The Fletcher Quad Ranger roof bolter is designed to provide reliable, flexible, high production roof control installation. All major components used in the Quad Ranger roof bolter have been proven on other Fletcher equipment. This includes the drill masts, crawler drive, drillheads, pumps and optional dry dust collection and feedback drilling systems. The drilling platform includes a pantograph arrangement, which maintains the same angle relative to the floor at any height. The outside drill masts are capable of tilting outboard 90° to install rib bolts, while the inside masts provide sufficient tilt to install either a 1.22 m (4') or 1.52 m (5') bolt pattern at the top of the mast.

The Quad Ranger roof bolter also incorporates an independently articulating driller canopy, both fore-aft tilt and 457 mm (18") of dropmast travel on all four masts. This provides the necessary flexibility to work in uneven roof conditions.

**Standard features**

- Fore-aft mast tilt on all four masts
- Fletcher masts with hydraulic drillguides
- Fletcher crawler drive system
- 457 mm (18") of dropmast travel on all four masts
- 90° outboard tilt on outside drill masts
- Roof and rib bolt installation from one platform position
- Pantograph platform leveling
- Automated Temporary Roof Support
- Independently articulating driller canopy
- Plug-in intrinsically-safe start switches and panic bars
- Cable reel
- MSHA approved illumination system
- MSHA approved fire suppression system
- Two 56 Kw (75 Hp) electric motors
Optional materials handling system
The Fletcher Quad Ranger roof bolter can be fitted with a materials handling system capable of carrying supplies for one shift of operation. The materials tray can be loaded outside or at an underground storage location and transported to the machine ready for use. The materials handling system will then lift the tray onto the machine and allow the operator to position it at a comfortable elevation to reach the supplies from the drill platform. This reduces the time required to supply the machine for the shift, reduces the risk of injuries from lifting and hand carrying bundles of materials and improves productivity by increasing the time available to install roof support.

Optional feedback drilling system
The Fletcher Feedback Drilling System is capable of automatically drilling and installing a bolt with a minimum amount of operator input. The operator positions the mast, inserts the drill steel and starts the drilling operation. While the Feedback Drilling System drills the hole, the operator is free to start the second drill unit. The operator then inserts the resin in the hole, the bolt in the wrench and starts the bolting cycle. The system provides consistent roof support installation with reduced operator fatigue. It also increases the flexibility of your mine personnel by reducing the time required to train an operator to be productive.