



PRODUCT GUIDE



VANGUARD
MINING



OUR VISION

We are the preferred designer and supplier of your bespoke comminution equipment. We are trusted and recognised for our excellent client focus and product support.



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ABOUT US

At Vanguard Mining, we specialise in mineral processing and tailored engineering solutions. By partnering with AMPCO Minerals, we bring cutting-edge technology and industry-leading expertise to the Australian mining sector. As AMPCO's official distributor, we integrate globally proven mineral processing technologies with strong local support, delivering end-to-end solutions that drive operational efficiency and long-term success.

AMPCO Minerals, with its ISO-certified manufacturing facility spanning over 20,000 m², provides advanced equipment designed for modern mineral processing demands. Our state-of-the-art machining, fabrication, and testing capabilities, along with a well-stocked spare parts warehouse, ensure short lead times and seamless service continuity. Our commitment to innovation, backed by dedicated research, design, and service teams, ensures world-class solutions tailored to mining operations worldwide.

Together, Vanguard Mining and AMPCO Minerals deliver high-performance crushing and mineral processing solutions. We support projects from design and manufacturing to installation, commissioning, circuit optimisation, and ongoing maintenance. This partnership ensures Australian mining operations benefit from internationally recognised technology with the reliability of local expertise.



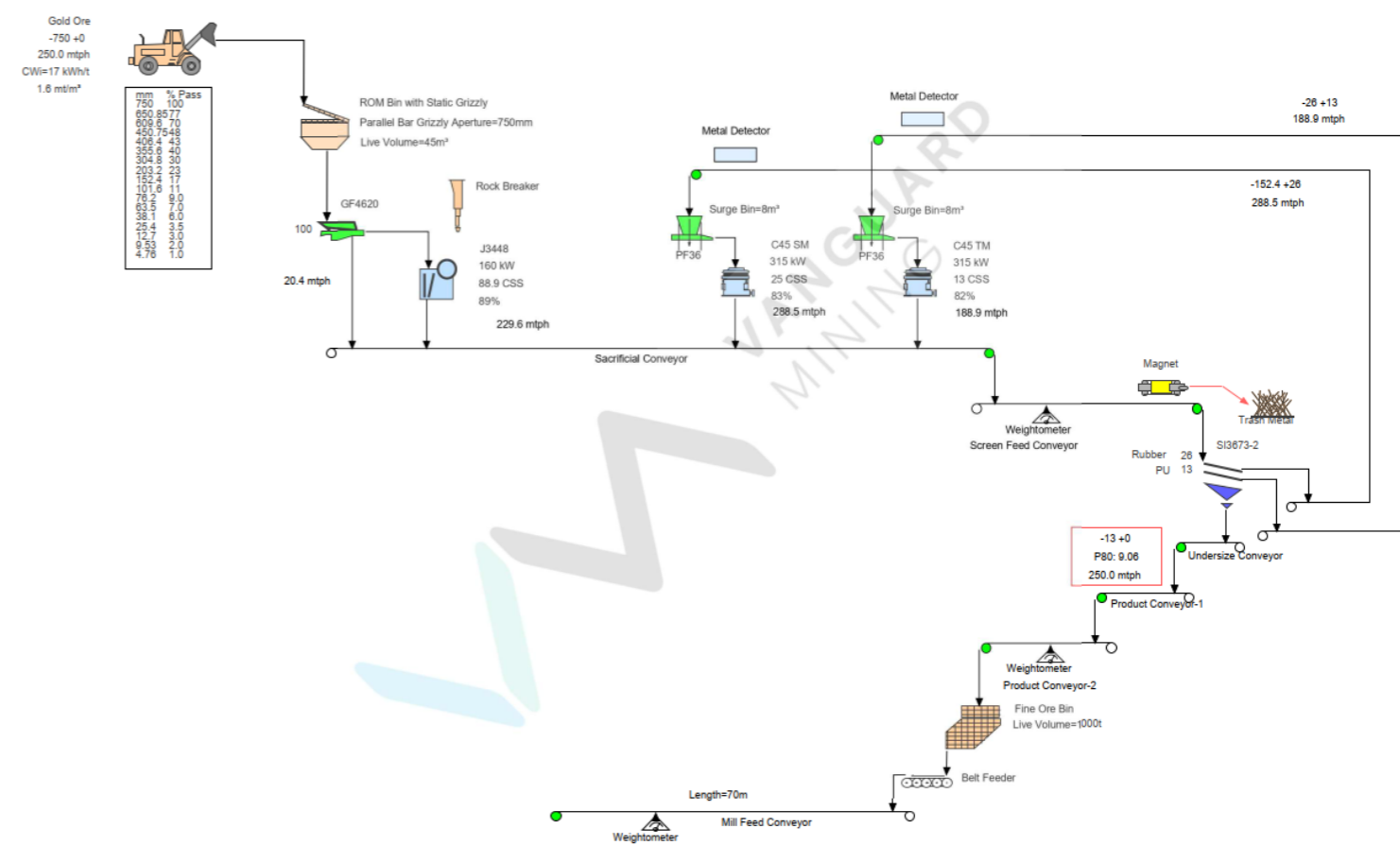
PLANT DESIGN AND APPLICATIONS

At Vanguard Mining, we support our clients from initial concept to full-scale production with industry-leading expertise in application, design and manufacturing.

What sets us apart is our collaborative approach—working closely with our clients to develop tailored solutions that maximise efficiency and performance.

Our in-house experts and innovative engineers create detailed flowsheets and layout drawings, ensuring optimal circuit design and seamless integration into your operations.

With a focus on precision, reliability and long-term success, Vanguard Mining delivers end-to-end solutions that drive results.





FEEDING EQUIPMENT

AF SERIES APRON FEEDERS

Apron Feeders are designed to move stockpiled materials to the next processing activity in a controlled manner. The durable pans absorb the shock of dumping heavy materials, and their design prevents material from leaking out of the feeder. These feeders have a large conveying capacity, handle highly viscous materials and heavy loads, and feature maintenance-free track and carrier rollers. They have a variable-frequency drive motor control for a smooth and controlled material transfer rate. The tractor-drive components are common to proven earthmoving equipment.

