

UNDERGROUND MINING EQUIPMENT INDUSTRIAL MINERALS DIVISION *Product Newsletter*



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Special Points of Interest

Customer Support

Maintenance Tips
**Checking turntable
bolts.**

**Newsletter
Subscription**

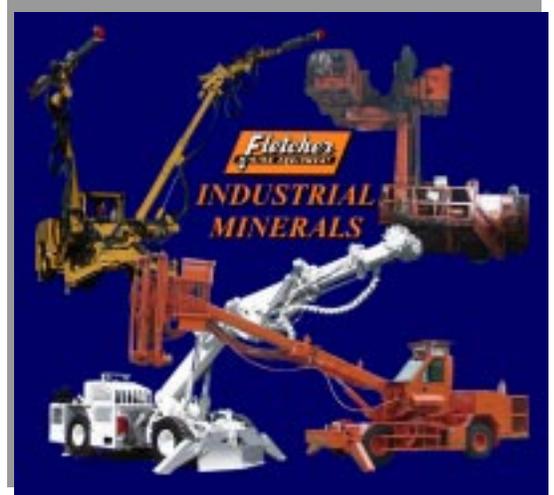
J. H. Fletcher & Co. plans to send copies of this newsletter electronically in the near future. If you wish to receive the newsletter via e-mail, please fill out the form on page 4 and include your e-mail address. Please mail this form to J. H. Fletcher and Co., P.O. Box 2187, Huntington, WV 25722-2187

Welcome to the first issue of the J.H. Fletcher & Co. Industrial Minerals Newsletter. Fletcher, a leading manufacturer of underground mining equipment, is taking steps to provide the industrial minerals community a viable alternative in manufacturers of underground equipment. Located in Huntington, West Virginia, J.H. Fletcher & Co. has been in operation for over 65 years. We offer quality machinery, aftermarket parts and a qualified sales and service staff that can assist you in the field.

This newsletter has been prepared to familiarize you with our wide capabilities and who you may contact for additional information. Once you have reviewed our newsletter, if you desire future copies, please e-mail us at jhf@jhletcher.com or mail the free subscription form on the back of this newsletter to J.H. Fletcher & Co., Box 2187, Huntington, WV 25722-2187. In addition, we plan to have the newsletter available for download from the Fletcher web site. Future issues will contain information about our products, changes to our designs, maintenance tips, and additional information we believe will be of value to your business.

Customer support after the product is shipped has always been paramount at J.H. Fletcher & Co. For sales, service, and support for our industrial minerals division, please contact one of the following Fletcher personnel:

1. Billy Goad, Manager, Rock & Industrial Mineral Products (304) 525-7811, Ext. 227, e-mail address bgoad@jhletcher.com;
2. Tim Werner, District Sales Manager—North Region, which includes the states of Pennsylvania, West Virginia, Northern Indiana, New York, Ohio, and Canada. (724) 439-4782, e-mail address twerner@jhletcher.com;
3. Bob Miller, Service Manager, Rock & Industrial Mineral Products (304) 525-7811, Ext. 414, e-mail address bmiller@jhletcher.com;
4. Don Sexton, District Sales Manager—South Region, which includes the states of Kentucky, Alabama, Southern Indiana, Iowa, Missouri, Nebraska, and Georgia. (304) 525-7811, Ext. 413, e-mail address dsexton@jhletcher.com; or
5. Jeremy Sovine, Inside Sales Assistant (304) 525-7811, Ext. 5211, e-mail address jsovine@jhletcher.com.



INDUSTRIAL MINERALS EQUIPMENT

J.H.Fletcher & Co. has manufactured Industrial Minerals and Rock equipment since the 1960s. This equipment has been successfully operated in numerous mines throughout the United States and Canada over the last 40 years. Below are photographs of some of this equipment along with information about their capabilities. For additional information on this equipment or on specially designed units, please contact Billy Goad, Manager of the Industrial Minerals Department at (304) 525-7811, Ext. 227 or via e-mail at bgoad@jhfletcher.com.

3200 Series

3200 is the number designation for the Fletcher line of scaling vehicles. The second two digits in the number will represent the maximum reach. In addition a letter designation makes up part of the model number. The Fletcher scalers are quite versatile in that they can be equipped with various heads depending on the needs of the mine.



