

Press Release

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SCREEN MACHINE INDUSTRIES, INC. ANNOUNCES AWARD OF US PATENT #7,229,041 FOR 4043T AND 5256T TRACKED PORTABLE IMPACT CRUSHERS

Pataskala, OH - Screen Machine Industries, Inc. delivers on the phrase "Made in America" with a patented design for their manufactured track mounted impact crushers that dramatically improves standards of safety and productivity. The new "Crusher Blockage Clearance Apparatus" feature has significantly reduced the industry-wide frequency for which laborers and machinery must clear bridged material in order to resume production. The multiple applications of oversize rock and c & d materials with which impact crushers have contended, have plagued jobsite production results since portable impact crushing began.

THE PROBLEM: The wide range of wheel loaders and excavators that load material to all brands of tracked portable crushers routinely deliver oversized or non-aligned material that clogs or bridges the inlet entrance to the crushing chamber.

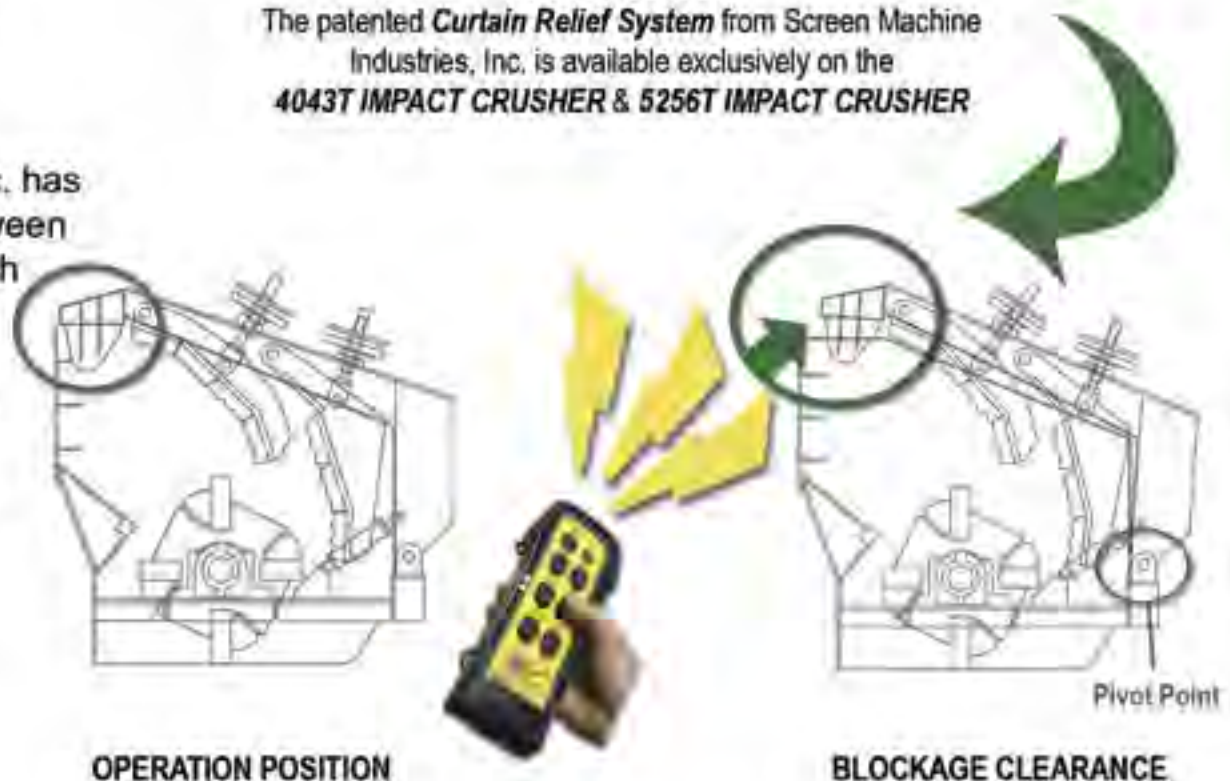
THE CONSEQUENCE: Jobsite crushing projects are brought to a halt due to material bridging within the crusher chamber inlet opening. Production stops while the crushing rotor and engine of the machinery must be shutdown for personnel with tools to safely clear the bridged material. Typically, pry bars, slings and hydraulic or pneumatic hammers are utilized to free the bridged material so that production may continue. Common to this process is the loss of 30 to 90 minutes per episode along with the loss of hundreds of tons of productivity - depending upon the severity. Safety of jobsite personnel is of paramount concern in this situation. Efforts to avoid the safety related concerns of manually clearing this bridging setback lead to further productivity woes. Loader operators will either slow the feed of their crushers to 50-75% of their "rated" capacity or spend an excessive amount of time pre-breaking the material into smaller sizes in an effort to avoid repeat bridging issues. Both methods significantly slow production output.

THE SOLUTION: Screen Machine Industries, Inc. has designed a remote controlled pivoting arrangement between the chamber lid and the chamber housing. With the push of a button, the lifting lid of the chamber will raise and lower vertically relative to the housing opening without having to shut-down the machine. This cycle creates a temporary increase in height permitting material that has bridged or obstructed the crusher opening to pass freely through the chamber, preventing costly down times and lost productivity. In this case, Screen Machine Industries, Inc.'s U.S. Patent # 7,229,041 guarantees the protection of this competitive advantage while delivering on two revolutionary feature-rich impact crushers.



THE CRUSHING INDUSTRY'S "PROBLEM"
 Manual clearing of bridged materials from the typical impact crusher resulting in loss of time, money, manpower and the potential danger imposed upon valued employees.

