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When you contact Fletcher, you know help is on the way. Even in an emergency, our parts department is available around the clock, seven days a week. After hours, just call our answering service at 304-529-9899 and one of our parts representatives will be notified. In most cases, we can provide 24-hour shipment on critical parts. In addition, when you buy your Fletcher machine, we'll provide a list of parts we recommend you stock in-house which will take care of most common problems. Tim George, George Smith, Tim Ramey, and Tiny Stewart offer years of experience with J. H. Fletcher & Co. and know how important it is to get your machine back into production.

The information contained in this newsletter has been obtained from sources believed to be reliable, and the editors have exercised reasonable care to assure its accuracy. However, J. H. Fletcher & Co. does not guarantee that contents of this publication are correct and statements attributed to other sources do not necessarily reflect the opinion or position of J. H. Fletcher & Co.

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Fletcher

**Product
Newsletter**



J. H. Fletcher & Co. UNDERGROUND MINING EQUIPMENT
INDUSTRIAL MINERALS DIVISION

www.jhfletcher.com

Issue 2

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Special Points of Interest

To meet the growing needs of our valued customers, J. H. Fletcher & Co. is expanding its warehouse by 11,400 square feet and adding an additional 18,000 square feet to the state of the art manufacturing facility. The expansions will provide additional warehousing and manufacturing space necessary for our coal mining and industrial minerals line of equipment. J. H. Fletcher & Co. expects both buildings to be in operation by December, 2005.

Electronic Feedback System Takes the Guesswork Out of Drilling

For the Fletcher Electronic Feedback System with roof mapping capabilities, the real time display is a valuable option. The display can be mounted in the cab of the roof bolter and is hardwired into the Drill Control Unit (DCU). The display is an environmentally sealed, rugged touch screen. The system automatically records and analyzes sensor data from each drilled hole, then void or separation locations and relative material hardness are displayed on the screen. The screen also displays the current date, time and hole number. The operator has the ability to scroll through and display archived data. The built in hard drive can store large quantities of data which can be downloaded onto any USB memory device and taken to another computer for analysis. In addition, the unit can be used to display parts books, service manuals and operator's manuals. Also available early in 2005 is a small plug in module called a Pendant Recorder. The recorder will plug into the 4 pin connector located on the face of the DCU-142 (Drill Control Unit). The unit displays the file name during drilling for the operator to note. The information can then be downloaded to a PC for analysis.



In Cab Display



Pendant Recorder

Jumbo Drills



Dual Boom Jumbo



Single Boom Jumbo



Face Drill with Lifting & Traversing Booms



Face Drill with Mast Carriage Mounted Booms



Single Boom Low Profile

In January 2004, J. H. Fletcher & Co. announced the purchase of equipment designs, drawings and goodwill from WDM technologies, LLC of Claremont, NH. This move extended the line of Fletcher industrial minerals (IM) division mining equipment to include single and dual boom face and bench jumbos and hydraulic rotary impact drills. Nearly a year later, the line is making a positive impact on the limestone industry with 7 Jumbos currently operating underground.

The Fletcher Jumbos are designed specifically for limestone mines and can efficiently drill headings as large as 60ft. wide (with the dual boom) and 35ft. high. Completely self contained, the diesel hydraulic Jumbo drills carry all fuel and pelletizing water necessary to operate a full 10 hour shift without service. These units provide the flexibility required to handle face, bench and roof bolting requirements.

Operator comfort is just as important as having a rugged machine. The operator's cab is ergonomically designed to provide unparalleled control, comfort and visibility. The cab includes a captains style seat and conveniently located controls along with standard air conditioning, heat, and filtered pressurizer. The cab can also be designed to achieve an 80 dba noise level. An optional cab lift system is available to lift the cab 18" for improved visibility.

Fletcher has a long history with other face drill designs still in use today. Used primarily in conjunction with undercut face blocks in salt mines, we have several face drill models with lifting and traversing booms. This drill has a centrally located operator deck from which both booms can be operated with maximum visibility. The booms can be easily maneuvered to allow the drilling of several holes from one chassis position. A dual boom face drill with mast carriage is also available and in use in many salt mines across the country.

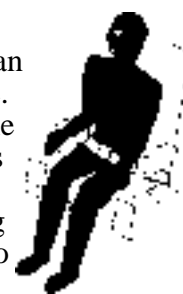
For general use, Fletcher manufactures a low profile single boom face drill. This drill boom can be maneuvered to practically any position for drilling.

Fletcher has long been in the business of designing and manufacturing equipment to meet the needs of the customer and their particular mining situation. This tradition continues with the Fletcher line of Jumbo Drills. Call today for more information.

SAFETY TIP

Wear your seat belt to reduce the potential for injury.
Three main reasons to wear a seat belt while operating Fletcher Equipment

1. Collision with another machine or stationary objects is possible.
2. Most hard rock machines are rubber tired and can bounce up and down on rough roadway surface. Not wearing a seat belt can lead to fatigue of the operator to stay properly seated in the operators seat.
3. The scaler could be jolted by a large rock falling on the boom. This could throw the operator into the cab.



Fletcher HVL Drills



Hard rock means just that, rock that cannot be efficiently drilled with a conventional rotary drill. When encountered, a rotary percussive drill is required and generally in rock mining, this is the norm rather than the exception. J.H. Fletcher introduced a new hard rock product line in 2000, including drill jumbos specifically designed for hard rock mining and tunneling applications. Though the complete drill jumbo incorporates a number of systems including a prime mover, motive power, positioning systems and a drill feed, it is the rock drill that actually does the work. Consequently, this is of prime importance as all other components or systems merely power or position this tool. The Fletcher drill jumbos use our HVL rock drills that are proving to be the choice for mining and construction companies.

The HVL series of rock drills are all valveless design rock drills, permitting higher frequencies and with more output power for faster, more cost effective drilling. Our engineers pioneered this concept over thirty years ago and J. H. Fletcher & Co. has continued to

refine and improve the design. Throughout this time and after millions of drilled footage, the Fletcher HVL series drills are a culmination of this work. The HVL rock drills are the most productive and cost efficient rock drills available.

In most drilling situations, a higher frequency delivers a faster penetration rate. Fletcher HVL drills, with the high frequency design, continually deliver drilling performance unequaled by competitive units.

With this design we have eliminated the need for valves, making the drills simpler and considerably easier to maintain. By eliminating the valves, this also eliminates a major problem with other rock drills, the accumulators. Historically, these had to be recharged and replaced on a regular and costly basis. Also with a valved drill, a defined time frame has to be followed to reseal or rebuild the percussion section or reduced performance and possible catastrophic destruction can result. The HVL series drills have no reseal interval and cannot self-destruct providing a considerably extended time before a

rebuild is needed.

A four-bolt front head assembly positions the female striking bar and rigidly holds the striking bar in place improving the striking bar and accessory life and eliminating one joint in the drill string. Effective drilling requires efficient hole cleaning and the HVL drills incorporate a four seal, flushing head as part of the front head assembly. This eliminates a water tube through the drill with it's possible oil contamination and with it's improved, oversized seal configuration, allows for using higher pressure water or an air/water mix to efficiently clear the cuttings from the bit face and eject them from the hole. This also contributes to faster drilling and leaves a better hole for the powder crew.

The HVL series rock drills with their improved design require little maintenance and other than simply replacing the flushing seals have run for over a year without any rock drill downtime. However, when the drills do require a rebuild, J.H. Fletcher has a fully equipped rebuild facility for fast turnaround and at a comparatively low rebuild cost.

For more information on Fletcher HVL rock drills, contact us today at 304-525-7811.