

HAZEMAG



HAZEMAG Secondary Impactor | APS, APSM



Secondary Impactor | APS, APSM

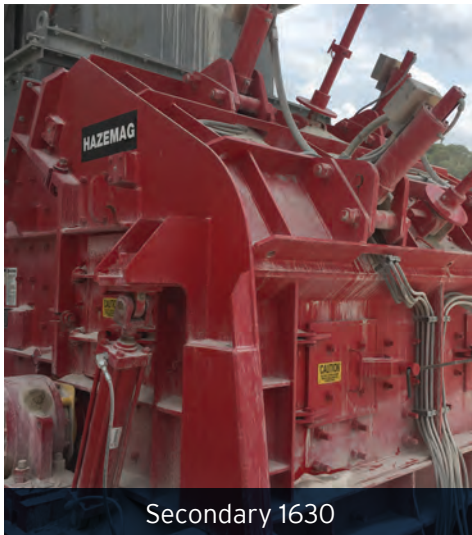
SINCE 1946: Our journey started here with the introduction of the Andreas Impact Crusher and the beginning of HAZEMAG; now backed by a reference list well exceeding 75,000 machines. Our customers benefit from an extensive range of HAZEMAG services, realized in our industry knowledge, application expertise, innovative technologies and proven solutions. HAZEMAG customers are the very foundation and focus of our work. Your success is our goal! We call it "Partnership Unlimited - The HAZEMAG Way."

Today, HAZEMAG continues its commitment toward developing and introducing new, innovative ideas to improve the impactor performance, efficiency, adjustability, product size control and safety. This commitment is easily realized throughout our of Secondary Impact Crushers; type APS, APSM and APSH.

HAZEMAG Secondary Impactors are designed as secondary reduction units for materials of medium to low silica contents such as limestone, dolomitic limestone and dolomite.

HAZEMAG Secondary Impactors are available in a capacity range of 5 - 1200 ton/hour, depending on the machine selection. These machines offer an excellent solution for the reduction of feeds materials up to 14 inch in size.

HAZEMAG



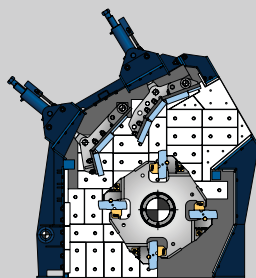
Secondary 1630



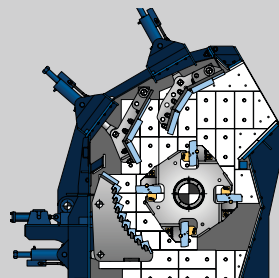
Secondary 1313



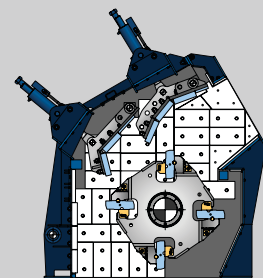
Secondary 1620



HAZEMAG APS – Series Secondary Impact Crusher is ideally suited for crushing medium-hard rock down to a well graded, highly cubical product size of 0 - 3 inch. Due to its operational flexibility, economical operation and excellent product size control, this machine is widely accepted as the machine of choice for the North American Aggregate Industry.



HAZEMAG APSM – Series Secondary Impact Crusher, fitted with its third crushing path, is ideally suited for the crushing of medium-hard rock down to a well graded, very highly cubical, product size of 0 - 1½ inch. With its unique design, excellent control over the product grading and proven success, the APSM impact crusher is well suited to meet a wide range of application needs.



