

Fletcher® Product Newsletter



**J. H. Fletcher & Co. UNDERGROUND MINING EQUIPMENT
METAL / NON-METAL DIVISION**

www.jhfletcher.com

2015 Issue 1

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Fletcher Powder Loader

Fletcher 3730-AD Powder Loader



J.H. Fletcher & Co. has long been established as a custom mining equipment company. It is from joint customer ventures that Fletcher has developed much of the equipment available on their product line today. With the design and build of custom equipment, Fletcher is able to address many issues faced in underground mining, and create new solutions every day. The Fletcher Powder Loader, Model 3730-AD is an example of Fletcher's cus-

tom engineering.

The Fletcher Powder Loader was essential because many mines are troubled with purchasing existing equipment and adapting them for underground usage. This can result in loss of time, money and sometimes an unsafe work condition. An existing customer presented Fletcher with their need for a specialty piece of equipment that would resolve issues currently faced by their charging crews, provide high coverage, and equipped to carry enough supplies for an entire shift. With the success of their existing drill jumbos, they expressed the importance of having a similar design.

The 3730-AD was engineered to resolve issues faced by the charging crews. One of the key objectives was to address industry requirements on noise exposure levels. Operators are provided protection from noise levels in an ergonomic, sound suppressed cab. To relieve noise levels for charging crews, Fletcher created one of the quietest running machines available. Fletcher was able to lower DPM levels by use of a load sense hydraulic system and a forward facing engine blowing air away from the heading. Engine RPM regulates based in air pressure demand, lead to quieter headings, better operator communication and low fuel consumption.

With lower fuel consumption, the 3730-AD uses less than 15 gallons per shift, making it one of the most efficient loaders available. Pairing this with a 6000 lb. ANFO capacity, the 3730-AD can efficiently operate for an entire shift without the need to return to the permanent explosives magazine. Adding to its efficiency is a 1.5" ANFO hose for improved speed of hole loading and the need for a second tractor is eliminated by two large day boxes.

The 3730-AD is designed for ease of maintenance and lower costs associated with upkeep. Access to most valves is greatly improved by Fletcher's design incorporating most of the valves on the outside of the ma-



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chine. Additional covers around main valve mounting areas along with all ANFO output constructed of stainless steel help provide protection from anfo spillage. A fully painted machine, including all valves, aids in preventing ANFO created corrosion.

The basics of the 3730-AD, include a 30' high by 50' wide coverage per set up. The machine is equipped with a 180 degree boom swing, which can be controlled from either the basket or ground controls. A power shift transmission comes standard on all machines, with top speeds of 10-12 mph. The Fletcher Powder Loader, Model 3730-AD is but one example of a customer venture that makes up Fletcher's product line. Fletcher is able to exemplify their core principles by working directly with customers to create custom machinery to better serve the industry. Fletcher maintains the goals set by its founder: to manufacture equipment for underground mining that increases safety and production through engineering innovation, quality control, experienced service and ownership stability.

OIL FILTRATION IS IT IMPORTANT?

Regardless of the environment your machine operates in, contamination will find its way into the hydraulic system and, if un-checked, will result in overheating of your entire machine. Thus, it is essential that the filtration system is properly maintained.

J. H. Fletcher & Co. has spent the past year reviewing the hydraulic filtration programs that have been used on previous machines. During this time, we have found areas that we felt could be improved. We have recently partnered with Schroeder Industries to provide a higher quality system that is designed specifically for the underground mining market.

Improvements to our hydraulic filtration system consist of, but are not limited to:

- Robust piston style bypass valve with no aluminum or stamp pressed parts
- Unique shaped filter seal to ensure the correct OEM filtration level is maintained
- Externally threaded cap
- Thermal lockout on dirt indicator preventing false cold oil trips
- Pressure and return filters use the same element which will prevent the need to stock multiple elements



If you have any questions, on the filter system you are using, please call Jeremy Raines at J.H. Fletcher & Co.

Fire Suppression

A fire system on J.H. Fletcher & Co. equipment provides fire suppression when there is a possible fire. On metal – nonmetal machines a variety of fire systems can be purchased to suppress a fire on your equipment. These fire suppression units could include one, or any combination of the following fire systems:

1. A hand held fire extinguisher usually located in the cab for easy operator access. To operate, the user must be knowledgeable on how to use a hand held extinguisher and where to point the fire extinguisher. Drawbacks to this system are, not being trained how to use the system and a limited amount of chemical in the tank to fight the fire.

2. A manual actuation dry chemical fire system. When activated, by removing the pin and pushing down on a red actuator, the tank will release the fire suppression powder through a series of hoses to designated potential hot spots on the equipment.

3. A wet fire suppression system. The wet agent provides both fire suppression and superior cooling of superheated surfaces (like diesel turbos and exhaust manifolds) while blanketing the fuel and cutting off oxygen to help prevent reflash. It flows readily into hard-to-reach areas

along the same path flammable liquids may have flowed. The wet chemical agent provides a strong measure of freeze protection along with the foaming properties associated with conventional Class B liquid agents.

