AUSTRALIAN CONVEYOR ENGINEERING

CONCEIVE | CONSTRUCT | CONTROL | CONVEY

LOOP TAKE UP

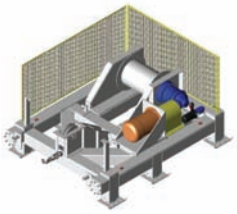
- Reliable Belt Storage
- Convenient for Belt Extraction
- Custom Designed for Difficult Conveyors
- Easy to Clean Beneath
- Reliable Belt Tracking
- Designed for High Tensions
  - 100kN Running Belt Tension
  - 300kN Peak Belt Tension

A conveyor loop take up provides belt storage for the stretch associated with starting a conveyor and also for the excess belt generated by the retreat of a longwall conveyor.

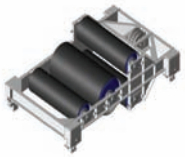
The conveyor loop take up utilises multi-layer storage to reduce the overall length of the loop take up. A maingate conveyor system normally uses a six layer loop take up that stores 120m of belt in approximately 30m of loop take up. Loop take up storage is increased by inserting additional standard modules.

The loop take up is designed for the peak tensions experienced during starting or stopping of the conveyor.

Fixed End Module



Winch Module



Pulley Carriage

TECHNICAL DETAILS

Typical Specifications for a Maingate Loop Take Up:

Continuous Tension	100kN belt tension
Peak Tension	300kN belt tension
Loop Storage	250m
Wire Rope	6 layers of 24mm diameter

Each maingate storage unit offered is generally made up as follows:

A welded steel fixed carriage frame fitted with four deadshaft pulleys
A welded steel winch base frame fitted with the winch assembly and winch drum complete with the wire rope and termination hardware
A rolling pulley carriage frame fitted with four pulleys designed to travel the length of the loop take up
Welded steel standard module frames, each 4.5m long, that are used to extend the length of the loop take up
Flat return idlers for the lower strand of the loop take up
Idler carriage assemblies for “auto-feed” system
Chain latch system for positive idler carriage location

Head Office
68-70 Chivers Road
Somersby NSW 2250
Australia
Tel: +61 2 4370 9500
Fax: +61 2 4370 9595

Perth Office
Unit 3,30-40 Adams Drive
Welshpool WA 6106
Australia
Tel: +61 8 9472 5477
Fax: +61 8 9472 5488

QLD Regional Office
41 Michelmore Street
Paget QLD 4740
Australia
Tel: +61 7 4944 5757
Fax: +61 7 4944 5799

info@conveyor.net.au
www.conveyor.net.au

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