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# Viva the Hypro-Crush® revolution!



On 15 June 1858, Eli Whitney Blake of New Haven was granted US patent No. 20,542 for a 'machine for crushing stone' – a magnificent design well ahead of its time. Since then, the same basic design principle has existed in all jaw crushers. But now it's time for a new jaw-crushing era. Viva the Hypro-Crush® revolution!

**T**his exciting new development comprises six models for different feed sizes, all said by developer Moore Watson Mineral Processing to overcome the problems inherent with traditional crushers.

The time is now to discover how the revolutionary Hypro-Crush® can raise your materials processing to uncharted heights while boosting your all-important bottom line.

**The remarkable Moore Watson Hypro-Crush® Model TJ12-18 Jaw Crusher**

The new crusher, weighing 45 tonnes has a feed opening of 1200mm x 900mm and will use a 160Kw electric drive motor, whilst the crusher discharge outlet is a massive 1800mm wide and based on a 100mm closed side setting, (desired but seldomly achieved on large primary jaw crushers) is designed to

crush 350 mtpb to minus 150mm material. Noteworthy is that this output is at 2.18 tons per Kw.

Compare this with a conventionally designed jaw crusher with a feed opening of 1200mm x 900mm, typically, these machines weigh from 26-30 tonnes and have an outlet discharge width of 1200mm, based on the same closed side setting of 100mm, it will produce 235 mtpb of minus 150 mm material at 1.4 tonnes per Kw.

The improvement in crushing efficiency, which is attained by many innovative design features, such as the tapered frame, suspended jaw stock and no drawback rod, significantly reduces the cost per tonne crushed. The down-stream benefits of less crushing stages and greater efficiency are designed to simplify the crushing process.

Moreover, a conventionally designed 76 tonne machine (1600mm x 1200mm) cannot be set to achieve minus 150 mm

crushed material, so will always need to be followed by a secondary machine. If the mobile contracting machine applications are considered, the fuel consumption savings alone will make this new machine highly competitive.

The output of minus 150mm material from a 1200mm x 900mm jaw crusher, shows a capacity increase from 235 mtpb to 350 mtpb which is a "game changer".

The Hypro-Crush® TJ 12-18 model Jaw Crusher, having a minimum 70mm and maximum 250mm closed side settings is only one example of a series of Moore Watson designs which cover the whole range of sizes and applications. "More than a hundred years of experience of hard rock crushing have gone into the new Hypro-Crush® series, for which patents are pending."

*Duncan McGregor  
Nicky Watson*

