

CAT® ROCK FLOW SYSTEM

Continuous hard rock haulage system



Continuous ore extraction in block and panel caving

The Cat® Rock Flow System is an innovative, high performance production system in the underground hard rock environment for both block and panel caving operations. It is a revolutionary approach providing continuous production, high productivity and flexibility. The Rock Flow System supports a high level of health, safety and sustainability by remote supervised operation from surface. Designed with the growing demand for raw materials in mind, the Rock Flow System complements the existing Cat hard rock underground portfolio of trucks and loaders.



CAT ROCK FLOW SYSTEM Continuous hard rock haulage system

PRODUCTIVE: The Rock Flow System generates a continuous ore stream, from the drawpoint to the primary crusher. This continuous flow increases the mine production and generates a faster return on investment. Continuity in the haulage process is achieved with multiple drawpoint extraction making constant production rates achievable. The Rock Flow System also has a significant impact on productivity by reducing the active area: a downsized infrastructure helps additionally reducing cost.

ENVIRONMENTALLY FRIENDLY: The Rock Flow System uses electric drives for the underground haulage process. Consequently no diesel fumes are exposed to both personnel and environment resulting in reduced ventilation efforts.

AUTOMATED: The full automation of the Rock Flow System optimizes the extraction process resulting in draw control and real time production figures.

SAFE IN OPERATION: Remote control of the Rock Flow System allows a manless production process. Operators control the

system from a main control room on surface, in a safe environment. This makes job conditions more attractive and lowers operating cost because fewer personnel is needed underground.

SERVICE AND MAINTENANCE FRIENDLY: The modular architecture and the compactness of its components support a trouble-free handling. This results in shortened downtimes for repair, maintenance and panel moves.

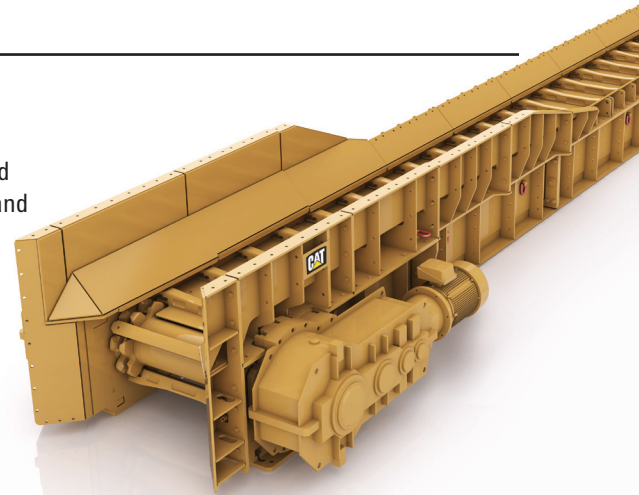
Rock Mover RM900:

DURABLE: The RM900 is particularly designed for the abrasive hard rock environment by using low wear material, robust flight bars and a durable hard rock conveyor chain. All sliding surfaces are equipped with wear proven steel. Spill plates protect both motor and gearbox.

CUSTOMIZABLE: The quantity of line pans forming the conveyor is flexible to suit local requirements.

SERVICE FRIENDLY: Cat engineers have developed the Rock Flow System with quick and easy service in mind. Wrapped and screwed line pans support a quick and trouble-free replacement of worn parts. The return and drive unit use screw connections for an easy replacement of components.

ENVIRONMENTALLY FRIENDLY: The electrically driven Rock Mover significantly improves the underground climate and system carbon footprint.



Rock Feeder RF300:

TROUBLE-FREE MAINTENANCE: The RF300's well arranged system mechanics facilitate maintenance and repair by providing direct, comfortable access to both dozer and pushing device.

COMFORTABLE HANDLING AND TRANSPORT: The compact dimensions make the RF300 ideal for underground transport, assembly and installation. The construction allows a quick assembly of the dozer and pushing device by a self-acting mechanism of the pushing device.

DURABLE: The RF300's components are built to last long under the harsh hard rock conditions underground. Guide bars, made of wear resistant steel, ensure the continuous forward/reverse movement.

EFFICIENT: The RF300 is constructed for efficient production: an energy saving high-pressure, electro-hydraulic control unit creates maximum forces with minimum energy input.



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