





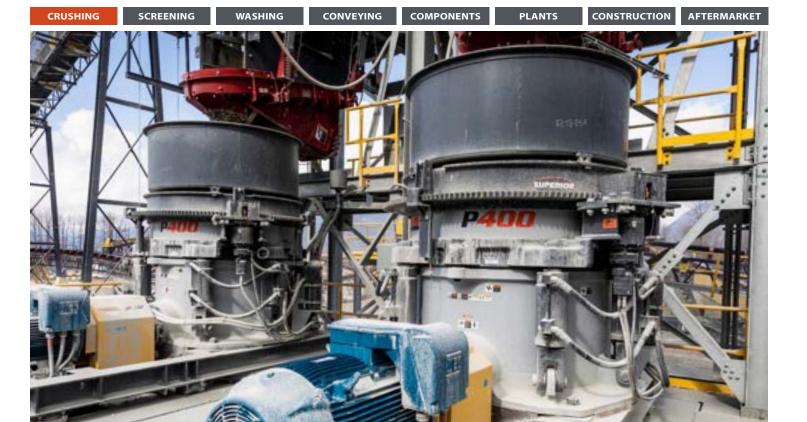


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PATRIOT CONE CRUSHER

Secondary or Tertiary Crusher For Aggregate and Mining Applications.

FEATURES

- » Standard lifetime warranty protects costliest components.
- » Backed by eager service team who respond quickly.
- » High-grade steel components, which exceed industry standards.
- » Committed to large inventory of parts for fast deliveries.

APPLICATIONS



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical products



Super Pave Products





01/ RAISED CONE HEAD SEATING SURFACE

Machined surface can be reconditioned up to 3X without need for additional welding.

02/ INVERTED TRAMP RELIEF CYLINDERS

Reverse design ensures hydraulic seal is not exposed to contamination during operation.

03/ URETHANE "U" & "T" SEALS

Opposed to steel, this non-contact seal blocks dust better, wears slower and takes less time to replace.

04/ MAINFRAME INSPECTION PORTS (P200, P500, P600)

Simplify access to mainframe for inspections.

05/ REPLACEABLE SEAT LINERS

Bronze liners protect mainframe and adjustment ring from wear.

06/ UNIVERSAL CRUSHING CHAMBER

Other than minor wear parts, design requires no major changeouts when transitioning from secondary and tertiary applications.

07/ TRAMP RELIEF SYSTEM

Designed with fewer accumulators for less maintenance and failure points. Automatic pressure relief valve adds additional protection.

08/ SPIRAL TOOTH GEARING

Proven to perform at higher speeds while causing less vibration and noise.

09/ HIGH PIVOT POINT GEOMETRY

Movement of feedplate creates a more active feed opening, drawing more material into cavity with fewer plugs.

10/ ENCLOSED COUNTERWEIGHT

Protects against the flow of material, which allows crusher to maintain balance. Guard provides additional wear protection.

11/ COUNTERCLOCKWISE COUNTERSHAFT

If loss of clamping pressure, this unique rotation causes crusher to open rather than turn down, tighten and cause significant damage.

12/ ONE PIECE CAST MAINFRAME

Removes any welding for highest possible strength and durability.

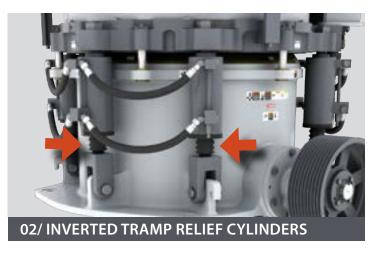
13/ ECCENTRIC & CLAMP RING

Manufactured with ductile iron which has higher tensile and fatigue strength, resists fracturing and is more impact resistant.

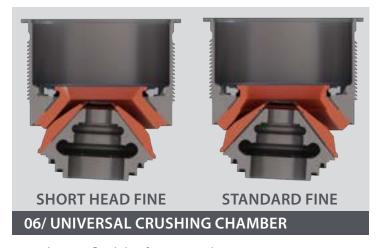
HIGHLIGHTS



» Allows reconditioning of head seating surface



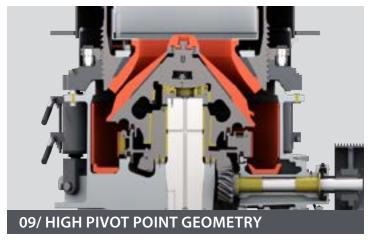
» Reverse design ensures hydraulic seal is not exposed to contamination during operation



» Application flexibility from secondary to tertiary



» Reduce maintenance and points of failure with fewer accumulators

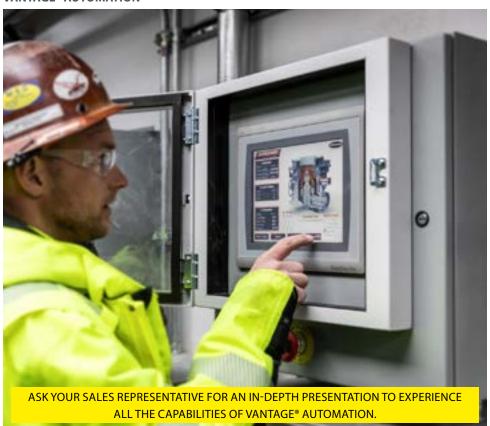


» Greater volumetric head displacement



» Prevents catastrophic damage

VANTAGE® AUTOMATION



- » One button auto-start or auto-stop motor control
- » Startup and shutdown system in correct sequence every time
- » No lengthy training, learn operation in minutes due to simple screen layout
- » Automatically maintain optimum production conditions
- » Alarms alert operators for conditions that need to be addressed
- » All critical data listed on operators page
- » Pre-assembled wiring for plug-andplay installation
- » In-House design means fast support and custom programs
- » Auto Level, power or adjust feature to maximize the crusher efficiency
- » Wintermode maintains lube temperature while crusher is not running

CAPABILITIES

TRACK TO IMPROVE EFFICIENCY

- » Amperage draw
- » Closed side setting
- » Countershaft RPM
- » Lube system health
- » Hydraulics health
- » Historic alarms

ALARMS FOR HARMFUL CONDITIONS

- » Lube temp, pressure and level
- » Eccentric bushing temp
- » Hydraulic temp and level
- » Tramp and clamp pressures
- » Ring bounce
- » Bowl float
- » Over amperage

PRECISE CONTROL

- » Auto feed control
 - » Auto level control
 - » Auto power control
 - » Auto setting control
- » Lube heaters
- » Lube pump
- » Hydraulic pump
- » Oil cooler
- » Drive motor
- » Feeder

PATRIOT CONE CRUSHER LIFETIME WARRANTY

LIMITED LIFETIME WARRANTY FOR MAJOR CRUSHER COMPONENTS

MAJOR COMPONENTS COVERED



1. Adjustment Ring



2. Bowl



3. Eccentric



4. Head



5. Mainframe



6. Main Shaft



WARRANTY REQUIREMENTS



- » Exclusive use of Superior parts
- » Paid inspection annually or every 2,000 hours
- » Presale application review
- » Vantage® Automation
- » Operation within design limits

EXCLUSIONS

- » Damage from tramp metal, extended high power draw, misuse or improper maintenance
- » Damage from negligence or accidents
- » Labor, travel or freight costs associated with repairs or installation
- » Damage from unauthorized repairs, modifications or parts
- » Normal wear and tear
- » Non-utilization of Vantage Automation
- » Damage from plant downtime
- » Products rented or leased

SPECIFICATIONS

	PATRIOT CONE CRUSHER GENERAL SPECIFICATIONS														
Model	Head Di	ameter	We	ight	Recomm	ended HP	Max Feed	Opening	C	SS					
	mm	in	kg	lbs	kW	hp	mm	in	mm	in					
P200	970	38	8,838	19,485	150	200	236	9.3	10 - 50	3/8 - 2					
P300	1,117	44	16,029	35,340	225	300	270	10.6	10 - 50	3/8 - 2					
P400	1,320	52	24,130	53,200	300	400	310	12.2	10 - 50	3/8 - 2					
P500	1,500	59	33,566	74,000	375	500	343	13.5	10 - 50	3/8 - 2					
P600	1,500	59	51,113	112,685	450	600	356	14	10 - 50	3/8 - 2					

		PERCENT	PASSING FO	R A GIVEN C	LOSED SIDE	SETTING - A	VERAGE FEE	D MATERIAL	. (12-14WI)	
Produ	ct Size	3/8"	1/2"	5/8″	3/4"	7/8"	1″	1-1/4"	1-1/2"	2"
in	mm	10 mm	13 mm	16 mm	19 mm	22 mm	25 mm	31 mm	38 mm	50 mm
4"	100.0									100.0
3"	75.0								100.0	96.0
2-1/2"	63.0							100.0	97.0	89.0
2"	50.0						100.0	98.0	90.0	71.0
1-3/4"	45.0					100.0	99.0	95.0	83.0	60.0
1-1/2"	38.0				100.0	99.0	96.0	88.0	72.0	49.0
1-1/4"	31.0			100.0	99.0	96.0	90.0	74.0	55.0	39.0
1″	25.0		100.0	99.0	95.0	86.0	76.0	56.0	41.0	30.0
7/8"	22.0	100.0	99.0	96.0	89.0	78.0	66.0	46.0	35.0	26.0
3/4"	19.0	99.0	96.0	90.0	79.0	68.0	57.0	38.0	30.0	22.0
5/8"	16.0	97.0	91.0	80.0	69.0	56.0	46.0	31.0	25.0	18.0
1/2"	13.0	92.0	81.0	69.0	57.0	45.0	36.0	26.0	20.0	15.0
3/8"	10.0	81.0	66.0	54.0	45.0	34.0	28.0	20.0	15.0	11.5
1/4"	6.0	58.0	45.0	36.0	30.0	24.0	19.0	14.0	11.0	8.0
4M	5.0	45.0	35.0	28.0	23.0	18.0	15.0	11.0	9.0	6.0
6M	3.0	33.0	26.0	21.0	17.0	13.0	11.0	8.0	6.0	4.0
(M8)	2.0	26.0	20.0	16.0	13.0	10.0	8.0	5.0	4.0	2.0

Feed size is determined by measuring the longest one-way dimension of the material sample. Projected crusher gradings and capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft 3 (1.6 mt/m³). The feed grading must contain less than 20% passing the css for secondary and 10% passing the css for tertiary cone crushers. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.

