric weights provide smooth running and long bearing life
- Longer HD suspension springs handle heavier loads and improve isolation to protect the screen and support structure from shock and vibration
- Patented Dual O-Ring Huck Bolt construction is “sealed for life” requiring no re-tightening or maintenance

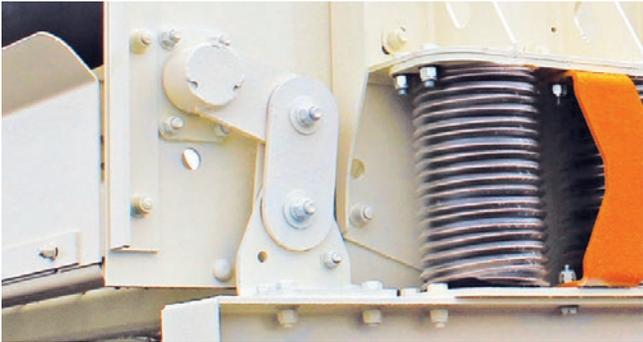
## More Production

- Enhanced Action on the Feed end provides improved screening in the heavy load zone
- Variable slope installation from zero to 10 degrees allows matching the slope to the application to minimize bed depth as well as larger screen openings up to 6”
- High G-force, high efficiency oval stroke motion adjusts 3-ways (speed, stroke angle, stroke magnitude) to optimize performance
- Patented optional bottom deck deflector plates boost screen efficiency by up to 12%
- Medium scalper option increases feed size from 10” to 14” (254 to 355 mm); option includes side liners/ with 6” side extensions to contain larger stones
- High Speed Variable slope (HSV) option increases operating speed up to 1000 rpm with reduced stroke compared to standard screen

## Reduced Cost of Ownership

- Maintenance-friendly features include the patented low maintenance surge damper system; bolt-on upper and lower spring guides; “tool-less” oil check sight glasses; sidewall hand access system for wire cloth clamp bars; bottom deck feed curtain; optional magnetic deck wear liners, optional “TOPS 2.0” oil filtering system.
- Patented “flow-through” lubrication system and patented “sealed-for-life” double O-ring construction provides maximum equipment life

