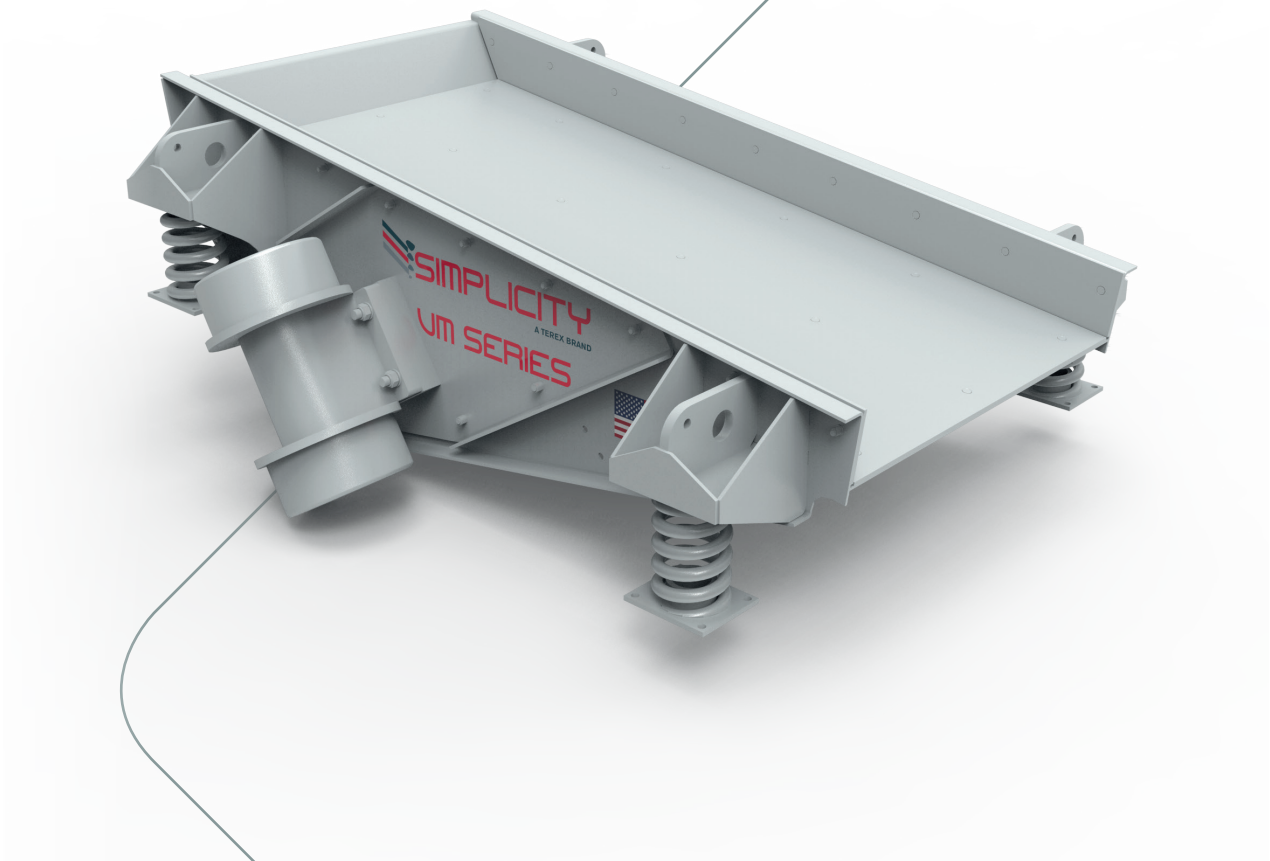




# Simplicity® VM Pan Feeder Series



A world working better™

 **TEREX**® MPS

# VM Series

## Flexible, Innovative, Built to last.

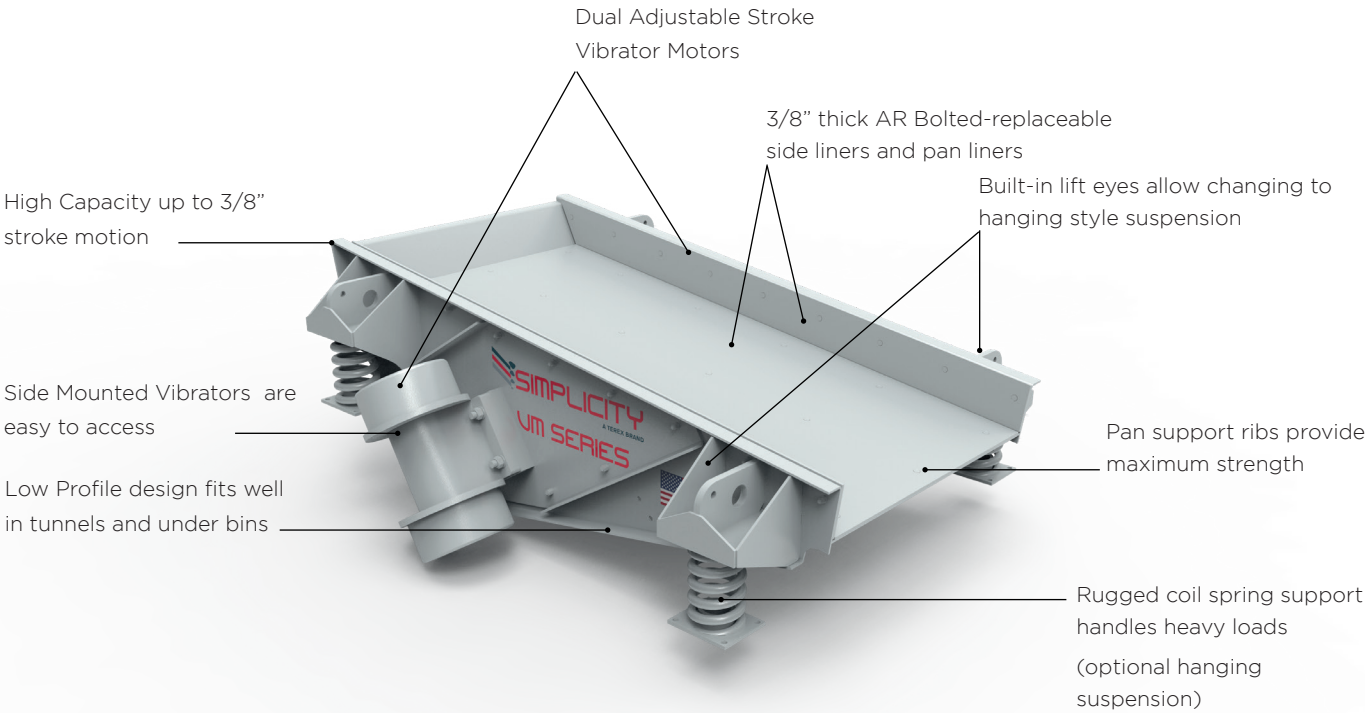
These new heavy duty vibrating feeders are designed for high production and low maintenance. The versatile design can be mounted on support springs or hung from cables, depending on the location and application. These high capacity vibrator motors generate up to 3/8" stroke for maximum production in most any materials from small granular materials to large lumps produced from primary crushers.

