

BRAKE UNITS

Fail Safe Operation

Fully Oil Immersed Braking

Up to 100kNm Torque per unit

Modular for Easy Installation

PLC Controlled Dynamic Braking

Units Suitable for Hazardous Areas

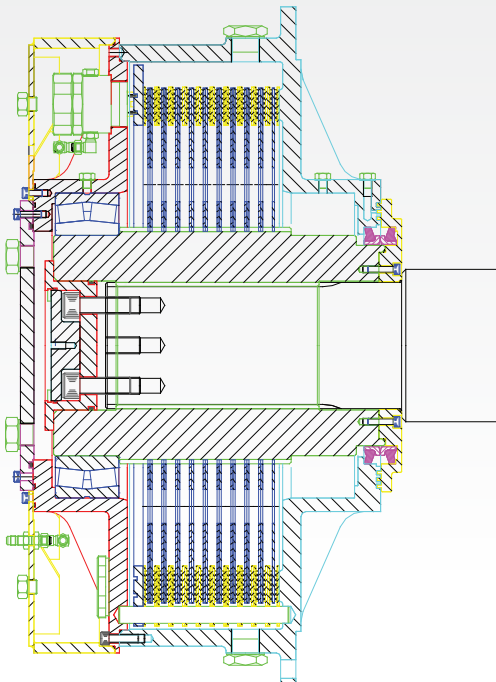
Australian Conveyor Engineering manufacture braking systems for both underground and surface conveyors.

We ensure braking systems are rated to meet all possible loading conditions and are designed to be fail-safe. Multiple brake units are installed where required to meet the braking requirements of the conveyor.

The design of the braking system is an integral part of the complete conveyor design. PLC control of the braking system is used to optimise the performance of the total conveyor.

The brakes are spring applied and hydraulically released. The brake is applied by spring force to multiple friction discs and released by applying sufficient oil pressure to the piston to compress the springs. This disengages the rotating plates from the stationary friction plates. The brake torque generated can be adjusted by varying the brake control pressure. The unique, patented, self-adjusting actuators compensate for any wear in the friction pack to give a constant torque in relation to the hydraulic release pressure.

A full-flow flushing and cooling system is provided to supply oil across the brake plates to prevent overheating and localised hot spots that can otherwise cause degradation of the friction plate surfaces.



TECHNICAL DETAILS

The brake unit is as follows:

- Multi-piston wet disc brake
- Brake coupling for mounting to the pulley shaft
- Torque arm restraint

Brake hydraulic power pack comprising:

- Cooling pump
- Hydraulic brake pressure pump
- Cooling radiator and fan assembly
- Intrinsically safe instrumentation