The dry system and wet system can be used together as a twin agent system. These systems can be controlled by an automatic detection and actuation system. The automatic system doesn't require an operator to activate the system. The system can detect a fire utilizing any combination of: Linear Detection Wire, Thermal Spot Detectors, or Infrared Detectors. When a fire is detected, the system will automatically activate and release the fire suppression agents through a series of nozzles to the protected areas of the machine.

Each one of these systems has benefits, and under certain conditions, one may have a slight benefit over the other. But the automatic system takes the employee out of the decision when each second may be the difference between an injury or damage to a very expensive machine. Fletcher has successfully provided the certified automatic system on numerous metal –nonmetal machines.

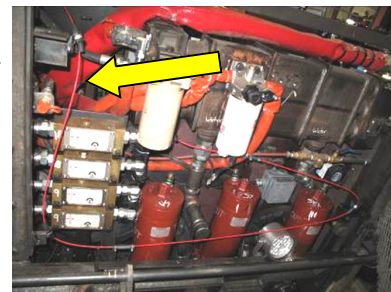
With regular maintenance and training as specified by the manufacture, all systems will work when required.

For additional information on all these systems, review

your (service) manual or contact your Fletcher sales manager. Through new technology the automatic fire system is available on all Fletcher equipment. Fletcher recommends you update to this system when purchasing your next machine from us.



Manual Actuator



Automatic Fire System Showing Detection Wire

Elko Mining Expo



In June 2015, J.H. Fletcher & Co. was set to make its first appearance at the Elko Mining Expo located in Elko, Nevada. Over the years, Fletcher has set itself apart from competition by working directly with customers for not only a customized experience, but a personal one. Upon hearing several customers could not make it to the Elko Mining Expo, Fletcher loaded up their newly built N3112-AD/E Narrow Vein Roof Bolter and hit the road. The pit stop would be ten hours off track, and something most larger corporations would not have the desire to accommodate. Fletcher arrived in Wallace, Idaho a couple of days prior to Elko Mining Expo.



After making arrangements, Fletcher was able to exhibit the N3112-AD/E across from the Wallace Visitors Center. Once there, several companies were able to come out and meet with Fletcher personnel and have a full hands-on experience with the narrow bolter. With the machine fully operational, interested parties were able to get a feel for the 4.5 foot wide machine, the functionality of tramming and the flexibility offered with drilling and bolting. This bolter was customized to the region, designed specifically to replace jacklegs and place operators in an improved environment. The machine is equipped with a collapsible drill mast and the ability to install any length and type of ground support. It can reach back that is 14ft high and fit in a drift that is 6.5 ft wide.

The machine was then transported to the Elko Convention center for display at the Mining Expo. Fletcher was excited to be a part of the 2015 show, and looking forward to growth and development within the Metal/Non-Metal Market.

Contact Fletcher for more information on the N3112-AD/E or visit our website, www.jhfletcher.com, to see our entire product line.



Western U.S. Regional Manager



Steve Nye joined J. H. Fletcher & Co. in 2014 as Regional Manager of the Western U.S. district.

Steve is a 1992 graduate from the University of Utah with a degree in Mining Engineering. In his 22-year career, Steve has held a variety of positions within the mining sector, including work with Shell Mining, Arco, and Arch Coal Company.

In 2007, Steve became Dwidag Systems International's U.S. Sales Manager responsible for the sales and growth of underground roof support products. Steve later became the Operations Manager for Strata Worldwide's growth and infrastructure development for the Western US and Canadian mining industry.

We are happy to have Steve as part of the Fletcher sales team.

Merchandise

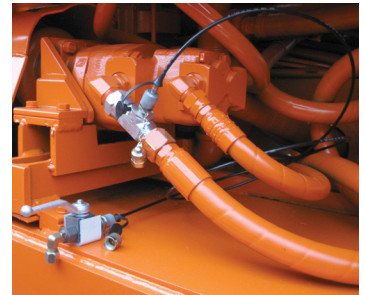


J.H. Fletcher is excited to announce the launch of their online store. The store can be accessed through Fletchers website: www.jhfletcher.com. The merchandise line currently includes branded hats, shirts, and stickers. Fletcher hopes to expand the store's product line in the near future and as always, is open to customer suggestions.

Fluid Sampling Kit

Optional for new machines, J.H. Fletcher & Co. now offers a fluid sampling kit as an aftermarket product, which can be installed on any machine.

This kit is item #414762 and can be ordered by calling Fletcher Service or an authorized distributor.



Information on job opportunities and how to apply can be found on our website: www.jhfletcher.com
(AA/EEO Employer)

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Published by J. H. Fletcher & Co.
Box 2187
Huntington, WV 25722-2187
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