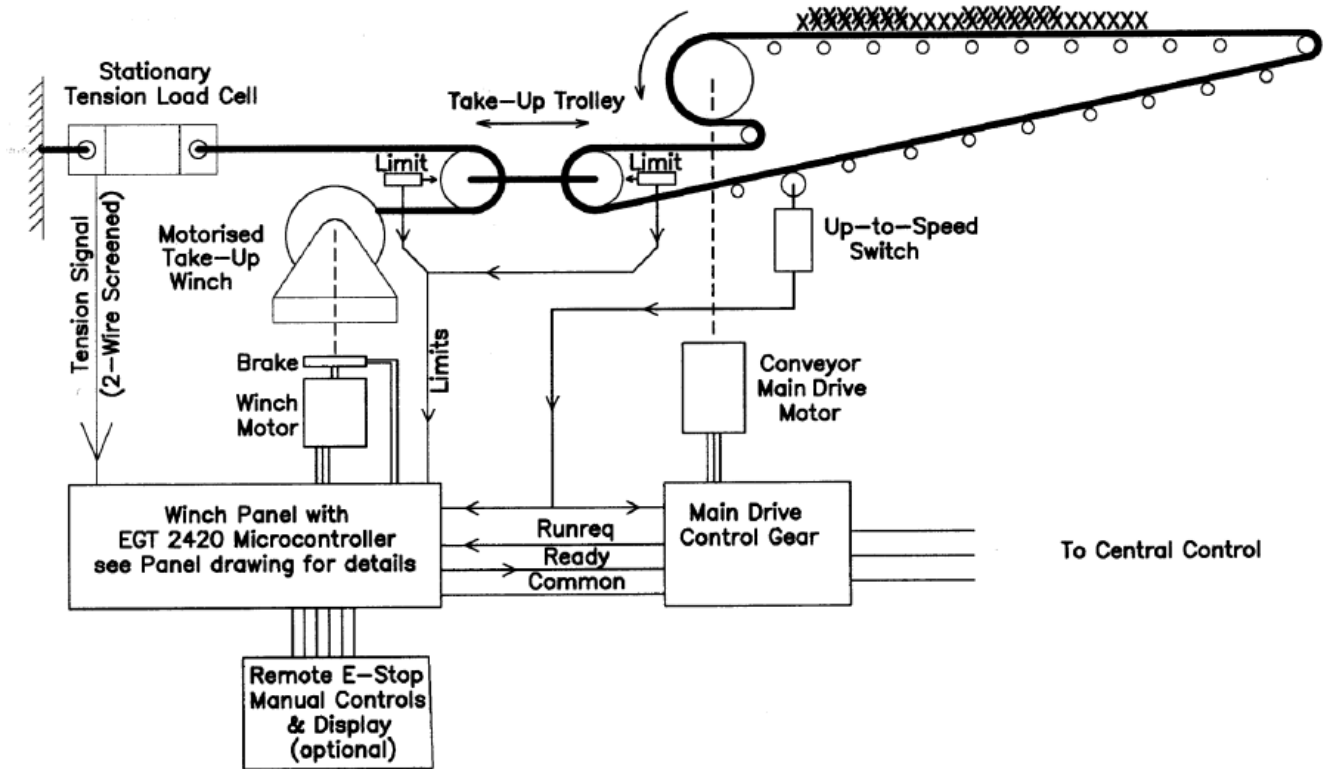


AUTOMATIC TENSION CONTROL - EGT - DOL

TYPICAL CONCEPT LAYOUT



GENERAL INFORMATION

The modern high speed, large capacity, long length conveyors have created a need for an alternative to gravity TAKE-UP SYSTEMS for TENSIONING these high production machines. DYMOT ENGINEERING have developed an electronic tension control system specifically for this purpose. The decision to do this with electronic measuring equipment was taken for a number of reasons.

FEATURES

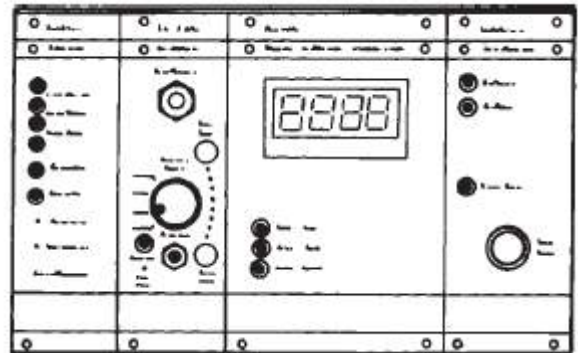
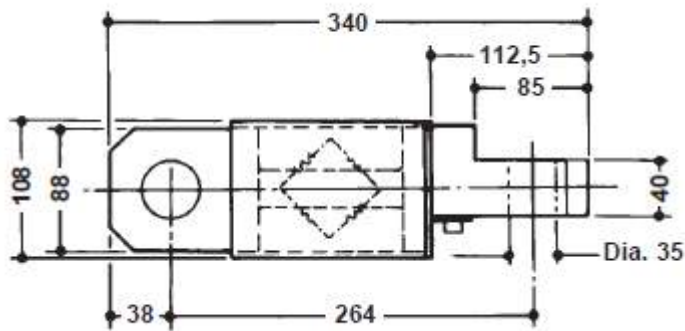
- No moving parts
- High accuracy
- Robust
- Reliable
- Versatile
- Low cost
- Low maintenance
- Constant signals
- Constant monitoring
- Overtension trips
- Numerical display
- Fault signal
- Easy fault finding
- Low voltage D.C. circuits to measuring head for intrinsically safe operation in fiery mines.

AUTOMATIC TENSION CONTROL - EGT - DOL

SPECIFICATION

MAIN COMPONENTS

E.G.T. 2420 C/W MEASURING HEAD (STRAIN GAUGE)



FEATURES

- Running Level
- Start-up Level
- Manual Control
- Fault Monitoring
- Overtension Trip
- Under Tension Trip

TAKE-UP WINCH

(See Dymot Take-up Winch leaflet)

ELECTRO MECHANICAL INTERFACE

Incorporating enclosure, motor contractors, isolator, overloads, screened cable for measuring head, manual control buttons, key switch for operation mode, terminal blocks for all connections.

TYPICAL START-UP FOR CONVEYOR IN AUTOMATIC MODE

Push start button.

Controller signals winch to run and tensions start-up level.

Conveyor drive starts when this level is reached.

Controller monitors belt speed and reduces to normal tension when belt is up to speed.

Controller continues to monitor belt tension and adjusts when necessary.