Standard Features

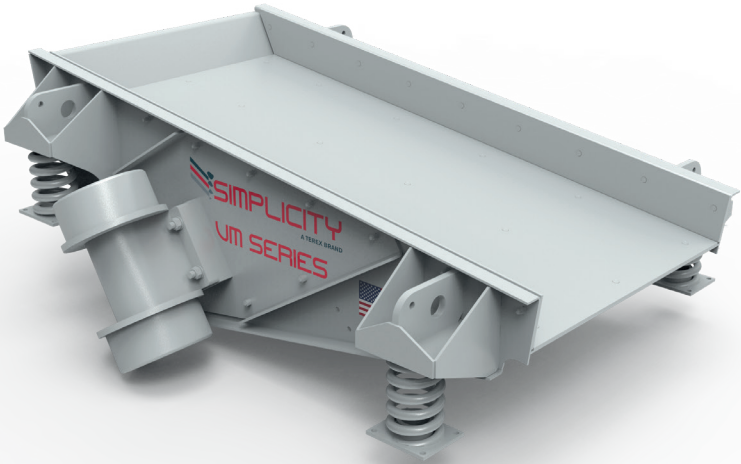
- Heavy duty vibrators are lubricated for life which minimizes maintenance
- Side mounted vibrators provide maximum clearance when mounting over conveyors
- Adjustable eccentric weights are easy to access and can be set to match the application
- Replaceable AR bolted wear liners on sides and pan protect the feeder for maximum life.
- Coil spring suspensions provide smooth running and support in severe applications.
- All vibrator motors are variable frequency drive (VFD) rated.

Optional

- Optional hanging style suspension can be easily added to mount under bins or in tunnels
- Optional variable speed controls provide optimal material flow rates



Screen Specifications



Terex Low Profile Vibrating Motor Pan Feeders

Feeder Model	Feeder Size W x L	Capacity(1) (2) TPH (MTPH)	Motors	Stroke and Speed	Total Weight
VM2472	24" x 72" (610mm x 1829mm)	Bed Depth 8" 326 (296) Bed Depth 12" 489 (444) Bed Depth 20" 815 (739)	Twin 3.08 HP 8 Poles, 590 in-lbs	3/16-3/8" (5mm - 10mm)  900 rpm max.	3450
VM3672	36" x 72" (914mm x 1829mm)	Bed Depth 8" 489 (444) Bed Depth 12" 733 (665) Bed Depth 20" 1222 (1109)	Twin 4.02 HP 8 Poles, 728 in-lbs		3850
VM3696	36" x 96" (914mm x 2438mm)	Bed Depth 8" 489 (444) Bed Depth 12" 733 (665) Bed Depth 20" 1222 (1109)	Twin 4.02 HP 8 Poles, 728 in-lbs		4200
VM4896	48" x 96" (1219mm x 2438mm)	Bed Depth 8" 651 (591) Bed Depth 12" 978 (887) Bed Depth 20" 1629 (1478)	Twin 5.77 HP 8 poles, 1011 in-lbs		5000
VM48120	48" x 120" (1219mm x 3048mm)	Bed Depth 8" 651 (591) Bed Depth 12" 978 (887) Bed Depth 20" 1629 (1478)	Twin 5.77 HP 8 poles, 1011 in-lbs		5750
VM60120	60" x 120" (1524mm x 3048mm)	Bed Depth 8" 815 (739) Bed Depth 12" 1222 (1109) Bed Depth 20" 2037 (1848)	Twin 7.91 HP 8 poles, 1246 in-lbs		6750

(1) Capacity based maximum stroke setting of 3/8" (10mm), 900 rpm operating speed, 8 degree standard slope, dry sand weighing 100 lbs per cubic foot.

(2) Above 8" bed depth skirting required.

