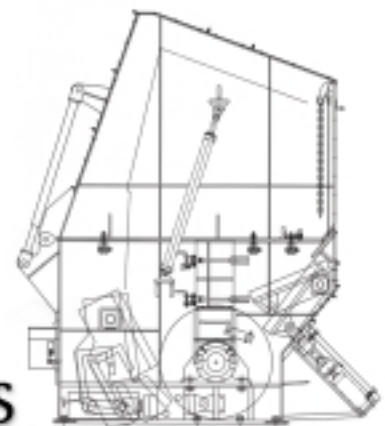


UNIVERSAL ENGINEERING



PRIMARY IMPACT CRUSHERS

- VERSATILITY - DURABILITY - PROFITABILITY -

UNIVERSAL MAXCAP PRIMARY IMPACT CRUSHER



The Universal MaxCap Primary Impact Crusher features the best of both the Andreas and New Holland style primary crushers. The MaxCap features a large expansion area above the rotor “like the New Holland Style” while using the technology of the “Andreas Style” for the ease of operation and maintenance. The primary stage impact chamber utilizes interchangeable fixed impact plates to deflect the material as it vertically expands and promote controlled re-entry into the impact zone for maximum reduction. The secondary impact chamber with adjustable breaker plate and cast wear plates, controls product top-size as the chamber is adjusted to compensate for changes in product requirements. The Universal MaxCap provides maximum capacity of a high-quality, cubical product at a lower cost-per-ton.

The crusher housing is fabricated of Heavy-duty plate steel construction with interchangeable sideliners and large inspection doors for ease of maintenance and routine inspections. Reversible and interchangeable cast manganese wear plates protect the feed plate and the lower breaker plate. The crusher hood opens hydraulically to provide easy access to the interior. The solid rotor, constructed of steel plate is machined and balanced, accommodating three (3) cast manganese full-width reversible hammers with a quick-change wedge system. The hammers are vertically installed with a protruding leading edge for optimum capacity and greater utilization, optional high chrome steel hammers are available for certain applications. For additional sizing control a third stage reduction plate with replaceable liners is available that can be added at the factory or in the field. A single electric hydraulic package provides the power for the hydraulic hood opening, the hydraulic feed plate (shim adjustable), and the hydraulic adjustment of the lower breaker plate with automatic reset. The MaxCap advantage is unmatched product control at the touch of a button.

The Universal MaxCap is the result of years of impact crushing experience, and advanced design concepts in metallurgy and processes. Compare the Universal MaxCap with other primary crushers, and you will see that it is one of the most technologically advanced line of crushers available!



UNIVERSAL ANDREAS PRIMARY IMPACT CRUSHER



The Universal Andreas Primary Impact Crushers are the most advanced line of Andreas style crushers available in today's industry. These crushers are highly improved, productive crushers designed for low cost operation. A high reduction ratio and cubical product are key benefits of the Universal Andreas Primary Impact design.

The Universal Andreas Impact Primary Crushers are true impact type crushers and are ideal for a variety of applications.

What separates Universal's Andreas Primary Impact Crusher from other designs is an unique, large diameter rotor. Universal has developed a rotor that operates at a reduced speed, decreasing wear and consuming less energy while delivering a superior high-inertia impact force. The rotor is supported by self-aligning, grease lubricated spherical roller bearings contained in a maintenance-free housing with labyrinth seals. The unique "S" design of the hammer provides a sharp leading edge for a longer period as the hammer wears. This sharp leading edge enables the crusher to sustain greater capacities longer with consistent product gradation. The hammers are reversible and are vertically lifted from the rotor for reversing or replacement, resulting in less downtime. Both the primary and secondary curtains are lined with interchangeable abrasion resistant liners and come equipped with a hydraulic assisted adjustment system. The crusher housing is fabricated of heavy-duty steel plate and lined with interchangeable abrasion resistant liners. Incorporating numerous inspection doors in the housing enhances maintenance efficiency. For a more detailed inspection and routine maintenance, the hood hydraulically opens providing clear access to the interior of the crusher.

Compare the benefits of the Universal Andreas Primary Impact Crusher with any other Andreas primary impact crusher on the market today, and you will find that you can rely on the experience and expertise of Universal Engineering, a proven industry leader.



UNIVERSAL NEW HOLLAND PRIMARY IMPACT CRUSHER



No other impact crusher can match the versatility and capacity of the Universal New Holland Primary Impact Crusher. A reduction ratio up to 20 to 1 reduces even the largest pieces of quarry run to desired product size in seconds.

The Universal New Holland Primary Impact Crusher's unique "free-flow" design combines superior engineering with top quality, rugged construction. "Free-flow" combines a large expansion crushing chamber, a massive fabricated rotor, upper deflector screen grate with vertical openings, upper and lower breaker bars; all adding up to precise product control with maximum output.