Maximum Feed Size:

- 1,100 mm
- 43 inches

Centre to Centre:

- 4 – 20 m
- 13 –65 ft

Capacity:

- 450 – 2,700 mtph
- 496 – 2,976 stph




Technical Parameter Table

Model	Width		Centre to Centre		Max Feed Size		Capacity	
	mm	inch	m	ft	mm	inch	mtph	stph
AF10	1,000	39	4 – 20	13 – 65	400	16	450	496
AF12	1,200	47	6 – 18	19 – 59	500	20	600	661
AF15	1,500	59	6 – 18	19 – 59	650	26	1,000	1,102
AF18	1,800	71	6 – 18	19 – 59	800	31	1,500	1,163
AF20	2,007	79	6 – 18	19 – 59	900	35	1,850	2,039
AF22	2,200	87	6 – 18	19 – 59	1,000	43	2,100	2,300
AF24	2,400	95	8 – 16	26 – 53	1,100	43	2,700	2,976

GF SERIES GRIZZLY FEEDERS

The GF Series Grizzly Feeder is designed to feed primary crushers. Operators can adjust the material feeding speed to maintain the optimal feed rate for the primary crusher’s consistent and efficient operation. The vibrating feeder has grizzly bars to screen the material and prevent smaller particles from being fed to the crusher, with customisable bar gaps typically between 70mm and 160 mm. Depending on the application, the grizzly feeder can be customised with finger tines, fabricated grizzly bars, or a lined pan section.



Maximum Feed Size:

- 1,300 mm
- 51 inches

Motor Power:

- 15 – 75 kW
- 20 – 100 hp

Capacity:

- 450 – 1,250 mtph
- 500 – 1,378 stph

Technical Parameter Table

Model	Deck	Width x Length		Max Feed Size		Motor Power		Capacity	
		mm x mm	inch x ft	mm	inch	kW	hp	mtph	stph
GF4012	1	1,000 x 3,660	40" x 12'	600	24	15	20	450	500
GF4016	1	1,000 x 4,875	40" x 16'	600	24	18.5	25	500	550
GF4616	1 or 2	1,124 x 4,875	46" x 16'	700	28	18.5	25	550	605
GF4620	1	1,124 x 6,070	46" x 20'	700	28	22	30	550	605
GF5217	1 or 2	1,300 x 5,220	52" x 17'	800	31	30	40	620	683
GF5220	1 or 2	1,300 x 6,070	52" x 20'	800	31	30	40	620	683
GF5224	1 or 2	1,300 x 7,320	52" x 24'	800	31	37	50	620	683
GF5820	1 or 2	1,470 x 6,070	58" x 20'	900	35	37	50	700	770
GF5824	1 or 2	1,470 x 7,320	58" x 24'	900	35	45	60	700	770
GF6420	1 or 2	1,630 x 6,070	64" x 20'	1,100	43	45	60	820	904
GF6424	1 or 2	1,630 x 7,320	64" x 24'	1,100	43	45	60	820	904
GF7220	1 or 2	1,830 x 6,070	72" x 20'	1,300	51	55	75	1,250	1,378
GF7224	1 or 2	1,830 x 7,320	72" x 24'	1,300	51	75	100	1,250	1,378

PF SERIES VIBRATING PAN FEEDERS

Pan feeders are versatile and can evenly, continuously, and in large quantities feed large or granular materials to downstream equipment. The PF Series Pan Feeders are compact, reliable, easy to maintain, and operate with minimal noise and power consumption. When used in conjunction with a frequency inverter, they offer an adjustable exciting force to control and alter the material flow rate. They are available in various configurations, including floor-mounted, suspended, and conical discharge pan feeders, to meet the needs of any operation.



Floor Mounted Pan Feeder



Suspended Pan Feeder

Maximum Feed Size:

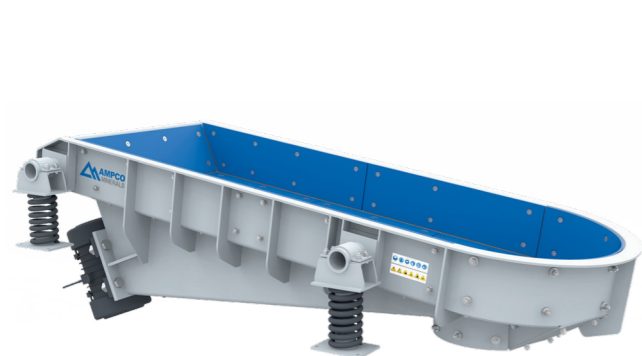
- 500 mm
- 20 inches

Size:

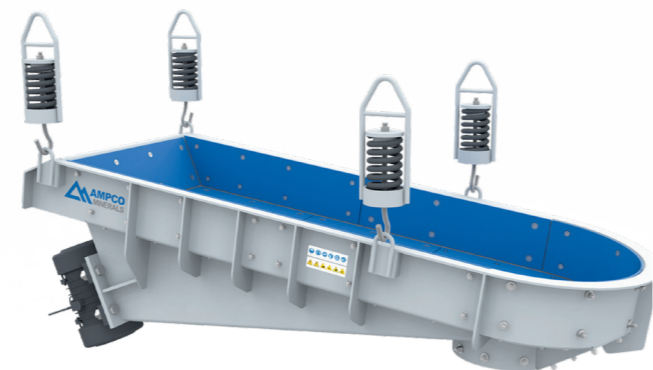
- Up to 2,400 x 5,150 mm
- Up to 94 x 203 inches

Capacity:

- 240 – 960 mtph
- 265 – 1,058 stph



Floor Mounted Pan Feeder with Conical Discharge



Suspended Pan Feeder with Conical Discharge

Technical Parameter Table

Model	Width x Length		Max Feed Size		Motor Power		Capacity	
	mm x mm	inch x inch	mm	inch	kW	hp	mtph	stph
PF304	760 x 1,220	30 x 48	200	8	2 x 1.1	2 x 1.5	240	265
PF305	760 x 1,525	30 x 59	200	8	2 x 1.1	2 x 1.5	240	265
PF365	915 x 1,525	36 x 59	300	12	2 x 1.5	2 x 2	360	397
PF366	915 x 1,820	36 x 72	300	12	2 x 1.5	2 x 2	360	397
PF426	1,070 x 1,820	42 x 72	330	13	2 x 2.2	2 x 3	420	463
PF486	1,220 x 1,820	48 x 72	350	14	2 x 3	2 x 4	480	529
PF606	1,525 x 1,820	59 x 71	400	16	2 x 3.7	2 x 5	600	661
PF726	1,820 x 1,830	72 x 72	400	16	2 x 4.5	2 x 5	720	794
PF7210	1,820 x 3,000	72 x 118	500	20	2 x 5.5	2 x 6	800	882
PF9617	2,400 x 5,150	94 x 203	400	16	2 x 7.5	2 x 8	960	1,058

BELT FEEDERS

Belt Feeders are versatile and efficient alternatives to apron feeders, especially when the rock size is primary crushed or smaller. Equipped with a conveyor belt, hopper, and idlers based on the application and feed size, they offer a customised solution tailored to specific needs. Contact Vanguard Mining for a bespoke belt feeder solution designed for unique applications.