"THE SOLUTION"
 The patented *Curtain Relief System* from Screen Machine Industries, Inc. is available exclusively on the **4043T IMPACT CRUSHER & 5256T IMPACT CRUSHER**



OPERATION POSITION

BLOCKAGE CLEARANCE

US Patent #7,229,041

A Crusher Blockage Clearance Apparatus Featuring a Remote-Controlled Lifting Lid

The blockage clearance apparatus is linked so that the crushing chamber lid with attached anvils may pivot relative to the rotor.

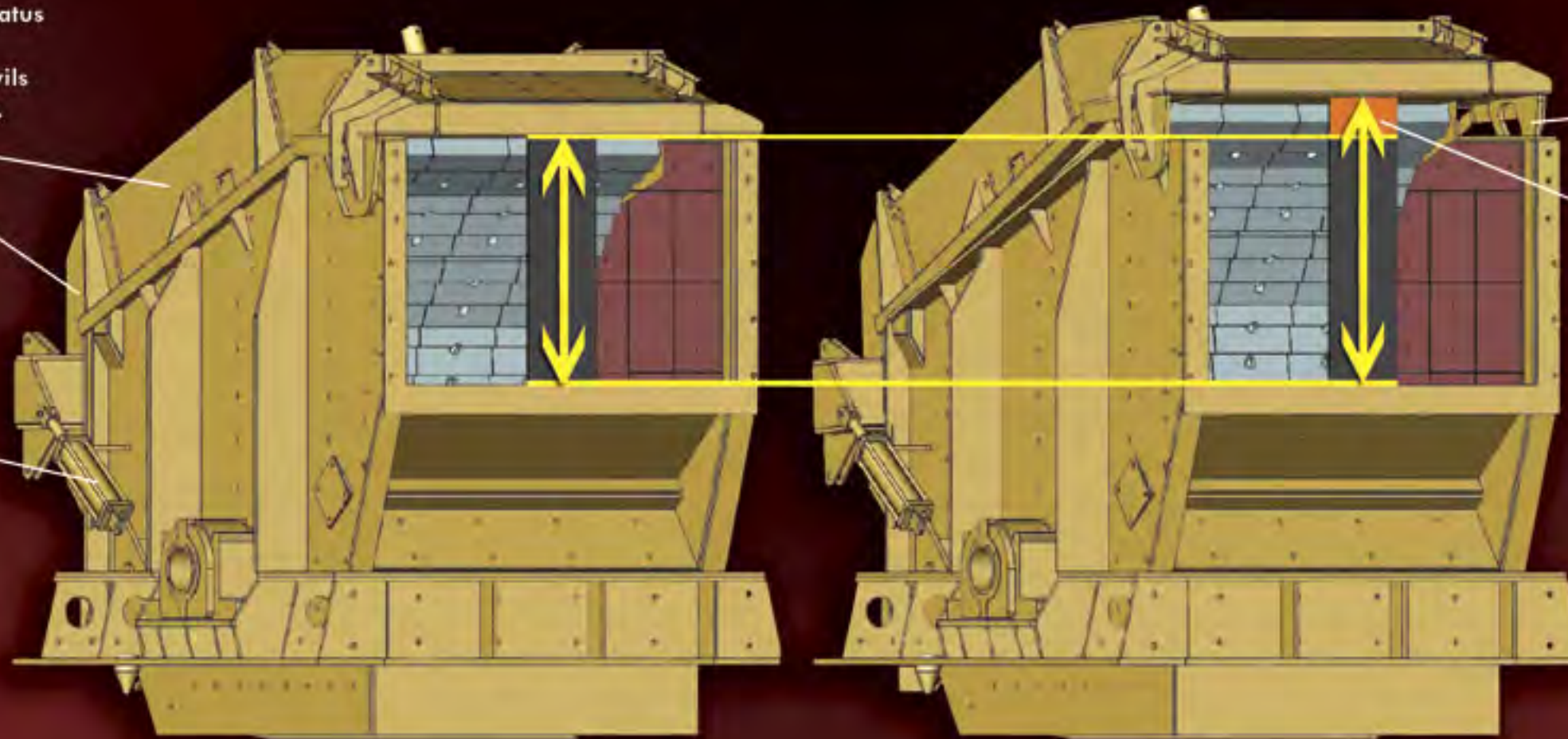
The two hydraulic cylinders serve as the prime movers, linking the housing and the lifting lid with its attached anvils relative to the rotor.

Multiple safety features are utilized, including sensors positioned near the lid for measuring the lid's position and limiting its upward range in motion while in a blockage clearance cycle.

The blockage clearance apparatus has a mechanical stop, limiting the range of pivot to the desired stroke.

The lifting lid's increase in height during this cycle will dislodge most bridged materials that otherwise would completely shut-down production for a significant period of time.

The length of the lid is guarded to restrict the potential discharge of material from the crusher chamber during a blockage clearance cycle.



5256T IMPACT CRUSHER

Operating Weight	119,000 lbs. (est.)
Power Plant	CAT C15 475 HP ACERT Tier III Diesel Engine
Crusher Inlet Opening	56" Wide x 38" High
Effective Inlet Opening with Lid Lift Feature	44" High
Production Range (est.)	250 - 650 Tons/Hr.



A wireless remote control device operates the activity of the chamber lift feature from the comfort of the loader cab or upwards of 300' away.



4043T IMPACT CRUSHER

Operating Weight	79,500 lbs. (est.)
Power Plant	CAT C9 300 HP ACERT Tier III Diesel Engine
Crusher Inlet Opening	43" Wide x 32" High
Effective Inlet Opening with Lid Lift Feature	38" High
Production Range (est.)	125 - 350 Tons/Hr.

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