The fabricated steel rotor is precision machined and balanced, and provides tremendous impact power with less horsepower. Shallow hammer wells provide strength and no two wells are located directly across from one another to weaken the rotor. The Universal three hammer design has been field proven for years! Weldable rotor hammers are made of cast manganese steel and are reversible on most models for extended life.



A heavy chain and rubber curtain helps prevent material from rebounding out of the crushing chamber. The curtain also helps keep dust to a minimum.

Replaceable abrasion resistant steel liners are secured in place by a unique bolting arrangement. This provides 50% longer liner life and eliminates the danger of retaining bolts wearing and dropping into the crushing chamber.

Compare the benefits of the Universal New Holland Primary Impact Crusher with any other New Holland style impact crusher on the market today, and you will find that you can rely on the experience and expertise of a proven industry leader.



UNIVERSAL RCP RECYCLE IMPACT CRUSHER



Universal Engineering has supplied crushing, screening and associated equipment for recycling applications since 1966. Over the years continuous design refinements have been incorporated into our crushers for enhanced performance and efficiency.

The RCP Recycle Impact Crusher has been specifically designed to meet the need of the growing market for recycled concrete and asphalt materials. These Universal crushers feature an extra-wide feed opening to accommodate large slabby material more efficiently. Two independent curtains form the primary and secondary crushing chambers. The curtain liners are interchangeable and cast of a chromium alloy for extended wear life. The curtain weldments are heavily reinforced providing sufficient weight to negate any need for spring bridges. The “S” shaped hammers are high chrome steel alloy for low wear and low high durability to better tolerate reinforced concrete with heavy re-bar.

The heart of the RCP Recycle Impact Crusher is the heavy duty large diameter rotor. The rotor consists of discs that are made from high yield strength steel, and include replaceable face plates. The one-piece rotor incorporates a keyless shaft and is designed to handle rebar and wire mesh cleaning efficiently. This



crusher is available as standard with a 4-bar rotor to allow for maximum range of rotor tip speed. An extra heavy duty 3-bar rotor is available as an option and is particularly well suited for a variety of applications.



Compare the Universal RCP Recycle Impact Crusher feature by feature and see why it is superior in performance and operating efficiency. Contact one of Universal's application specialists for assistance in selecting the “right” plant for your next project.

PORTABILITY MEANS PROFIT



Your crushing profits begin with a Universal Engineering Primary Impact Portable Plant. Based on our expertise and field experience, combined with the advice and input from our valued customers, Universal Engineering has designed rugged portable crushing plants with features that put extra dollars in your pocket. The Primary Impact Portable Plants are available with various high quality custom engineered Universal feed and discharge systems, that are always designed to meet or exceed your specifications.

Universal's portable plants provide an efficient flow of material throughout each transition point. Design emphasis is placed on optimum control of the material flow for flexibility, safety, and efficiency. This makes Universal's plants easy to set up on the job site and reduces downtime between production runs.



Universal Engineering's portable recycling plants are designed to take you from job to job, handling large slabs of concrete and asphalt profitably. Universal Engineering can furnish both single and two-stage recycle plants that utilize either an impact crusher alone or a combination of crushers.



A typical single-stage portable recycling plant starts with a portable RCP Recycle Impact Crusher with a vibrating grizzly feeder.

A typical two-stage recycling application includes a primary and secondary crusher and is used when higher production and greater flexibility are desired. Two stage crushing is ideal for multifunctional systems that may be called upon to crush reinforced concrete one day and tough quarry-shot dolomite the next day.

Several different configurations of primary and secondary crushers can be utilized in a two-stage recycling operation.

Universal Engineering has a broad range of equipment, the experience and the know-how to design the perfect portable plant for your individual specifications and capacity requirements. Contact a Universal application specialist for assistance in selecting the "right" plant for your next project.



COMMITMENT TO QUALITY



Crushing equipment is only as good as the quality assurance programs of the manufacturer. Universal Engineering takes every step to make sure your equipment is built with superior workmanship. From engineering and design to manufacturing and shipping, Universal Engineering employees give each order the conscientious care that has made us leaders in the aggregate industry!

Our parts specialists are dedicated to providing our customers with prompt, efficient service and high quality parts to reduce downtime. Efficient inventory controls assure competitive prices and quality parts to keep equipment and plants running. For more information about Universal Engineering's replacement parts, contact your local Universal Engineering distributor or give one of our parts specialists a call.



CONTINUOUS PRODUCT IMPROVEMENT



Universal Engineering Corp.'s reputation as an innovator in the industry is due in part to our process of continuous improvement. As product enhancements are developed, Universal engineers make every effort to allow retrofits wherever possible. This practice ensures that Universal's equipment users have the opportunity to upgrade their equipment to take advantage of the latest technology and cost-saving features.

These enhancements may provide you the opportunity to increase overall production, improve gradation control, and provide timesaving maintenance procedures. In most cases, an upgrade will allow continued use of the same components currently in your inventory. Give us a call, Universal Engineering's team of specialists would like to discuss your current application and various means to enhance your operations.





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