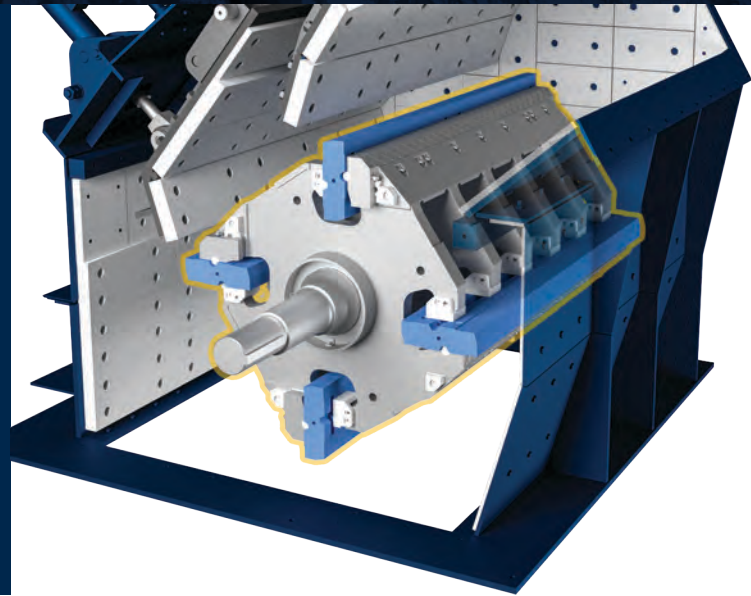
HAZEMAG APSH – Series Secondary Impact Crusher is equipped with our latest generation and industry exclusive technology, the **HAZtronic Control System**. This state-of-the-art apron control system offers a level of impactor performance and operational technology that ensures the production of a high quality, consistent product gradation. **We call it Intelligent Crushing!**

Rotor System

ROTORS

The rotor is the “heart” and the most severely tested part of the impact crusher. During the course of HAZEMAG’s +70 years of experience, particular emphasis has been placed on the rotor design, development and field of application.

Secondary crushing requires heavy duty rotors with rugged, torsion-free rotor bodies providing a high moment of inertia. Thus, the latest HAZEMAG secondary rotors are engineered and produced as a welded steel construction, where individual discs are joined together under a special process to form the rotor body. For reliability and trouble-free operation, the rotor body is stress relieved and dynamically balanced. This rotor body serves the purpose of holding and securing the impact elements; commonly called hammers or blowbars.



KH ROTOR (Standard)

The success of the HAZEMAG “KH” rotor can be found throughout the North American Aggregate Industry. Its very heavy duty construction, combined with its smart and fully functional design, has resulted in a secondary rotor system that delivers positive and beneficial results on every level. Its blowbars, offering a utilization factor of 50%, are secured into place by means of a massive backing bar and single piece wedge shoe. The “KH” rotor is a very good choice for the processing of larger / slabby materials often associated with a primary jaw crusher.



K ROTOR (Lighter Duty Applications)

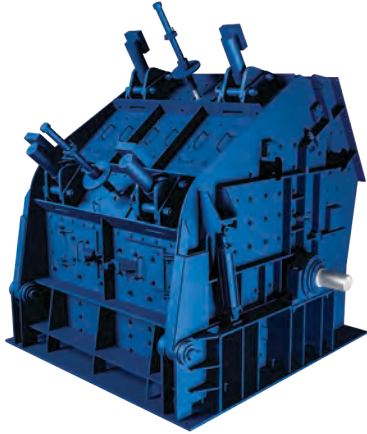
The success of the HAZEMAG “K” rotor can be found throughout many North American industries; aggregates, cement, glass recycling and others. Its heavy duty construction, combined with its smart and fully functional design, has resulted in a secondary rotor system that delivers positive and beneficial results on every level. Its blowbars, offering a utilization factor of 50%, are secured into place by means of a backing bar and single piece wedge shoe. The “K” rotor is a very good choice for the processing of typical material, such as limestone, not exceeding 10 inch in size.



BLOWBAR EXCHANGE SAFETY & FUNCTION

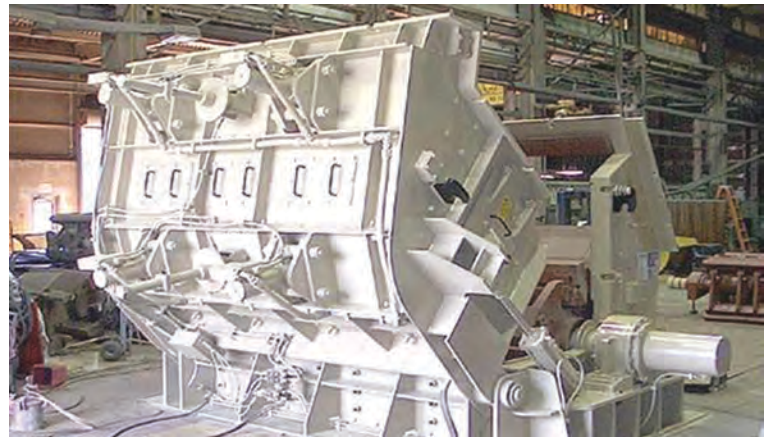
The exchange or removal of the blowbars in the KH and K rotors are assisted by means of a blowbar lifting device, standard and supplied on all HSI machines. Once the wedge clamping elements have been removed, the blowbars are now ready for rotation or exchange, followed by their repositioning back into the rotor body. Due to the size and weight of the rotor system, a rotor lock device is provided to ensure that the rotor body remains fixed into position during this procedure.