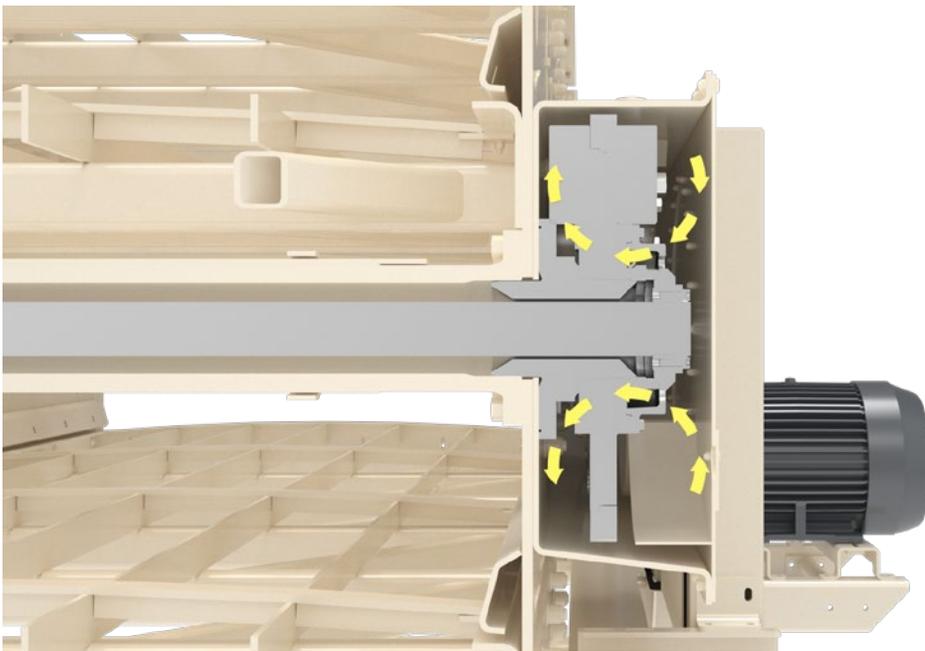




Low maintenance, no adjustment surge damper system



Optional deflector plates increase bottom deck effective area and capacity



Cross-Section of Lubrication 6 x 20 screen

### Applications



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical Products



Washing, Recycled Asphalt

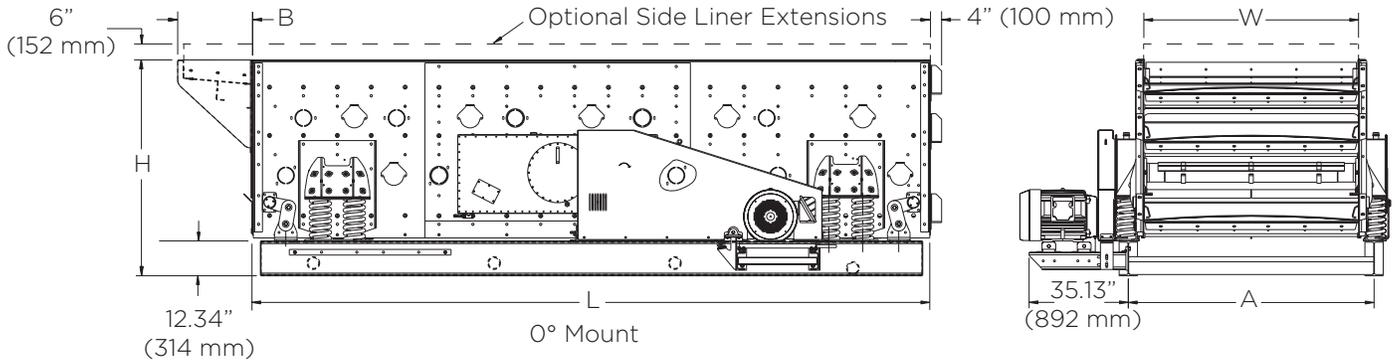
### Standard Features

- Oval stroke with adjustable angle, stroke and speed
- 25% thicker 5/16" (8 mm) grade 50 high strength steel side plates
- Heavy-duty fully braced single crown steel deck construction
- Spring mounts adjust for 0°, 2.5°, 5°, 7.5° or 10° slope installations
- Exclusive patented features for durability and easy maintenance:
  - Low maintenance vibration damper system
  - "Flow-through" bearing lubrication
  - Baffled splash lubrication system
  - Double O-ring sealed for life vibrator construction
  - Patented dual pivot no maintenance surge dampers
- Screen cloth clamp bar hand access system with removable covers
- Spherical washer design eliminates sidewall welds
- Huck-bolted screen box construction (no welds)
- Extended life coil spring suspension
- Replaceable bolt-on spring guides
- Gland type non-wearing shaft seal
- Bottom deck feed curtain
- 4' (1219 mm) clamp bars with spherical washer tensioning system
- Extended life V-belt drive with sheaves for 1200 rpm motor
- Enclosed right-hand drive guard, motor mount, and tensioner
- Adjustable speed motor drive sheave and spring loaded belt tension idler
- Self aligning two row spherical roller bearings
- Synthetic broad range lubrication oil
- Spray pipe knock-outs
- Shaft tube liners
- Tool-less oil level sight glasses