PORTABLE CRUSHING PLANTS





Rock Face to Load Out® PATRIOT® CONE CRUSHER 2021-01SPLT1089EN-06



LIBERTY JAW CRUSHER

Demanding Applications Need a Jaw Crusher Designed to Handle Tough Production Requirements.

FEATURES

- » Bolted, non-welded frame construction with premium quality castings and components.
- » Hydraulic wedge adjustment allows for push button control of closed side settings.
- » Aggressive nip angle ensures the jaw consistently processes material and maintains capacity throughout liner life.
- » Mid-mount frame ensures compact installation.

APPLICATIONS



Ore/Hard Rock Mining



Quarried Stone

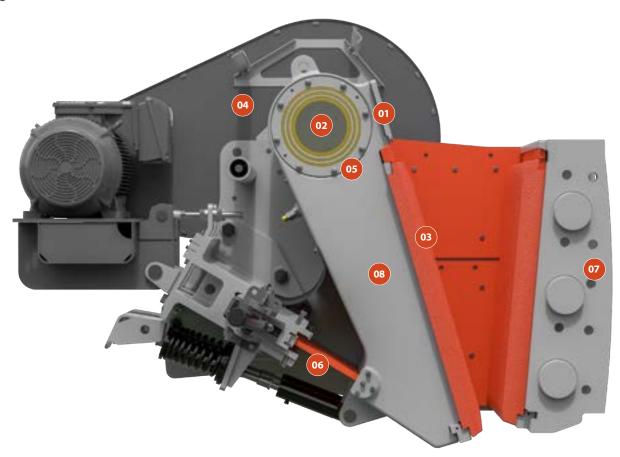


River Gravel



Recycle Concrete





01/ REPLACEABLE BARREL LINER

Easily replaced and designed to protect the bearings and pitman housing.

02/ HIGH STRENGTH ECCENTRIC SHAFT

This hardest working component is precision CNC-machined for proven high strength and reliability.

03/ MINE DUTY JAW DIES

Offering different liner configurations expands the application window for the crusher.

04/ SOLID CAST, HIGH INERTIA FLYWHEELS

Optimized design to generate the crushing force required for the toughest and hardest materials.

05/ SPHERICAL ROLLER INBOARD/ OUTBOARD BEARINGS

Ensures the maximum performance providing the lowest cost of ownership.

06/ HIGH STRENGTH TOGGLE PLATE

Provides the correct protection of the crusher to ensure performance and long term durability.

07/ HIGH STRENGTH SOLID CASTING

Cast structural components, including end frames and a one-piece pitman, for a high strength machine.

08/ ONE-PIECE CAST PITMAN

High strength solid casting.

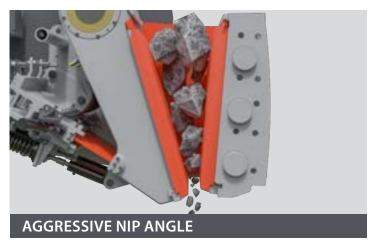
HIGHLIGHTS



» Single push button hydraulically allows operators to adjust closed side settings.



» Integrated into the dies versus unsafe welded options, which can break from the dies.



» Jaw consistently processes material and maintains strong capacity through liner life.



» Replaceable component for protection and to eliminate long periods of downtime for re-machining.



» Designed for a single crew member to remove guarding for simplified access to drive.



SPECIFICATIONS

	LIBERTY JAW GENERAL SPECIFICATIONS														
Model	Wei	ght	Feed Op	ening	С	SS	Cap	acity	Speed	Max Fe	ed Size	Pov	wer		
	kg	lbs	mm x mm	in x in	mm	in	mtph	stph	rpm	mm	in	kW	hp		
2155B	16,500	36,400	530 x 1,400	21 x 55	40 - 130	1.6" - 5.1"	90 - 400	100 - 440	280	427	16.8"	110	150		
2636B	14,050	31,000	650 x 900	26 x 36	60 -160	2.4"- 6.3"	110 -360	120 -396	300	528	20.8"	75	100		
3042B	15,700	34,600	750 x 1,070	30 x 42	70 - 200	2.75" - 8"	150 - 500	165 - 550	280	610	24.0"	110	150		
3343B	22,300	49,200	830 x 1,100	33 x 43	80 -200	3.2"- 8"	180 - 620	200 - 680	270	671	26.4"	110	150		
3055B	26,950	59,000	760 x 1,400	30 x 55	70 - 200	2.75" - 8"	240 - 780	265 - 855	260	610	24.0"	160	200		
3455B	31,500	69,445	860 x 1,400	34 x 55	100 -200	4"- 8"	320 - 800	353 - 880	250	691	27.2"	160	200		
3448B	28,000	62,000	860 x 1,220	34 x 48	70 - 200	2.75" - 8"	170 -560	185 - 615	230	691	27.2"	160	200		
4051B	42,000	92,600	1,010 x 1,300	40 x 51	100 -200	4" - 8"	290 - 880	320 - 970	230	813	32.0"	160	200		
4655B	52,500	115,800	1,160 x 1,400	46 x 55	150 -250	6"- 10"	400 - 900	440 - 990	230	935	36.8"	200	300		
5165B	71,250	157,100	1,290 x 1,650	51 x 65	150 - 270	6"- 10.5"	550 -1,100	605 -1,210	220	1,036	40.8"	250	350		
6080B	135,000	297,000	1,525 x 2,030	60 x 80	200 -300	8" - 12"	700 -1,450	770 -1,595	200	1,219	48.0"	400	500		

		PI	ERCENT F	PASSING I	FOR A GI	VEN CLO	SED SIDE	SETTING	- AVERAG	GE FEED I	MATERIAI	L (12-14 v	vork inde	к)
in	mm	1.5" (38mm)	2″ (50mm)	2.5" (63mm)	3″ (76mm)	3.5" (88mm)	4" (101mm)	5" (127mm)	6" (152mm)	7″ (177mm)	8″ (203mm)	10" (254mm)	11" (279mm)	12" (304mm)
18	457												100%	100%
16	406											100%	98	94
14	355											98	90	83
12	304										100%	84	77	70
10	254								100%	100%	88	70	64	58
8	203							100%	94	80	70	56	51	47
7	177							94	82	70	61	49	45	41
6	152					100%	100%	82	70	60	53	42	38	35
5	127				100%	99	87	70	58	50	44	35	32	29
4	101		100%	100%	92	80	70	56	47	40	35	28	25	23
3	76	100%	95	83	70	60	53	42	35	30	27	21	19	18
2.5	63	95	85	70	59	50	44	35	29	25	22	18	16	15
2	50	85	70	57	48	40	35	28	24	20	18	14	13	12
1.5	38	69	52	42	35	30	26	21	18	15	14	11	10	9
1	25	44	34	28	23	20	17	14	12	10	9	7	7	6
0.75	19	32	25	21	18	15	13	11	9	8	7	5	5	5
0.5	12	22	18	15	12	10	9	7	6	5	5	4	4	3
0.25	6	12	10	8	6	5	5	4	3	3	2	2	2	1

Feed size is determined by measuring the longest one-way dimension of the material sample.

Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft³ (1.6 mt/m³). The feed grading must have less than 10% passing the crusher setting. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.

MULTIPLE LINER CONFIGURATIONS







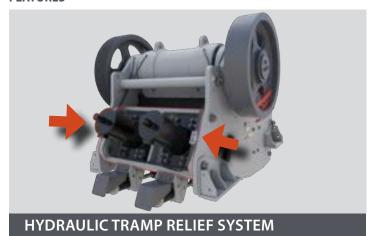




Rock Face to Load Out® LIBERTY® JAW CRUSHER

HYDRAULIC TOGGLE SYSTEM

FEATURES



» Allows uncrushable materials to pass through the crusher, protecting major components from damage.



» A simple push button allows operator to adjust CSS hydraulically.

SPECIFICATIONS

	LIBERTY JAW MODELS WITH HYDRAULIC TOGGLE OPTION														
Model	Wei	ght	Feed Op	ening	С	SS	Cap	acity	Speed	Max Fe	ed Size	Pov	ver		
	kg	lbs	mm x mm	in x in	mm	in	mtph	stph	rpm	mm	in	kW	hp		
2636B	14,050	31,000	650 x 900	26 x 36	60 -160	2.4"- 6.3"	110 -360	120 -396	300	528	20.8"	75	100		
3042B	15,700	34,600	750 x 1,070	30 x 42	70 - 200	2.75" - 8"	150 - 500	165 - 550	280	610	24.0"	110	150		
3343B	22,300	49,200	830 x 1,100	33 x 43	80 -200	3.2"-8"	180 - 620	200 - 680	270	671	26.4"	110	150		
3055B	26,950	59,000	760 x 1,400	30 x 55	70 - 200	2.75" - 8"	240 - 780	265 - 855	260	610	24.0"	160	200		
3455B	31,500	69,445	860 x 1,400	34 x 55	100 -200	4"-8"	320 - 800	353 - 880	250	691	27.2"	160	200		
3363B	30,500	67,250	830 x 1,600	33 x 63	80 - 200	3.2" - 8"	270 -760	297 - 837	230	650	25.6"	150	200		
4051B	42,000	92,600	1,010 x 1,300	40 x 51	100 -200	4"-8"	290 - 880	320 - 970	230	813	32.0"	160	200		

14 LIBERTY® JAW CRUSHER Superior Industries

CRUSHING SCREENING WASHING CONVEYING COMPONENTS PLANTS CONSTRUCTION AFTERMARKET



DAKOTA CONE CRUSHER

Secondary or Tertiary Crusher For Aggregate and Mining Applications.