Housing System



HOUSING SYSTEM

The secondary crusher housing is a rugged, fabricated steel plate construction with heavy external bracing for increased strength. For quick and easy inspection of the internal wear parts, the housing is fitted with large doors which are secured/opened by a special dovetail locking mechanism. The rear housing section opens hydraulically, permitting complete access to the internal wear parts. With emphasis on safety, the weight of the housing (open position) is transferred over center preventing it from closing on its own.

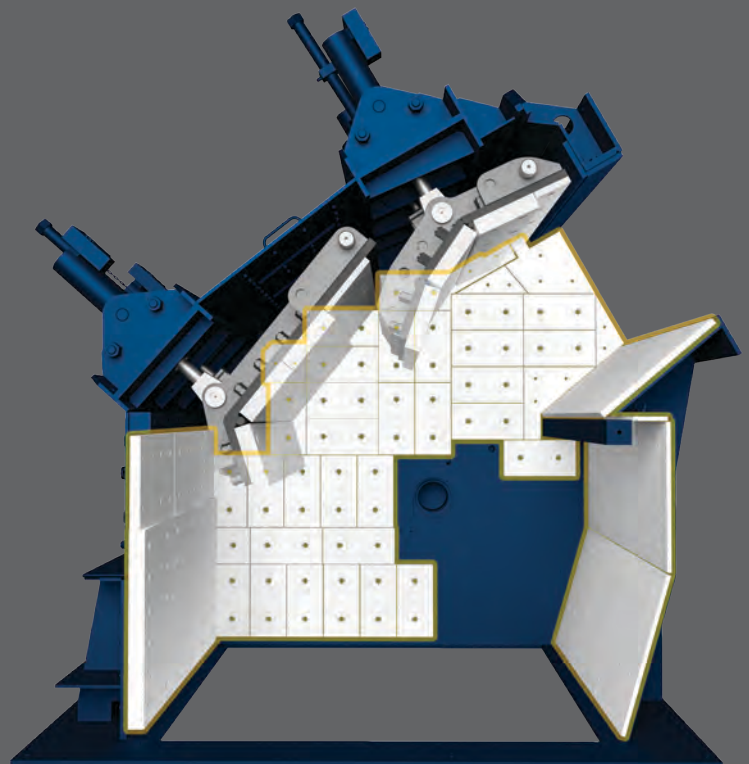


HOUSING LINER SYSTEM

With simplicity and function in mind, the housing is fitted with 1¼ inch thick, interchangeable, cast wear-resistant liners that have been designed as a common shape. The liners have an interchangeability level of approximately 95%. A further benefit with this liner design is realized in the form of increased wear metal utilization. A worn liner, for example, can be repositioned from a high wear zone (within the rotor circle), to a low wear zone (outside the rotor circle), thus extending its service life. The standardized design of the housing liner system helps to further reduce the impactor cost of operation.



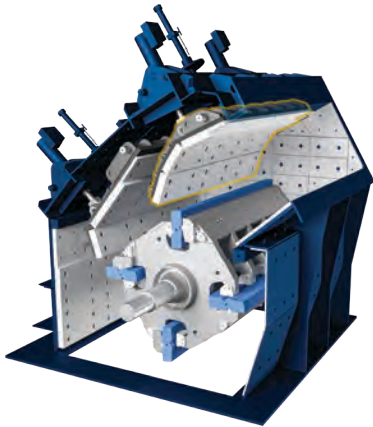
1¼ inch thick
Interchangeable
Wear Liner