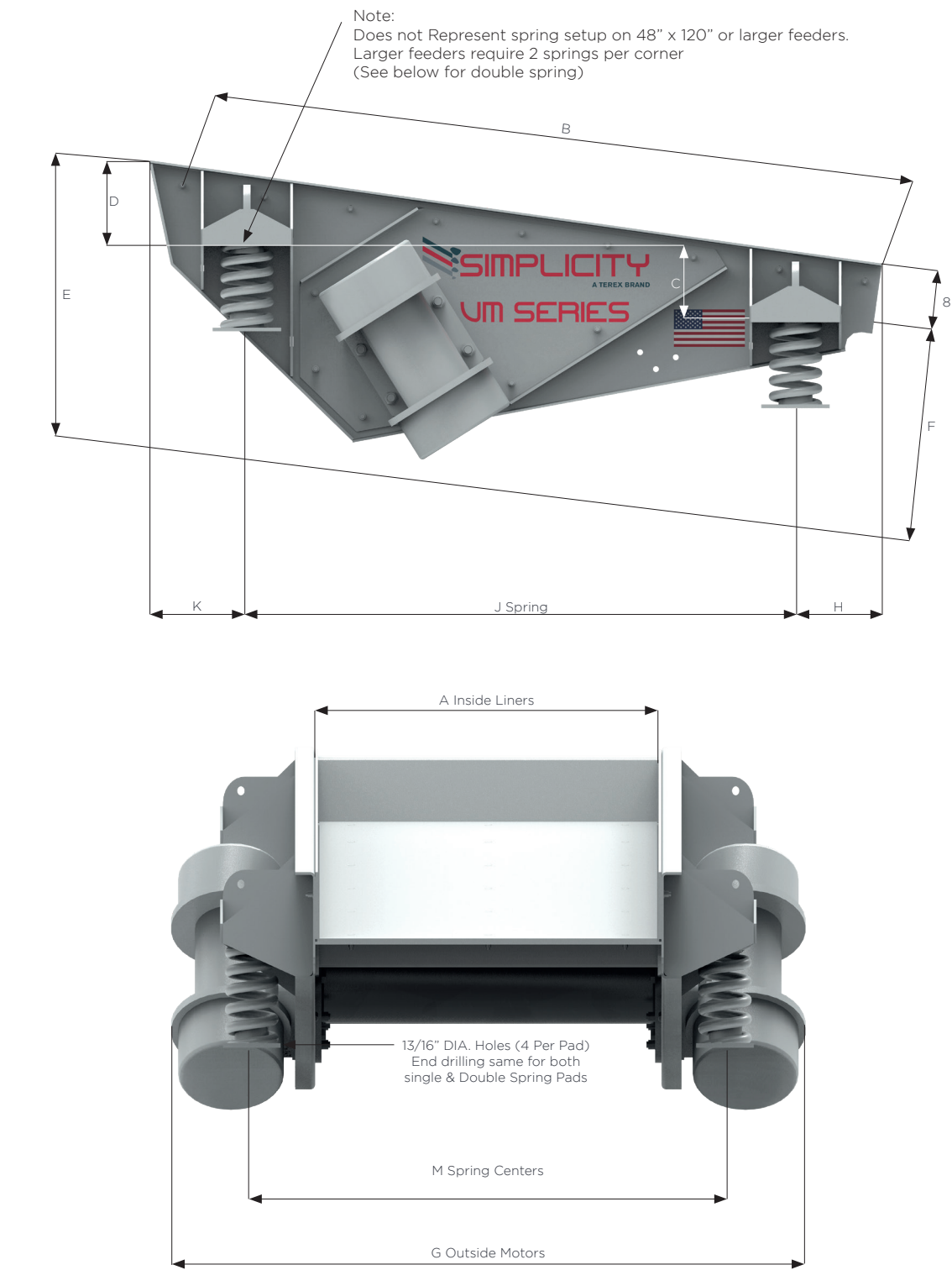
Capacity Adjustment factors: Use all factors which apply to the application:

- Factory stroke setting 3/16" stroke (5mm) - multiply by 0.75
- Wet material - multiply by 0.8
- Clay contaminated material - multiply by 0.6
- Crushed stone <6" multiply by 0.85 , Recommend 12" bed depth
- Crushed stone >6" multiply by 0.6 , Recommend 20" bed depth (Note adjust gate and throat for larger material and higher bed depth)
- Slope Factor: multiply by 1.1 for 10° slope, multiply by 0.88 for 5° slope
- Example: model VM3696 ; -3" Crushed stone, 3/16" stroke setting, 12" bed depth; max capacity = 733 x 0.75 x 0.85 = 467 TPH
- Capacities and factors listed based on properly designed hopper and skirts.

