

Fletcher

Product
Newsletter



J. H. Fletcher & Co.

UNDERGROUND MINING EQUIPMENT
INDUSTRIAL MINERALS / ROCK DIVISION

www.jhfletcher.com

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Narrow Vein Drill Jumbo Introduced at Mine Expo 2008

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Special Points of Interest

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



J. H. Fletcher & Co. has long been known for designing machines to meet specific mining applications or needs of the customers. When a customer approached us about needing a narrow machine to drill the face in a copper mine, Fletcher met the need by designing the J-151 DE Narrow Vein Drill Jumbo.

At just 5'8" wide and 22' length (*chassis only*), the J-151 is the narrowest jumbo Fletcher has manufactured to date. The compact size, along with the articulated chassis, allows the jumbo to tram and set up in tight headings, circular ramps or cross-cuts.



The small size doesn't sacrifice productivity though. The J-151 is capable of drilling in headings from 10'x10' up to 24' wide by 20.5' high in one carrier setup. Operator comfort and ease of operation were also major considerations in the design. The operator sits in a fully enclosed, sound suppressed, MSHA certified cab with excellent visibility for both drilling and tramping. The cab can include an optional air conditioning/heating system that uses HEPA filtration for both the introduced make up air and the recirculated interior air. (All controls are conveniently located for comfortable operation from the standard captains style seat, and joystick operated drill feed and boom controls simplify and improve hole to hole position-

ing.) Servicing the jumbo is quick and easy with all normal service items, including air and hydraulic filters, located on the outside of the machine. In addition, the diesel / electric power makes for a dependable and efficient power plant. Fletcher continues to offer solutions for the industrial minerals / rock industry. For narrow vein limestone, copper or gold mines the J-151 DE may just be the machine to meet your drilling needs. (Call a Fletcher sales representative today to talk about the needs of your mine and and how J. H. Fletcher & Co. can meet those needs.

DAILY TESTING YOUR BRAKES

IT'S IMPORTANT

All Fletcher industrial mineral machines are equipped with two braking systems – a park brake and a service or emergency brake. It is vital that both of these braking systems be tested daily for proper operation before putting the machine in service.

The park brake is tested by starting the machine, setting the park brake, and then attempting to tram through the brake. If the machine does not tram through the brake, the park brake is considered to be operating properly.

The service/emergency brake requires two tests. The first test involves releasing the park brake, engaging the service/emergency brake, and then attempting to tram through the brake. If the machine does not tram through the brake, the brake is considered to be operating properly. However, the service/emergency brake accumulators must also be tested. This is done by shutting down the machine and then pumping the brake control through five complete cycles. If, after five complete cycles of operation, the brake pressure gauges still indicates at least 1,000 PSI pressure, the service brake accumulator system is operating properly.

One exception to the service/emergency brake system test is the Model 3250 Scaler. This machine

has a different braking system and requires that the service brake be set only by depressing the brake pedal, and then attempting to tram through the brake. If the machine does not tram through the brake, the brake is considered to be operating properly.

If a machine does not pass a brake test, the machine should be shut down and the brake repaired before placing the machine into service.

Information concerning brake operation and testing is contained in the *Operator's Manual*. However, if you have any questions or need any further assistance, please don't hesitate to contact our Risk Management Department (304-525-7811 or dcooper@jhfletcher.com).



Example of Park Brake Switch

Maintain a Clean Machine

There are several routine maintenance procedures that are listed in the service and operator's manuals for your Fletcher equipment. One that is too often ignored is "house keeping". Keeping the machine covers, walkways, operator's cab, and other areas clean and free of debris is your defense against slips, trips and falls. In addition, moving parts could become obstructed with tools and materials and become serious hazards to personnel as well as cause damage to the machine.



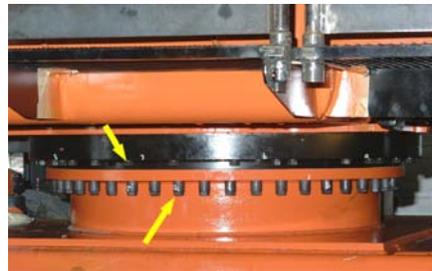
Guard for Turbo Charger

Even though Fletcher has taken steps such as installing guards in the location of turbo chargers and other hot components, as seen in the photo, you should always clean up any spills that may occur while carrying out maintenance tasks. Oil, fuel, water or any other debris

could become a slip hazard or even a fire hazard if not cleaned up. Take the extra time each day to clean up debris and make sure guards are in place.