Apron System

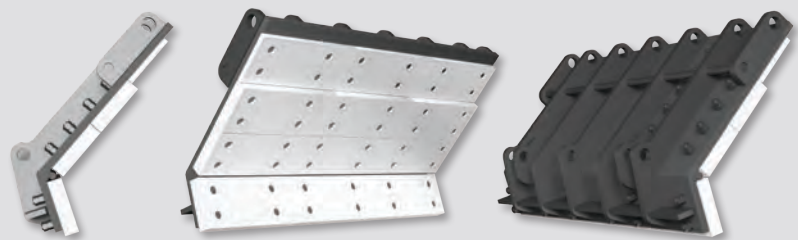
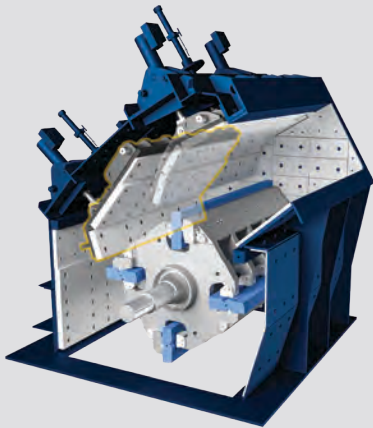
FRONT APRON

The front apron (primary impact zone) is an extra heavy duty, fabricated component that is utilized for the initial flow control & reduction of the feed material. In its lower wear zone, the apron is fitted with a bolt-on, 3½ inch thick wear-resistant impact liner. With simplicity and function in mind, these liners have been standardized to a common shape, interchangeable with the rear apron liners.



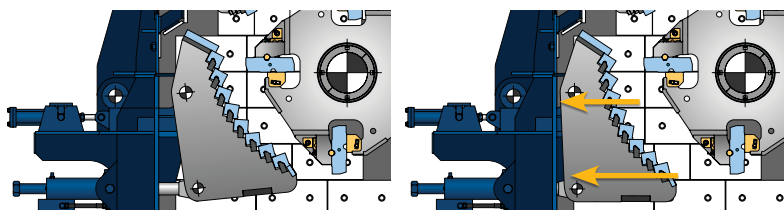
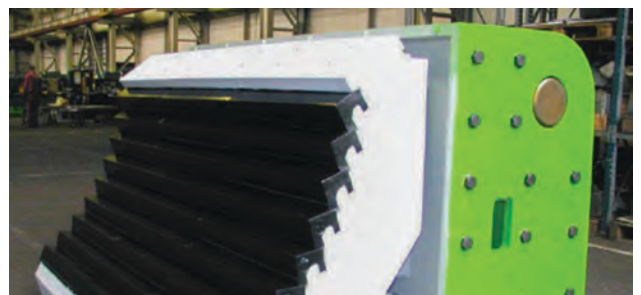
REAR APRON

The rear apron (secondary impact zone) is a heavy duty, fabricated component that is utilized for the secondary flow control & reduction of the feed material. In its lower wear zone, the apron is fitted with a bolt-on, 3½ inch thick wear-resistant impact liner. With simplicity and function in mind, these liners have been standardized to a common shape, interchangeable with the front apron liners.



THIRD CRUSHING PATH

The third crushing path (grinding path) is found in our APSM Third Crushing Path line of secondary impactors. The third crushing path is designed as a series of impact steps (or ledges) which provide an excellent level of control over the product grading, enhanced product soundness and very high cubical product shape. The third crushing path can be adjusted (top & bottom settings) through external hydraulic cylinders.



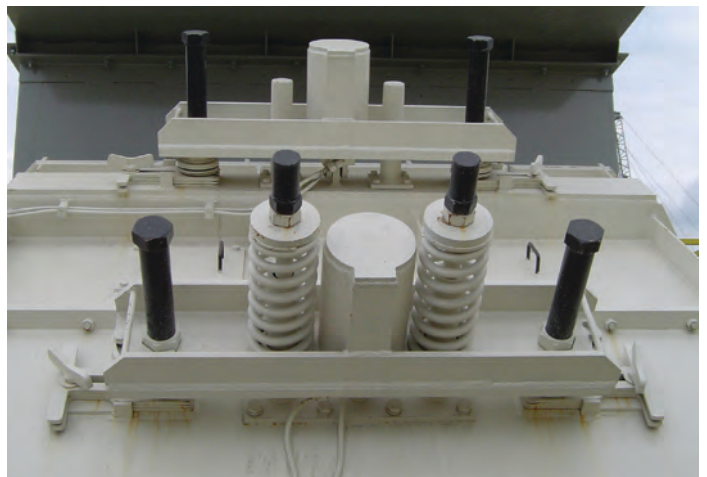
Secondary Impactor

APRON ADJUSTMENT SYSTEM

With function and simplicity in mind, the APS Impactor is fitted with a standard impact apron adjustment system that utilizes a hydraulic assist / quick shim adjustment system. Once the desired gap position has been established, future apron adjustments compensating for normal blowbar wear are quickly and safely performed utilizing the quick shim system.