### Optional Equipment

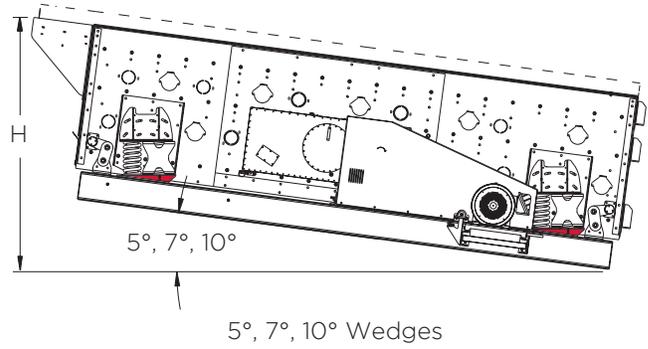
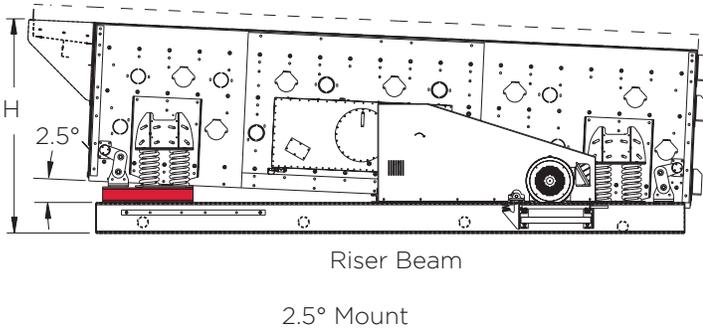
- Medium scalping option (heavier top deck, side liner extensions, feedbox and discharge lip)
- High Speed Variable slope (HSV) option
- Patented bottom deck deflector plates boost capacity
- Replaceable magnetic deck wear liners
- End-tension bottom deck
- Flat decks for modular media
- Rigid I-beam base frame
- Left-hand drive assembly and guard
- 1500 rpm drive
- 5' (1524 mm) wire clamp bars (6x20 and 7x20 models)
- Rubber spring suspension
- Spray system (nozzle or splash)
- Wire screen cloth
- Wedge tensioning for wire cloth
- Cylinder tray for bottom deck
- Screen-duty electric motor (1200 rpm or 1500 rpm)
- TOPS2.0 Terex Oil Purification System





Dimension in inches (mm) for Standard Coil Springs  
 \*\*Subtract 1.25" (32 mm) for Optional Rubber Springs

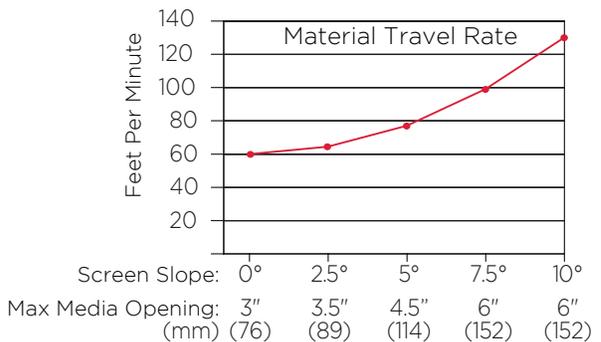
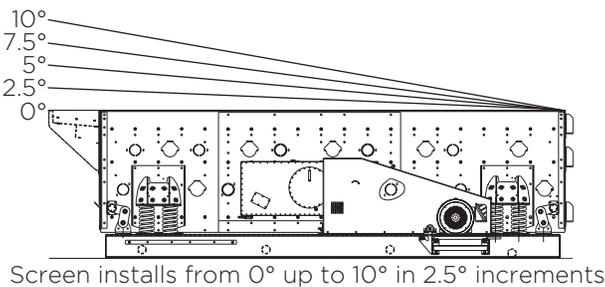
Screen	1200 rpm	*Weight	**H @ 0°	**H @ 2.5°	**H @ 5°	**H @ 7.5°	**H @ 10°	L	W	A	B
5 x 16 2 deck	25hp (19kW)	14500lbs (6577kg)	58.58" (1488mm)	65.08" (1653mm)	77.2" (1961mm)	86.82" (2205mm)	95.34" (2422mm)	192" (4877mm)	61.5" (1562mm)	72.5" (1842mm)	20.39" (518 mm)
5 x 16 3 deck	30hp (22kW)	17500lbs (7938kg)	74.24" (1886mm)	80.89" (2055mm)	92.89" (2359mm)	101.93" (2589mm)	110.85" (2816mm)	192" (4877mm)	61.5" (1562mm)	72.5" (1842mm)	20.39" (518mm)
6 x 16 2 deck	30hp (22kW)	15900lbs (7212kg)	58.58" (1488mm)	65.08" (1653mm)	77.2" (1961mm)	86.82" (2205mm)	95.34" (2422mm)	192" (4877mm)	76" (1930mm)	87" (2210mm)	26.50" (673mm)
6 x 16 3 deck	40hp (30kW)	19600lbs (8890kg)	74.24" (1886mm)	80.89" (2055mm)	92.89" (2359mm)	101.93" (2589mm)	110.85" (2816mm)	192" (4877mm)	76" (1930mm)	87" (2210mm)	26.50" (673mm)
6 x 20 2 deck	40hp (30kW)	19100lbs (8665kg)	60.15" (1528mm)	68.89" (1749mm)	82.87" (2105mm)	94.00" (2388mm)	105.04" (2667mm)	240" (6096mm)	76" (1930mm)	87" (2210mm)	26.50" (673mm)
6 x 20 3 deck	40hp (30kW)	22650lbs (10275kg)	76.46" (1942mm)	85.14" (2163mm)	99.12" (2518mm)	110.17" (2798mm)	121.01" (3074mm)	240" (6096)	76" (1930mm)	87" (2210mm)	26.50" (673mm)
7 x 20 2 deck	50hp (37kW)	23000lbs (10435kg)	62.24" (1581mm)	73.06" (1856mm)	84.98" (21589mm)	96.16" (2442mm)	107.1" (2720mm)	240" (6096mm)	88" (2235mm)	99" (2515mm)	26.50" (673mm)
7 x 20 3 deck	50hp (37kW)	27500lbs (12475kg)	81.85" (2070mm)	92.81" (2358mm)	104.75" (2661mm)	115.55" (2935mm)	126.67" (3217mm)	240" (6096mm)	88" (2235mm)	99" (2515mm)	26.50" (673mm)
8 x 20 2 deck	50hp (37kW)	24250lbs (11000kg)	62.05" (1577mm)	72.88" (1852mm)	84.77" (2153mm)	95.91" (2436mm)	106.99" (2718mm)	240" (6096mm)	100" (2540mm)	111" (2819mm)	26.50" (673mm)
8 x 20 3 deck	50hp (37kW)	29500lbs (13385kg)	81.91" (2081mm)	92.75" (2356mm)	104.57" (2656mm)	115.61" (2937mm)	126.43" (3211mm)	240" (6096mm)	100" (2540mm)	111" (2819mm)	26.50" (673 mm)



