



Inside

Page 2

*Arm Feed
Boom Guard*

Page 3

*Drillhead
Alignment*

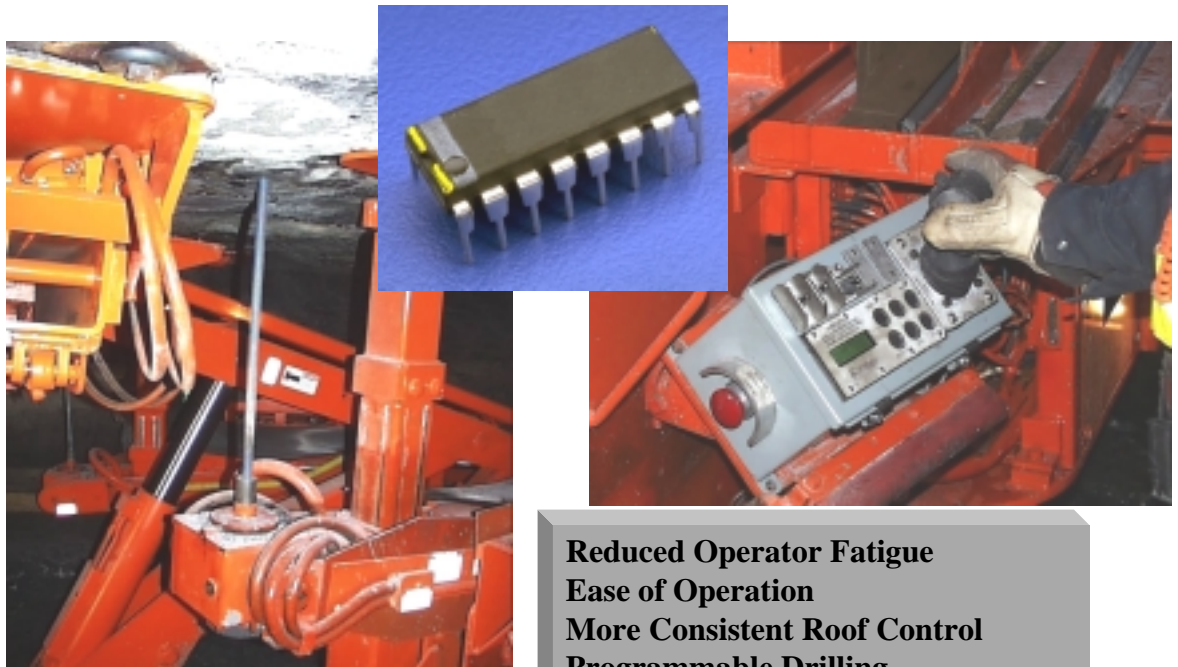
*Using Proper
Tools*

Page 4

*New District
Sales Manager*

Website

What Happens When A Micro-Processor Is Placed Between The Drilling Control Handle And Drillhead?



Reduced Operator Fatigue
Ease of Operation
More Consistent Roof Control
Programmable Drilling
Reduced Bit Wear and Steel Damage
Modular Exchange
Built In Troubleshooting

The future of roof bolting technology is here today. J. H. Fletcher & Co. along with Structured Mining Systems has developed a Feed-Back drilling system. The Fletcher Feed-Back system uses a micro-processor along with sensors for thrust, torque, position, velocity, and vacuum to assist the operator in the decision making process. For example to increase feed rate – to slow rotation – to avoid clogged steels – etc. The overall affect is to improve drilling efficiency.