Screen Specifications

Dimensions & Specifications

Simplicity® A Terex Brand  
Vibrating Equipment

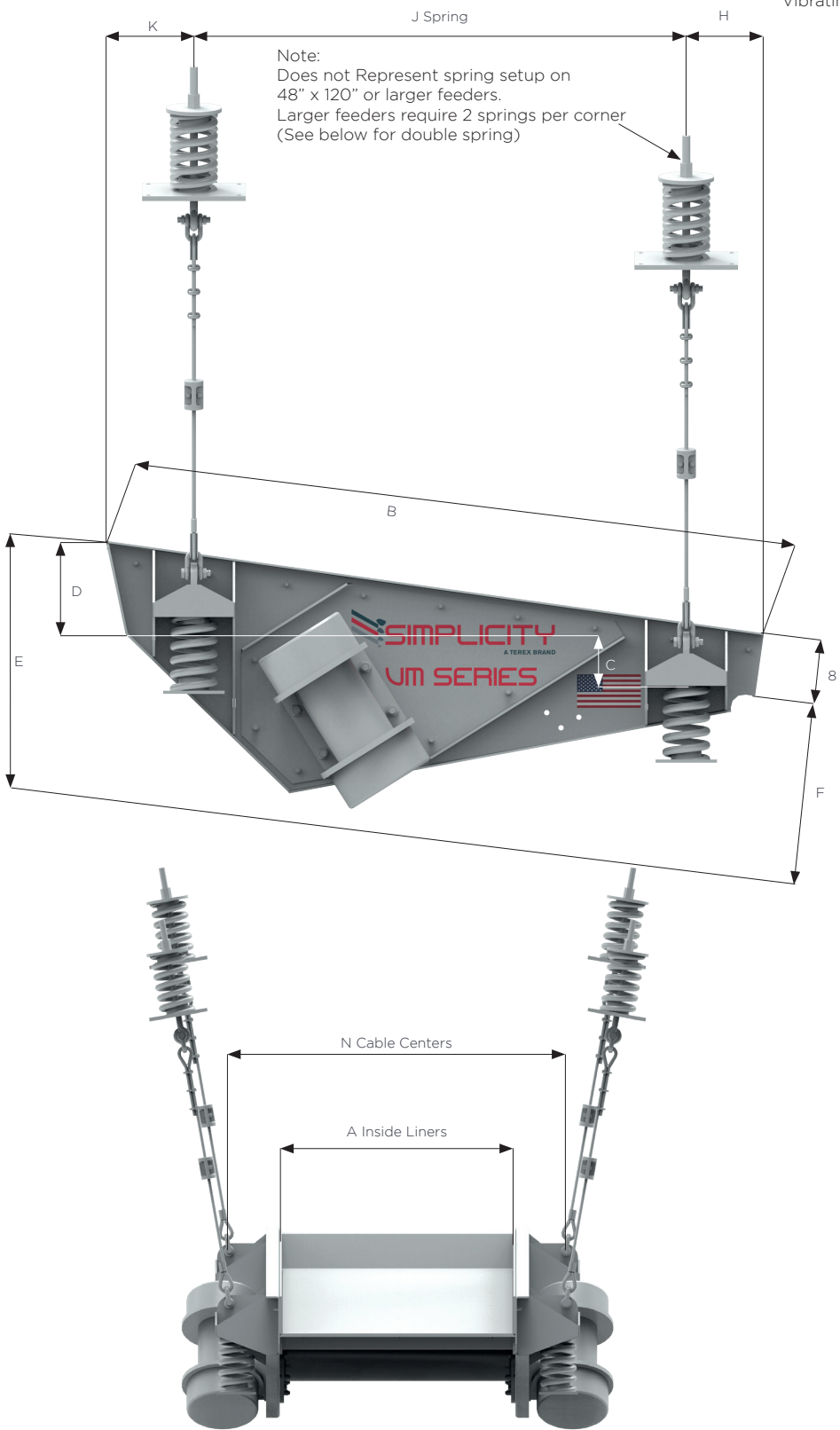


Feeder Size	A	B	C	D	E	F	G	H	J	K	M	HP	Weight	NO. of Springs
24" x 72"	23 1/4"	72"	7 5/16"	10 1/16"	35 1/4"	25 1/4"	68 5/8"	12 5/16"	59"	6 7/16"	41 5/8"	(2) 3.08	3450 lbs	4
36" x 72"	35 1/4"	72"	7 5/16"	10 1/16"	34 1/16"	26 1/16"	68 5/8"	12 5/16"	59"	6 7/16"	53 5/8"	(2) 4.02	3850 lbs	4
36" x 96"	35 1/4"	96"	10 5/8"	10 7/8"	35 3/16"	27 3/16"	68 5/8"	12"	76"	13 3/16"	53 5/8"	(2) 4.02	4200 lbs	4
48" x 96"	47 1/4"	96"	10 5/8"	10 7/8"	35 1/16"	27 1/16"	88 1/16"	12"	76"	13 3/16"	65 5/8"	(2) 5.77	5000 lbs	4
48" x 120"	47 1/4"	120"	13 1/2"	11"	36 3/16"	28 13/16"	88 1/16"	20 15/16"	87 11/16"	16 3/4"	65 5/8"	(2) 5.77	5750 lbs	8
60" x 120"	59 1/4"	120"	13 1/2"	11"	36 13/16"	28 13/16"	98 13/16"	20 15/16"	87 11/16"	16 3/4"	77 7/8"	(2) 7.91	6750 lbs	8

