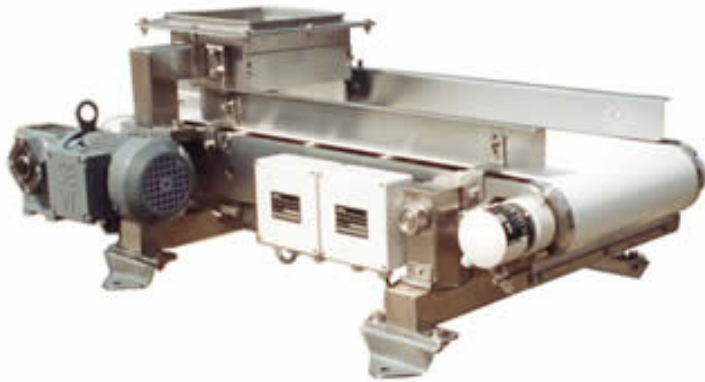# WT735 Weigh Belt Feeder

The "WT735" Weigh Belt Feeder is one of Web Tech AutoWeigh's original "Low Capacity" type Weigh Feeder. Suitable for product blending and process control, the Model 735 has been used in:

- Food industry,
- Powder
- Pellet applications.
- **Accuracies in the order of ±0.25% to ±0.5% are achievable.**

Mechanical

The model "WT735" is available in
- Open and enclosed construction.
- The internal aspects of the weigh belt feeder are manufactured from stainless steel,
- External enclosure mild steel powder coated,
- Optional stainless steel Enclosure
- Belt widths of 300mm and 600mm,
- Maximum capacity of approximately 20m^3/hour (depending on material type).

Standard features include:

- 735mm Inlet to Discharge centres
- Cantilever design allows easy belt removal & replacement
- Automatic belt tracking system
- Lagged drive pulley
- Crowned head pulley
- Gravity take-up for constant belt tension
- Scrapers on head & tail pulleys, and Vee plough on return belt
- "Horseshoe" type inlet or full inlet chute with adjustable shear gate
- Flexure based weigh frame
- Stainless steel precision IP68 load cell
- Digital encoder for accurate belt speed measurement
- Shaft mount gear motor (open construction model)
- Special bearings suitable for harsh environments
- Calibration chains

Electronic Controller

The "WT735" weigh belt feeder is currently supplied with our "**Masterweigh Optimus**" electronics.

STANDARD FEATURES

- Microprocessor based. AMD Elan SC400 microprocessor running at 33, 66 or 100 MHz
- 110/240VAC or (optional). 24VDC supply
- All commands, readings etc. are entered via "thick film keypad".
- Simple Menu driven interface.
- Dot matrix 64 x 240 pixel graphics LCD with digitally adjustable LED backlight brightness
- No hieroglyphics are used.
- Local totaliser read out 8 digits wide. local mass rate read out 6 digits wide.
- Remote totaliser output +5V,10V Clean relay contacts per increment.
- Remote 4-20mA mass rate output.
- Programmable PID 4/20mA, 0/25mA & current loop, 0-10v
- All analogue and digital outputs are isolated.
- Programmable auto zero tracking Auto-gain: no user calculations required.
- Accepts belt speed input from high-speed optical encoders or magnetic pick-ups.
- Modular construction for ease of fault finding; and repair.
- IP66/Nema 4X rated enclosure

OPTIONAL FEATURES

- 304 or 316 stainless steel enclosure.
- Sloping roof enclosures.
- Stainless steel sunshade.
- DIP enclosure.
- Intrinsic Safety barriers.
- Load cell lightning surge protection.
- RS232/RS485 serial output.
- Special applications software
- DeviceNet, EtherNet/Modbus Profibus

GEARMOTOR TO SUIT APPLICATION

CALIBRATION CHAIN & BRACKET FOR CALIBRATION ONLY. REMOVE DURING NORMAL OPERATION

ELECTRICAL JUNCTION BOXES

TACHOMETER

654.5 - OVERALL FEEDER WIDTH (NOMINAL)

122.0

300.0 – BELT WIDTH

75.0

ACCESS SIDE FOR BELT REMOVAL

170.5   562.0   176.0

SLOT 7.5x12 (8 OFF)

105.0   105.0

105.0

105.0

105.0

150.0

228.0

150.0

228.0

INLET CHUTE DETAILS

INLET CHUTE

WEIGHFRAME   LOADCELL   BELT SKIRTS

380 - OVERALL HEIGHT

238 - TOP OF BELT

198

40.0

GRAVITY STEERING & BELT PLOUGHSCRAPER

BELT SCRAPER

119.0   562.0 - FEEDER MOUNTING CENTRES   125.0

806.0 - FEEDER PULLEY CENTRES (ADJUSTABLE)

910.5 - FEEDER OVERALL LENGTH (NOMINAL)

VIEW FROM BELT ACCESS SIDE

OPTIONAL MACKAY VIBRATION MOUNTS

205.0   252.0

457.0 - MOUNTING FEET CENTRES

VIEW FROM DISCHARGE END

AW310   Rev A 01/14