CRUSHING



ASTEC

KODIAK® PLUS CONE CRUSHERS

The Kodiak® Plus series features patented innovations that provide the efficiency needed to hit financial goals and the worry-free operation demanded from rugged machinery. A unique roller bearing design reduces operating expenses by up to 50% while also improving production and energy efficiency. The Kodiak® Plus cone crusher meets coarse and fine crushing application requirements and offers on-the-fly adjustability for easy operation.





1 Roller Bearing Construction

Kodiak® Plus roller bearings reduce operating expenses by up to 50%. Precision design generates higher efficiencies, reducing re-circulating loads and operating temperatures. This design is highly tolerant of climate and temperature fluctuations.

2 Patented Cone Brake

A patented anti-spin, pin-style cone brake reduces manganese wear costs and minimizes projectiles.

3 Patented Liner Retention System

The patented liner retention system simplifies liner changes.

4 Bowl Lock Ring

A 360-degree ring replaces individual cylinders and acts as a single piston providing low maintenance and a leak-free operation and prevents bowl creep.

5 Counterweights

Fully-protected, patented internal counterweights eliminate the need for replacements and maintain true balance through the life of the machine.

6 Patented Tramp Iron Relief System

The patented tramp iron relief system eliminates maintenance costs associated with accumulators. Pressure relief valves act as a latch, generating minimal back pressure build-up during a tramp iron or overload event.

7 Replaceable Brass Seat Liners

Replaceable, single-sided brass v-seat liners provide extra protection from overload events.

Model	Head Diameter		Weight		Capacity	
	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
K200+	40	1,016	33,500	15,196	385	349
K300+	45	1,143	45,500	20,639	460	417
K350+	48	1,219	47,975	21,761	506	459
K400+	54	1,372	58,600	26,580	625	567
K500+	60	1,524	75,500	34,247	830	753

TITAN® CONE CRUSHERS

Titan® series cone crushers are engineered to deliver un-compromising productivity, safety and ease-of-maintenance for maximum uptime in tough, abrasive applications. With four sizes ranging from 200 to 500 horsepower, and capacities from 288 to 840 tons per hour, there is a Titan® series cone crusher for every application and operation.





1 Hydraulic Relief and Clearing

Uncrushable materials pass through the large clearing circuits safely and quickly, and the fewer number of cylinders reduces maintenance costs. Inverted relief cylinders stay cleaner longer to extend the life of seals.

2 Hybrid Thrust Bearing

The patented hybrid thrust bearing allows the cone to crush at tighter settings and easily handle crushing forces. The bearing replaces conventional socket, socket liner and head ball design with a simplified washer and ramp design, for increased service life and quick, easy repair.

3 Anti-Spin System

The optional, patented anti-spin system prevents head spin, which extends manganese life. Since shear bolts are not used in the assembly, an automatic reset feature requires no parts replacement or repair time.

4 Collet Assembly

The collet assembly features an easy-to-service lip ring that helps keep the concave centered using jack-bolts and power tools.

5 Top Service Disassembly

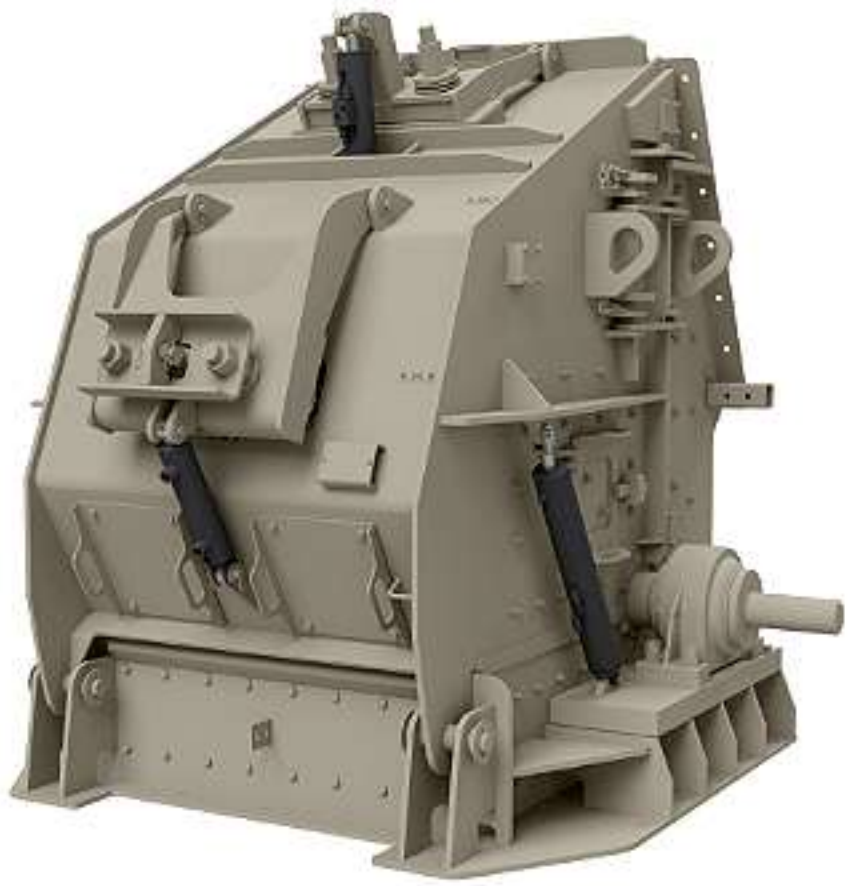
Liner changes and parts inspection are further simplified by top service disassembly. The main shaft on Titan® cone crushers is fixed into the lower mainframe, and the countershaft is positioned below the main gear. This design enables producers to remove components from the top instead of the bottom, improving safety and efficiency.

