

# Case Study

# SSW07 Soft Starter



## INDUSTRY

Mining

## PROBLEM

A quarry located in central Victoria was upgrading a dust conveyor. BSC were supplying the 15kW helical bevel geared brake motor for the conveyor however the quarry also required a starter with reversing capabilities.



## APPLICATION

Conveyor

## SOLUTION

BSC proposed a solution of robust motor starting and protection with the WEG SSW07 soft starter combined with external keypad and two WEG CWM series contactors for forward and reverse operation.

The SSW07 is a robust starter providing a kick start with either a voltage ramp or current limit start, rated to 55deg ambient with integral bypass contactors. The addition of the external keypad provides access to parameters to configuring special starter operation like forward and reverse.

The CWM series general purpose contactors are selected for AC3 operation are compact and reduce panel space.

## BENEFIT

The helical bevel geared brake motor was replacing an old shaft mount unit with a belt drive and motor started with a Direct On-Line (DOL) starter. Now being a direct drive application, the system required a smoother acceleration and the SSW07 soft starter reduces mechanical stress on start-up, reducing the possibility of damage to the conveyor, with sufficient capacity to allow the motor to provide the necessary torque to start a loaded conveyor. With BSC's ability to supply everything from the head drum pulley bearing back to the coupling, gearbox, motor and motor controller, ensures the quarry has peace of mind in a single sourced solution. BSC engineered the solution and sourced the appropriate products for the application.