When apron adjustment is needed:

- Raise the apron using the hydraulic apron cylinder.
- Loosen the quick shim wing nut.
- Remove the appropriate number of shims equal to the amount of blowbar wear.
- Tighten the quick shim wing nut.
- Lower the apron using the hydraulic apron cylinder.



APS Secondary Impactor

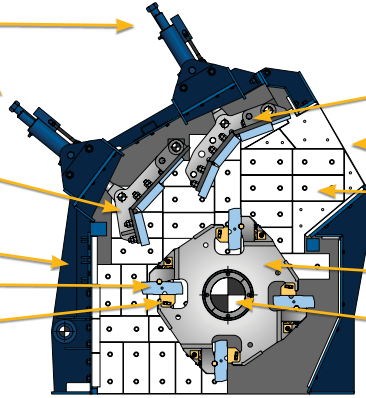
Hydraulic Adjustable Impact Aprons/Quick Shim Adjustment (or) HAZtronic System

Heavy Duty Impact Apron with Thick Replaceable Liners

Retractable Housing (hydraulic opening)

Reversible Blowbar

Wedge Shoe



Heavy Duty Impact Apron with Thick Replaceable Liners

Extra Large Inlet Opening

Heavy Duty Wear Liners

Heavy Duty Rotor

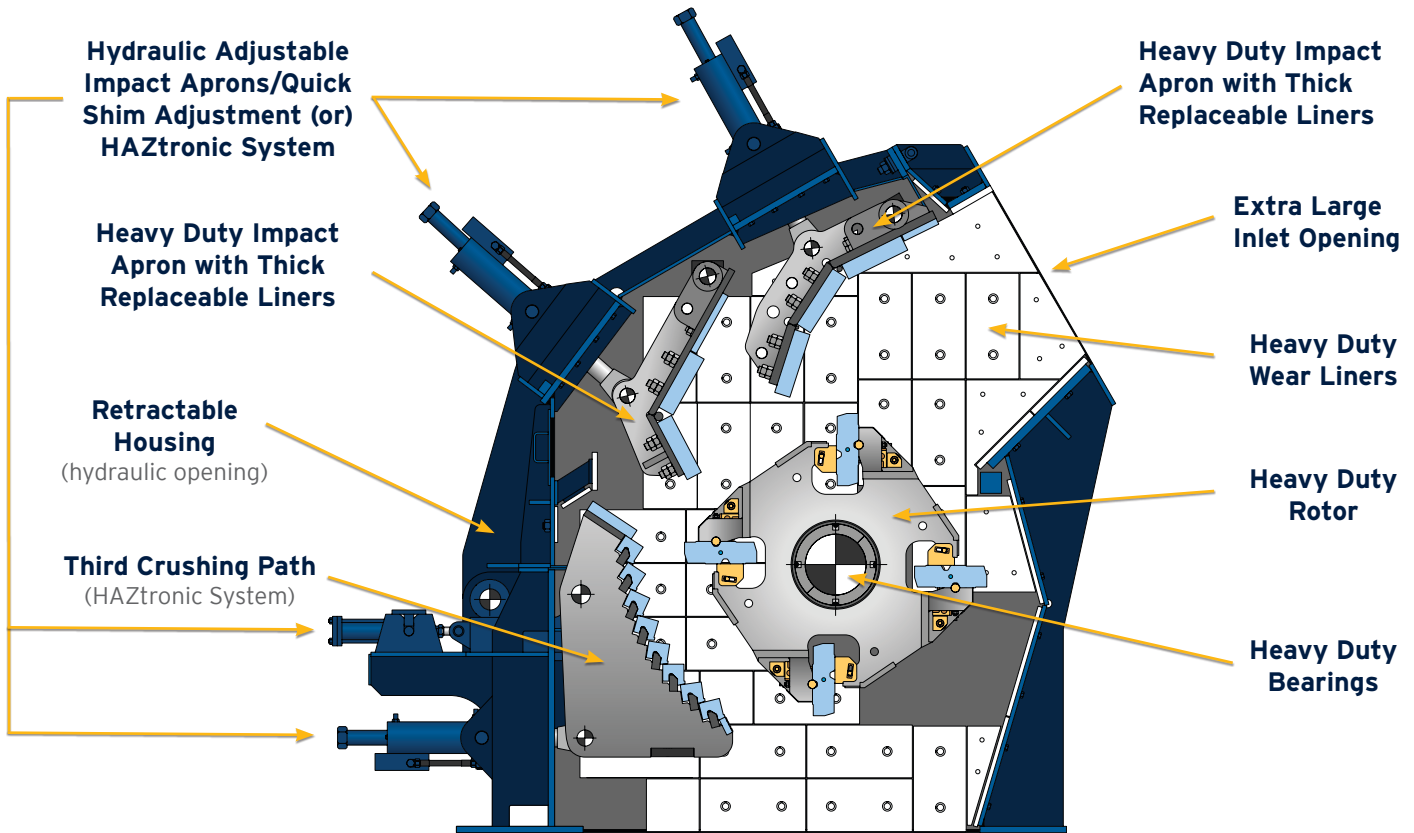
Heavy Duty Bearings

CRUSHER SPECIFICATIONS

Model	Capacity Tons/ Hr (Tonnes)	Power Requirements HP (kw)	Inlet Size Inch (mm) (H x W)	Maximum Feed Size Inch (mm)	Rotor Size Inch (mm) (D x W)	Weight Lb (kg)
APS-0403	5 (4)	10 (7.5)	12 x 14 (305 x 360)	4 (100)	16 x 13 (406 x 330)	2,625 (1,190)
APS-0406	10 (9)	15 (12)	12 x 27 (305 x 690)	4 (100)	16 x 26 (406 x 660)	3,730 (1,695)
APS-0604	15 (13)	15 (12)	15 x 18 (380 x 470)	5 (125)	24 x 16 (620 x 406)	4,160 (1,890)
APS-0806	30 (27)	40 (30)	15 x 27 (390 x 690)	6 (150)	30 x 26 (780 x 670)	9,200 (4,180)
APS-0810	75 (68)	100 (75)	15 x 40 (390 x 1020)	6 (150)	31 x 40 (800 x 1000)	10,700 (4,860)
APS-0813	100 (90)	150 (112)	15 x 54 (390 x 1360)	6 (150)	40 x 52 (1000 x 1340)	14,900 (6,775)
APS-1006	50 (45)	75 (56)	22 x 27 (570 x 690)	8 (200)	40 x 26 (1020 x 670)	11,280 (5,125)