Model	Head Diameter		Weight		Capacity	
	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
T200	36	915	22,000	9,979	288	259
T300	44	1,120	35,800	16,239	510	462
T400	52	1,321	51,800	23,496	657	594
T500	57	1,450	75,100	34,065	840	760

HORIZONTAL SHAFT IMPACTORS

Accommodating three- or four-blow bar configurations, Astec horizontal shaft impactors (HSI) offer the adaptability and capacity required to meet the demanding aggregate market. A large feed opening and a high-performance MPR rotor make these impact crushers well suited for recycling and aggregate processing applications. With up to 30% more uptime and 25% more production than competitive models, our HSI series delivers exceptional performance.





1 Hydraulic Adjustable Curtain Design

An enhanced adjustable curtain design with a hydraulically-adjusted closed-side-setting provides precise gradation control for a more consistent product.

2 Replacement Blow Bars

Replacement blow bars in multiple metallurgies and bolt-on apron liners extend wear life and reduce costly downtime.

3 Large Feed Opening

A 36- or 38-inch feed opening provides optimal material transition and is well suited for aggregate and recycling applications.

4 Maximum Performance Rotor

The maximum performance rotor provides the rugged performance characteristics of a solid rotor with the accessibility of a segmented rotor.

5 Hydraulic Crusher Housing

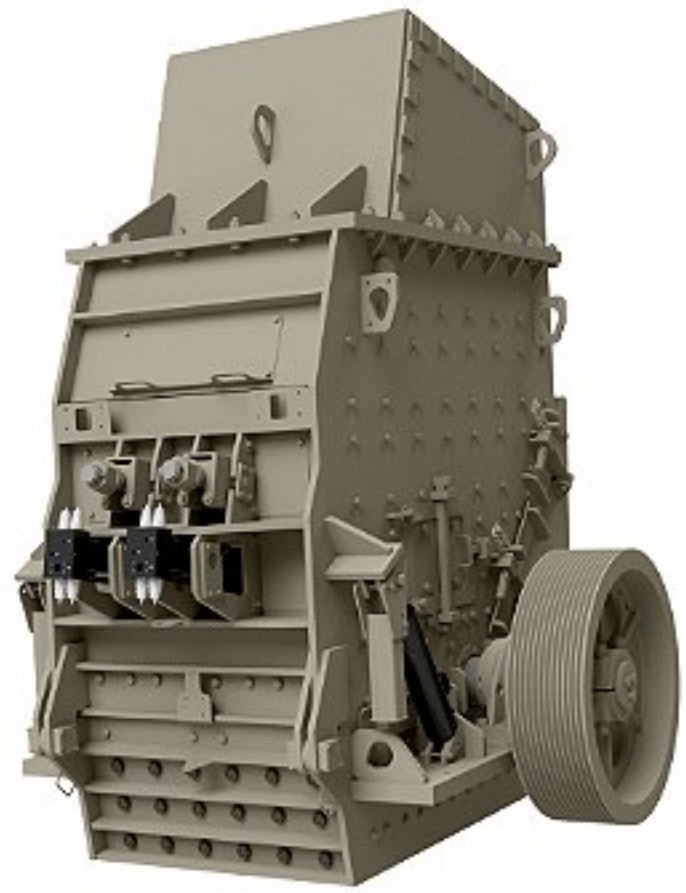
The crusher housing hydraulically opens over the center for safe and easy maintenance access.