FEATURES

- » Standard 2-year/6,000 hr warranty protects costliest components.
- » Backed by eager service team who respond quickly.
- » High-grade steel components, which exceed industry standards.
- » Committed to large inventory of parts for fast deliveries.

APPLICATIONS



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical products



Super Pave Products



Rock Face to Load Out[®] DAKOTA® CONE CRUSHER 15



01/ BEARING DESIGN

Bearing design efficiently converts horsepower to crushing forces and benefits from a more compact lube tank.

02/ LUBRICATED STEEL THREADED BOWL ASSEMBLY

Stronger and lubricated threads eliminate the requirement for bronze thread inserts and allows for the adjustment of crusher settings with no seizing or fretting.

03/ LEFT-HAND BOWL THREADS

Prevents the crusher from closing down if clamp pressure is lost.

04/ UNIVERSAL CRUSHING CHAMBER

Other than minor wear parts, design requires no major changeouts when transitioning from secondary and tertiary applications.

05/ RAISED CONE HEAD SEATING SURFACE

Machined surface can be reconditioned up to 3X without need for additional welding.

06/ TRAMP RELIEF SYSTEM

A single accumulator means reduced failure points and maintenance requirements with fast acting tramp event relief.

07/ INVERTED TRAMP RELIEF CYLINDERS

Reverse design ensures hydraulic seal is not exposed to contamination during operation.

08/ ENCLOSED WEDGE-PLATE ASSEMBLY

Protects against the flow of material, which alllows the crusher to maintain balance. Guarded to provide additional wear protection.

09/ STEEL LABRYNTH SEALS

Opposed to UHMW contact seals, noncontact labrynth seals prevent friction, wear and contamination.

10/ HYDRAULIC ANTI-SPIN MECHANISM

Prevents the head from spinning when there is no load in the crusher.

11/ SPIRAL GEAR SET

Proven to perform at higher speeds with less vibration and noise.

12/ ONE PIECE CAST MAIN FRAME

Removes any welding for highest possible strength and durability.

13/ INDEPENDENT CAST COUNTERSHAFT BOX

Incorporates roller bearings and Optimizes disassembly process for improved serviceability

14/ REPLACEABLE SEAT LINERS

Bronze liners protect mainframe and adjustment ring from wear.

15/ ARM GUARDS AND MAINFRAME LINERS

Replaceable AR400 wear parts that protect the mainframe casting from premature wear.

DAKOTA® CONE CRUSHER Superior Industries

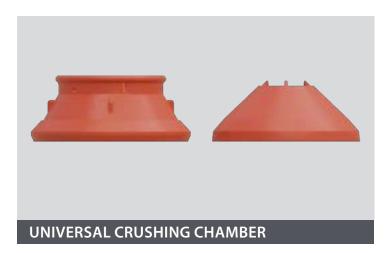
HIGHLIGHTS



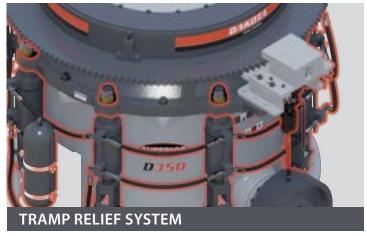
» Allows reconditioning of head seating surface



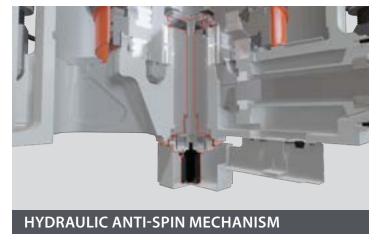
» Reverse design ensures hydraulic seal is not exposed to contamination during operation



» Application flexibility from secondary to tertiary



» Reduce maintenance and points of failure with fewer accumulators



» Prevents head from spinning when no load in the crusher



» Prevents catastrophic damage

VANTAGE® AUTOMATION



- » One button auto-start or auto-stop motor control
- » Startup and shutdown system in correct sequence every time
- » No lengthy training, learn operation in minutes due to simple screen layout
- » Automatically maintain optimum production conditions
- » Alarms alert operators for conditions that need to be addressed
- » All critical data listed on operators page
- » Pre-assembled wiring for plug-andplay installation
- » In-House design means fast support and custom programs
- » Auto Level, power or adjust feature to maximize the crusher efficiency
- » Wintermode maintains lube temperature while crusher is not running

CAPABILITIES

TRACK TO IMPROVE EFFICIENCY

- » Motor amperage draw
- » Closed side setting
- » Anti-spin pressure
- » Lube system health
- » Hydraulic health
- » History of alarms

ALARMS FOR HARMFUL CONDITIONS

- » Lube temp, pressure, and level
- » Hydraulic temp and level
- » Tramp and clamp pressures
- » Ring bounce
- » Bowl float
- » High anti-spin pressure
- » Over amperage

PRECISE CONTROL

- » Auto feed control
 - » Auto level
 - Auto power
 - » Auto setting
- » Lube heaters- Scheduled start time
- » Lube pump- Scheduled pump start
- » Hydraulic pumps
- » Oil cooler
- » Drive motor
- $\ \ \, \text{$^{\circ}$ Feeder motor VFD signal-ready}$

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SPECIFICATIONS

	DAKOTA CONE CRUSHER GENERAL SPECIFICATIONS													
Model	Head Di	ameter	Wei	ght	Recomm	ended HP	Max Feed	Opening	Speed					
	mm	in	kg	lbs	kW	hp	mm	in	rpm	Min mtph				
D350	1,219	48	20,870	46,000	260	350	305	12	750-950	155				

	OPEN CIRCUIT	CAPACITIES	
Min mtph	Max mtph	Min stph	Max stph
155	415	170	460

				PER	CENT PAS	SING					
No. 1-1							CSS				
Model	in	mm	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"	1-1/2"	1-3/4"	2"
	4"										100
	3-1/2"									100	96
	3"								100	95	90
	2-3/4"								98	92	86
	2-1/2"							100	95	88	81
	2-1/4"							97	91	83	74
	2"						100	94	86	76	65
	1-3/4"					100	99	89	79	66	55
	1-1/2"				100	99	95	82	68	56	45
	1-1/4"			100	99	95	87	72	56	46	38
	1"		100	99	95	87	80	60	45	36	29
	7/8"		99	95	88	80	71	49	38	30	25
	3/4"		95	91	83	71	58	41	32	26	21
D250	5/8"		90	85	73	58	50	34	28	22	18
D350	1/2"		85	75	63	50	42	28	23	19	16
	3/8"		69	63	51	42	35	21	17	14	12
	5/16"		61	56	43	35	29	19	15	13	10
	1/4"		50	45	37	29	21	16	13	11	9
	#4		36	33	28	21	18	14	11	9	7
	0.16"		30	28	23	18	16	12	10	8	6
	#8		26	24	20	16	14	9	7	5	4
	#10		22	20	17	14	10	8	6	4	3
	#16		17	15	13	10	6	6	4	3	2
	#30		11	9	8	6	5	4	3	2	1.5
	#40		10	8	7	5	4	3	2	1.5	1
	#50		8	7	6	4	3.5	2	1.5	1	0.5
	#100		7	6	5	3.5	3	1.5	1	0.5	0.4
	#200		6	5	4	3	2	1	0.5	0.4	0.3

Feed size is determined by measuring the longest one-way dimension of the material sample.

Projected crusher gradings and capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft 3 (1.6 mt/m3). The feed grading must contain less than 20% passing the css for secondary and 10% passing the css for tertiary cone crushers. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.

Rock Face to Load Out® **DAKOTA® CONE CRUSHER** CRUSHING SCREENING WASHING CONVEYING COMPONENTS PLANTS CONSTRUCTION AFTERMARKET



ENDEAVOR® CONE CRUSHER

Secondary or Tertiary Crusher For Aggregate and Mining Applications.

FEATURES

- » Standard 2-year/6,000 hr warranty protects costliest components.
- » Backed by eager service team who respond quickly.
- » High-grade steel components, which exceed industry standards.
- » Committed to large inventory of parts for fast deliveries.

APPLICATIONS



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel

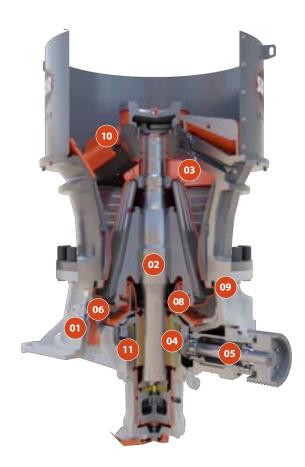


Cubical products



Super Pave Products





01/ MAIN FRAME ACCESS INSPECTION PORTS

Two ports provide easy inspection access to lower main frame.

02/ FLOATING SHAFT DESIGN

Single cylinder to maintain CSS instead of multiple.

03/ UNIVERSAL CRUSHING CHAMBER

Application flexibility from coarse to fine crushing.

04/ SPIRAL BEVEL GEAR SET

Less vibration and noise than straight bevel gears.

05/ INTEGRAL COUNTERSHAFT HOUSING

No countershaft box seal to maintain. Countershaft box out of the flow of discharge material.

06/ ENCLOSED ECCENTRIC ASSEMBLY WITH BOLT-ON DUST SHIELD

Protects assembly from wear.