Screen Specifications

Cable Mount

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Vibrating Equipment

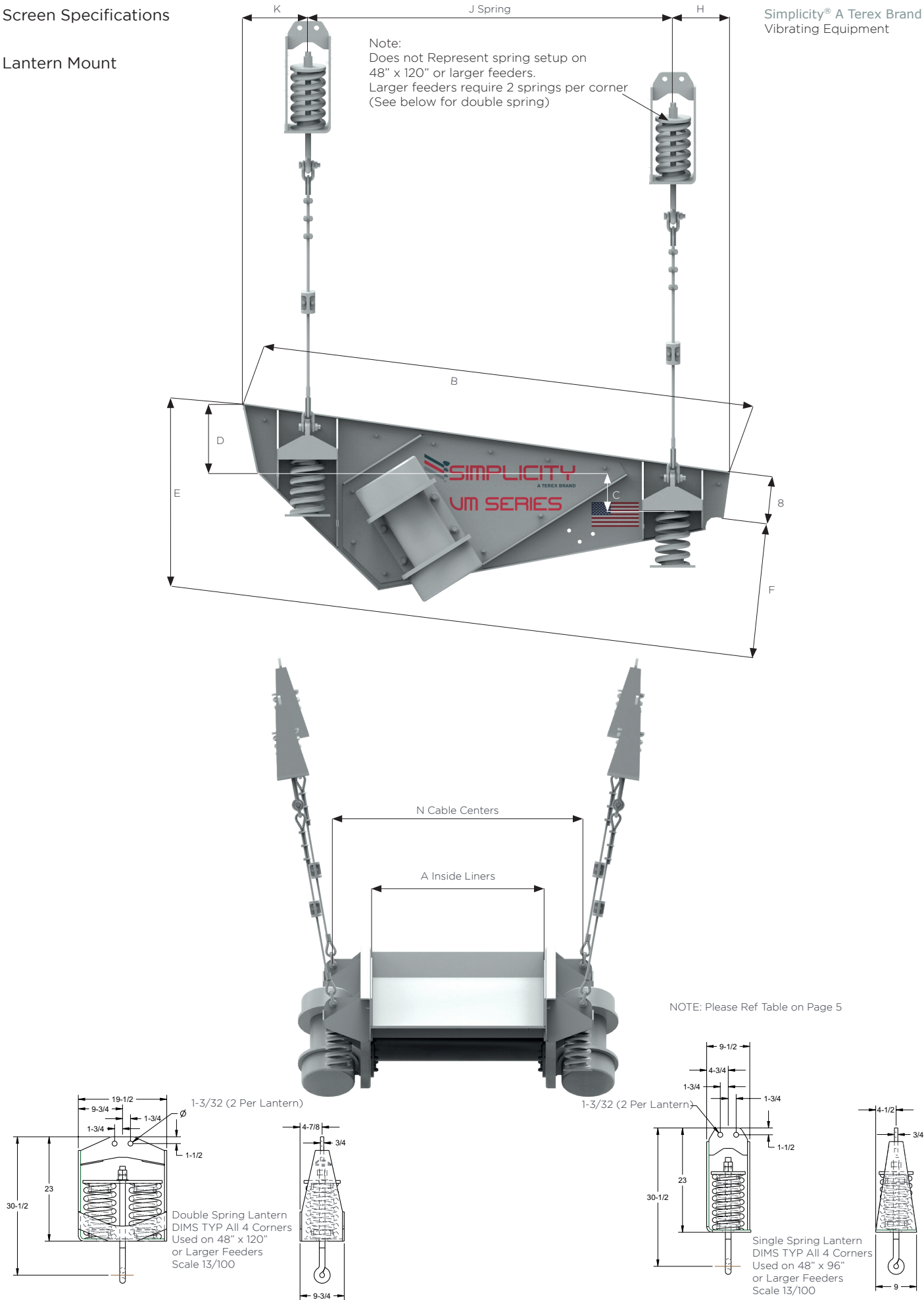


Feeder Size	A	B	C	D	E	F	G	H	J	K	LMN	L MAX	N	HP	Weight	No. of springs
24" x 72"	23 1/4"	72"	7 5/16"	10 1/16"	35 1/4"	25 1/4"	56 5/8"	12 5/16"	59"	6 7/16"	24	80	44 3/8"	(2) 3.08	3450LBS	4
36" x 72"	35 1/4"	72"	7 5/16"	10 1/16"	34 1/16"	26 1/16"	68 5/8"	12 5/16"	59"	6 7/16"	24	80	56 3/8"	(2) 4.02	3850LBS	4
36" x 96"	35 1/4"	96"	10 5/8"	10 7/8"	35 3/16"	27 3/16"	68 5/8"	12"	76"	13 3/16"	24	80	56 3/8"	(2) 4.02	4200LBS	4
