# MULTIDOS® L Weighfeeders

**Continuous gravimetric weighing and feeding – accurate, economical, reliable**

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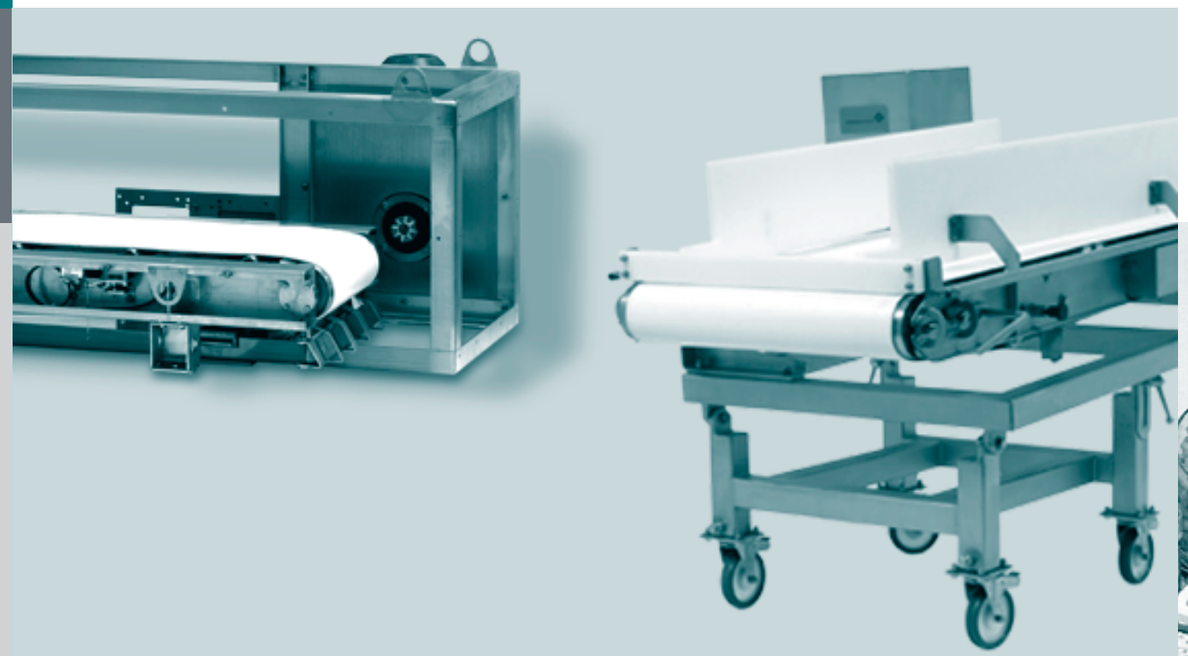

The MULTIDOS® L series weighfeeders complement the product line for the lowest feed rates from approx. 100 kg/h (220.5 lbs./h) up to a maximum of 85 t/h [metric]. The lightweight design and accessibility to the contact surfaces via large inspection openings make the MULTIDOS® L especially appropriate for applications in the chemical industry, detergent production, foodstuffs and pet food industries.

## Applications:

Feeding and measuring of:

- Grains, seeds, cereals, nuts, small baked goods, etc. in the food industry
- Fragile bulk solids (e.g., small baked items)
- Coarse powders and granulates in chemical plants and for plastics production
- Powder-like preliminary products for detergent production

## Advantages

- Dust-tight stainless steel housing provides a clean weigher environment
- Safe belt tracking and monitoring
- Simple belt changes with no auxiliary equipment
- MechaTronic concept allows for quick assembly and start-up
- Bulk solids lab for material tests such as shear testing, etc.
- Process expertise to help you select the feeding system that's right for you
- Gentle product handling


### Our Solutions Package

- Sealed housing with two detachable side panels and two large inspection covers
- FDA-approved belt conveyors
- AC drive system with speed sensor
- Maintenance-free compact weighing module with high-resolution DMS load cell
- Bulk solids charging device
- MechaTronic concept using DISOCONT®