07/ FULLY INTERGRATED LUBRICATION & HYDRAULIC SYSTEM

Designed and sized to ensure trouble free operation for each model. [Not shown]

08/ COMPOSITE DUST SEALS

Provides superior performance and reliability.

09/ ONE PIECE CAST TOP AND BOTTOM SHELL

Greater strength.

10/ CONSISTENT FEED OPENING THROUGHOUT THE LIFE OF THE LINER

No adjustment to feed needed based on liner wear.

11/ VARIABLE ECCENTRIC THROW

Allows end-user to adjust the stroke of the machine to meet application needs.

HIGHLIGHTS



» Two ports provide easy inspection access to lower main frame



» Protects assembly from wear



» Application flexibility from secondary to tertiary



» No countershaft box seal to maintain and countershaft box is located out of the flow of discharge material



» Single cylinder maintains CSS and allows chamber clearing during tramp event



ADJUSTABLE STROKE

» Variable eccentric throw allows end user to adjust the stroke of the machine

VANTAGE® AUTOMATION



- » One button auto-start or auto-stop motor control
- » Startup and shutdown system in correct sequence every time
- » No lengthy training, learn operation in minutes due to simple screen layout
- » Automatically maintain optimum production conditions
- » Alarms alert operators for conditions that need to be addressed
- » All critical data listed on operators page
- » Pre-assembled wiring for plug-andplay installation
- » In-House design means fast support and custom programs
- » Auto Level, power or adjust feature to maximize the crusher efficiency
- » Wintermode maintains lube temperature while crusher is not running

CAPABILITIES

TRACK TO IMPROVE EFFICIENCY

- » Motor amperage draw
- » Closed side setting
- » Lube system health
- » Hydraulic health
- » History of alarms

ALARMS FOR HARMFUL CONDITIONS

- » Lube temp, pressure, and level
- » Hydraulic temp and level
- » Tramp pressures
- » Tramp events
- » Over amperage

PRECISE CONTROL

- » Auto feed control
 - Auto level
 - » Auto power
 - » Auto setting
- » Lube heaters Scheduled start time
- » Lube pump Scheduled pump start
- » Hydraulic pump
- » Oil cooler
- » Drive motor
- » Feeder motor VFD signal-ready

	ENDEAVOR CONE CRUSHER GENERAL SPECIFICATIONS														
Model	Head D	Diameter	Weight		Recommended HP		Max Feed Opening		Speed		CSS				
	mm	in	kg	lbs	kW	hp	mm	in	rpm	mm	in				
ST300	1,090	42-15/16	15,870	34,980	225	300	210	8-1/4	1,438	8 - 48	5/16 to 1-7/8				
SS300	980	38-9/16	19,980	44,050	225	300	450	17-3/4	1,354	25 - 54	1 to 2-1/8				
ST400	1,330	52-9/25	27,440	60,500	300	400	344	13-1/2	1,188	29 - 83	1-1/8 to 3-1/4				
SS400	1,138	44-4/5	34,930	77,000	300	400	700	27-1/2	1,060	13 - 51	1/2 to 2				

	PERCENT PASSING													
Model	CSS (SIE	VE SIZE)	1.142" (29mm)	1 1/4" (32mm)	1.378" (35mm)	1 1/2" (38.1mm)	1.614" (41mm)	1.732" (44mm)	1.89" (48mm)	2" (50.8mm)				
			% Passing	% Passing	% Passing	% Passing	% Passing	% Passing	% Passing	% Passing				
	4.724"	120												
	3.937"	100							100	100				
	3.150"	80					100	100	97	95				
	2.756"	70			100	100	98	96	93	90				
	2.362"	60	100	100	99	98	94	90	84	79				
	1.969"	50	99	98	94	89	82	74	69	64				
	1.575"	40	92	87	81	74	67	59	53	48				
Endeavor	1.181"	30	75	67	61	56	49	43	38	34				
Secondary Models	0.984"	25	63	56	49	43	38	34	30	27				
	0.787"	20	49	43	39	35	30	26	23	21				
	0.591"	15	37	33	30	27	23	20	18	17				
	0.394"	10	24	21	19	17	15	14	13	12				
	0.236"	6	17	15	13	12	11	10	9.3	8.9				
	#4	4	13	12	11	10	8.9	7.9	7.3	6.9				
	#8	2	10	8.9	8.4	7.9	7.4	6.9	6.3	5.9				
	#16	1	6.3	5.9	5.8	5.5	5.3	5	4.7	4.5				

Model CSS (SIEVE SIZE) C16mm) C748" C25mm) C2											
Model	CSS (SIE	CSS (SIEVE SIZE) in mm 9% Passing 5" 127 3.937" 100 3.150" 80 2.756" 70 2.362" 60 1.969" 50 1.575" 40 1.181" 30 0.984" 25 100 0.787" 20 95 0.591" 15 81 0.394" 10 54 0.236" 6 34 #4 4 4 24 #8 2 15	.748″ (19mm)	.748" .867" (19mm) (22mm)							
ouci	in	mm	% Passing	% Passing	% Passing	% Passing					
	5"	127		0" (19mm) .867" (22mm) .984" (25mm) ssing % Passing % Passing % Passing 100 100 100 100 96 91 0 97 89 82 6 86 74 66 1 68 56 48 1 43 35 30 27 22 19 1 16 14							
	3.937"	100		.630" (19mm) (22mm) % Passing % Passing % Passing 9 100 100 96 100 97 89 95 86 74 81 68 54 43 35 34 27 22 24 19 16 15 12 10							
	3.150"	80									
	2.756"	70									
	2.362"	60									
	1.969"	50									
	1.575"	40			100	100					
	1.181"	30		100	96	91					
Models	0.984"	25	100	97	89	82					
	0.787"	20	95	86	74	66					
	0.591"	15	81	68	56	48					
	0.394"	10	54	43	35	30					
	0.236"	6	34	27	22	19					
	#4	4	24	19	16	14					
	#8	2	15	12	10	8.9					
	#16	ı				6.9					

Feed size is determined by measuring the longest one-way dimension of the material sample. Projected crusher gradings and capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft 3 (1.6 mt/m³). The feed grading must contain less than 20% passing the css for secondary and 10% passing the css for tertiary cone crushers. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.

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COMPONENTS SCREENING WASHING CONVEYING CONSTRUCTION CRUSHING PLANTS AFTERMARKET



CEMCO° VERTICAL SHAFT IMPACTOR

Creates Cubical Aggregates, Manufactured Sands and Eliminates Unsound Material

ADVANTAGES OF VSI CRUSHING

- » Shaping, cubical product
- » Fine crushing
- » Gradation consistency
- » High fracture face count

- » Simplified maintenance
- » Accepts wetter feed
- » Very portable
- » Lower capital cost than compression crushing

Products

APPLICATIONS



Manufactured Sand



Man-Made Materials



Material Beneficiation



Cement Clinker



Precious Metals Recovery



Concrete Rock



Re-Crushing Inventory



Chips



Fractured



Shaping



Cubical products





Asphalt

Rock Face to Load Out® 25

CEMCO VSI FEATURES



01/ HYDRAULIC LID LIFTER

Hydraulic lid lifter and camloc system provide quick internal access.

02/ ADJUSTABLE FEED TUBE

Wear-resistant adjustable feed tube maximizes throughput and insures all feed material is processed.

03/ CRUSHING CHAMBER

Interchangeable crushing chamber can accomodate multiple rotor and anvil ring configurations for greater application flexibility.

04/ ROTOR ASSEMBLY

Replaceable pedestal style component can also be rebuilt in a shop environment.

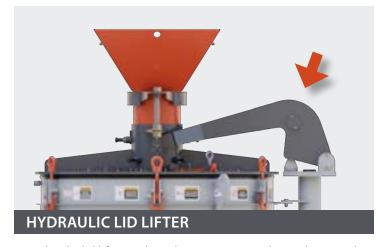
05/ ANVIL RING

Rotatable and count-adjustable anvil ring

06/ SINGLE OR DUAL DRIVE

Optional twin motor design minimizes cyclic vibration and correctly loads pedestal bearings.

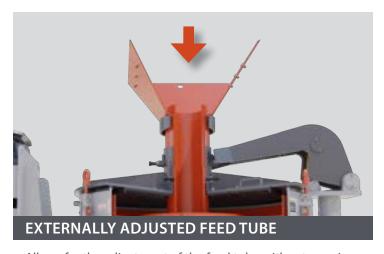
HIGHLIGHTS



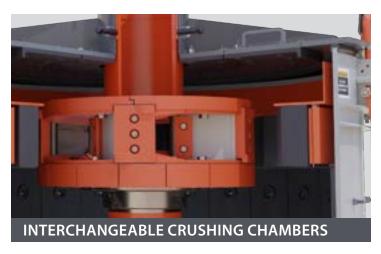
» Hydraulic lid lifter and camloc system provide quick internal access for routine inspections and easier maintenance.



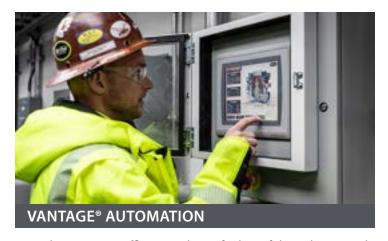
» Optional twin motor design minimizes cyclic vibration and correctly loads pedestal bearings for more power and longer pedestal life.



» Allows for the adjustment of the feed tube without opening the crusher.

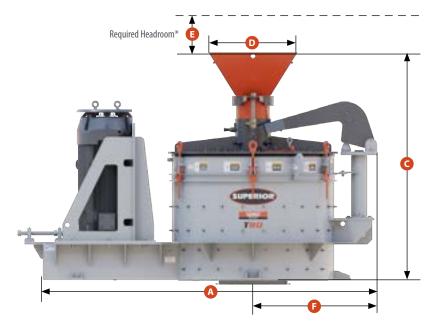


» Can accomodate several rotor and anvil ring configurations for a broader range of applications.



