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J.H. Fletcher & Co. appreciates you sending us E-mail and answering our web site survey. However, if you are sending in E-Mail requests, we ask that you provide us the following information: NAME, A FULL ADDRESS, PHONE NUMBER, AND YOUR E-MAIL ADDRESS. PLEASE ADDRESS YOUR E-MAIL TO: dcooper@jhfletcher.com

## *Fletcher Delivers Automation to Poland*

J. H. Fletcher & Co. has developed an automated roof bolting module low enough to work in seams just 1.6m (63”) high, that allows the operator to drill and install five bolts without leaving the air conditioned operator’s compartment. The unit drills and bolts with the touch of a single button.

Installed in the Polkowice-Sieroszowice copper mine near Lubin, Poland, the new machine stands just 1.5m (59-1/8”) high when roller verticle. The operator moves the module into place, raises the mast to the roof, and sets an active stabjack. Once positioned, he presses one button. The module is programmed so the hole is drilled with a starter steel, followed by a finisher steel. A mechanical arm then removes a 1.2m (47”) bolt from the carriage and places it over the drillhead. The drillhead inserts it into the hole and tightens it to the proper torque. A monitor inside the compartment allows the operator to view a graphic that shows each step of the operation.

The project was a joint development of Fletcher and Boart Longyear, which built the chassis, carrier and cab. Fletcher has a patent pending on the overall drilling/bolting module.

“Our biggest challenge was to build a module that would keep the operator out of the extreme temperatures within this mine, yet low enough to install 4-foot bolts in a 63” height,” said Greg Hinshaw, Fletcher’s Chief Operating Officer. “This is a demonstration of Fletcher’s focus, which is to bring the newest technology right into the compartment for the operator to use.”

For more information about this project or other Fletcher developments, contact Ben Hardman at 304.525.7811, or [bhardman@jhfletcher.com](mailto:bhardman@jhfletcher.com).



*Automated Drill Module*



*Control Station*

## Gauge Kit

J. H. Fletcher & Co. is now making available a Gauge Test Kit (*part no. 300898*) for use on equipment with load sense pump control systems. A gauge differential pressure kit, gauges, couplings, adapters, gauge hoses, gauge adapters, and tool box are included providing all of the items necessary for trouble shooting and setting system pressures on Fletcher equipment. The gauge test kit can be ordered from the Fletcher Service Department by calling 304-525-7811.



Gauge Test Kit 300898

## Contact Cleaning Kit

When zero volume connectors, such as the ones used for electrical switches and solenoid connections, become dirty or corroded the results are a poor connection and possible failure of the components. The Fletcher service department can provide you with a contact cleaning kit containing all of the supplies required to properly clean and maintain these crucial connections. The kit can be ordered by contacting our service department and ordering part number 300899.



Typical zero volume connectors

Contact Cleaning Kit Part No. 300899

## Retirement



After 28 years with J. H. Fletcher & Co., Sales Manager, Bill Ellis will be retiring at the end of 2006. Bill has been a valued part of the Company and well respected in the mining industry. Look for an article about Bill in the December

issue of *Coal People*.  
**Congratulations Bill!**

## Proper Torque Reduces Damage and Leaking

If not properly secured, hose connections can leak and possibly be damaged leading to inefficient machine operation and reduced machine life. To assist maintenance personnel, our Quality Control Department has developed the chart below showing the minimum and maximum torque to be used when connecting Manuli Hose with JIC hose ends.

For quality control issues, contact Mark Endicott at 304-525-7811.

### MANULI HOSE TIGHTENING CHART

#### JIC HOSE ENDS

Tighten hose end only one time. The connection should be dry. Make sure the hose is secured so that the hose end does not move (rotate) on the adaptor while tightening. This reduces the chance that the part of the connection that engages (the JIC taper) does not do any damage to itself that may cause a hydraulic oil leak.

Hose I.D.	Minimum Torque	Maximum Torque
1/4	1-1/2 Hex Flats	4 Hex Flats
3/8	1 Hex Flat	1-3/4 Hex Flats
1/2	1/2 Hex Flat	1-1/2 Hex Flats
3/4	1 Hex Flat	1-1/2 Hex Flats
1	1/3 Hex Flat	1 Hex Flat
1-1/4	1 Hex Flat	1-1/2 Hex Flats
1-1/2	1 Hex Flat	1-1/2 Hex Flats



# Panline/Utility Bolter

For decades, longwall mines have struggled to efficiently control roof and face while moving equipment. Now, Fletcher offers dual-purpose single- and dual-head panline bolters. During moves, the bolters are attached to the panline and are used to secure inby roof and face. Between moves, the bolter can easily be attached to a shield mover and then used as a utility bolter.