48" x 96"	47 1/4"	96"	10 5/8"	10 7/8"	35 1/16"	27 1/16"	88 1/16"	12"	76"	13 3/16"	24	80	68 3/8"	(2) 5.77	5000LBS	4
48" x 120"	47 1/4"	120"	13 1/2"	11"	36 3/16"	28 13/16"	88 1/16"	20 15/16"	87 11/16"	16 3/4"	24	80	68 3/8"	(2) 5.77	5750LBS	8
60" x 120"	59 1/4"	120"	13 1/2"	11"	36 13/16"	28 13/16"	98 13/16"	20 15/16"	87 11/16"	16 3/4"	24	80	80 3/8"	(2) 7.91	6750LBS	8



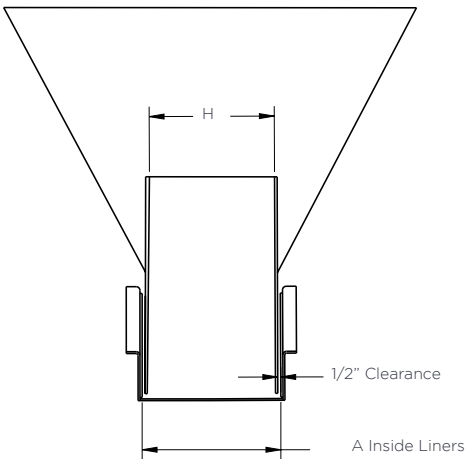
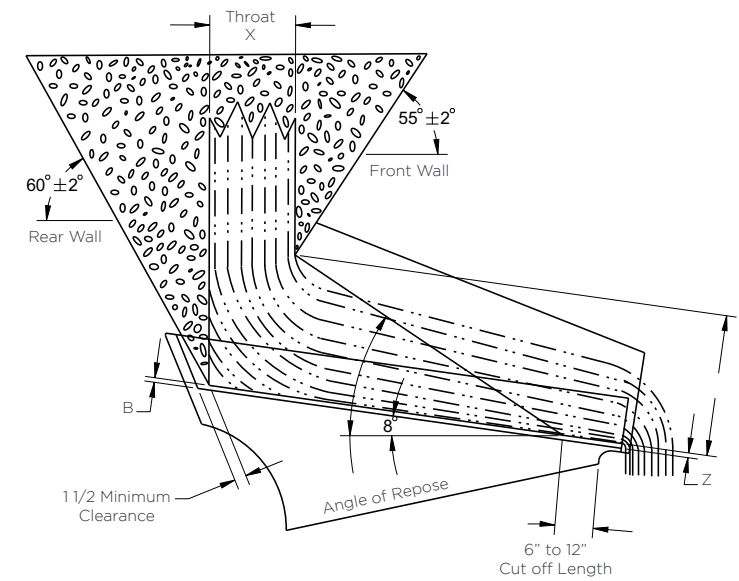
Screen Specifications