» Track to improve efficiency, alarms for harmful conditions and precise control.







*Required headroom for lid to open straight up and the feed hopper to clear the tub wall and swing open.

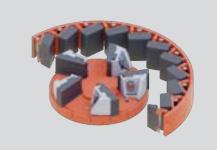
VSI CRUSHER DIMENSIONS													
Model	A		В		С		D		E			F	
	mm				mm		mm				mm		
T35 (Single)	2,475	97.44	1,251	49.25	1,621	63.81	617	24.31	300	12.00	795	31.31	
T54 (Single)	3,267	132.63	1,930	76	2,268	89.31	832	32.75	300	12.00	1,248	49.13	
T70 (Single)	3,532	139.06	2,014	79.31	2,270	89.37	832	32.75	300	12.00	1,306	51.44	
T80 (Single)	3,540	139.38	2,090	82.38	2,475	97.43	940	37.00	300	12.00	1,300	51.00	
T80 (Dual)	4,180	164.75	2,090	82.38	2,475	97.43	940	37.00	300	12.00	1,300	51.00	
T96 (Single)	4,276	168.37	2,314	91.12	2,908	114.5	940	41.75	300	12.00	1,527	60.12	
T96 (Dual)	4,869	191.69	2,314	91.12	2,908	114.5	940	41.75	300	12.00	1,527	60.12	

	TYPICAL PHYSICAL PROPERTIES												
			ax I Size	Table/R Diame		Capacity		Rotor/Table Operation Range	Typical HP Range		Max Weight		
Model	Configuration	mm	in	mm	in	mtph	stph	RPM	kW	hp	kg	lbs	
T35	Rotor (4 Port)	25	1	457	18	9-45	10-50	2,000-2,600	56-75	75-100	2,495	5,500	
Single	Shoe Table (4, 5 Shoe)	40	1.5	457	18	9-45	10-50	2,000-2,600	56-75	75-100	2,495	5,500	
T54	Rotor (4 Port)	40	1.5	686	27	45-113	50-125	1,200-1,950	112-187	150-250	4,990	11,000	
Single	Shoe Table (4, 5 Shoe)	50	2	686	27	45-113	50-125	1,200-1,950	112-187	150-250	4,990	11,000	
T70	Rotor (4 Port)	50	2	813	32	45-136	50-150	1,200-1,850	149-224	200-300	7,030	15,500	
Single	Shoe Table (4, 5 Shoe)	75	3	813	32	45-136	50-150	1,200-1,850	149-224	200-300	7,030	15,500	
T80	Rotor (5 Port)	65	2.5	889	35	90-250	100-275	1,250-1,650	Single 225-300	300-400	8,777	19,350	
Single or Dual	Shoe Table (4, 5, 6 Shoe)	100	4	889	35	90-250	100-275	1,250-1,650	Dual 450-600	600-800	11,430	25,200	
T96	Rotor (3,6 Port)	75	3	990	39	136-408	150-450	1,250-1,650	Single 225-300	300-400	12,610	27,800	
Single or Dual	Shoe Table (4, 5, 6 Shoe)	100	4	965	38	136-408	150-450	1,250-1,650	Dual 450-600	600-800	15,875	35,000	

Feed size is determined by measuring the longest one-way dimension of the material sample.

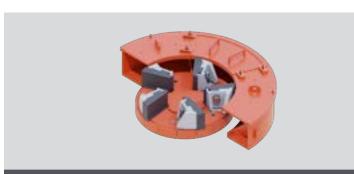
Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft³ (1.6 mt/m³). The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely.

CRUSHING CHAMBER CONFIGURATIONS



SHOE TABLE / ANVIL RING

- » Medium range friable material
- » Medium to low abrasion material
- » Low to Medium recirculating load
- » Good reduction rate, recommend for "chips" and sand



SHOE TABLE / ROCK SHELF

- » Friable, low abrasion material
- » Low reduction rate, high recirculating load
- » Low percentage of "fracture face" material



SUPERCHIPPER™ ROTOR/ ANVIL RING

- » Low recirculating load
- » High reduction rate, high "fractured face" ratio
- » Use with high abrasion, low friability material
- » Excellent for producing sands and fines

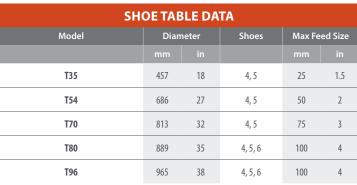


SUPERCHIPPER™ ROTOR / ROCK SHELF

- » Good for shaping abrasive material
- » Good for light crushing

SPECIFICATIONS







SUPERCHIPPER™ ROTOR DATA											
Model	Dian	neter	Ports	Max Fe	ed Size						
	mm	in		mm	in						
T35	457	18	4	25	1						
T54	686	27	4	40	1.5						
T70	813	32	4	50	2						
T80	889	35	5	65	2.5						
T96	990	39	3, 6	75	3						

DELIVERY METHODS



- » Customized to fit applications
- » Pre-engineered to reduce lead time
- » Simple and quick assembly time in the field



- » Multiple feed and discharge configurations
- » Customized to fit applications
- » Superior branded conveyor components



VALOR VSI - BELT DRIVE

Cubical aggregates, Manufactured Sands and Eliminates Unsound Material

FEATURES

- » Hydraulic lid improves safety and simplifies access to crusher chamber.
- » Multiple chamber options for maximum flexibility including steel on steel, rock on steel and rock on rock.
- » Vibration switch to protect crusher components in a high vibration situation.
- » Backed by a standard 2-year warranty, plus a service team committed to exceeding customer expectations.

APPLICATIONS



Manufactured Sand



Man-Made Materials



Material Beneficiation



Cement Clinker



Precious Metals Recovery



Concrete Rock



Re-Crushing Inventory



Chips



Fractured Gravel



Shaping



Cubical products



Asphalt



VALOR® VSI - BELT DRIVE 31

Super Pave

Products

BELT DRIVE FEATURES



01/ HYDRAULIC LID LIFTER

Simple hydraulic controls to allow safe access to chamber. Safety switch and support arm are additional safeguards.

02/ FEED TUBE

An external design on all models allows adjustments without opening the crusher.

03/ CRUSHING CHAMBER

Convertible crushing chamber from anvil ring to rock-shelf for greater application flexibility.

04/ BEARING ASSEMBLY

Replaceable pedestal style component can also be rebuilt in a shop environment.

05/ BRANDED BEARINGS

High capacity, high load rated bearings.

06/ AIR TRANSFER SYSTEM

Reduces possible dust emissions.

HIGHLIGHTS



» Simple hydraulic controls to allow safe access to chamber.Safety switch and support arm are additional safeguards.



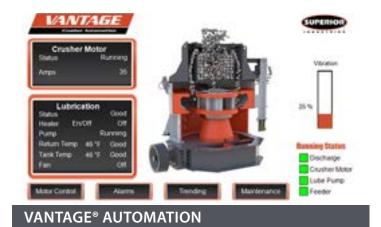
» Protects the crusher from catastrophic failure if an imbalance occurs.



» Allows for the adjustment of the feed tube without opening the crusher.



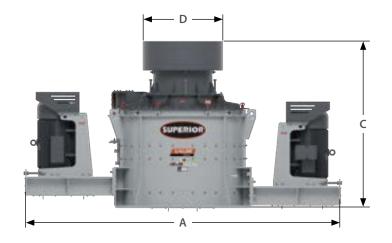
- » Safety switch interrupts power and provides protection to operators while servicing crusher.
- » Safety support arm prevents lid from lowering in the event of a loss of hydraulic pressure.



» Track to improve efficiency, alarms for harmful conditions and precise control.



BELT DRIVE SPECIFICATIONS





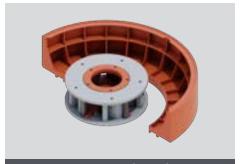
VSI-B CRUSHER DIMENSIONS											
Model	Į .	١.	В			с	D				
	mm	in	mm		mm		mm	in			
V2160 Single Drive	4,115	162.0	2,324	91.5	3,104	122.2	1,397	55.0			
V2160 Dual Drive	5,563	219.0	2,324	91.5	3,104	122.2	1,397	55.0			

	TYPICAL PHYSICAL PROPERTIES												
		M Feed	ax Size	Table/Rotor Diameter		Est. Max Capacity		/ 1	orsepower nge	Weights			
Model	Configuration	mm	in	mm	in	mtph	stph	kW	hp	kg	lbs		
1/24.60	Impeller Table & Anvils (SOS)	127	5	914 - 1,066	36 - 42	180 - 385	200 - 425	150 - 225	200 - 300	11,952	26,350		
V2160 Single Drive	Rotor & Anvil (ROS)	60	2.38	812 - 914	32 - 36	163 - 362	180 - 400	150 - 225	200 - 300	11,483	25,317		
DIIVE	Rotor & Rockbox (ROR)	60	2.38	812 - 914	32 - 36	163 - 362	180 - 400	150 - 225	200 - 300	8,983	19,805		
1/24.60	Impeller Table & Anvils (SOS)	127	5	914 - 1,066	36 - 42	180 - 385	200 - 425	300 - 450	400 - 600	14,968	33,000		
V2160 Dual Drive	Rotor & Anvil (ROS)	60	2.38	812 - 914	32 - 36	163 - 362	180 - 400	300 - 450	400 - 600	14,500	31,967		
Dilve	Rotor & Rockbox (ROR)	60	2.38	812 - 914	32 - 36	163 - 362	180 - 400	300 - 450	400 - 600	12,000	26,455		

Feed size is determined by measuring the longest one-way dimension of the material sample.

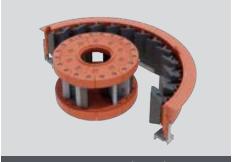
Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft³ (1.6 mt/m³). The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely.