Specifications		
Maximum stroke (stroke can be reduced by removing weight plugs)	3/4"	19 mm
Recommended speed range	675 - 875 rpm	
Maximum feed size, standard decks	10"	254 mm
Maximum feed size, medium scalping decks	14"	356 mm
Maximum drop of feed	18"	457 mm
Discharge lip liner thickness (AR plate)	1/4"	6 mm
Feed box liners, standard (AR plate)	1/4"	6 mm
Feed box liners, medium scalping (AR plate)	3/8"	9.5 mm
Bearing size (5x16 models)	130 mm	
Bearing size (6x16 and 6x20 models)	160 mm	
Bearing size (7x20 and 8x20 models)	190 mm	
Wire cloth length, standard	4'	1219 mm
Wire cloth length, optional (6x20 and 7x20 models)	5'	1524 mm

\*Stroke for HSV option is 7/16". Recommended speed range increases to 1000 rpm for HSV option.

Screen Slope	Maximum Media Opening		Material Travel Rate	
0°	3"	76 mm	60 ft/minute	18.3 m/minute
2.5°	3.5"	89 mm	64 ft/minute	19.2 m/minute
5°	4.5"	114 mm	77 ft/minute	23.5 m/minute
7.5°	6"	152 mm	99 ft/minute	30.2 m/minute
10°	6"	152 mm	130 ft/minute	39.6 m/minute



Combining high G-force oval stroke and screen slope increases capabilities

# Versatility for Your Application



**MODULAR**



**PORTABLE**



**STATIC**

Available as static screens for a custom fit for your application or available in pre-engineered modular and portable options for easy transport and installation.



## Modular

Model	Main Components	Motor Size	Shipping Configuration
MHS6203	6' x 20' three deck horizontal screen	40 hp (30 kW)	(2) 40ft shipping container plus (1) flat rack or (1) additional shipping container
MHS8203	8' x 20' three deck horizontal screen	50 hp (37 kW)	(2) 40ft shipping container plus (1) flat rack

## Portable

Model	Main Components	Motor Size	Suspension	Weight
TXS720H	7' x 20' three deck horizontal screen	50 hp (37 kW)	2 Axle	61,174 lbs (29,110 kg)

[www.terexmps.com](http://www.terexmps.com)  
[mpsmarketing@terex.com](mailto:mpsmarketing@terex.com)

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