Lantern Mount

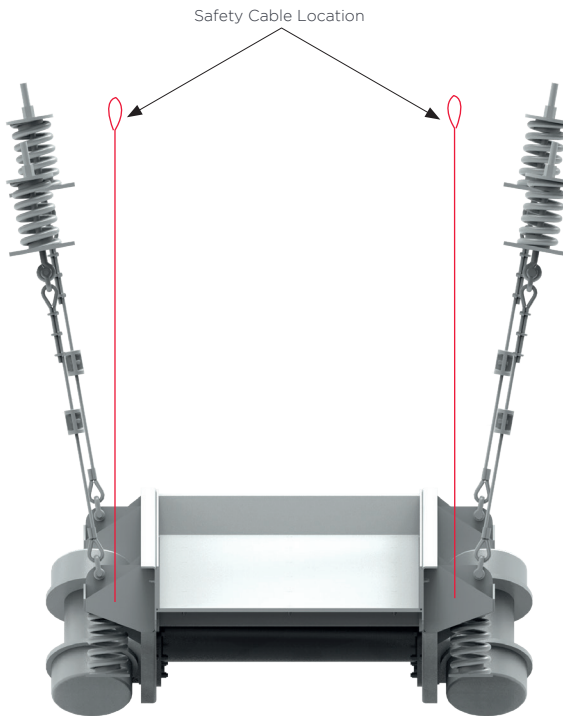


Screen Specifications

Recommended Hopper Design



- The best flow patterns result when the gate height Y is at gate is at least twice the throat dimensions "X". A X/Y ratio in the range of 0.5 to 1.10 is acceptable.
- Throat dimension "X" should be 2 to 3 times the largest particle size for random size material for near size material "X" should be 3 to 4 times largest size.
- Gate opening "Y" should be a minimum of 2 times largest particle size an should be adjustable to increase opening for increased capacity during operation the opening should be 1.25 to 1.50 times the bed depth for needing capacity.
- When using adjustable gates, they must be parallel to the hopper's front wall and separation should not exceed 2 inches. If designed correctly the adjustable gate will act like an adjustable front wall.
- The inside width of skirting "H" should be a minimum of 2 - 1/2 times the largest particle size and allow for 1 inch clearance (1/2 per size) between the feeder sides "A" and skirt boards.
- The feeder cannot contact any adjacent structure and should be able to vibrate freely with no obstruction. Allow for up to 2 inches of movement for fully loaded and unloaded conditions on the feeder (in addition maintain a minimum of 1 - 1/2 inches at the back and bottom of the loader and unloading conditions)
- The dimensions of "Z" should be 1 inch greater than the dimensions of "B". The dimension for "B" should not be less than 1 1/2 inches.
- The skirting must taper in the direction of flow and run parallel to the feeder sides (see item 7 for proper taper) All skirting should be reinforced to resist building.
- The feeder minimum length can be determined by projecting the angle of repose to the feeder pan and adding 6 to 12 inches.



Representation of safety cable, supplied by other. for safety attachment to structure. Recommended cable size to be calculated and properly clammed. Use maximum hopper and total load and total static load to calculate and size safety cables. Safety Cables to be attached at lift lugs on corner supports.



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