APS-1010	90 (81)	150 (112)	22 x 40 (570 x 1020)	8 (200)	40 x 40 (1020 x 1020)	15,800 (7,180)
APS-1013	150 (136)	200 (150)	22 x 54 (570 x 1360)	8 (200)	40 x 53 (1020 x 1340)	19,100 (8,680)
APS-1015	200 (181)	250 (188)	22 x 60 (570 x 1520)	8 (200)	40 x 59 (1000 x 1500)	21,100 (9,590)
APS-1020	250 (226)	350 (262)	22 x 80 (570 x 2030)	8 (200)	40 x 79 (1000 x 2000)	24,700 (11,230)
APS-1310	125 (113)	2000 (1800)	34 x 40 (865 x 1020)	10 (250)	53 x 40 (1340 x 1020)	30,100 (13,680)
APS-1313	250 (226)	200 (150)	34 x 54 (865 x 1360)	10 (250)	53 x 53 (1340 x 1340)	37,700 (17,140)
APS-1315	300 (272)	300 (225)	34 x 60 (865 x 1520)	10 (250)	53 x 59 (1340 x 1500)	40,640 (18,475)
APS-1320	400 (362)	400 (300)	34 x 80 (865 x 2030)	10 (250)	53 x 79 (1340 x 2010)	52,700 (23,950)
APS-1430	900 (816)	500 (375)	38 x 119 (970 x 3020)	10 (250)	57 x 118 (1450 x 3000)	86,800 (39,450)
APS-1513	300 (272)	1000 (750)	37 x 54 (950 x 1360)	12 (300)	59 x 52 (1500 x 1340)	40,735 (18,515)
APS-1515	375 (340)	400 (300)	37 x 60 (950 x 1520)	12 (300)	59 x 59 (1500 x 1500)	43,825 (19,920)
APS-1520	450 (408)	500 (375)	37 x 80 (950 x 2030)	12 (300)	59 x 79 (1500 x 2000)	55,600 (25,270)
APS-1615	400 (362)	500 (375)	35 x 60 (890 x 1520)	14 (350)	64 x 59 (1610 x 1500)	51,600 (23,450)
APS-1620	500 (453)	600 (450)	35 x 80 (890 x 2030)	14 (350)	64 x 79 (1600 x 2010)	63,100 (28,680)
APS-1622	650 (590)	700 (525)	35 x 90 (890 x 2270)	14 (350)	60 x 89 (1600 x 2250)	67,500 (30,680)
APS-1630	1100 (1088)	1200 (900)	35 x 119 (890 x 3020)	14 (350)	64 x 118 (1600 x 3000)	97,500 (44,320)

