



Note: For Loadcell details refer Loadcell catalogue

## RANGE OF PRODUCTS

Strain Gauges	Batching Systems	Bag Check Weighers
Load Cells	Hopper/Tank/Silo Weighing Systems	Weigh Bridges
Pressure Transducers	Force Measurement Systems	Axle Weighers
Torque Transducers	Bagging Systems	Check Weighers
Piezoelectric Accelerometers	Crane Weighing Systems	Crane Scales
Signal Conditioners	Online Weighing System	
Trip Safe	Belt Scales	<b>We also undertake development of custom built systems</b>
Indicators/Controllers	Loss In Weight Feeders	
Vibration Meters	Throughput Weighers	
Vibration Switches	Air Craft Weighing Systems	

Note: Due to continuous up-gradation, specifications are subject to change without notice



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An ISO 9001:2000 Certified Company

CT515 10

# WEIGH FEEDER



- Continuous duty
- Customised solutions
- Digital communication
- Capacity - 200 Kg to 2000 TPH

G/PA/CT515/010/08/2000



# WEIGH FEEDER

## SPECIFICATIONS

### Control Panel:

<b>Model</b>	:WL XXX L 5/6 XXX for Capacity 5 for AC drive, 6 for DC drive
<b>Mounting</b>	:Floor
<b>Dimension</b>	:600 x 600 x 1600 (W x D x H) Individual 800 x 600 x 2000 (composite) for a maximum 4 nos
<b>Power Supply</b>	:415 V / 10 %, 3 50 Hz, AC 230 V / 10 %, 1 50 Hz, AC

### Inputs:

a) Weight	
No. of load cells	:2
I/P range	:0-15mV DC
Excitation	:10V DC
b) Speed	
Sensing Device	:Pulse Tacho/ Inductive proximity
c) External interlock	:From customer
d) Set Rate	:4-20mA from Remote Panel
<b>Outputs:</b>	
a) Analog	:4-20mA corresponding to feed rate
b) Digital	:RS 485 (optional)
c) P.F Contacts	:i) Feeder on ii) Cumulative fault

### Controls

On the front panel/front door	
▪Feeder ON/OFF (spring return push button)	▪Fault reset (Push button)
▪Emergency OFF (Stay put push button)	▪Power ON/OFF (Rotary switch)
▪Remote/Control/Local Selector Switch	

### Display

2 line 16 characters with backlit LCD	
▪Load in Kg/m	▪Belt speed in m/s
▪Rate in tonnes/hr	▪Totalizer in tonnes

### Self-Test

Internal system check for	
▪NVRAM	▪EEPROM
▪ADC	▪Parameter integrity

### Programmable parameters

:Programmable through keypad
▪Calibration of load, belt speed and Totalizer.
▪Set value for overload.
▪Output percentage high limit setting for material starvation
▪Selectable operating mode-Gravimetric/Volumetric.
▪Password protection for all parameters and functions.

### Optional Digital communication

1. Modbus connectivity
2. Profibus DP connectivity
3. Ethernet connectivity

### Local panel (Optional)

<b>Model</b>	:WL XXX L5/6
<b>Mounting</b>	:Wall
<b>Dimension</b>	:300 x 210 x 400 (WxDxH)
<b>Power Supply</b>	:230V AC 10%, 50Hz, 1
<b>Display</b>	:4 digit, 7 segment, LED
<b>Input</b>	:4-20mA from control panel
<b>Controls</b>	:Feeder ON/OFF (spring return push button) Emergency OFF (Stay put push button)

### General Specification:

Conveyor Type	:Belt
Weighing	:Idler Weighing System
Drive	:AC/DC
System Accuracy	:0.5% of F.S

### Conveyor:

Capacity (TPH)	:Upto 2000
Centre distance between pulleys	:2 to 3 Mtrs
Type of Conveyor	:Flat
Width of the Belt (mm)	:Depending on capacity
Type of Tension Arrangement	:By screw take up/Gravity take up

### Belt:

Fabric	:Nylon/Food grade/as required
Grade	:M 24/HR as required
Cover thick	:Decide during detailed engineering
Idlers	:Made out of ERW pipe, Bright bar fitted with bearings

### Pulleys:

Head pulley/Tail pulley	:Made out of standard pipe/rolled out of plates with EN8 shaft mounted on ball bearing. Both pulleys are rubber lagged.
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### Reducer

:Planetary/Worm/Helical

### OPTIONAL

#### 1. Pre-feeder

(Depending on application)

:1. Feed chute with vibro mount	3. Vibratory Feeder
2. R.V. Feeder	5. Dosing Valve
4. Screw Feeder	

### NOTE:

1 The dia of pulleys, Idlers & optimum speed for conveyor will be decided during detailed Engineering.  
2 Based on the characteristic of the material handled, plant layout, suitable pre-feeder/ Mass flow hopper will be designed.



Weighing & Automation