ROCK BREAKERS

PEDESTAL ROCK BREAKERS

Pedestal Rock Breakers used in primary crusher applications can be subjected to heavy loads, often beyond anticipated design capacities. For this reason, Vanguard sources and supplies only the toughest Rock Breaker equipment, industry-proven in underground mining and primary crushing applications around the globe. Vanguard Rock Breakers are custom-designed in close partnership with suppliers for improved reliability and longevity to exacting specifications and strict quality control requirements. Vanguard supplies Rock Breakers as part of complete plant solutions or as individual stand-alone equipment. Our rock breakers continue to provide customers with confidence at every use, clearing oversize material and costly blockages quickly and effectively.



Pedestal Rock Breaker

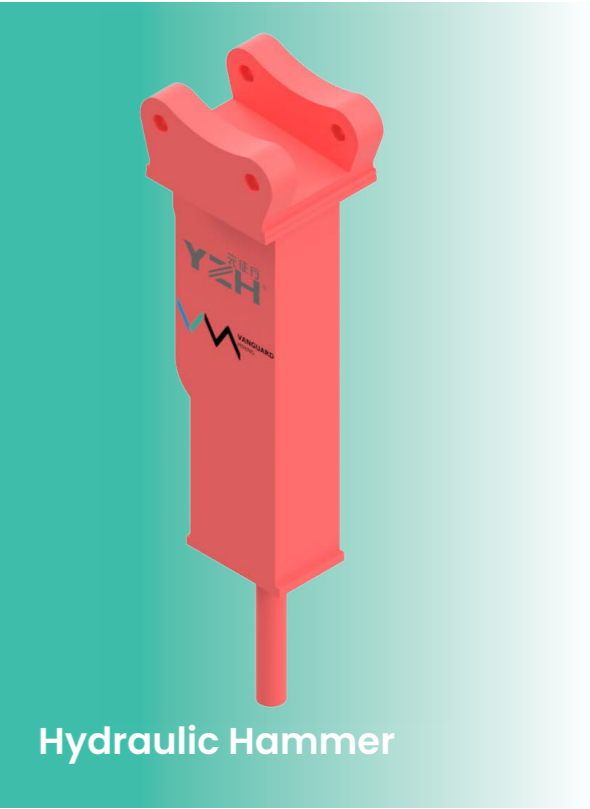
Technical Parameter Table

Model	Boom Weight (without Hammer)	Max Horizontal Working Radius	Max Vertical Working Radius	Min Vertical Working Radius	Max Height	Max Depth
	kg	mm	mm	mm	mm	mm
BB350	3,168	6,000	3,950	1,860	6,000	4,070
BB430	3,416	6,770	4,710	1,640	3,540	4,710
WHB710	3,248	9,000	7,150	2,440	6,000	6,740

HYDRAULIC HAMMER

Vanguard Mining offers a full range of hydraulic hammers that complement pedestal boom systems. The power-to-weight ratio of our hydraulic hammers provides superior efficiency and performance.

Designed for improved hydraulic efficiency and safety, these powerful, reliable, and durable hydraulic hammers will significantly increase the productivity of any work.



Hydraulic Hammer

Technical Parameter Table

Model	Weight	Carry Device Weight (t)		Impact Energy (joules)	Total Length (LxWxH)	Tool Diameter	Oil Flow (L/min)		Operating Pressure (bar)		Blow Frequency
	kg	min	max	mm	mm	mm	min	max	min	max	bpm
YZH1000	1,007	10	15	2,700	2,345x440x570	100	80	110	150	170	350 - 700
YZH1250	1,371	15	18	4,100	2,578x498x625	125	90	120	150	170	350 - 650



Pedestal Rock Breaker
with Hydraulic Hammer

A large industrial crushing plant is shown under a clear blue sky. The plant features a tall, multi-story concrete structure with a grid-like facade. Below this, there are several levels of machinery, including large yellow cylindrical components and complex metal frameworks. Yellow safety railings and stairs are visible throughout the equipment. In the foreground, there are blue oil drums and electrical control boxes. The ground appears wet, possibly from recent rain or cleaning.