Note: Performance details relate to medium-hard limestone.

APSM Secondary Impactor (with Third Crushing Path)



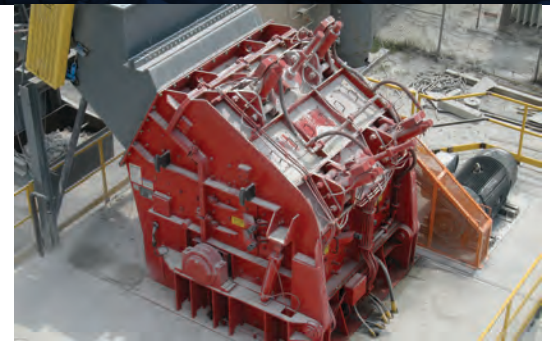
CRUSHER SPECIFICATIONS - Upon Request



TRADITION. EXPERIENCE. UNIQUENESS. SUCCESS - HAZEMAG!



HAZEMAG Partnership



PARTNERSHIP

What does it mean to you? At HAZEMAG we are committed to providing a level of partnership that is second to none. Everything we do from the initial presentation of our products, to the acceptance and processing of your order, to providing service and spare parts support after the sale, is done with a goal of exceeding your expectations.

SALES

We are here to serve your needs with application assistance, machine selection, quotations and sales presentations. We are supported by a network of knowledgeable and experienced factory-trained representatives.

SPARE PARTS

We serve your needs with a knowledgeable staff backed by a multi-million dollar spare parts inventory. We will help you achieve the optimum level of machine performance and economical operation with the right part and the latest technology, in stock and shipped on time.

ENGINEERING

We are here to serve your needs with engineering support, design guidance, project planning and management. Our dedication to impactor design excellence is backed by leading-edge computer design technology and proven by thousands (+75,000) of successful crusher installations.

CUSTOMER SUPPORT

We are proud of our dedicated staff who take pride in providing a level of after the sale support and service that is second to none. They are here to assist you with machine optimization, training, inspections and repair. We call it "Partnership Unlimited - The HAZEMAG Way"

It's All About You! The HAZEMAG Customer.