Model	Rotor Diameter		Rotor Width		Weight		Capacity	
	Inches	Millimeters	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
2421	24	609	21	533	3,170	1,440	50	45
2430	24	609	30	762	3,500	1,590	70	63.5
3136	31	787	36	914	5,800	2,631	175	159
3646	36	914	46	1,168	14,000	6,350	250	227
4240	42	1,067	40	1,016	24,500	11,113	250	227
4250	42	1,067	50	1,270	28,200	12,792	300	272
5260	52	1,321	60	1,524	43,000	19,505	450	408
PA6060	59	1,500	59	1,500	61,000	27,700	600	545

HYBRID HORIZONTAL SHAFT IMPACTORS

With decades of field-proven results, the Astec hybrid horizontal shaft impactor (HSI) consistently provides profitable impact performance. The solid rotor design performs equally well in hard rock applications and in asphalt and concrete recycling operations. The hybrid HSI offers application flexibility, increased capacity and a more consistent product.





1 High Reduction Ratio
The hybrid impact crusher provides a high reduction ratio and a large expansion chamber for increased production with less horsepower.

2 Crushing Chamber Opening
The upper section of the crushing chamber opens for safe and easy maintenance access.

3 Removable Blow Bars
Removable blow bars provide greater ease-of-use, less downtime and multiple metallurgy options for a variety of applications.

4 Hydraulic Adjustable Curtain Design
An enhanced adjustable curtain design with a hydraulically adjusted closed-side-setting provides precise gradation control for a more consistent product.

Model	Disel Power Required		Electric Power Required		Feed Size		Capacity	
	HP	kW	HP	kW	Inches	Millimeters	TPH	MTPH
5054	440	336	300	224	40	1,016	500 - 900	454 - 816

VERTICAL SHAFT IMPACTOR

The efficient and versatile design of the Astec vertical shaft impactors (VSI) delivers highly-consistent end products for jobs that demand precision. Our VSI series is available in stationary, portable and mobile configurations and can produce up to 500 tons per hour. With the ability to run in standard, semi-autogenous and fully autogenous configurations, our models meet the most stringent material specifications, allowing producers to meet the challenges of any job.





1 Application Flexibility

Multiple configurations of shoe table, rotor, anvil ring and hybrid rock shelf deliver proper internal crusher geometry for maximum production at the lowest cost.

2 Hyrda-Arm

Hydra-arm assembly lifts the crusher lid for 360 degrees of internal crusher viewing and maintenance. Lid assembly is equipped with bolt-on liners and large inspection doors for internal component viewing and safe, easy access to wear liners.

3 Adjustable Impact Zone

Anvil ring and hybrid rock shelf are adjustable to provide the proper alignment for maximum crushing efficiency and wear part utilization.

4 Externally-Adjustable Feed Tube

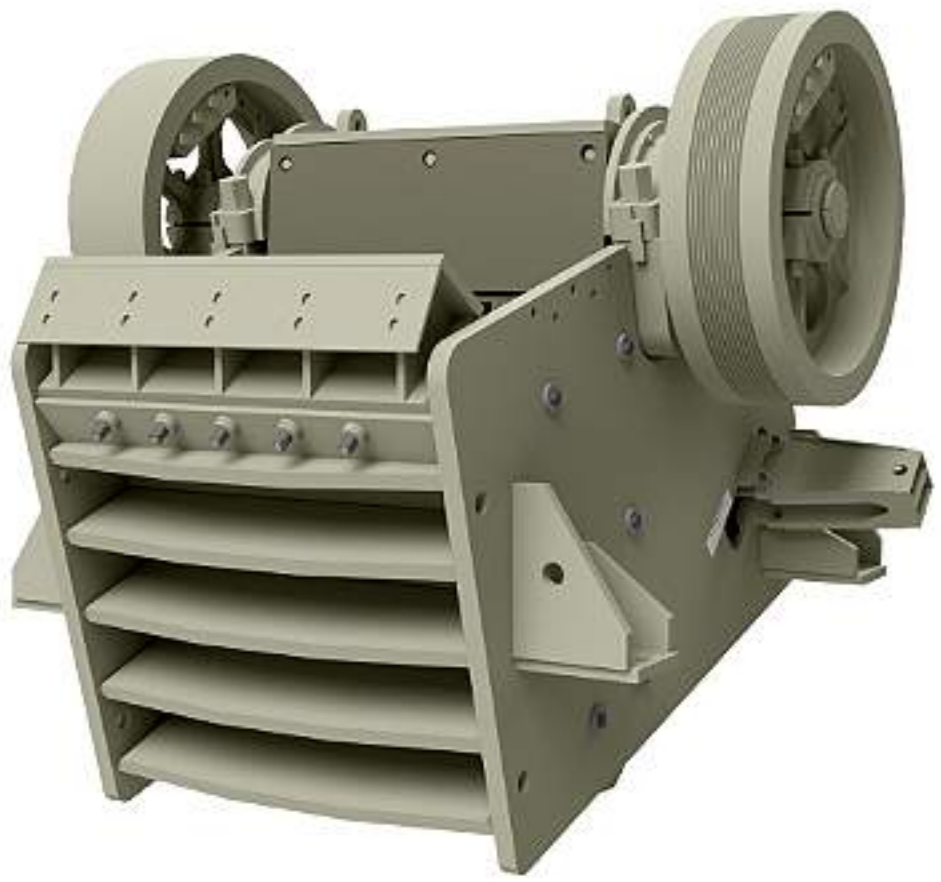
Heavy-duty construction and an externally-adjustable feed tube compensate for excessive wear normally experienced by other non-adjustable systems.