CRUSHING EQUIPMENT

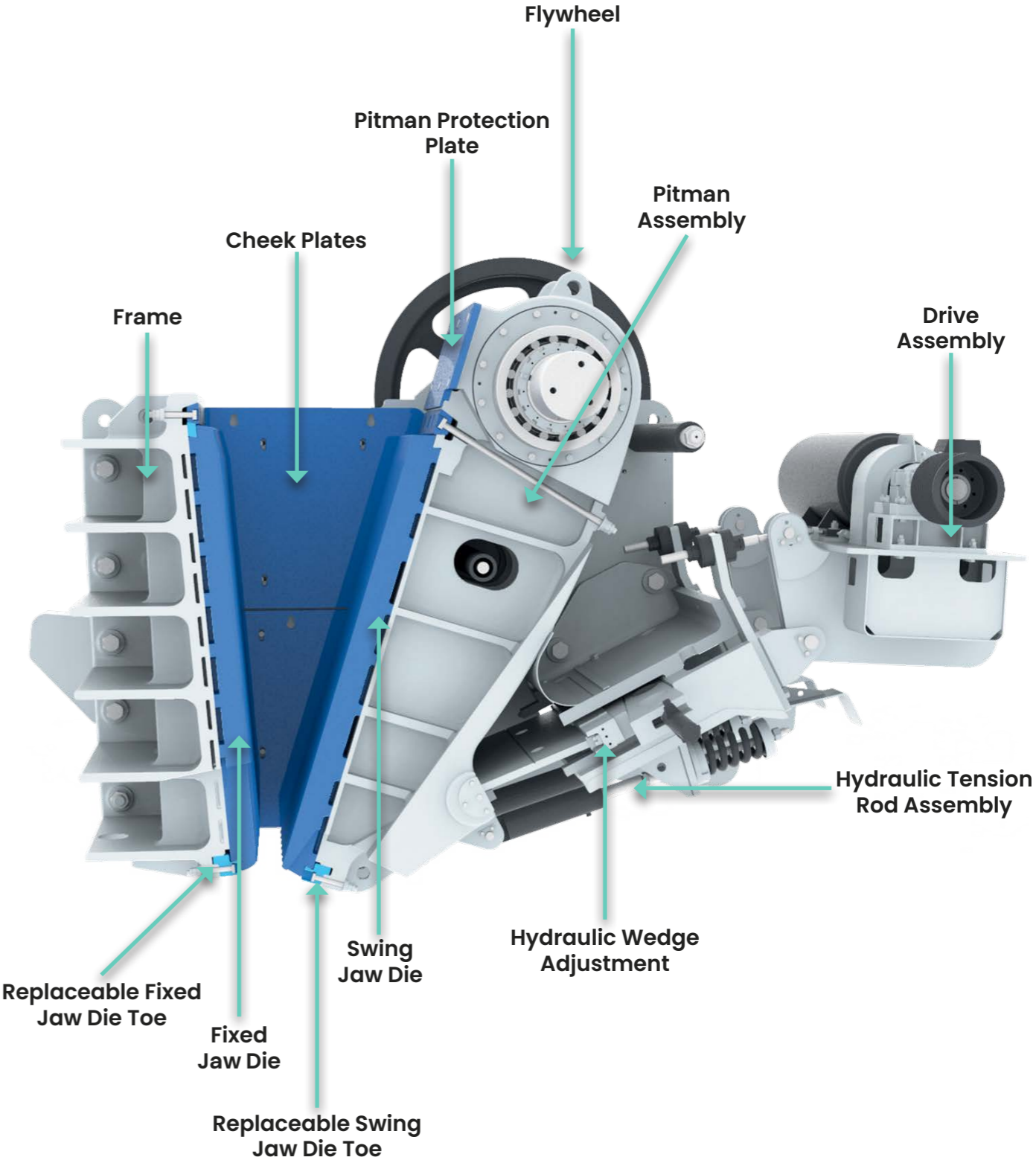
J SERIES JAW CRUSHERS

The J Series Jaw Crushers are durable and efficient, providing high productivity for operations. Their aggressive design, featuring a low-positioned, short toggle combined with a deep cavity and optimised nip angle, results in large throughputs at a high reduction ratio. The symmetrical chamber also minimises slippage, reducing jaw plate wear.



Technical Parameter Table

Model	Feed Opening		Max Feed Size		Motor Power		Capacity	
	mm x mm	inch x inch	mm	inch	kW	hp	mtph	stph
J35	500 x 900	20 x 35	400	16	55	75	100 - 280	110 - 308
J40	600 x 900	24 x 36	500	20	75	100	130 - 360	121 - 396
J45	760 x 1,100	30 x 43	650	26	110	150	220 - 600	198 - 683
J50	1,000 x 1,300	30 x 43	800	31	160	200	300- 850	298 - 937
J55	1,100 x 1,400	43 x 55	900	35	200	300	410 - 1,000	375 - 1,047
J65	1,200 x 1,600	47 x 63	1,000	39	250	350	550 - 1,100	606 - 1,212
J80	1,500 x 2,000	59 x 79	1,250	49	400	550	720 - 1,600	661 - 1,653
J3055	760 x 1,375	30 x 54	610	24	160	200	240 - 680	264 - 750
J3355	820 x 1,400	32 x 55	700	28	160	200	320 - 750	353 - 827
J3448	860 x 1,200	34 x 47	700	28	160	200	180 - 540	187 - 595



C & CM SERIES CONE CRUSHERS

The C & CM Series Cone Crushers are designed with a high pivot point and a large eccentric throw, leading to greater feed intake capacity and increased production. These crushers have high-grade alloy steel main frames, high load-bearing bronze bushes, and advanced hydraulic controls, resulting in a reliable machine that is safe and easy to operate and maintain.

C Series Specifications

Maximum Feed Size:

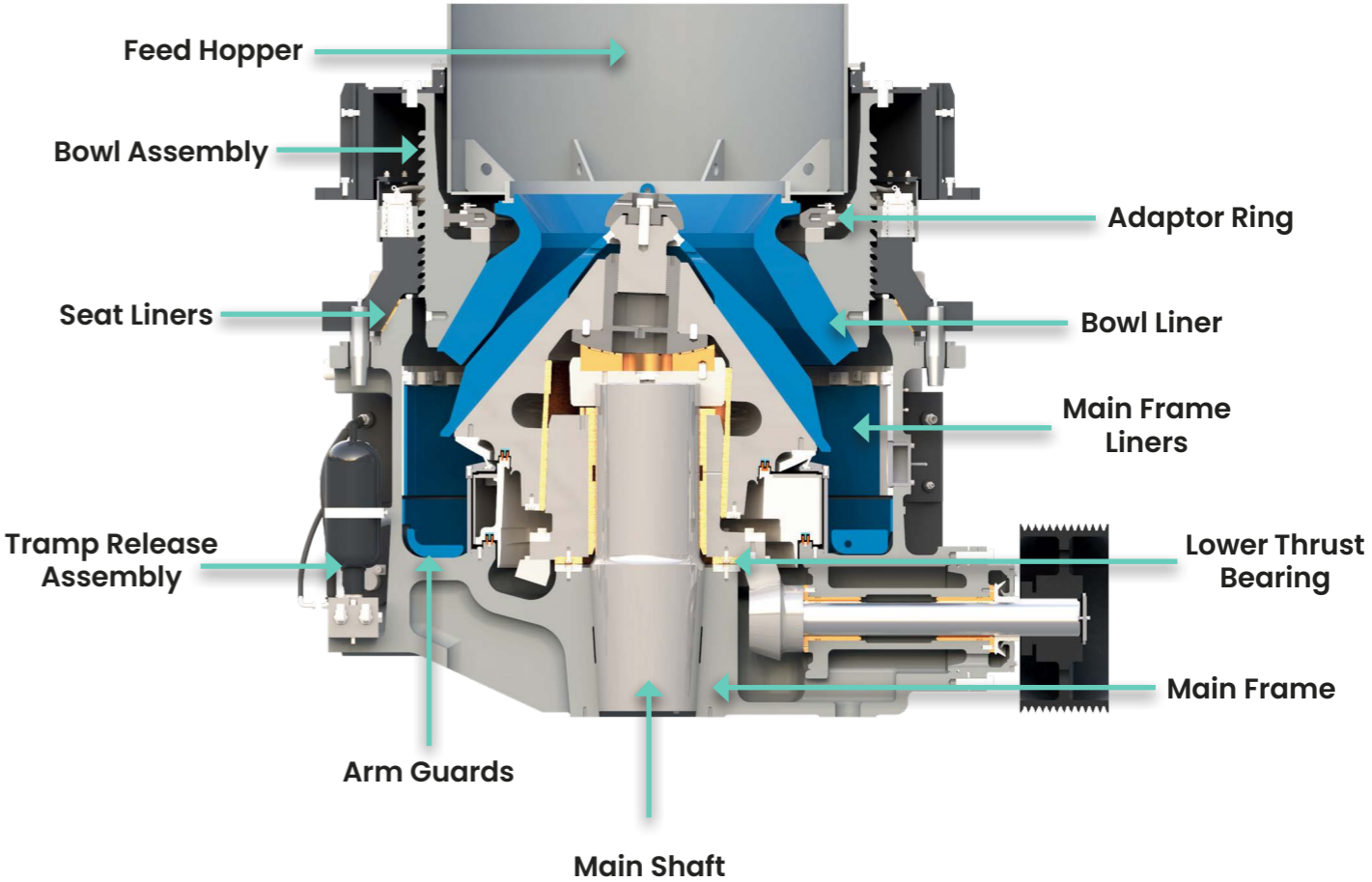
- 360 mm
- 14 inches

Capacity:

- 85 – 1,500 mtph
- 94 – 1,654 stph

Motor Power:

- 132 – 710 kW
- 150 – 950 hp



CM Series Specifications

Maximum Feed Size:

- 365 mm
- 14 inches

Capacity:

- 400 – 3,000 mtph
- 441 – 3,307 stph

Motor Power:

- 550 – 1,000 kW
- 750 – 1,350 hp

Technical Parameter Table

Model	Head Diameter		Max Feed Size		Motor Power		Capacity	
	mm	inch	mm	inch	kW	hp	mtph	stph
C35	889	35	170	7	132 – 160	150 – 200	85 – 300	94 – 138
C40	1,016	40	210	8	220 – 250	300 – 350	100 – 450	110 – 496
C45	1,143	45	235	9	315	450	150 – 600	165 – 661
C50	1,270	50	280	11	355 – 400	450 – 500	180 – 650	198 – 717
C55	1,445	57	300	12	450	600	220 – 850	243 – 937
C65	1,651	65	305	12	500 – 550	700 – 750	310 – 1,000	342 – 1102
C75	1,850	73	360	14	710	950	375 – 1,500	415 – 1,654
CM75	1,905	75	330	13	550 – 630	750 – 850	400 – 1,500	441 – 1,653
CM80	2,083	82	335	13	630 – 710	850 – 950	510 – 2,300	562 – 2,535
CM90	2,337	92	365	14	750 – 1,000	1,100 – 1,350	650 – 3,000	562 – 2,535

V SERIES VERTICAL SHAFT IMPACT CRUSHERS

The V Series Vertical Shaft Impact Crusher can process highly abrasive materials and produce aggregates and manufactured sand in a cubical shape. The hydraulic lifting cylinder enables access to internal parts, reducing downtime for inspection and maintenance. The crushing chamber can quickly be changed from rock-on-rock (ROR), rock-on-steel (ROS), or steel-on-steel chambers (SOS), depending on the application, providing flexibility at variable speeds. The feed chute has an air transfer system to help reduce dust emissions, and an optional water-spraying system can be added to maintain a clean chamber when processing sticky materials.

Maximum Feed Size:

- 100 mm
- 4 inches

Capacity:

- 70 – 500 mtph
- 77 – 550 stph

Motor Power:

- 160 – 800 kW
- 200 – 550 hp



Technical Parameter Table

Model	Chamber	Maximum Feed Size		Motor Power		Capacity	
		mm	inch	kW	hp	mtph	stph
V70	ROS	30	1	160 – 220	200 – 300	70 – 180	77 – 198
	ROR	30	1	160 – 220	200 – 300	70 – 180	77 – 198
V90	SOS	90	4	200 – 320	300 – 450	150 – 300	165 – 330
	ROS	50	2	160 – 320	200 – 450	200 – 400	220 – 440
	ROR	50	2	160 – 320	200 – 300	200 – 400	220 – 440
V100	SOS	100	4	500 – 630	650 – 850	200 – 500	220 – 550
	ROS	50	2	315 – 630	400 – 850	250 – 500	275 – 550
	ROR	50	2	315 – 630	400 – 850	250 – 500	275 – 550
V110	SOS	100	4	500 – 800	650 – 1,150	300 – 500	330 – 550
	ROS	50	2	400 – 700	500 – 900	350 – 500	385 – 550
	ROR	50	2	400 – 700	500 – 900	350 – 500	385 – 550

Chamber Configurations:
ROR – Enclosed rotor and rock shelf
ROS – Enclosed rotor and anvil ring
SOS – Open table rotor and anvil ring

HORIZONTAL SHAFT CRUSHERS

The Horizontal Shaft Impact Crushers are designed to achieve significant reduction ratios while economically processing at high tonnage rates. They are suitable for several crushing applications, from hard rock to recycled concrete, and offer various solutions to meet crushing needs. The crusher features blow bars that are easy to install and have a reliable locking mechanism for safe maintenance.

Maximum Feed Size:

- 1,000 mm
- 39 inches

Capacity:

- 80 – 900 mtph
- 90 – 990 stph

Motor Power:

- 90 – 700 kW
- 150 – 950 hp



Technical Parameter Table

Model	Rotor Size (D x W)		Max Feed Size		Motor Power		Capacity	
	mm	inch	mm	inch	kW	hp	mtph	stph
HP55	1,300 x 1,400	51 x 55	600	24	160 – 250	200 – 350	250 – 350	275 – 385
HP65	1,400 x 1,650	55 x 65	800	31	315 – 350	400 – 500	355 – 500	390 – 550
HP85	1,600 x 2,150	63 x 85	1,000	39	500 – 700	700 – 950	700 – 900	700 – 900
HP35	1,000 x 900	39 x 35	400	16	90 – 110	120 – 150	80 – 150	90 – 165
HS55 HSM55	1,100 x 1,400	43 x 55	450	18	132 – 185	150 – 250	150 – 250	165 – 275
HS65 HSM85	1,300 x 1,650	51 x 65	500	20	225 – 350	300 – 500	250 – 440	275 – 485
HS85 HSM85	1,400 x 2,100	55 x 83	600	24	400 – 560	550 – 750	300 – 500	330 – 550
HR35	1,000 x 900	39 x 35	500	20	90 – 110	120 – 150	80 – 150	90 – 165
HR55	1,200 x 1,400	43 x 55	700	28	185 – 250	250 – 350	150 – 200	165 – 220

Crusher Types:
HP – Primary Crushing HS – Secondary Crushing
HR – Recycling Crushing
HSM – Equipped with a third curtain for finer crushing
SOS – Open table rotor and anvil ring

A large industrial screening machine, likely a vibratory feeder or screen, is shown in a mining or quarry setting. The machine is constructed from dark grey metal with prominent yellow safety railings and walkways. It features a long, inclined conveyor system that extends into the distance. The background shows a clear blue sky with scattered white clouds, and other industrial structures and equipment are visible in the far background. The overall scene conveys a sense of heavy industrial operations.