CRUSHING CHAMBER CONFIGURATIONS



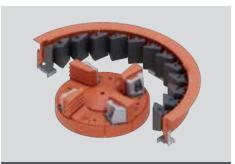
ROCK ON ROCK (ROR)

- » Enclosed Rotor and Rock Shelf
- » Feed sizes to 2-3/8"
- » High abrasion materials



ROCK ON STEEL (ROS)

- » Enclosed Rotor and Anvils
- » Feed sizes to 2-3/8"
- » Medium abrasion materials



STEEL ON STEEL (SOS)

- » Shoe and Anvil
- » Feed size up to 4"
- » Low to medium abrasion materials

HEAD CONFIGURATIONS



CAST ROTOR

- » 4 port available
- » Parts interchangeable between top and bottom
- » No hardfacing required



FABRICATED ROTOR

- » 5 port available
- » Designed with fewest parts possible
- » No hardfacing required



OPEN SHOE TABLE

- » 4, 5 and 6 shoes available
- » 28% chrome and ceramic available
- » Designed for easy maintenance

CHAMBER CONFIGURATIONS





DELIVERY METHODS



- » Customized to fit applications
- » Pre-engineered to reduce lead time
- » Simple and quick assembly time in the field



- » Multiple feed and discharge configurations
- » Customized to fit applications
- » Superior branded conveyor components



SENTRY HORIZONTAL SHAFT IMPACTOR

Rugged, Resilient Design Capable of Crushing in Multiple Applications.

FEATURES

- » Designed with proper spacing inside chamber for processing larger feed sizes.
- » HSI's are able to accept a dirtier feed condition than compression crushers while processing a high tonnage of material.
- » Increased fines production compared to compression crushers.
- » Ideal for portable plants and allows for the adding of a third curtain or grinding path.
- » Backed by an industry-leading warranty, plus a service team committed to exceeding customer expectations.



Clay and Brick Crushing



Quarried Stone



Recycle Concrete



Cubical Products



Recycled Asphalt





01/ HYDRAULIC OPENING & CLOSING

Safely and simply access internal components for inspection.

02/ MAINFRAME INSPECTION DOORS

Access the crushing chamber at additional locations including top, side and back inspection.

03/ REPLACEABLE UPPER FEED OPENING SECTION

High wear area is easily replaceable.

04/ BLOW BARS

Two or four blow bar rotor option with one or two-piece bars manufactured in a robust 4.5" (114mm) minimum manganese or chrome.

05/ FIXED BLOW BAR CLAMPING

Provides maximum clamping for best performance in hard rock applications.

06/ COMMONLY-SHAPED SIDE LINERS

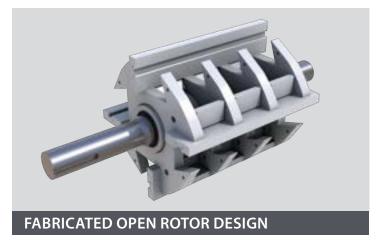
Mix and match these liners to prolong wear life and decrease cost of replacement components.

07/ OFF-THE-SHELF BEARINGS

Local sourcing speeds access to parts in emergency situations.

08/ CRUSHER LID SAFETY LOCK

Locks housing for safety during maintenance.



» Open rotor design with high inertia provides lower cost of ownership.



» Easily adjust the crusher's closed side setting (CSS).



» Increase safety during the removal or lifting of blow bars.



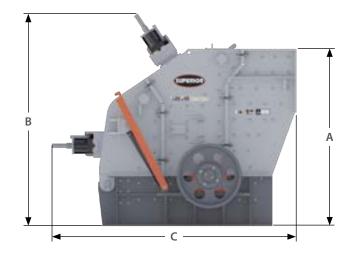
» Included with all machines, this device will improve safety.

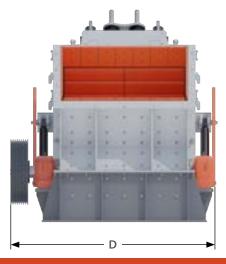


» Assists in feeding material into crusher at the correct location and angle for proper crushing.



SPECIFICATIONS





	HSI CRUSHER DIMENSIONS													
Model	,	A		В	([
	Imperial	Metric	Imperial	Metric	Imperial	Metric	Imperial	Metric						
SP 4855	100"	2,550mm	96"	2,450mm	118"	3,000mm	96"	2,450mm						
SP 5054	46"	1,169mm	69"	1,769mm	112"	2,845mm	119"	3,023mm						
SP 5565	116"	2,950mm	117"	2,980mm	212"	5,402mm	104"	2,660mm						
SP 6384	141"	3,600mm	144"	3,675mm	239"	6,075mm	157"	3,990mm						
SS 3936	88"	2,240mm	82"	2,100mm	105"	2,680mm	84"	2,150mm						
SS 4355	90"	2,290mm	84"	2,150mm	107"	107" 2,740mm		2,385mm						
SS 5165	114"	2,920mm	96"	2,450mm	132"	3,365mm	112"	2,850mm						
SS 5583	118"	3,020mm	103"	2,640mm	138"	3,510mm	148"	3,760mm						
SS 4355 G	90"	2,290mm	84"	2,150mm	107"	2,740mm	93"	2,385mm						
SS 5165 G	114"	2,920mm	96"	2,450mm	132"	3,365mm	112"	2,850mm						
SS 5583 G	118"	3,020mm	103"	2,640mm	138"	3,510mm	148"	3,760mm						
SR 3936	89"	2,280mm	84"	2,150mm	105"	2,680mm	84"	2,150mm						
SR 5165	91"	2,330mm	86"	2,190mm	107"	2,740mm	93"	2,385mm						
SR 5583	114"	2,920mm	101"	2,570mm	192"	4,885mm	112"	2,850mm						

	TYPICAL PHYSICAL PROPERTIES														
Model	Rotor Size	e (D x W)	Max Fe	ed Size	Feed Op	Feed Opening		acity	Motor	Power	Wei	ght			
	mm x mm	in x in	mm	in	mm x mm	in x in	mtph	stph	kW	hp	kg	lbs			
SP 4855	1,200 x 1,400	48" x 55"	600	23.6"	800 x 1,450	31" x 57"	250 -350	275 -385	250	350	15,000	33,076			
SP 5054	1,250 x 1,350	50" x 54"	700	27.5	880 x 1,435	34" x 56"	220 -350	220 -350	250	350	18,915	41,701			
SP 5565	1,400 x 1,650	55" x 65"	800	31.5"	1,150 x 1,570	45" x 62"	355 -500	390 -550	350	500	26,000	57,332			
SP 6384	1,600 x 2,130	63" x 84"	1000	39.4"	1,600 x 2,150	63" x 85"	700 -900	770 -990	500	650	42,000	92,613			
SS 3936	1,000 x 900	39" x 36"	400	15.7"	650 x 950	26" x 37"	80 -150	90 -165	110	150	9,500	20,948			
SS 4355	1,100 x 1,400	43" x 55"	450	17.7"	700 x 1,450	28" x 57"	150 -250	165 -275	185	250	12,500	27,563			
SS 5165	1,300 x 1,650	51" x 65"	500	19.7	750 x 1,700	30" x 67"	250 -440	275 -484	350	500	23,800	52,481			
SS 5583	1,400 x 2,100	55" x 83"	600	23.6"	850 x 2,150	33" x 85"	300 -500	330 -550	600	800	33,000	72,767			
SS 4355 G*	1,100 x 1,400	43" x 55"	450	17.7"	700 x 1,450	28" x 57"	150 -250	165 -275	185	250	13,500	29768			
SS 5165 G*	1,300 x 1,650	51" x 65"	500	19.7	750 x 1,700	30" x 67"	250 -440	275 -484	350	500	25,000	35,000			
SS 5583 G*	1,400 x 2,100	55" x 83"	600	23.6"	850 x 2,150	33" x 85"	300 -500	330 -550	600	800	55,127	77,178			
SR 3936	1,000 x 900	39" x 36"	500	19.7"	700 x 950	27" x 37"	80 -150	90 -165	110	150	10,500	23,153			
SR 4250	1,067 x 1,270	42" x 50"	500	19.7"	834 x 1,300	33" x 51"	120 -200	130 -220	185	250	12,615	27,811			
SR 5165	1,300 x 1,650	51" x 65"	800	31.5"	1200 x 1,650	48" x 65"	250 -400	275 -440	315	400	25,800	56,891			

Feed size is determined by measuring the longest one-way dimension of the material sample. Projected crusher capacities are based on a material having a work index of 12-14, with a bulk density of 100 lbs/ft³ (1.6 mt/m³). The feed grading must have less than 10% passing the crusher setting. The crusher drive assemblies are to be maintained in good working order with the ability to apply all available horsepower without drive belt slippage. Plant installation to ensure the crusher is able to operate continuously consuming the FLA rating of the motor(s) with the equipment able to accept and discharge material freely. For secondary cone crusher applications to be used in closed circuit applications consult Superior for capacity adjustments.



Pictured is a Superior SI8242 Anthem Inclined Screen mounted on a Superior custom structure and conveyor.

ANTHEM® INCLINED SCREEN

Primary or Secondary Screen For Aggregate and Mining Applications.

FEATURES

- » Wide range of applications including gravel, crushed stone, recycle and industrial minerals.
- » Custom footprints are available to fit your existing screen structure.
- » Durable screen with scalping, sizing, or finishing capabilities.
- » Spray systems and wash kit options
- » Variety of models available to accommodate specific applications.



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical products



Super Pave Products



FEATURES



01/ DECK SPACING*

Additional space between decks to for easier change out of media.

02/ INTEGRATED FEEDBOX

Modern feedbox design integrated into frame of screen with bolted wear liners and deflector plates.