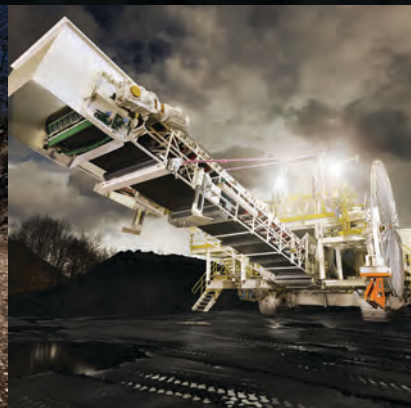
RANGE OF PRODUCTS

Proven Performance since 1946 - Economical Operation

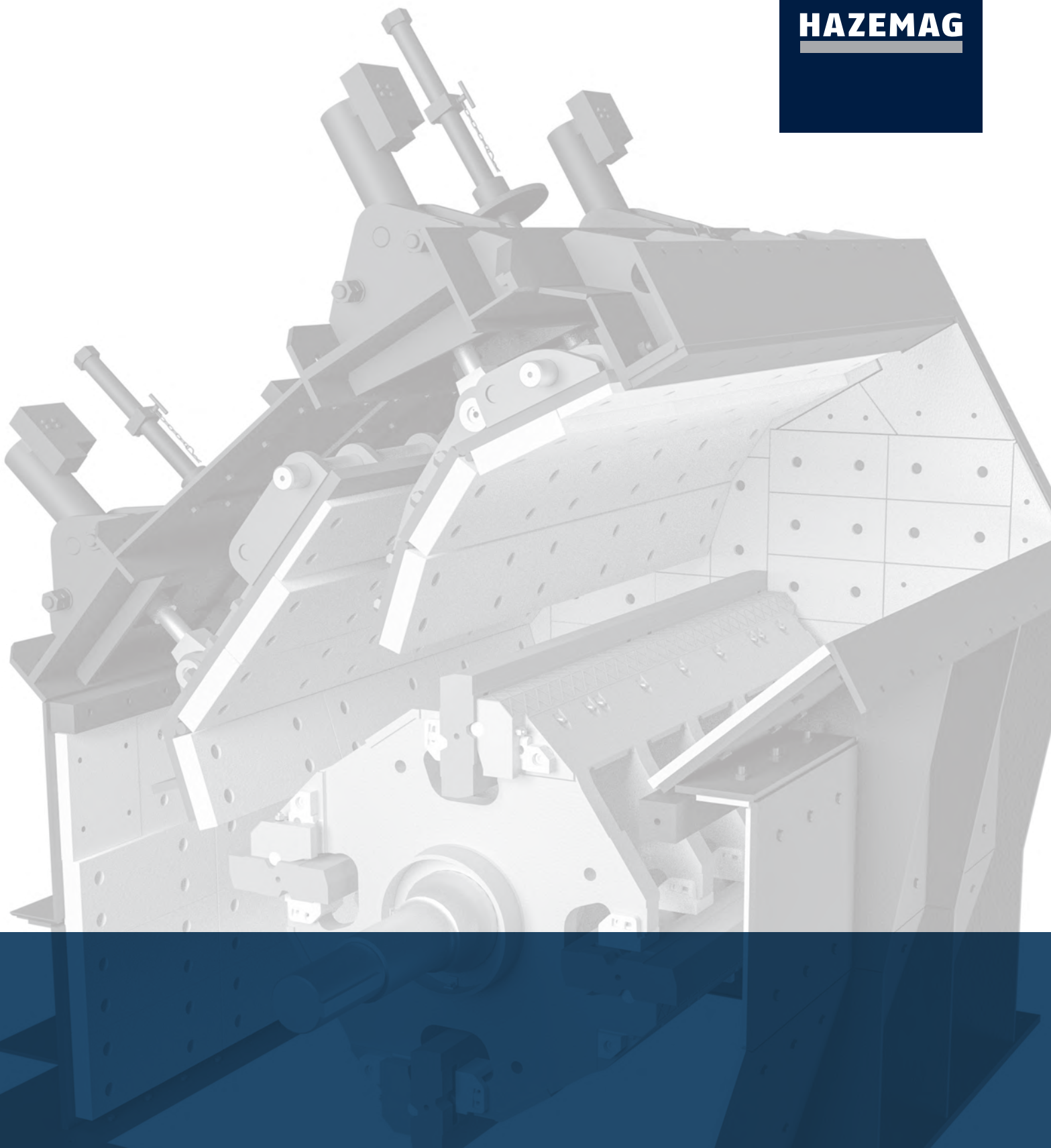
With a history dating back to 1946, and now over 75,000 HAZEMAG impactors operating worldwide, HAZEMAG is a world-leading supplier for impact crushers and raw material processing systems. Behind every HAZEMAG product is found a wealth of experience, a deep commitment to research and development, a drive for innovation and a strong focus on your success: the HAZEMAG customer! Today, HAZEMAG offers industry-leading material handling solutions through a range of products such as: impact crushers (primary, secondary, tertiary), drying technology, hammer mills, sizers, roll crushers, horizontal impact crushers, apron feeders and roller screens. Behind the operation of every HAZEMAG product is a level of partnership and support that remains second to none. We call it "Partnership Unlimited - The HAZEMAG Way"

HAZEMAG Range of Products starting at top, left to right:

- Impact Crushers
- Roller Screens
- Sizers
- Apron Feeders
- Hammer Mills
- Horizontal Impact Crushers
- Roll Crushers
- Pendulum Flap Gates



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