Cutter Drum



Hammer



Pick

3400 Series

3400 series applies to Face Drills. As with the scalers the second two digits in the model number stand for the maximum reach. Face drills are available in single or dual boom models.



3600 & 3700 Series

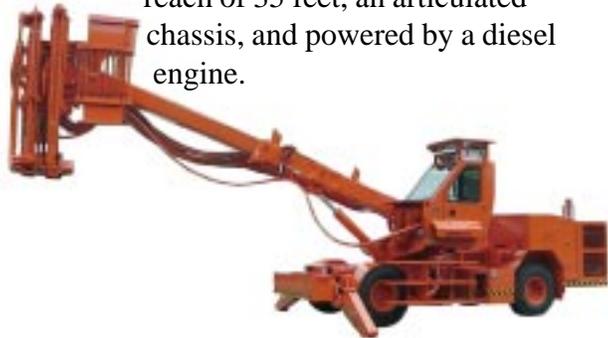
3600 and 3700 series make up the line of powder loaders. The 3600, seen pictured below, is the fork lift style and the 3700 is a boom style. As with all of Fletcher's equipment, machines are customized for each individual mine.



INDUSTRIAL MINERALS EQUIPMENT *continued*

3000 Series

3000 is the designation given to our remote operated roof bolters, previously called ARR-D. The machine pictured below is a 3035 AD. This is a remote operated roof bolter with a maximum reach of 35 feet, an articulated chassis, and powered by a diesel engine.



3100 Series

3100 is the designation given to our man-up roof bolters, previously called AR-D. The machine pictured on the left is a 3135 AD. This is a man-up roof bolter with a maximum reach of 35 feet, an articulated chassis, and powered by a diesel engine.



3800 Series

The 3800 series makes up the line of Fletcher Specialty Tractors. These can be configured in many different ways to meet the needs of the specific installation.



DRILLING FEEDBACK CONTROL SYSTEM

Fletcher DCU 142 microprocessor control system has been developed to optimize drilling. The system features drill thrust, drill rate, drill torque, and drill rotation control. The DCU 142 software provides rotation anti-jam and void detect to promote bit life. The system is available with vacuum monitoring or water monitoring. Both methods of drill hole flushing allow feedback to further control the drilling parameters. These features combine to optimize drilling.

Fletcher DCU 142 microprocessor control system has been developed to optimize bolting. The system allows mechanical bolts to be set to predetermined torques without hydraulic adjustments. The desired bolt tightening pressure is set by the DCU 142 menu. The system also provides resin-bolting consistency by spinning and holding each bolt to the resin manufacturer's recommendations.

The DCU 142 provides a recording option which allows drilling parameters to be recorded for later review. The recordings can define voids or separations in the mine top as well as drill thrust, drill rate, rotation pressure and flushing levels (water pressure or vacuum inHg). The plug in recording device will

store in excess of a shift's drilling information. The device is then taken to a laptop and downloaded for review.

The system offers switch checks as well as sensor checks to aid with machine maintenance. A list of maintenance codes will be displayed on the face of the DCU to allow easier troubleshooting. The system also monitors the Fletcher / Pall hydraulic filter condition.

The J.H. Fletcher drilling feedback control system is covered by U.S. Patent No. 6,216,800 and pending U.S. Patent Application No. 20010050186, other U.S. patents pending.



DCU 142

MAINTENANCE TIPS: CHECKING YOUR TURNTABLE BOLTS

Most drills and scalers are provided with the ability to rotate 80 degrees to access the roof with the boom. The turntable, located on these machine, must be inspected regularly (weekly). By regularly checking this component on your equipment, you can maintain the integrity of the turntable and prevent the possible separation of the cab from the chassis. While we are unaware of any instances of separation, we do encourage regular inspections of this area. The operator should:

1. inspect all the turntable bolts and screws for
 - a) grade used, b) fatigue, and c) inspect attachment;
2. make sure the bolts are properly torqued; and
3. make sure the turntable is adequately greased.

Information on the torque procedure for the bolts and the grade of bolts you use on the turntable are located in the Fletcher Parts Book. Please provide this information to your maintenance personnel. This tip could prevent expensive repairs and the separation of the cab from the chassis, which could result in a catastrophic failure.



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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COMPANY _____

Name _____

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Address _____

City _____ State ____ Zip _____

E-Mail address _____

J. H. Fletcher & Co.

Box 2187

Huntington, WV 25722-2187

(304) 525-7811