SCREENING EQUIPMENT

SHBS SERIES BANANA SCREENS

The SHBS Series Banana Screens provide users with maximum uptime while minimising operational costs. The aggressive, multi-sloped decks enable quick stratification, leading to rapid separation of the screened material and a reduction of the required screening area—ideal for processing large volumes. With a gearless exciter design, the SHBS Series Banana Screens significantly decrease maintenance time, costs, noise, and heat generation.

Maximum Feed Size:

- 270 mm
- 10 inches

Size:

- Up to 4,280 x 8,500 mm
- Up to 14 x 28 ft

Motor Power:

- 90 – 110 kW
- 120 – 148 hp



Technical Parameter Table

Model	Decks	Width x Length		Max Feed Size		Motor Power	
		mm x mm	ft x ft	mm	inch	kW	hp
SHB2460	2	2,400 x 6,100	8 x 20	250	10	22 x 2 / 30 x 2	30 x 2 / 40 x 2
SHB2473	2	2,400 x 7,300	8 x 24	250	10	22 x 2 / 30 x 2	30 x 2 / 40 x 2
SHB3060	2	3,000 x 6,100	10 x 20	250	10	30 x 2 / 37 x 2	40 x 2 / 50 x 2
SHB3073	2	3,000 x 7,300	10 x 24	250	10	30 x 2 / 37 x 2	40 x 2 / 50 x 2
SHB3673	2	3,600 x 8,500	12 x 24	250	10	37 x 2 / 45 x 2	50 x 2 / 60 x 2
SHB3685	2	3,600 x 8,500	12 x 28	250	10	37 x 2 / 45 x 2	50 x 2 / 60 x 2
SHB4285	2	4,200 x 8,500	14 x 28	250	10	45 x 2 / 55 x 2	60 x 2 / 75 x 2

SL SERIES LINEAR SCREENS

The SL Series Linear Motion Screens effectively dislodge and convey material across the screen with its straight-line motion and high G-force. Due to their self-synchronising drives and low inclination angle, the screen has low headroom and a small footprint. Compared to many other screen models, it offers easier service and maintainability. It can accommodate a wide range of media options and features easy adjustments for fine-tuning the screen depending on application requirements.

Maximum Feed Size:

- 150 mm
- 6 inches

Size:

- Up to 3,600 x 7,300 mm
- Up to 12 x 24 ft

Motor Power:

- 44 – 74 kW
- 60 – 100 hp



Technical Parameter Table

Model	Decks	Width x Length		Max Feed Size		Motor Power	
		mm x mm	ft x ft	mm	inch	kW	hp
SL24602	2	2,400 x 6,100	8 x 20	150	6	22 x 2	30 x 2
SL24732	2	2,400 x 7,300	8 x 24	150	6	22 x 2	30 x 2
SL30602	2	3,000 x 6,100	10 x 20	150	6	37 x 2	50 x 2
SL30732	2	3,000 x 7,300	10 x 24	150	6	37 x 2	50 x 2
SL36602	2	3,600 x 6,100	12 x 20	150	6	37 x 2	50 x 2
SL36732	2	3,600 x 7,300	12 x 24	150	6	37 x 2	50 x 2

SI SERIES INCLINE SCREENS

Maximum Feed Size:

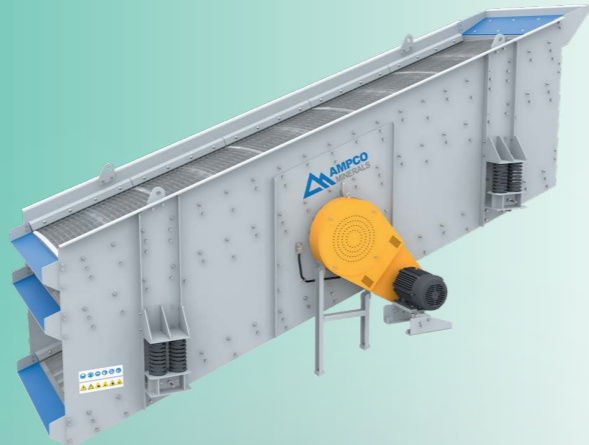
- 200 mm
- 8 inches

Size:

- Up to 3,600 x 7,330 mm
- Up to 12 x 24 ft

Motor Power:

- 22 – 74 kW
- 15 – 100 hp



Technical Parameter Table

Model	Decks	Width x Length		Max Feed Size		Motor Power	
		mm x mm	ft x ft	mm	inch	kW	hp
SI5162	2	1,600 x 4,900	5 x 16	200	8	11	15
SI5163	3	1,600 x 4,900	5 x 16	200	8	11	15
SI6162	2	1,890 x 4,900	6 x 16	200	8	15	20
SI6163	3	1,890 x 4,900	6 x 16	200	8	15	20
SI6202	2	1,890 x 6,115	6 x 20	200	8	18.5	25
SI6203	3	1,890 x 6,115	6 x 20	200	8	18.5	25
SI7202	2	2,190 x 6,050	7 x 20	200	8	22	30
SI7203	3	2,190 x 6,050	7 x 20	200	8	18.5 x 2	25 x 2
SI8202	2	2,500 x 6,115	8 x 20	200	8	18.5 x 2	25 x 2
SI8203	3	2,500 x 6,115	8 x 20	200	8	22 x 2	30 x 2
SI8204	4	2,500 x 6,115	8 x 20	200	8	22 x 2	30 x 2
SI8242	2	2,500 x 7,320	8 x 24	200	8	30 x 2	40 x 2
SI8243	3	2,500 x 7,320	8 x 24	200	8	30 x 2	40 x 2
SI10242	2	3,100 x 7,320	10 x 24	200	8	37 x 2	50 x 2
SI10243	3	3,100 x 7,320	10 x 24	200	8	37 x 2	50 x 2
SI12242	2	3,600 x 7,330	12 x 24	200	8	37 x 2	50 x 2
SI12243	3	3,600 x 7,330	12 x 24	200	8	37 x 2	50 x 2

SISP SERIES INCLINE SCALPING SCREENS

The multi-deck SI Series and SISP Series incline vibrating screens operate at angles between 15 and 20 degrees with a circular motion for high production rates. They are equipped with single or dual shafts with up to four bearings, depending on the screen size, positioned at the screen box's center of gravity. The SISP Series Incline Scalping Screens have a heavy-duty design that efficiently handles larger feed sizes commonly found in secondary screening duties. The SI and SISP screens are easy to operate and maintain at a low total cost of ownership.