Properly Torque Slew Assembly Bolts

Many of the Rock and Industrial Minerals machines are designed in such a way that the boom, or at times the entire chassis, is mounted on a large, heavy duty turntable. Proper turntable maintenance is extremely important and will reduce damage to the equipment and the potential for injury to those working around the machine. Complete instructions are located in your maintenance manual. However, the main concern in this area is for the



bolts to be properly torqued. The manual illustrates how to use a star shaped tightening sequence when tightening the bolts and lists the proper torque for the bolts.

The bolt torque should be checked monthly. In addition, the turntable should be properly greased according to the instructions in your lubrication diagram.



FLETCHER INNOVATES!

J.H. Fletcher & Co. has long been a leader in the development of roof bolting technology, having secured U.S. Patent protection in 1957 for one of the earliest mobile roof drills for use in roof bolting applications. With the benefit of the head start afforded by the company's founders and pioneering inventors, our engineers have since made significant advances over the following half-century to help preserve our status as a preeminent manufacturer of the highest quality mining machines. Although our valued customers directly receive the significant benefits of our innovations in the field, most of the company's research and development activities occur behind the scenes. For this reason, Fletcher is pleased to share news that many of its recent innovations have resulted in issued U.S. patents over the past several years. These include U.S.

Patents for the following inventions:

- 7,438,141 – a drill steel carousel for delivering different starter and finisher drill steels.
- 7,428,937 – a novel, space-saving gripper with pressure sensitivity for manipulating drill bolts/steels.
- 7,428,936 – an automated, low-profile bolter of particular benefit in low seam height applications.
- 7,428,935 – a manual bolt magazine, elegant in its simplicity, and having a low profile to save space.

7,416,033 – an instrumented drill head for wirelessly transmitting information to a remote control unit.

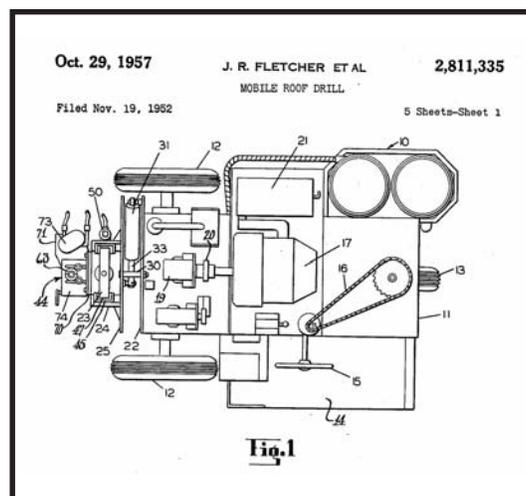
7,381,012 – a novel way of "collaring" a borehole to ensure drilling success, even at steep attack angles.

7,371,009 – a split grib drill head mounting arrangement that reduces wear and facilitates repair.

7,350,876 – a panline drilling or bolting unit that can also be used with a shield hauler.

6,637,522 – enhanced control of a drilling system to maximize bit penetration and minimize wear.

6,216,800 - a novel drilling system with dust collection and overload control. Fletcher also has filed many counterpart patent applications in foreign countries active in mining, including Australia, South Africa, and Poland.



In addition to protecting its own innovations, Fletcher is also mindful and respectful of the innovations of others, including those protected by way of patent. Toward this end, the company has adopted a program for periodically evaluating U.S. applications and issued patents for competitive technologies.

If you have any questions regarding any aspect of the company's patent portfolio, please feel free to contact Dave Cooper at (304) 525-7811.

Personnel Update

Fletcher Service Inc.



Brad Parks has joined the Fletcher Industrial Minerals / Rock Division as a field service representative. Brad has been with J. H. Fletcher & Co. for many years in various capacities. With his engineering background and his computer and electrical knowledge, Brad is a valuable addition to the division. Brad is based in Huntington, WV

but spends a great deal of time on the road taking care of our customers service needs.



It is extremely important when you purchase a piece of production equipment that unexpected "down time" is limited. However, required maintenance on your Fletcher equipment does not have to interrupt your production objectives. J.H. Fletcher & Co. now provides maintenance services through Fletcher Service, Inc. This company's purpose is to provide timely audits on Fletcher equipment to identify areas that require attention and prevent un-scheduled down time. Fletcher Service Inc., can provide you a cost effective audit program on your Fletcher equipment and perform needed repairs before a problem turns into lost productivity. Through a planned audit program, you can always keep ahead of required maintenance issues on your equipment. If you are interested in this service, please call Mike O' Leary, Sales Manager in our Industrial Mineral Department. You can email Mike at moleary@jhletcher.com

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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