Model	Feed Tube Diameter		Weight		Capacity	
	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
1500EV	8.5	216	13,200	5,987	75 - 150	67 - 135
2500EVT	11.4	290	18,600	8,437	150 - 300	135 - 267
3500EVT	14	356	24,000	10,886	250 - 400	227 - 356
4500EVT	16	406	30,400	13,789	300 - 500	267 - 445

PIONEER® JAW CRUSHERS

The Pioneer® jaw crusher series represents the very latest in jaw crusher technology. Engineered for maximum capacity, this jaw series can deliver up to 25% more tons per hour than other comparable units. Pair that with heavy-duty flywheels for reduced horsepower requirements and class-leading stroke for higher capacity and increased operation.





1 Large Flywheels
Large, dynamically-balanced flywheels reduce peak horsepower requirements.

2 Class-Leading Stroke
Class-leading, 1½" stroke offers greater throughput for up to 25% more capacity than competitive models.

3 Wear Parts
Replaceable manganese jaw die retention bars and barrel protector plate guard the pitman and crusher base from costly damage. Three-piece side base wear liner design allows for the replacement of high-wear liners separately.

4 Hydraulic Dual Wedge CSS Adjustment
Hydraulic dual wedge system eliminates cumbersome manual shims, providing quick closed-side setting adjustment and enhanced safety.

5 Jaw Die Retention Wedge
Jaw die retention wedge retains the jaw die without the use of problematic key and heel plates.

6 Bearing Assembly
The unique and efficient bearing assembly provides added strength and reliable long term service.

Model	Gap		Width		Weight		Capacity	
	Inches	Millimeters	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
2742	27	685	42	1,067	29,500	13,381	228–300	20–272
2650	26	660	50	1,270	32,000	14,515	268–325	243–295
3055	30	762	55	1,397	50,000	22,680	502–660	455–599
3365	33	838	65	1,651	63,000	28,576	761–969	692–882

IRON GIANT JAW CRUSHERS

Iron Giant series jaw crushers are designed for optimal crushing performance in the toughest crushing environments. For maximum uptime and reduced maintenance, the Iron Giant series incorporates a variety of features not normally found on jaw crushers.





1 Alloy Steel Plates
Cheek plates are made of AR400 alloy steel for long service life.

2 Hydraulic Wedge Lock
The hydraulic wedge lock provides a fast, safe and reliable adjusting system without the use of special tools.

3 Jaw Dies
Heavy-duty jaw dies are standard and support plates.

4 Replaceable Wear Liner
The replaceable liner behind the jaw die protects the mainframe and pitman for extended jaw life.

