



PATENTED DESIGN
PATENT PENDING



BDS+

BEDDING DISPENSING SYSTEM

- Proven operator protection
- Compatible with free and non-free flowing bedding
- Over 50% faster refilling compare to traditional systems
- New innovative and unique remote loading option
- Lowest environmental impact



"... our life is much easier with the new dispenser!"



AUTOMATION

iwt
a **TECNIPLAST** company

1/Innovative Concept

The compact Bedding dispensing system is ideal for the repeated dosing of cages with clean bedding in small-medium facilities.

The operator simply empties the bedding directly from the bags into the loading hopper with simple, ergonomic movements. An integral vacuum pump rapidly conveys the bedding up into the Stainless Steel dispensing silo, where it is stored. Thanks to the pure vacuum transportation, loading multiple bags can be done whilst the system is active and the working grid is open. The absence of mechanical devices in the loading funnel means there is no requirement for fixed machine guarding or interlocking switches when the grid is raised. Therefore bedding bags can be discharged into the machine with the working grid either open or closed and with the vacuum transfer active, this system means faster refilling and improved ergonomics.

Level sensors monitor the volume of bedding in the dispensing silo and the vacuum exhaust is fitted with self-cleaning filters to reduce maintenance.

When required by the operator, the bedding is dispensed through the discharge mouth, dropping straight into the cages. Up to 300 cages/fill can be processed giving excellent autonomy for your staff. To perform this simple operation, just place the cages on the grid, slide them forward until the ultra sound sensors are triggered. The set quantity of bedding is then automatically dispensed with the BDS+ offering up to 10 different programs, each one easily set (name and volume) through the user friendly controls.

The bedding dispensing system is fitted with casters and can easily be moved and located wherever needed. This, combined with the single-phase electrical requirement, makes the BDS+ a real "plug & play" machine.

2/Versatility

All free flowing materials (corn cob, heavy wood shavings, heavy wood chips) can be processed with the basic version of the unit, but when nonfree flowing bedding is involved, an optional upgrade kit can be provided. This has been specially designed to allow the problem-free processing of these types of products. A horizontal stirrer is fitted inside the dispensing silo to mix the material and prevent any possible "bridge effect".

The pure vacuum technology used by BDS+ to convey the bedding means true and unique flexibility to refill the unit also from a remote loading hopper. From a storage room nearby it is possible to convey the bedding remotely, avoiding to store bags next to the unit and optimizing space and flows in already busy washing areas.

This option, combined with large bedding bags, offers outstanding efficiency generating weekly buffers and important savings of up to 15%, due to reduced bedding and labor costs. Please contact us for your individual Return on Investment.

Both remote conveying system and stirrer options are prearranged in all new BDS+ machines and can be easily retrofitted.

This enhances your BDS+, making this system a truly modular solution that can always match the constantly evolving needs of modern animal facilities.

3/Operator Protection

Protecting staff properly from dust generated when bedding is dispensed into cages is an essential feature of the BDS+. An integrated back draft hood with double level filters (G4+F7 - 0,35m² filtration area) draws air and dust particles away from operators, guaranteeing them protection.

Two axial 24V fans assure containment through an air-flow of 1400m³/h (825 CFM). A front access point allows quick and easy maintenance on the filters themselves, G4 filters enhances the life-span of the F7 filters.

The system is designed in accordance with European and International Directives, ATEX 94/9/CE Atmospheres Explosive Directive, NPFA 499/68/69/70/77/654/61 standards and UNI ISO 60204-1 (safety of machinery - electrical equipment of machines).

4/Eco-sustainable Design

The BDS+ incorporates sustainable use of materials, using new technologies and manufacturing processes that conserve natural resources.

Less steel and more recyclable plastic parts are used to conserve materials and lower the carbon cost of manufacture. All this in a modern design, which combines an environmental friendly philosophy results in real operational benefits such as reduced weight, compatibility with cleaning agents, impact and water resistances. The fast operation and low volt technologies give you the lowest consumptions ever seen, up to 50% less than previous systems.