The control technology is also used in the bolt cycle to provide more consistent roof control. The control station will allow the operator to select subroutines that relate to specific resin suppliers' installation instructions. The machine will regulate the spin time, and the setting thrust, and the hold time for the selected resin in service. Currently three resin types

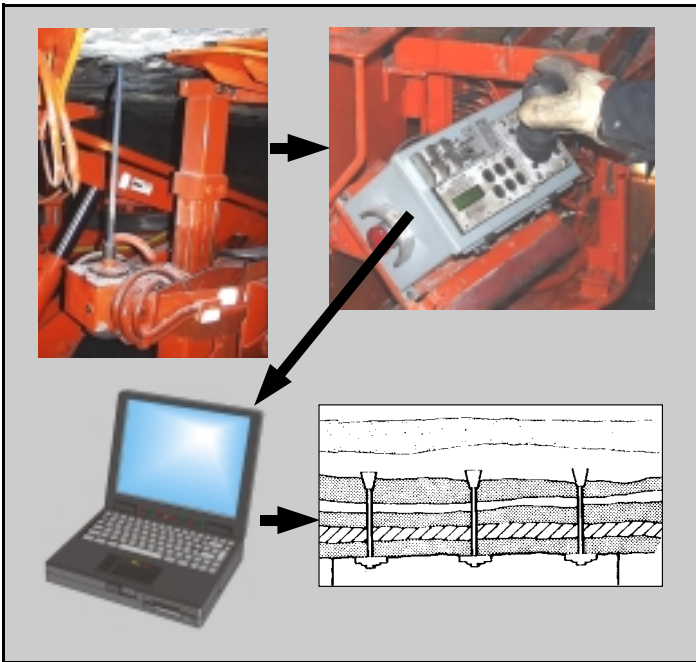
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are programmed in the controller.

More accurate installation of an expansion shell bolt can be provided by monitoring the torque directly by means of a strain gauge located in the drill head trunnion.

Data Recording



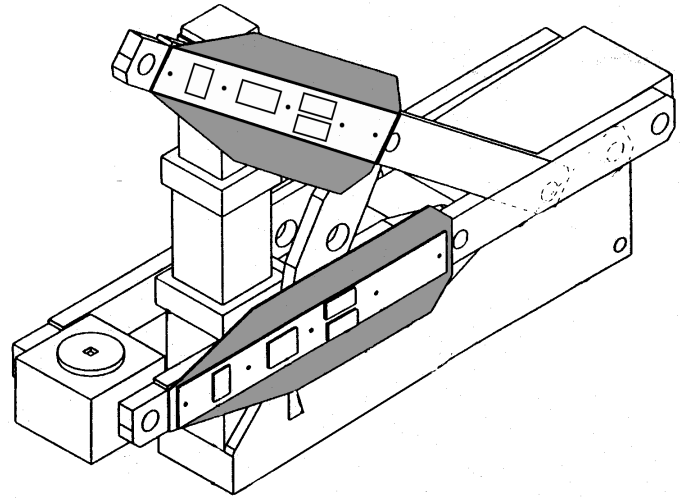
A removable data storage key in the controller can record up to 2 hours of drilling information. This information can then be downloaded to a computer for analysis.

Dr. S.S. Peng of The Department of Mining Engineering at West Virginia University is currently working with J. H. Fletcher & Co. on interpretation and utilization of this data.

Data could allow roof mapping to ensure efficient use of bolts and resin and to determine strata conditions for future longwall or pillaring operations.

Contact J. H. Fletcher & Co. sales department today for more information on the Feed-Back Drilling System.

ARM FEED BOOM GUARDS



J. H. Fletcher & Co. has always encouraged roof drill owners to use and maintain a guard on the boom arm. The guard is provided in this location to keep the operators hand off the boom arm when the boom arm is being raised and lowered.

Currently, our standard boom arm guard is designed with a tapered end toward the drillhead and a plate that runs the length of the guard. This design provides added support for the rubber guard and a place to locate the warning tags on the retainer plate.

To mount this type of guard, the drawing illustrates where the holes should be placed on the boom to secure the guard to the boom. When you order the guard you will receive the rubber guard, plate and warning tags.

If you are not using this arrangement, we encourage you to change your machine to this design. A guard kit is available and includes a drawing which provides information on the tag, hole location and what type of warning tags should be located on the machine at all times.

Please remember that this style of boom arm guard is for all Fletcher arm feed roof drills. If you have any questions about the guard, please call our Service Department or our authorized distributor.