Maximum Feed Size:

- 400 mm
- 16 inches

Size:

- Up to 2,500 x 7,320 mm
- Up to 8 x 24 ft

Motor Power:

- 22 – 74 kW
- 35 – 100 hp



Technical Parameter Table

Model	Decks	Width x Length		Max Feed Size		Motor Power	
		mm x mm	ft x ft	mm	inch	kW	hp
SISP5162	2	1,580 x 5,000	5 x 16	400	16	22	30
SISP6162	2	1,860 x 5,000	6 x 16	400	16	30	40
SISP7202	2	2,190 x 6,050	7 x 20	400	16	18.5 x 2	25 x 2
SISP8202	2	2,500 x 6,050	8 x 20	400	16	18.5 x 2	25 x 2
SISP8242	2	2,500 x 7,320	8 x 24	400	16	22 x 2	30 x 2
SISP8243	3	2,500 x 7,320	8 x 24	400	16	37 x 2	50 x 2

SH / SHFS SERIES

HORIZONTAL FINES SCREENS

The SH/SHFS Series Horizontal Screens boast an impressive screening efficiency of up to 95% and can handle high tonnage throughput for both fixed and mobile installations. This compact screen is available in multi-deck configurations, offering flexibility to meet various product requirements. The horizontal screen features an adjustable stroke angle, amplitude, and operating speed, allowing for better management of mineral processing requirements. The combination of flexible adjustments, elliptical motion, and high acceleration force of up to 6G results in a highly efficient screen.

SH Series Specifications

Maximum Feed Size:

- 200 mm
- 8 inches

Size:

- Up to 2,550 x 6,100 mm
- Up to 8 x 20 ft

Motor Power:

- 20 – 45 kW
- 30 – 60 hp



Technical Parameter Table

Model	Decks	Width x Length		Max Feed Size		Motor Power	
		mm x mm	ft x ft	mm	inch	kW	hp
SH5162	2	1,562 x 4,900	5 x 16	200	8	22	30
SH5163	3	1,562 x 4,900	5 x 16	200	8	22	30
SH6162	2	1,930 x 4,900	6 x 16	200	8	22	30
SH6163	3	1,930 x 4,900	6 x 16	200	8	30	40
SH6202	2	1,930 x 6,100	6 x 20	200	8	30	40
SH6203	3	1,930 x 6,100	6 x 20	200	8	30	40
SH6204	4	1,930 x 6,100	6 x 20	200	8	37	50
SH7202	2	2,235 x 6,100	7 x 20	200	8	37	50
SH7203	3	2,235 x 6,100	7 x 20	200	8	37	50
SH7204	4	2,235 x 6,100	7 x 20	200	8	37	50
SH8202	2	2,540 x 6,100	8 x 20	200	8	37	50
SH8203	3	2,540 x 6,100	8 x 20	200	8	37	50
SHFS5162	2	1,562 x 4,900	5 x 16	50	2	30	40
SHFS5163	3	1,562 x 4,900	5 x 16	50	2	30	40
SHFS6162	2	1,930 x 4,900	6 x 16	50	2	30	40
SHFS6163	3	1,930 x 4,900	6 x 16	50	2	37	50
SHFS6202	2	1,930 x 6,100	6 x 20	50	2	37	50
SHFS6203	3	1,930 x 6,100	6 x 20	50	2	37	50
SHFS6204	4	1,930 x 6,100	6 x 20	50	2	45	60
SHFS7202	2	2,235 x 6,100	7 x 20	50	2	45	60
SHFS7203	3	2,235 x 6,100	7 x 20	50	2	45	60
SHFS7204	4	2,235 x 6,100	7 x 20	50	2	45	60
SHFS8202	2	2,540 x 6,100	8 x 20	50	2	45	60
SHFS8203	3	2,540 x 6,100	8 x 20	50	2	45	60

HFF SERIES HIGH FREQUENCY FINES SCREENS

The HFF Series High Frequency Fines (HFF) Screens are a unique dry screening system designed for efficiency. These vibrating screens use high-speed transversely mounted shafts to provide equal vibration to the screen media. The unbalanced drives generate high accelerations from 10G to 40G, with a variable frequency range of 50 to 100 Hz. The banana shape of the HFF screen improves efficiency and throughput compared to standard inclined high-frequency screens. These screens are energy-efficient, with a low power consumption of approximately 9 kW for 50 tons per hour.

Each HFF screen has a control system that includes frequency drives and a touch-screen HMI, allowing users to fine-tune the system for specific applications. Each deck in the screen machine can be independently varied in frequency and amplitude. The decks feature ten independent shafts with motors, ensuring even vibration throughout the screen media. An automatic cleaning cycle enhances efficiency and reduces downtime.

For larger HFF screens, a vibrating feeder is included to maximise production and efficiency. The feeder ensures even distribution of material across the screen's width, ensuring optimal feed presentation to the screen deck.



- Size:**
- Up to 2.25 x 6 m
 - Up to 7.5 x 19.69 ft
- Motor Power:**
- 2.7 - 12.3 kW
 - 3.6 - 16.4 hp

Technical Parameter Table

Model	Decks	Screening Media (Width x Length)		Motor Power		Motors	Vibro Feeder Included
		m	ft	kW	hp		
HFF1060-1B to 4B	1 - 4	1.05 x 6	3.4 x 19.69	2.7 - 10.8	3.6 - 14.4	10 - 40	No
HFF1560-1B to 4B	1 - 4	1.55 x 6	5.1 x 19.69	4.2 - 12.3	5.6 - 16.4	10 - 40	Yes
HFF1860 1B to 4B	1 - 4	1.85 x 6	6.1 x 19.69	4.2 - 12.3	5.6 - 16.4	10 - 40	Yes
HFF2060-1B to 4B	1 - 4	2.05 x 6	6.7 x 19.69	4.2 - 12.3	5.6 - 16.4	10 - 40	Yes
HFF2260-1B to 4B	1 - 4	2.25 x 6	7.5 x 19.69	4.2 - 12.3	5.6 - 16.4	10 - 40	Yes



A low-angle, upward-looking photograph of a large industrial magnetic separator. The structure is composed of dark grey steel beams and yellow-painted metal grates. A large, cylindrical magnetic drum is suspended in the center, held by heavy chains. Blue mechanical components, likely part of the conveyor system, are visible at the base and sides. The background is a clear blue sky with some light clouds.