03/ COIL SPRINGS

Quiet operation and smooth motion. Shown with flexible spring guards.

04/ VS2 SURGE SUPPRESSION

Ensures smooth startup and shut down of screen.

05/ PIVOT-BASE MOTOR MOUNT*

Provides the correct belt tension to ensure trouble free operation.

06/ HUCK BOLT CONSTRUCTION

Highest reliability and best holding force in vibratory application.

07/ DISCHARGE LIPS/SIDE LINERS*

Bolt-on, replaceable liners available in steel, rubber or urethane.

08/ "C" SECTION V BELT DRIVE

Single or dual shaft for application flexibility.

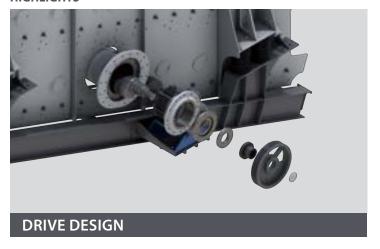
09/ INSPECTION PORTS*

Bolt-locking, hinged inspections ports.

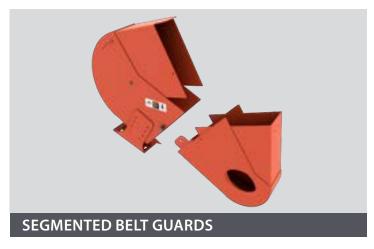
10/ DECK LINERS*

Replaceable deck protection liners extend life of the screen by protecting deck structure from wear.

*Low-maintenance features for static plant operators



» Reduced downtime via side removal of shaft assembly.



» Require only one person to remove and reinstall during maintenance.



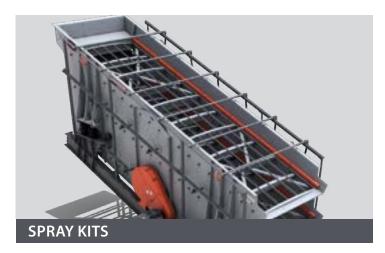
» Prevent material spillage through access holes with hinged covers that cannot easily be misplaced.



» Additional space between decks to for easier change out of media



» Modern feedbox design integrated into frame of screen with the ability to incorporate wear liners and deflector plates.

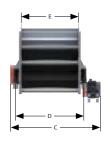


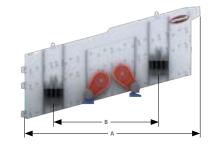
» Optional wash system kits are available.

SPECIFICATIONS

ANTHEM INCLINED SCREEN													
Model	Decks		Size	Wei	ight	Power							
Model	DCCKS	ft x ft	mm x mm	lbs	kg	hp	kW						
5142-SI	2	5 x 14	1,600 x 4,250	10,000	4,535	15	11						
5143-SI	3	5 x 14	1,600 x 4,250	12,800	5,806	20	15						
5162-SI	2	5 x 16	1,600 x 4,900	11,100	5,040	15	11						
5163-SI	3	5 x 16	1,600 x 4,900	13,500	6,150	20	15						
6162-SI	2	6 x 16	1,890 x 4,900	12,500	5,700	20	15						
6163-SI	3	6 x 16	1,890 x 4,900	15,400	6,982	30	22.5						
6202-SI	2	6 x 20	1,890 x 6,115	14,500	6,600	25	18.5						
6203-SI	3	6 x 20	1,890 x 6,115	17,600	7,977	30	22.5						
6204-SI	4	6 x 20	1,890 x 6,115	20,700	9,354	40	30						
7202-SI	2	7 x 20	2,190 x 6,050	20,000	9,100	30	22.5						
7203-SI	3	7 x 20	2,190 x 6,050	28,200	12,800	(2) 25	(2) 18.5						
8202-SI	2	8 x 20	2,500 x 6,115	23,100	10,500	(2) 20	(2) 15						
8203-SI	3	8 x 20	2,500 x 6,115	29,800	13,500	(2)25	(2) 18.5						
8204-SI	4	8 x 20	2,500 x 6,115	39,600	18,000	(2) 30	(2) 22.5						
8242-SI	2	8 x 24	2,500 x 7,320	29,200	13,250	(2) 20	(2) 15						
8243-SI	3	8 x 24	2.500 x 7.320	38,580	17,500	(2) 30	(2) 22.5						

	ANTHEM INCLINED SCREEN (SCALPING SERIES)													
Model	Decks		Size	Wei	ight	Power								
	5 00.05	ft x ft	mm x mm	lbs	kg	hp	kW							
4102-SISP	2	4 x 10	1,270 x 3,070	11,023	5,000	20	15							
5162-SISP	2	5 x 16	1,580 x 5,000	18,298	8,300	30	22							
6162-SISP	2	6 x 16	1,860 x 5,000	19,180	8,700	40	30							
6202-SISP	2	6 x 20	1,860 x 6,050	21,590	9,800	40	30							
7162-SISP	2	7 x 16	2,190 x 5,000	26,000	11,800	40	30							
7202-SISP	2	7 x 20	2,190 x 6,050	29,762	13,500	(2) 25	(2) 18.5							
8202-SISP	2	8 x 20 2,500 x 6,050		32,628	32,628 14,800		(2) 22							
8242-SISP	2	8 x 24	2,500 x 7,320	43,210	19,600	(2) 40	(2) 30							





DIMENSIONS - INCHES (MM)													
Model	J	Α	В		(2	[)	E				
Model	in	mm	in	mm	in	mm	in	mm	in	mm			
5142-SI	186.0	4,723	90.3	2,294	110.6	2,811	80.9	2,056	62.9	1,600			
5143-SI	186.0	4,723	90.3	2,294	110.6	2,811	80.9	2,056	62.9	1,600			
5162-SI	208.5	5,296	112.8	2,866	110.6	2,811	80.9	2,056	62.9	1,600			
5163-SI	208.5	5,296	112.8	2,866	110.6	2,811	80.9	2,056	62.9	1,600			
6162-SI	208.5	5,296	112.8	2,866	124.1	3,152	92.5	2,350	74.4	1,890			
6163-SI	208.5	5,296	112.8	2,866	124.1	3,152	92.5	2,350	74.4	1,890			
6202-SI	253.2	6,431	157.9	4,012	124.1	3,152	92.5	2,350	74.4	1,890			
6203-SI	253.2	6,431	157.9	4,012	124.1	3,152	92.5	2,350	74.4	1,890			
6204-SI	253.2	6,431	157.9	4,012	124.1	3,152	92.5	2,350	74.4	1,890			
7202-SI	253.2	6,431	157.9	4,012	137.3	3,488	104.5	2,656	86.0	2,190			
7203-SI	253.2	6,431	157.9	4,012	137.3	3,488	104.5	2,656	86.0	2,190			
8202-SI	255.0	6,482	157.9	4,012	149.6	3,800	116.5	2,960	98.4	2,500			
8203-SI	255.0	6,482	157.9	4,012	149.6	3,800	116.5	2,960	98.4	2,500			
8204-SI	253.0	6,431	167.7	4,260	149.6	3,800	116.5	2,960	98.4	2,500			
8242-SI	298.4	7,580	180.3	4,580	153.5	3,900	116.5	2,960	98.4	2,500			
8243-SI	298.4	7,580	180.3	4,580	153.5	3,900	116.5	2,960	98.4	2,500			
4102-SISP	139.0	3,531	83.8	2,129	96.0	2,438	67.0	1,702	50.0	1,270			
5162-SISP	206.6	5,250	127.9	3,250	112.2	2,850	80.7	2,050	62.2	1,580			
6162-SISP	206.6	5,250	127.9	3,250	125.1	3,180	92.5	2,350	74.8	1,900			
6202-SISP	248.0	6,300	163.7	4,160	125.1	3,180	92.5	2,350	74.8	1,900			
7162-SISP	206.6	5,250	127.9	3,250	138.5	3,520	104.7	2,660	86.2	2,190			
7202-SISP	248.0	6,300	163.7	4,160	138.5	3,520	104.7	2,660	86.2	2,190			
8202-SISP	248.0	6,300	163.7	4,160	155.9	3,960	117.0	2,972	98.5	2,502			
8242-SISP	286.2	7,270	180.5	4,586	155.9	3,960	117.0	2,972	98.5	2,502			



GUARDIAN® HORIZONTAL SCREEN

Accurate Sizing and Separation for Construction Aggregates and Mining

FEATURES

- » Heavy-duty construction handles 10" (254mm) feed size and up to 4" (102mm) openings*
- » Handles coarse and fine screening with adjustable oval stroke motion
- » Side tension single crown decks
- » Wet or dry screening configurations
- » Various deck options are available including scalping, flat urethane/rubber, and end tension styles*



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical products



Super Pave Products



^{*}Medium Scalper option increases feed size to 14". This option includes 6" side liner/extensions and thicker feedbox and top discharge lip liners.



01/ BOLT LOCKING HINGED ACCESS DOORS

Convenient for inspection and maintenance. Hinge prevents misplacement.

02/ VS2™ TECHNOLOGY

Low maintenance design ensures smooth startup and shutdown of screen.

03/ BOTTLE JACK LIFT POINTS

No cranes or loaders needed for safer spring maintenance or replacement.

04/ COIL OR RUBBER SPRING SUSPENSION

Quiet operation and smooth motion for cold weather applications. (Shown with rubber spring option.)

05/ BRANDED BEARINGS

Maximum bearing performance. (not shown)

06/ HUCK BOLT FASTENERS

Assure high reliability and fatigue resistant performance.

07/ SEALED CONSTRUCTION

Integrated Huck® o-ring, shaft tube o-ring, and HGI sealants unique to the Guardian Horizontal Screen.

08/ DISCHARGE LIPS/SIDE LINERS

Bolt-on components available with replaceable steel, rubber or urethane liners.

