

# BPU

## LOADCELL NETT WEIGHERS

Highest Performance Accuracy &  
Outstanding Reliability

WEIGHING, BAGGING & CONTROL SYSTEMS



**CONSULTRONICS PVT. LTD.**

<http://www.consultronics.in>

BPU (Bag Packer Universal) by Consultronics Private Ltd. enhances both performance and accuracy in Automatic Nett Bagging Weighers. Normal weight range is from 10 kg to 50 kg.

**HIGH SPEED OPERATION :** UBP has high speed upto 25 weighments per minute, depending on the material, material flow characteristic, weightment size and tolerance requirements.

**HIGH ACCURACY :** UBP has achieved accuracies as low as 10 grams standard deviation (1 sigma), depending on speed and material type.

**OPERATION :**

UBP operates on principle of equal batch weighing. Material is fed from the upper bin (Customer's hopper) to the weigh pan by a suitable feed system, enabling coarse (main) and dribble (fine) feed. On reaching the required weight, the feed system is stopped and the material is discharged into the bag through discharge hopper. The bag holder then releases the bag. The next batch is then started.

The optimal size of weigh pan depends on the required batch weight and the specific density and characteristics of the material. Different feeding mechanism are available to achieve a very accurate dosing of the required batch weight for the specific product.

**CONTROLLERS AND CONTROL OPTIONS :**

WEIGHPAK Controller provides a user friendly control of UBP as well as the process monitoring and the user interface, (See separate leaflets for functions, features and benefits of WEIGHPAK Controller)

For Multiple WEIGHPAK data management, data loggers with full remote control flexibility can be provided.



## UNIQUE LOAD CELL ASSEMBLY FOR HIGHEST PERFORMANCE :

Single tension loadcell and unique cantilever suspension provides extremely accurate measurement and rapid response to weight / load changes. UBP has very few moving parts which provides a high degree of reliability and maintenance free operation.

The loadcell assembly consists of single tension loadcell with overload protection stops in both overload and reverse load directions of movement.

Furthermore the design obviates dust/dirt build up, friction wear and corrosion 'Traps'.

Loadcell assembly is mounted on a large and heavy support base. This gives immense rigidity and doesn't make the loadcell deflect or shake under vibrations, giving a long term reliability.

Loadcell and weigh pan sections are isolated from feed control section and downstream equipment vibrations by means of floor antivibration mounts giving very stable measurements. Isolation from weigh pan and feed control section minimises product contamination influences.

Stiff cantilevered suspension of weigh pan to the loadcell assembly minimizes signal oscillation for faster stabilisation and a faster weighing cycle.



Unique Load cell Assembly

## TECHNICAL DATA / SPECIFICATIONS

### Weigh Pan

Stainless steel weigh pan with electro pneumatically operated double bird beak type doors. Proximity switch for detection of closed position of doors.

### Weighing System

Robust construction, suitable for most difficult operating conditions. Incorporates four horizontal flexures fitted in a parallelogram construction with one high precision stainless steel load cell to support the weigh pan.

### Feed System

Accurate coarse (main) and dribble feed system for filling of the weigh pan. System to suit material to be handled.

### Air Service Unit

Air service includes a pressure regulator, pressure gauge, air filter with separator and oil lubricator. A manifold with 24V DC solenoid valves fitted, has a unique design, which enhances quick maintenance and simple connectivity. The manifold is fitted in the weigher body.

Clean dry compressed air supply to be provided with a normal working pressure of 6.12 Kg/cm<sup>2</sup> (87 Psi).

### Dust Extraction

A dust extraction system can be connected to the weigher body and to the bag holder.

### Gravity Fed Weigher (Shutter)

Designed for accurately weighing free flowing granular materials, Eg.: Sugar, Cereals, Rice, Seeds, Fertilizers etc. at high speed.

Design of two position [main and dribble (minor) feed] gravity feed inlet ensures smooth, reliable and extremely accurate operation.