### Special Features

- All weigher mechanics of stainless steel
- Automatic belt tracking system
- Automatic belt cleaning system
- Weighted belt tensioning station
- Belt influence compensation (BIC) using smart software

| MULTIDOS® L | | | | | |
|---|---|---|---|---|---|
| **Belt length** | **300 mm** (11.8") | **600 mm** (23.6") | **800** (31.5") | **1.000** (39.4") | **1.200** (47.2") |
| **Gravimetric feed rate** | 100 – 17,000 kg/h | 200 – 37,000 kg/h | 300 – 54,000 kg/h | 400 – 68,000 kg/h | 500 – 85,000 kg/h |
| | 220 – 37,500 lbs/h | 440 – 81,500 lbs/h | 660 – 119,000 lbs/h | 880 – 149,500 lbs/h | 1100 – 187,500 lbs/h |
| **Max. volumetric feed rate** | 34,000 $dm^3/h$ | 75,000 $dm^3/h$ | 107,000 $dm^3/h$ | 137,000 $dm^3/h$ | 169,000 $dm^3/h$ |
| | 1,200 cu. ft./h | 2,650 cu. ft./h | 3,750 cu. ft./h | 4,800 cu. ft./h | 5,950 cu. ft./h |
| **Accuracy** (with reference to actual feed rate) | ± 0,25 % to ± 0,5 % | | | | |
| **Bulk density** | 200 – 1.300 kg/$m^3$ (12.5 – 81 lbs./cu.ft) | | | | |
| **Application temperature** | –10° bis +40° C (14 °F to 104 °F) | | | | |
| **AC drive** | 0,37 kW | | | | |
| **Bulk material flow characteristics** | free-flowing / non-flushing | | | | |

# MULTIDOS® M Weighfeeders

**Continuous gravimetric measuring and feeding – accurate, economical, reliable**

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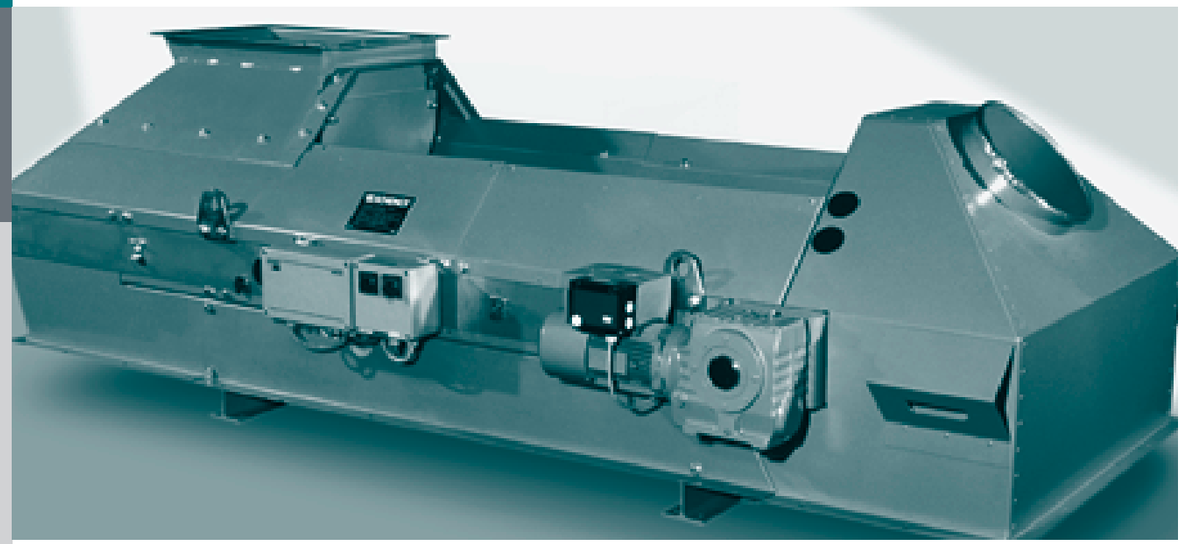