09/ SEGMENTED BELT GUARD

Quick access to sheave and flywheel without completely removing guard. One-person job.

10/ TORSION ARM TENSIONER

Conveniently integrated and easy access for drive belt tensioning.

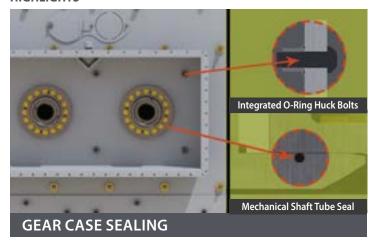
11/ OPTIONAL SPRAY BAR KIT

Add-on spray kit available for easy conversion to a wash system.

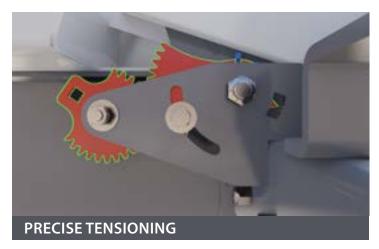


NEW 4-DECK SCREEN

- » One screen does the work of two 2-deck screens
- » Reduce circuit size and footprint
- » Higher capacity of fines through bottom deck when using third deck as load relief
- » Five product split (4 products and 1 oversize)
- » No need to split bottom deck in washing applications
- » Dedicate third and fourth decks to making two sand products



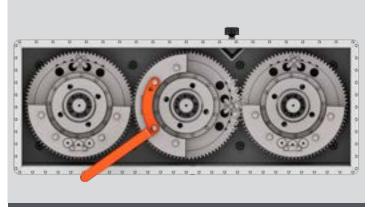
- » Best-in-class industrial sealant
- » Protects bearings and gears from water
- » Eliminates potential for oil leaks



- » Patented tension adjuster with visual indicator
- » Eliminates manual measurements
- » Ensures perfect tensioning every time



- » Allows for smooth startup and shut-down
- » Extends life of machine and components
- » Low maintenance

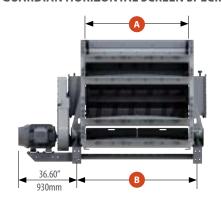


ADJUSTABLE STROKE TIMING

- » 30° 60° off vertical
- » 5° increments
- » Factory set to 45°



GUARDIAN HORIZONTAL SCREEN SPECIFICATIONS





							DIMEN	SIONS	- INCH	ES (MI	۸)							
Model	F	Ą	E	3	(-	[)		E	F	=	(G	ŀ	1		I
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
5162-TH32	61.50	1,562	74.00	1,879	192.75	4,895	59.44	1,509	5.81	147	35.81	909	N/A	N/A	N/A	N/A	47.25	1,200
5163-TH32	61.50	1,562	74.00	1,879	192.75	4,895	75.31	1,912	5.69	144	35.69	906	51.69	1,312	N/A	N/A	63.13	1,603
6162-TH32	76.00	1,930	88.50	2,247	240.75	6,115	59.50	1,511	5.81	147	35.81	909	N/A	N/A	N/A	N/A	47.31	1,201
6163-TH32	76.00	1,930	88.50	2,247	240.75	6,115	75.31	1,912	5.69	144	35.69	906	51.69	1,312	N/A	N/A	63.13	1,603
6202-TH32	76.00	1,930	88.50	2,247	240.75	6,115	59.38	1,508	5.75	146	35.75	908	N/A	N/A	N/A	N/A	47.19	1,198
6203-TH32	76.00	1,930	88.50	2,247	240.75	6,115	75.19	1,909	5.56	141	35.56	903	51.69	1,312	N/A	N/A	63.00	1,600
6204-TH38	76.00	1,930	88.50	2,247	240.75	6,115	90.44	2,297	4.44	113	20.44	519	50.81	1,291	36.63	930	80.25	2,038
7202-TH38	88.00	2,235	100.50	2,552	240.75	6,115	62.19	1,579	5.56	141	38.56	979	N/A	N/A	N/A	930	50.00	1,270
7203-TH38	88.00	2,235	100.50	2,552	240.75	6,115	80.81	2,052	5.44	138	38.44	976	57.19	1,452	N/A	930	68.63	1,743
8202-TH38	100.00	2,540	112.50	2,857	240.75	6,115	62.13	1,578	5.50	139	38.50	977	N/A	N/A	N/A	930	49.94	1,268
8203-TH38	100.00	2,540	112.50	2,857	240.75	6,115	80.69	2,049	5.31	134	38.31	973	57.06	1,449	N/A	930	68.50	1,739
8204-TH40	100.00	2,540	112.50	2,857	240.75	6,115	99.68	2,532	7.63	194	26.38	670	59.38	1,508	78.13	1,985	89.38	2,270

TYPICAL PHYSICAL PROPERTIES													
Model	Decks		Size		Weight (w/base & mtr)								
Model	Decks	ft x ft	mm x mm	lbs	kg	hp	kW						
5162-TH32	2	5 x16	1,562 x 4,900	16,750	7,614	25	18.6						
5163-TH32	3	5 x16	1,562 x 4,900	18,750	8,523	30	22.3						
6162-TH32	2	6 x16	1,930 x 4,900	17,200	7,818	40	29.8						
6163-TH32	3	6 x16	1,930 x 4,900	20,500	9,318	40	29.8						
6202-TH32*	2	6 x 20	1,930 x 6,115	19,250	8,750	40	29.8						
6203-TH32*	3	6 x 20	1,930 x 6,115	23,500	10,682	40	29.8						
6204-TH38	4	6 x 20	1,930 x 6,115	28,500	12,955	50	37.2						
7202-TH38*	2	7 x 20	2,235 x 6,115	24,000	10,909	50	37.2						
7203-TH38	3	7 x 20	2,235 x 6,115	29,400	13,363	50	37.2						
8202-TH38	2	8 x 20	2,540 x 6,115	25,500	11,591	50	37.2						
8203-TH38*	3	8 x 20	2,540 x 6,115	31,500	14,318	50	37.2						
8204-TH40	4	8 x 20	2,540 x 6,115	39,750	18,068	60	44.7						

^{*} TS (triple-shaft) 2.5 degree slope option **14" (355mm) with medium scalper top deck option

FOR ALL MODELS

» Max Feed Size: 10" (254mm)**

» Speed: 730 - 835 RPM

» Stroke: 0.5 - .75" (12.5 - 20mm)

INTREPID VIBRATING GRIZZLY FEEDER

Remove Unwanted Fines While Providing a Continuous Feed to Plant

FEATURES

- » Rugged design features like greater I-beam support, precision shafts and Huck fasteners.
- » Unique bottle jack lifting points allow for safer spring maintenance.
- » Adjustable slope and stroke to increase application flexibility and performance.
- » Patent-pending designs manufactured in widths to feed up to 1,400 stph (1,540 mtph)



Ore/Hard Rock Mining



Quarried Stone



River Gravel



Recycle Concrete



Fractured Gravel



Cubical products



Super Pave Products





» Universal bolt-in bars are for flat or 5° applications, so owners and operators can limit stock to one style.



» Designed into the spring section to improve safety during maintenance or repair. No cranes or loaders needed.



» Provides best-in-class shaft strength and better bearing fit up. Easily access from side of feeder.



O leave of leave City I have Consultance of the

» 0 degree or 5 degree Grizzly bars, finger tines and punch plate.

SPECIFICATIONS

	INTREPID VGF													
Model	Grizzly Decks	Grizzly Length	Size		We (Sta	Weight Operating (Static) Speed		g Required Power		Max Feed Size		Capacity		
		ft	mm x mm	in x ft	kg	lbs	rpm	kw	hp	mm	in	mtph	stph	
3617VGF	1	5′	920 x 5,180	36" x 17'	4,535	10,000	600-800	15	20	500	20"	200-300	220-330	
4012VGF	1	4'	1,040 x 3,660	40" x 12'	3,550	7,826	600-800	15	20	600	24"	320-420	360-470	
4016VGF	1	6'	1,040 x 4,875	40" x 16'	4,850	10,692	600-800	18.8	25	600	24"	320-420	360-470	
4220VGF	1 or 2	5'	1,067 x 6,090	42" x 20'	5,218	11,500	600-800	18.8	25	600	24"	320-420	360-470	
4820VGF	1 or 2	5'	1,219 x 6,090	48" x 20'	6,120	12,765	600-800	22.5	30	700	28"	450-570	500-635	
4824VGF	1 or 2	5'	1,219 x 7,320	48" x 24'	9,520	21,000	600-800	30	40	700	28"	450-570	500-635	
5420VGF	1 or 2	5'	1,372 x 6,090	54" x 20'	7,725	17,025	600-800	30	40	800	32"	535-685	595-760	
5424VGF	1 or 2	5'	1,372 x 7,320	54" x 24'	9,700	21,500	600-800	37.5	50	800	32"	535-685	595-760	
6020VGF	1 or 2	5′	1,534 x 6,090	60" x 20'	8,500	18,739	600-800	37.5	50	900	36"	615-765	685-850	
6024VGF	1 or 2	5'	1,534 x 7,320	60" x 24'	11,300	23,500	600-800	37.5	50	900	36"	615-765	685-850	
6620VGF	1 or 2	5′	1,670 x 6,090	66" x 20'	10,100	22,266	600-800	45	60	1,100	44"	750-900	830-1020	
6624VGF	1 or 2	5′	1,670 x 7,320	66" x 24'	11,150	24,581	600-800	45	60	1,100	44"	750-900	830-1020	
7220VGF	1 or 2	5′	1,830 x 6,090	72" x 20'	11,750	25,904	600-800	56.3	75	1,300	50"	880-1020	980-1130	
7224VGF	1 or 2	5′	1,830 x 7,320	72" x 24'	14,000	30,864	600-800	75	100	1,300	50"	880-1020	980-1130	

Specifications are subject to change without notice. Consult Superior to confirm your application.



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