Summary
The Joy feeder-breaker performs three important functions in a stationary installation: provision of surge capacity that allows the discharge of mined material at the maximum capacity of the haulage equipment, reduction of the mined material to a consistent, easily-handled size, and discharge of the fractured material at a consistent, steady rate.

Benefits
Equally valuable above as well as below ground, the advantages of a feeder-breaker as a primary crusher are being recognized by coal, lignite and limestone mining and quarrying operations. In addition to surge capacity, size reduction and consistent discharge rate, the feeder-breaker, when compared to conventional primary crushers, offers these benefits:

- Lower installation costs
- Simpler installation and site preparation
- Higher throughput per horsepower
- Larger lumps of material handled routinely
- Fewer fines are created because material is fractured rather than crushed
- Lower profile allows most haulage equipment to discharge directly into the feeder hopper – when using trucks, the elevation ramp and foundation work will be lower than competing designs
- Feeder-breaker produces no eccentric motion, thus heavy reinforcement and foundations are unnecessary
- Breaker drives are electro-mechanical with direct drive arrangement

Description
A surge hopper at the intake end of the feeder-breaker allows trucks or other haulage equipment to discharge mined material at maximum rates. A powerful rotary pick breaker reduces mined material to a consistent size easily handled by conveyor belts and secondary crushing operations. As the mined product moves through the feeder-breaker, the material flow is discharged onto the conveyor at a consistent rate the belt can accept, virtually eliminating spillage, reducing wear and significantly increasing belt life.
Stationary feeder-breakers – surface mining

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