A multi-talent for all feeding and weighing applications has been created in the form of the Schenck Process MULTIDOS® family with application-specific series to fit every need. The MULTIDOS® M series weighfeeders cover a wide range of applications for all bulk solids with feed rates up to approximately 450 t/h [metric].
A broad spectrum of feeding devices appropriate for each bulk solids characteristics round out the wide range of possible applications. MULTIDOS® is often used as a belt weigher to record bulk solids mass flows or as a batching system.

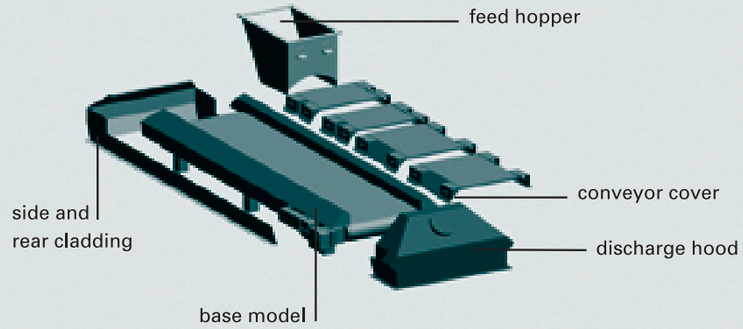
## Applications

- Polymer powder in granulation plants
- Mineral bulk solids, phosphates, and salts in fertilizer plants
- Salts in table salt processing plants
- Grains, flour, and starch in large-scale mills
- Tobacco in the tobacco industry
- Sawdust and wood chips in particle board plants
- Base powder in detergent production plants
- Sand, soda, and glass fragments in glassworks



## Advantages

- Automatic belt cleaning system provides a clean weigher environment
- Cost-effective cladding and cover of the run way
- Tensioning spindles integrated into the side wings
- Safe belt tracking and monitoring
- The right charging device for any bulk solids
- Simple belt change with no auxiliary equipment
- MechaTronic concept using DISOCONT®
- Bulk solids lab for material tests such as shear testing, etc.
- Process expertise to help you select the feeding system that's right for you




### Our Solutions Package

- Belt conveyor
- AC drive system with speed sensor
- Bulk solids charging device (selection depends on bulk solid to be fed)
- DISOCONT® or INTECONT® electronic measuring and control device
- Maintenance-free weighing module with high-resolution DMS load cell
- All contact parts of stainless steel
- Conveyor belts customized for specific bulk solids, e.g., FDA approved design

### Special Features

- Robust weigher mechanics
- Automatic belt tracking system
- Automatic belt cleaning system
- Weighted belt tensioning station
- Tensioning spindles integrated into the frame
- Belt influence compensation (BIC) using smart software

### Bulk Solids Feeding

The selection of the type of bulk solids charging is dependent on the flow characteristics of the bulk solid:

- Type of bulk solid
- Grain size range
- Humidity

| MULTIDOS® M | | | | | |
|---|---|---|---|---|---|
| Belt width (mm) | 650 (25.6″) | 800 (31.5″) | 1,000 (39.4″) | 1,200 (47.2″) | 1,400 (55.1″) |
| Suggested max. feed rate (t/h) for a bulk density of 1.0 t/m³ | 70 | 150 | 250 | 350 | 450 |
| Measuring/feeding accuracy | ± 0.25 – 0.5%, depending on actual value in a specific range | | | | |
| Minimum distance between conveyor centers (mm) | 1,500 (59″) | 1,500 (59″) | 1,500 (59″) | 2,000 (78.7″) | 2,000 (78.7″) |
| Maximum distance between conveyor centers (mm) | | | up to 8,000 (315″) | | |