Align the Drillhead for Safe and Efficient Drilling and Bolting

On every Fletcher arm feed drill there is a drillhead alignment system which allows the drilling unit to drill a straight hole. This system is made up of the drillhead trunion mount, two sprockets, two rods, and a traveling roller assembly.



The roller assembly is located and runs between two plates which hold the roller assembly in the same horizontal position while allowing it to move fore and aft as the drillhead moves up and down. Attached to one end of the roller assembly is a sprocket. This sprocket is connected to a sprocket on the drillhead by short lengths of chain and rods. As a result of this connection between the drillhead and the roller assembly, the drillhead is forced to maintain the same angular position throughout its stroke.

Correct adjustment of the drillhead alignment mechanism is necessary for safe and efficient drilling

and bolting. Incorrect adjustment will result in hole misalignment, as well as damage to drill steels, extension wrenches and drill chucks. Drillhead failure due to excessive bearing side loads is also possible. Any of these conditions could be hazardous to the operator.

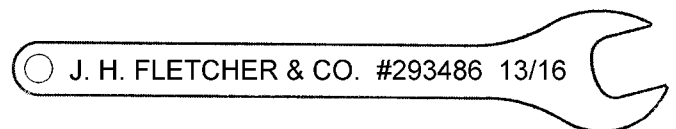
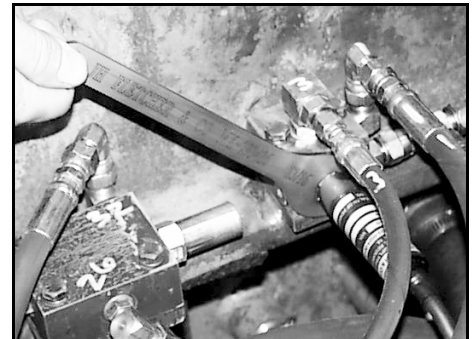
Always consult the Fletcher service manual for instructions on how to safely adjust the drillhead alignment mechanism. Make sure to routinely check that the drillhead is aligned and make adjustments if necessary. Also make sure the chain and sprocket guards are always in place.

USING PROPER TOOLS

On our MRS (Mobile Roof Supports), as well as on some other Fletcher equipment, we are using Apitech valves with specialized solenoid components. To make maintenance on the solenoid easier, Fletcher has designed a hand tool to be used specifically on the solenoids.

The tool is a standard, stainless steel, 13/16 wrench manufactured to be smaller and thinner than a normal wrench. The wrench allows more effective access to the solenoid components.

If you would like to purchase one of these specialized wrenches, please order part number 293486 from Fletcher or an authorized distributor.





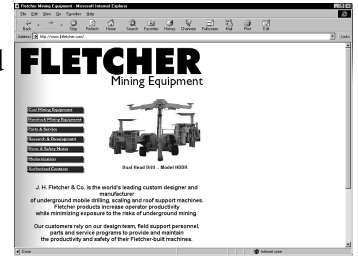
New Western Sales Representative

We would like to welcome Bill Kendall to J. H. Fletcher & Co. as our western district Sales Manager. Bill is a graduate from WVU with a B.S. in Mechanical Engineering and

comes to us bringing 25 years of experience in manufacturing, OEM sales and service, engineering, and maintenance. He has experience in eastern, midwestern, and western mines in the United States and Australia.

Bill, his wife Charlene and two sons, Billy and Kenny, reside in Utah. Bill can be reached by calling 801-794-0627.

J. H. Fletcher & Co. can now be found on the World Wide Web. The address is www.jhfletcher.com The site offers information on Fletcher equipment, Parts & Service, Research & Development, News and Safety Notes, Modernization and Authorized Contacts. Check the site for occasional updates and new information.



Drop Us A Note

We would love to hear your comments, questions or ideas for the Fletcher Product Newsletter. Drop us a line via e-mail to jhf@jhfletcher.com



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 Company _____ Address _____
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