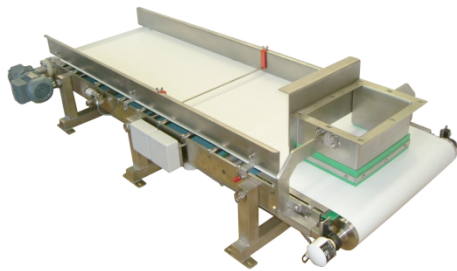# WT1200 Weigh Belt Feeder

The "WT1200" Weigh Belt Feeders is a "Low Capacity" type Weigh Belt Feeders.
Suitable for product blending applications and process control, the model "WT1200" has been used in:

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

Mechanical

- 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.
- Belt widths of 300mm, 450mm, 600mm, 750mm, 900mm and 1050mm
- Maximum capacity of approximately 30m^3/hour (depending on material type).

Standard features include:

- 1200mm Inlet to Discharge centres
- Cantilever design allows easy belt removal & replacement
- Automatic belt tracking system
- Lagged drive pulley
- Crowned tail pulley
- Gravity take-up for constant belt tension
- Scrapers on head & tail pulleys, and Vee plough on return belt
- "Horseshoe" type inlet of 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
- Special bearings suitable for harsh environments
- Calibration chains

Electronic Controller

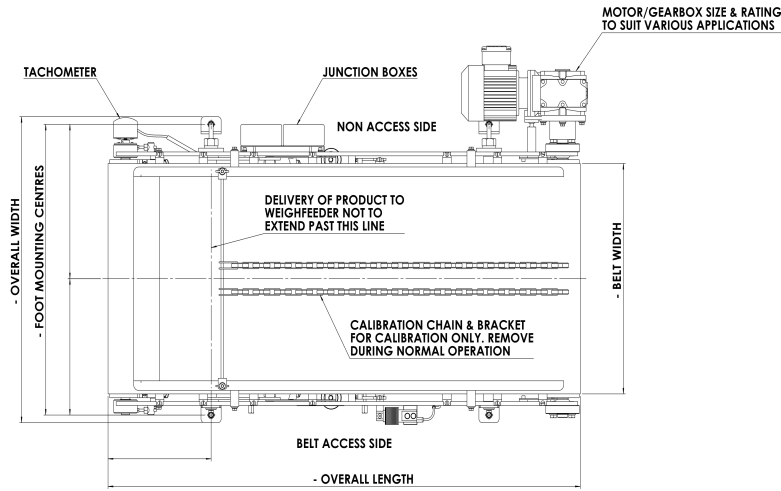The "WT1200" weigh belt feeder is currently supplied with our "**Masterweigh Optimus**" electronics.

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.
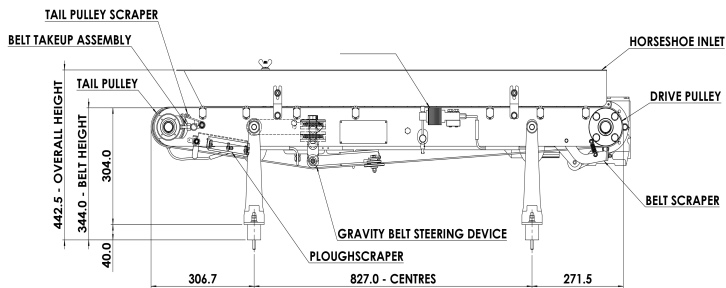- IP66/Nema 4X rated enclosure

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
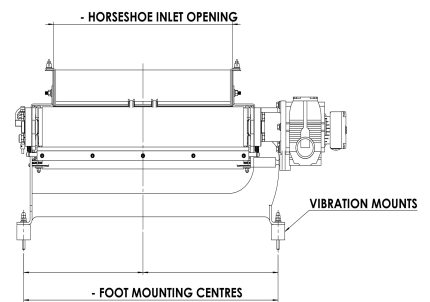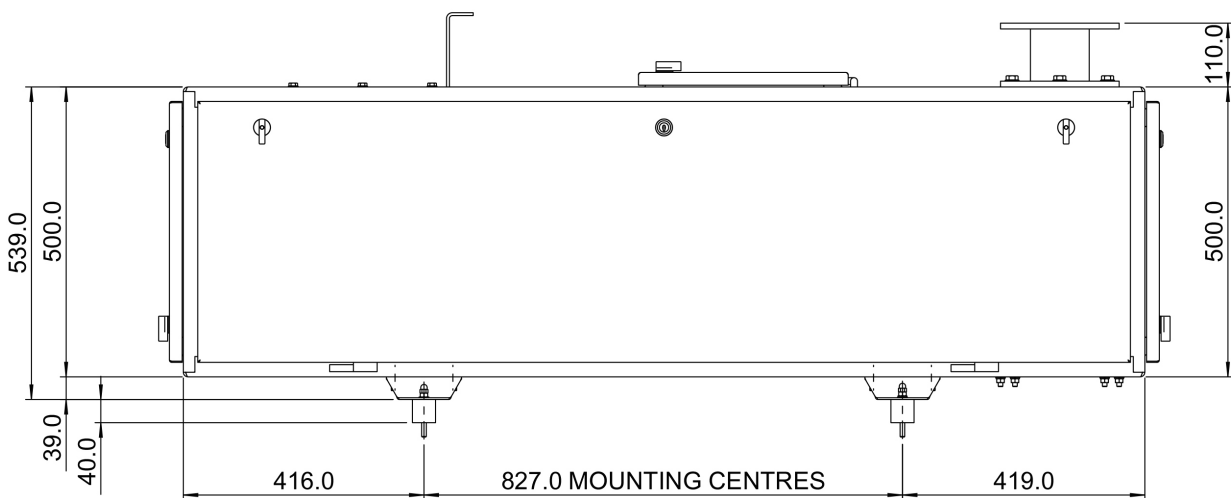- DeviceNet, EtherNet/Modbus Profibus

MOTOR/GEARBOX SIZE & RATING
TO SUIT VARIOUS APPLICATIONS

TACHOMETER

JUNCTION BOXES

NON ACCESS SIDE

DELIVERY OF PRODUCT TO
WEIGHFEEDER NOT TO
EXTEND PAST THIS LINE

- OVERALL WIDTH
- FOOT MOUNTING CENTRES
- BELT WIDTH

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

BELT ACCESS SIDE

- OVERALL LENGTH

PLAN VIEW

TAIL PULLEY SCRAPER

BELT TAKEUP ASSEMBLY

TAIL PULLEY

HORSESHOE INLET

DRIVE PULLEY

442.5 - OVERALL HEIGHT
344.0 - BELT HEIGHT
304.0
40.0

BELT SCRAPER

GRAVITY BELT STEERING DEVICE

PLOUGHSCRAPER

306.7   827.0 - CENTRES   271.5

SIDE VIEW

- HORSESHOE INLET OPENING

VIBRATION MOUNTS

- FOOT MOUNTING CENTRES

VIEW FROM DISCHARGE END

110.0

539.0   500.0   500.0

39.0
40.0

416.0   827.0 MOUNTING CENTRES   419.0

ELEVATION