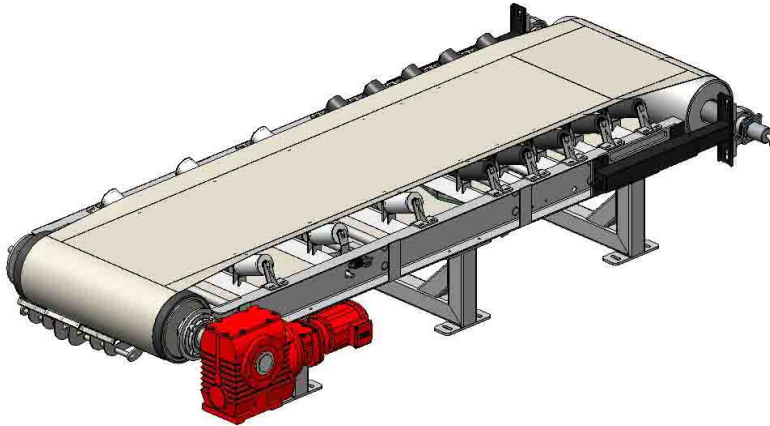# WT3000 Weigh Belt Feeder

The model "WT3000" is a Web Tech AutoWeigh "**High capacity**" type weigh belt feeder,
Suitable for applications including product blending and process control.

- The model "WT3000" is extremely suitable for the minerals industry,
- also used in grain and similar applications.
- **Accuracies in the order of ±0.5% are achievable.**

Mechanical Feature Available

- Open, or
- Partially enclosed or
- Fully enclosed construction.
- The weigh belt feeder is be supplied in mild steel powder coated,
- Optional in stainless steel.
- Available in belt widths from 600mm to 1600mm,
- The model "WT3000" has a maximum capacity of approximately 450m^3/hour (depending on material type).

Standard features include:

- 3000mm Inlet to Discharge centres
- Cantilever design allows easy belt removal & replacement
- Troughed belt profile
- Automatic belt tracking system
- Lagged drive pulley
- Crowned tail pulley
- Fully enclosed screw-take-ups take-up
- Heavy duty bearings
- 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
- Calibration weights

Electronic Controller

The "WT3000" weigh belt feeder is currently supplied with our "**Masterweigh Optimus**" electronics.
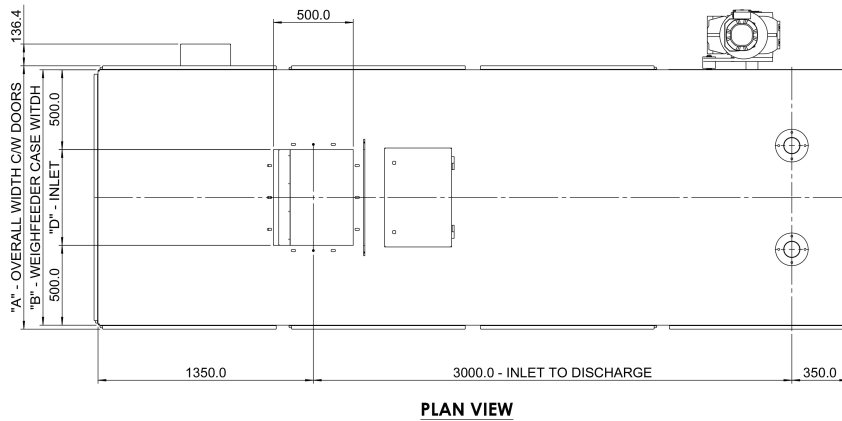
STANDARD FEATURES

- 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
- "Optimus Plus"

BELT WIDTH	A	B	C	D	APPROX. KGS
600mm	1350.0	1300.0	1200.0	300.0	1700
750mm	1500.0	1450.0	1350.0	450.0	1900
800mm	1550.0	1500.0	1400.0	500.0	1975
900mm	1650.0	1600.0	1500.0	600.0	2100
1000mm	1750.0	1700.0	1600.0	700.0	2300
1200mm	1950.0	1900.0	1800.0	900.0	2600
1400mm	2150.0	2100.0	2000.0	1100.0	2900
1500mm	2250.0	2200.0	2100.0	1200.0	3050
1600mm	2350.0	2300.0	2200.0	1300.0	3200
1800mm	2550.0	2500.0	2400.0	1500.0	3500
2000mm	2750.0	2700.0	2600.0	1700.0	3800

PLAN VIEW

ELEVATION WITH DOORS REMOVED

VIEW FROM DISCHARGE END