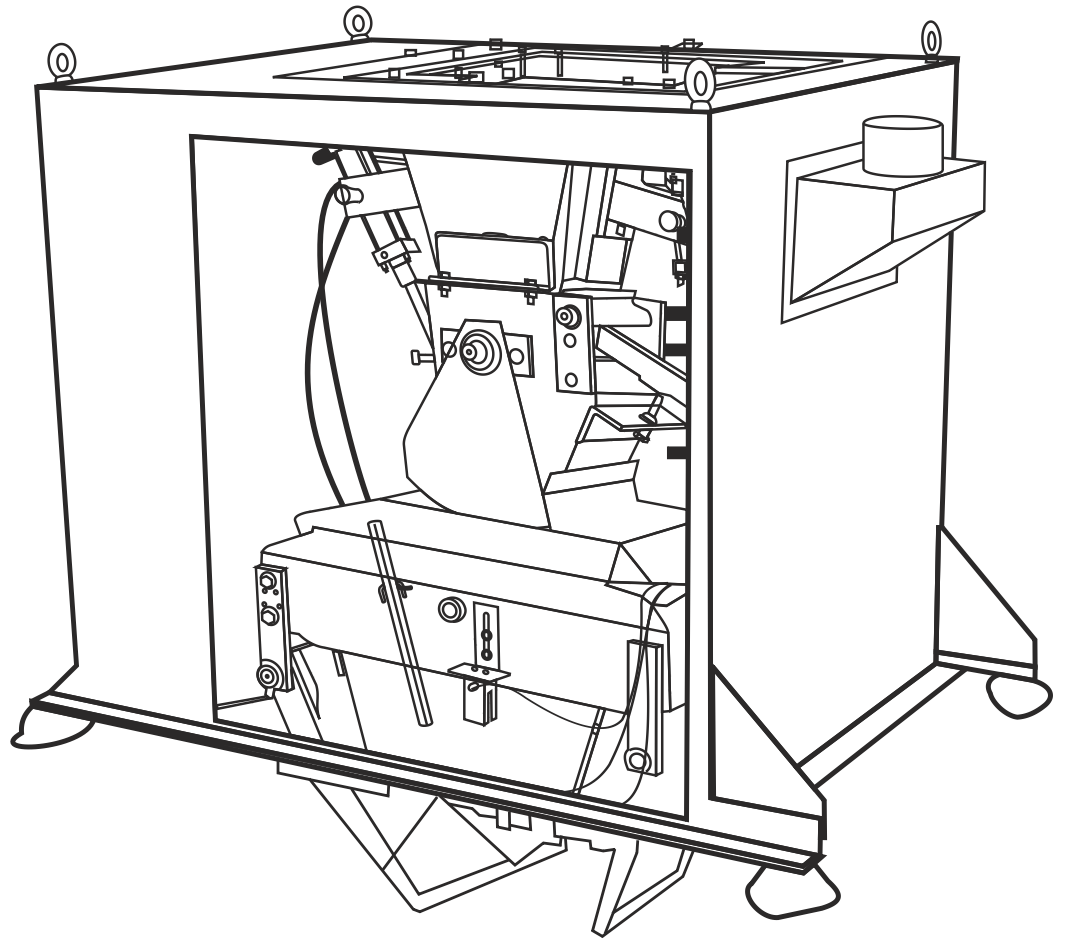
Material flow at main to minor feed changeover is reduced rather than interrupted by movement of a side baffle, which results in steadier weighing and higher speed.



Main (Coarse)



Dribble (Fine)



**Material of Construction :**

The material used in construction of bag weighers and ancillary equipment must be suitable for the product being packed both from a hygienic and environmental stand point.

Typically, all contact parts are made of 304 stainless steel, while others Of mild steel. 316SS is used for harsh or coastal environments handling fertilizer.

**After Sales :**

We have a commitment to each and every installation with minimum downtime. Emergency services during break down is provided by expert engineers.

Training by excellent staff is provided on-site or at our premises.

**Spares / Supply :**

You can count on us for speedy and accurate spares supply at most effective rates.



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