

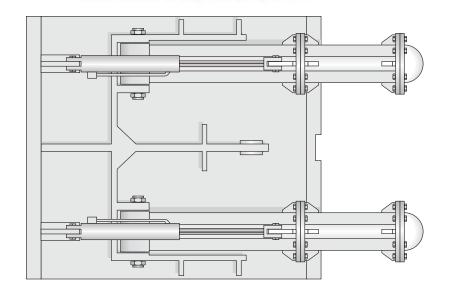
# EQUIPMENT RETRIEVER **DERON**

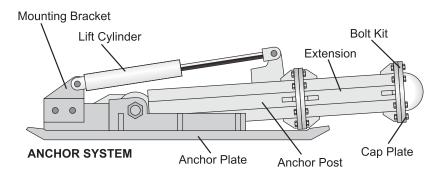
A powerful hydraulic system for recovering trapped mining equipment

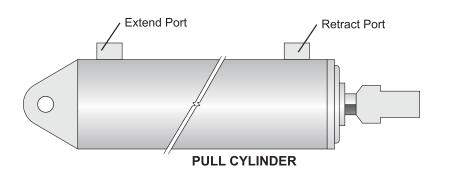
## **SPECIFICATIONS:** MR40-100 Anchor Plate > 5 ft. square, 2 in. thick steel plate; weighs approx. 2250 lb **MR20-200 Anchor Post**

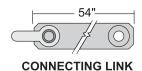


Global Leader In Engineered Hydraulics



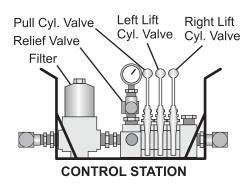






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### **System Components**

A complete MR40 Equipment Retriever is comprised of the following components, which are factory-assembled into major systems.

#### **Typical System**

MR40-100	Anchor Plate	1
MR20-150	Anchor Pin	2
MR20-272	Anchor Post	2
MR20-312	Anchor Extension	2
MR20-324	Anchor Extension	2
MR40-400	Connecting Link Ass'y	10
MR40-402	Shackle Ass'y	3
MR20-410	Anchor Cap	2
MR20-415	Bolt Kit	1
MR20-500	Anchor Raise Kit	1
MR20-600	Control Station	1
MR20-675	Hosing Kit	1
MR40-900	Pull Cylinder	1





This is the safer, faster, more economical way to recover mining equipment

trapped by roof falls

Hydraulic power plus anchoring design and mechanical linkage recover equipment

Easy to set up and operate, the MR40 Equipment Retriever provides a slow, steady, and predictable pull. It takes hydraulic power from available mining equipment, such as shuttle cars and scoop cars. A double-acting valve bank, with adjustable relief valve and pressure gauge, is used between the pull cylinder and the auxiliary power supply. This arrangement allows the operator to

**The MR40 Equipment Retriever** -- with a drawbar pull of 150 tons -- frees mining equipment buried by roof falls with maximum safety and efficiency. This powerful recovery device offers you these important advantages:

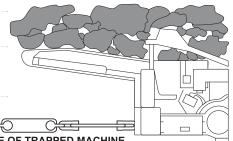
- Trapped equipment can be recovered quickly, significantly reducing the time they are out of production.
- A minimum crew is required to operate the retriever.
- Maximum safety is assured because mine personnel need not be positioned between the MR40 and the trapped mining equipment. In addition, if a MR40 component should break under stress loads during the recovery operation, danger to personnel is minimized because the

system's design eliminates a degree of elasticity in the connecting linkage.

In service, the anchor base and post are wedged firmly between the mine roof and floor. The pull cylinder is then actuated to pull the trapped machine free. As many connecting links as required are used for each application.

#### MAJOR COMPONENTS

- Heavy-duty ANCHOR PLATE... provides maximum bearing surface for posts
- (2) Massive ANCHOR POSTS... are raised hydraulically to contact the mine roof
- Powerful HYDRAULIC CYLINDER... designed to operate at 2,500 Max. psi
- Fabricated CONNECTING LINKS... with forged shackles
- One-man REMOTE CONTROL STATION... with control valves, filter, relief valve, and pressure gauge
- Modular ANCHOR POST EXTENSIONS (shown above)... adapt the MR40 Equipment Retriever to mine roof heights ranging from 3.5 ft. up to 12 ft.





CONNECTING LINKS W/SHACKLES

CONNECTS TO FRAME OF TRAPPED MACHINE

calculate accurately

the desired drawbar pull

(500 psi = 35 tons of pull).