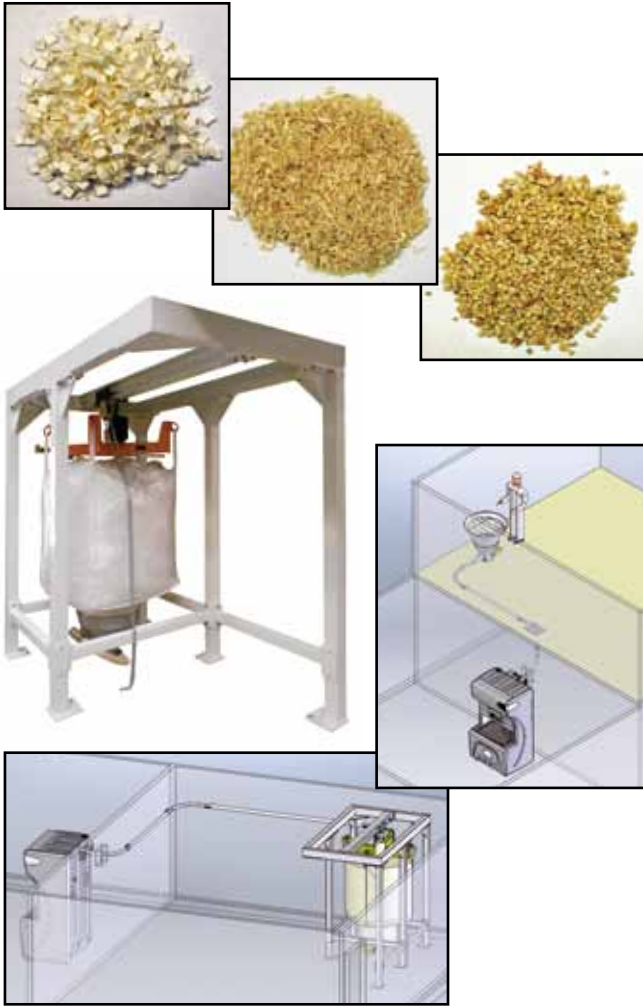
AUTOMATION

BDS+ Bedding Dispensing system Plus

Innovative Concept



Versatility **2**



Operator Protection **3**



TECHNICAL SHEET

9BDSPLUS Full Optional

Service Table - Electrical Supply

V (V)	Hz (Hz)	P (kW)	A (A)	Cable
230	50	1.8	12.4	Single-phases + earth
115	60	1.8	29.6	Single-phases + earth

Eco-sustainable Design **4**



Basic Configuration

Bedding Dispensing System (9BDSPLUS) includes:

- Plastic covers.
- Vacuum pump.
- Loading hopper for free flowing clean bedding.
- Silo to stock free flowing clean bedding with max level sensor.
- Self-cleaning filters.
- Allergen containment kit.
- Valves, compressor air circuit, emergency button, touchscreen, control box.

N.B:

The unit is designed to dispense by gravity only free flowing type bedding materials.

Options

- Kit for upgrading the unit to process light (or not free flowing) beddings (Consult us for list of approved beddings) (9BDSPLUSLB).
- Air compressor mounted on-board (9BDSPLUSCA).
- Remote loading funnel kit (9BDSPLUSRF).
- Upgrade kit for small bedding bag applications (9BDSPLUSSB).
- Stand alone crane system for big bedding bag (9BDSPLUSCS).

Related Products

To maximise operational efficiency and learn more about these products contact your local representative.



Logistic trolleys offer safety and ergonomic features that enable high load-density for moving cages and bottles, crates, pallets and covers.



650 Series Cabinet Washer. High throughputs rates, short cycles and environmental friendly.



800 Series Cage and Rack Washer. Cost effective quality based cage and rack washing solution for small size operations.



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