MAGNETS

EM / EMF SERIES MAGNETS

The Electro Magnet (EM) & Electro Magnet Fixed (EMF) Series Magnets are designed to proportionally remove ferrous substances from non-ferrous materials in a circuit. An AC/DC rectifier sends a current to the magnet to generate the magnetic field. The self-cleaning magnet is attached to a frame and features a conveyor belt around the magnet, protected by stainless-steel cladding. These magnets are air-cooled and do not require transformer oil, making them environmentally friendly and safer for maintenance. The conveyor belt automatically unloads ferrous debris into a waste collection bin. Vanguard Mining offers both fixed and self-cleaning electro magnets.

Fixed or Self-Cleaning

Conveyor Width:

- 762 - 1,524 mm
- 30 - 60 inches

Motor Power:

- 2.2 - 5.5 kW
- 3 - 7.5 hp



Technical Parameter Tables

Electro Magnet (EM) Self Cleaning					Electro Magnet Fixed (EMF)						
Model	Conveyor Widths		Motor Power		Model	Conveyor Widths		Rectifier			
	mm	inch	kW	hp		mm	inch	kW	V (DC)	mT	Gs
EM30	762	30	2.2	3	EMF30	762	30	2.7	135	68	680
EM36	914	36	4	5	EMF36	914	36	6.1	230	75	750
EM42	1,067	42	4	5	EMF42	1,067	42	7.46	230	85	850
EM48	1,219	48	4	5	EMF48	1,219	48	9.6	230	78	780
EM54	1,372	54	5.5	7.5	EMF54	1,372	54	10.9	230	93	930
EM60	1,524	60	5.5	7.5	EMF60	1,524	60	12.9	230	105	1,050

Note: Gauss is relative to the magnet's height above a ferrous object.

RE / REF SERIES PERMANENT MAGNETS

The fixed and self-cleaning permanent magnets in the Rare Earth (RE) and Rare Earth Fixed (REF) series generate a magnetic field by layering rare earth magnets in an enclosure. These magnets can separate mixed ferrous substances from non-ferrous material on conveyors and can be mounted either in line or cross-conveyor. They are generally lighter in weight than their electric counterparts, making them easier to handle and requiring less support structure when mounting.

Fixed or Self-Cleaning

Conveyor Width:

- 762 - 1,524 mm
- 30 - 60 inches

Motor Power:

- 2.2 - 4 kW
- 3 - 5 hp



Technical Parameter Tables

Rare Earth (RE) Self Cleaning Magnet					Rare Earth Fixed (REF) Magnet		
Model	Conveyor Widths		Motor Power		Model	Conveyor Widths	
	mm	inch	kW	hp		mm	inch
RE30	762	30	2.2	3	REF30	762	30
RE36	914	36	4	5	REF36	914	36
RE42	1,067	42	4	5	REF42	1,067	42
RE48	1,219	48	4	5	REF48	1,219	48
RE54	1,372	54	4	5	REF54	1,372	54
RE60	1,524	60	4	5	REF60	1,524	60



CONVEYING EQUIPMENT

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Experience the efficiency of Vanguard conveyors as they move materials throughout a plant. Vanguard Mining can assist in selecting the most suitable conveyor or system that perfectly aligns with operational requirements. Their team can design and manufacture conveyors to ensure optimal performance and productivity. They offer conveyors with a belt width range of 600 – 1,800 mm (24 – 72 inches) and many customisable features.

Fixed Stacking Conveyors

provide an efficient method for stockpiling materials for future use or transportation offsite. When helping select a conveyor, Vanguard Mining considers storage capacity needs, available space, material characteristics, and methods for reclaiming materials.



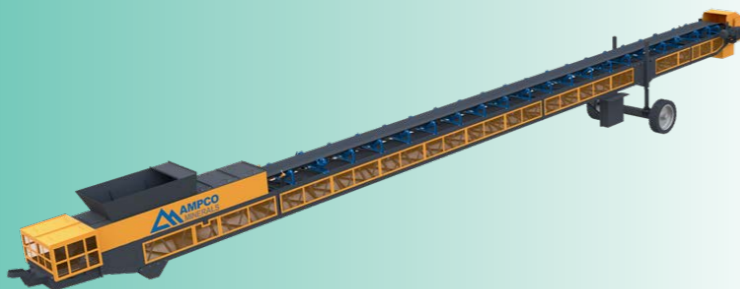
Radial Stacking Conveyors

create trapezoidal material piles for increased storage capacity and come with a wider range of optional features than a fixed stacking conveyor.



Grasshopper Conveyors

provide flexibility for conveying materials from one point to another, enhancing operational efficiency and reducing transportation, labour, and equipment costs.



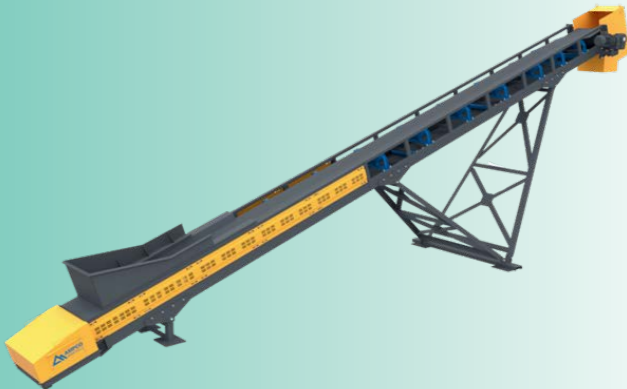
Overland Conveyors

are an excellent alternative to trucks for moving materials over long distances at the site. They result in reduced labour and transportation costs, can traverse various terrains, and efficiently transport materials.



Stringer Conveyors

are cost-efficient and move materials evenly and consistently from one station to another.



Truss Frame Conveyors

support high-capacity loads for material handling solutions at a site. Optimal walkways and head platforms provide a safe means for inspection and maintenance.





AFTER SALES SERVICE

At Vanguard Mining, our commitment doesn't end with delivery. We provide comprehensive aftersales support tailored to the demands of brownfields operations—where uptime, safety, and efficiency are critical. Our team of local product experts ensures seamless continuity long after project handover.

Technical Support and Spare Parts

We supply high-quality spare and wear components—crusher liners, screen panels, conveyor parts, mill liners, and more—to maintain performance and minimise downtime. Whether on-site or remote, our support team delivers timely technical assistance to keep operations running smoothly and extend equipment life.

Operational Readiness and Shutdown Planning

Our experts work closely with your team to prepare for operational handover, offering detailed shutdown planning and fast, safe installations within scheduled windows. We understand the pressure of established sites and ensure a smooth transition from install to operation.



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