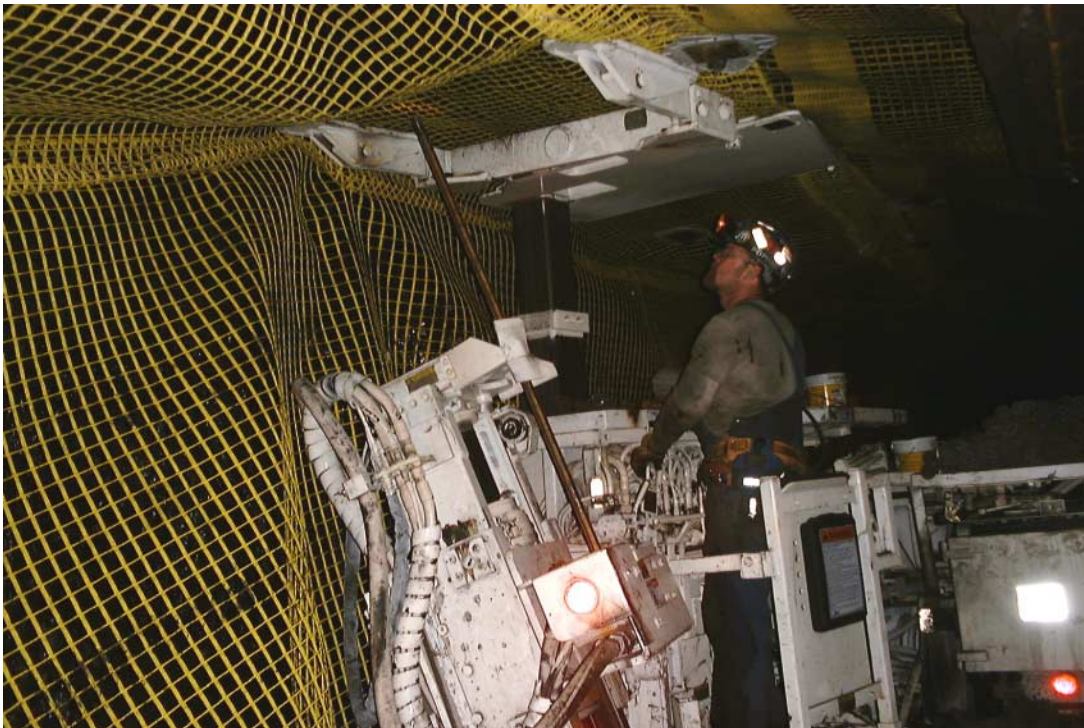
In Panline mode, the machine is supplied hydraulic pressure from the longwall shield and has a tram system similar to that of the shearer. The customer supplies the trapping shoe, sprocket for trapping shoe, and the drive sprocket. Fletcher then modifies the drive sprocket to fit on the hydraulically driven planetary gear reducer.

When used as a Utility Bolter, hydraulic power is supplied by the shield mover.

The Fletcher Panline/Utility Bolter is rugged and versatile and can help the mine make the most efficient use of its capital expense dollar by offering a multi use piece of reliable mining equipment.



*Bolter attached to shield mover*



*Bolter on panline*

# Maintenance Q & A

# District Sales Manager

**Q.** If my radio remote for the Mobile Roof Support or remote operated bolter cannot be repaired, can I use another brand?

**A.** J. H. Fletcher & Co. does not permit using another brand radio. Alternative brands of remote radios other than the remote control radio that J. H. Fletcher & Co. has issued with the machine will void the MSHA certification. The use of an unauthorized radio remote could also lead to potential operator hazards.



Radio Remote



**Wise VA.**

*Tim Martin, who joined J. H. Fletcher & Co. in 2005 as a service representative for the southern district, has been named District Sales Manager serving South West Virginia, Eastern Kentucky, and Alabama. Tim takes Pat Damron's place who has been moved to*

*District Sales Manager for Southern WV*

*Before coming to Fletcher, Tim gained 15 years experience in surface and underground machine maintenance and was formerly a maintenance foreman and chief electrician.*

*Tim is a strong addition to our sales team.*

**®** J. H. Fletcher & Co. has registered "Fletcher"® as a registered trademark, giving the company a specific identification for its products. When you see the trademarked name on your new or rebuilt parts, you can have confidence you are receiving genuine OEM components.

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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