5 Tension Spring Bracket
The tension spring bracket moves during adjustment to maintain constant tension.

6 Pitman Lock-Out Pin
The pitman lock-out pin improves safety during toggle removal.

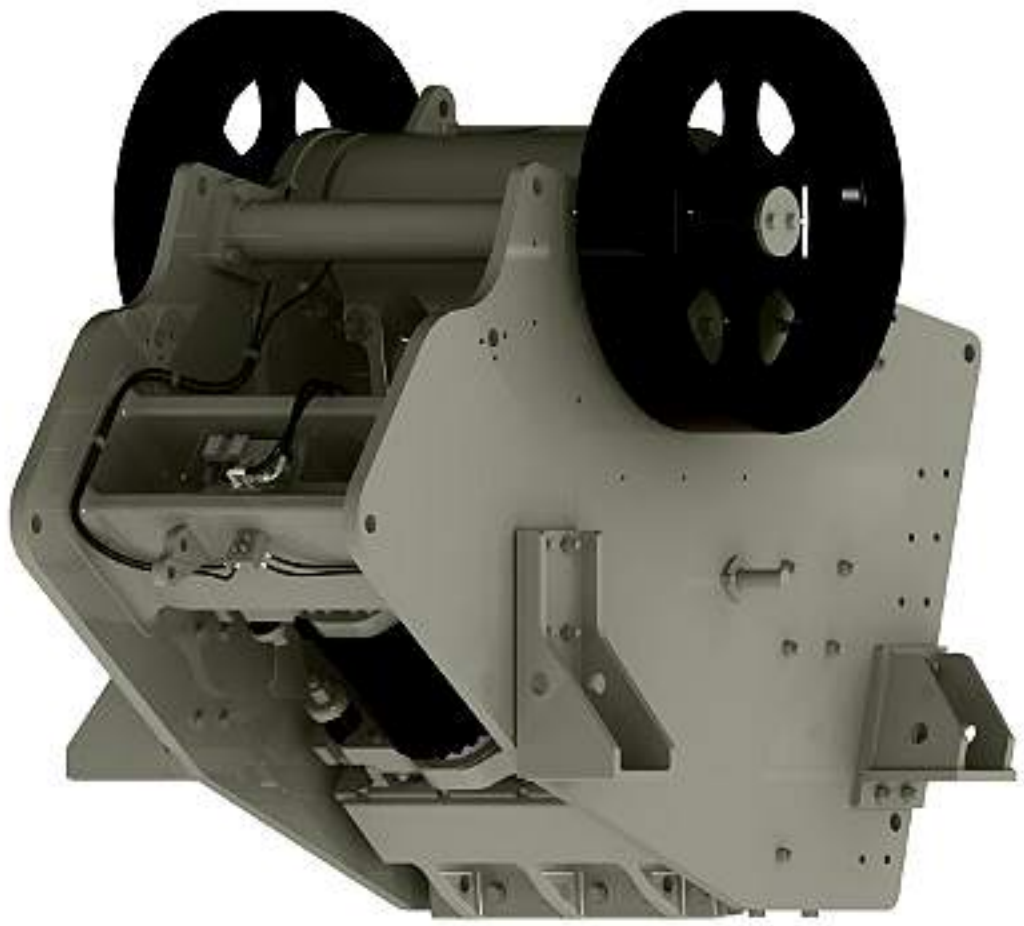
7 Replaceable Impact Plate
A replaceable impact plate protects the barrel.

Model	Gap		Width		Weight		Capacity	
	Inches	Millimeters	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
4448IG	44	1,118	48	1,219	126,000	57,154	700 – 1,030	636 – 936
5060IG	50	1,270	60	1,524	191,000	86,638	1,065 – 1,400	968 – 1,273

HYDRA-JAW® CRUSHERS

The Hydra-Jaw® crusher series combines the most advanced jaw crushing technology with decades of experience and expertise. This highly-productive jaw crushing line is safe, easy-to-operate, easy-to-maintain and offers greater uptime than competitive models.





1 Hydraulic Chamber Clearing System

The hydraulic chamber clearing system allows the operator to safely clear the crusher from any location, eliminating downtime and keeping the production team safe. Through push-button controls, hydraulics crush any stone that remains in the chamber, preventing oversized material from passing onto the product belt. Crushing operations can resume in minutes following an emergency stop.

2 Hydraulic Adjustment

The hydraulic adjustment practically eliminates adjustment downtime. Fingertip controls allow operators to adjust the crusher whenever it benefits production and without waiting until maintenance time allows.

3 Automatic Overload Relief

The automatic overload relief allows producers to avoid expensive downtime and repairs that can result from tramp iron entering the crusher.

4 Tension Spring Bracket

The toggle tensioning system saves time and money by eliminating the need to adjust springs when changing the setting.

Model	Gap		Width		Weight		Capacity	
	Inches	Millimeters	Inches	Millimeters	Pounds	Kilograms	TPH	MTPH
2238H	22	559	38	965	22,750	10,319	220 - 370	200 - 336
3244H	32	813	44	1,118	42,100	19,097	325 - 530	295 - 481
3450H	34	863	50	1,270	61,345	27,825	456 - 688	407 - 614



NOTES

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All specifications subject to change without notice. Products shown are representative, details may vary. Equipment show with options available at additional cost.

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