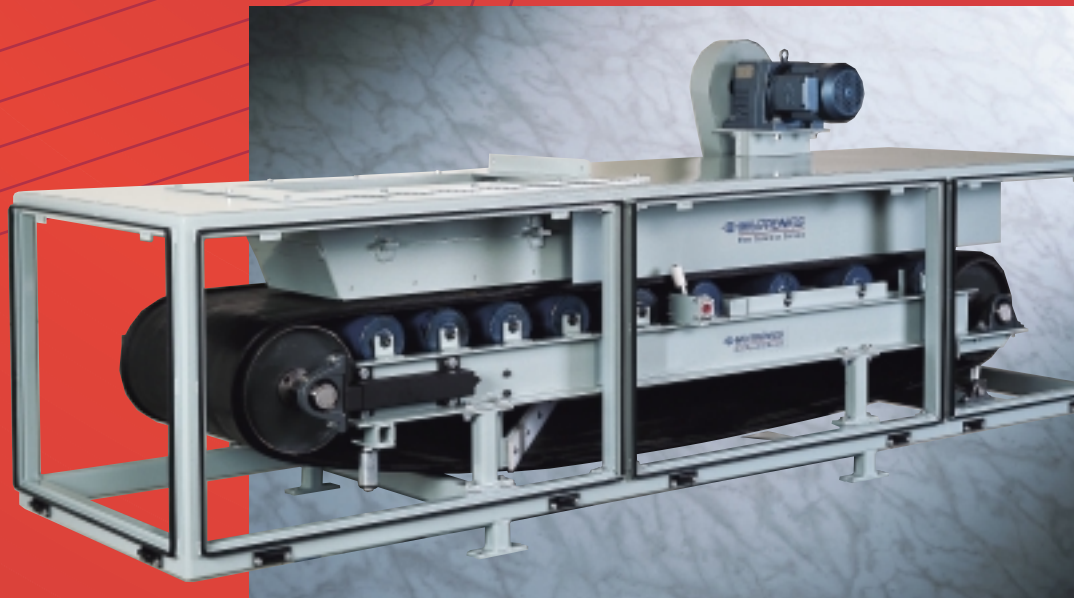




Autoweigh Feeder Series 1200/3600

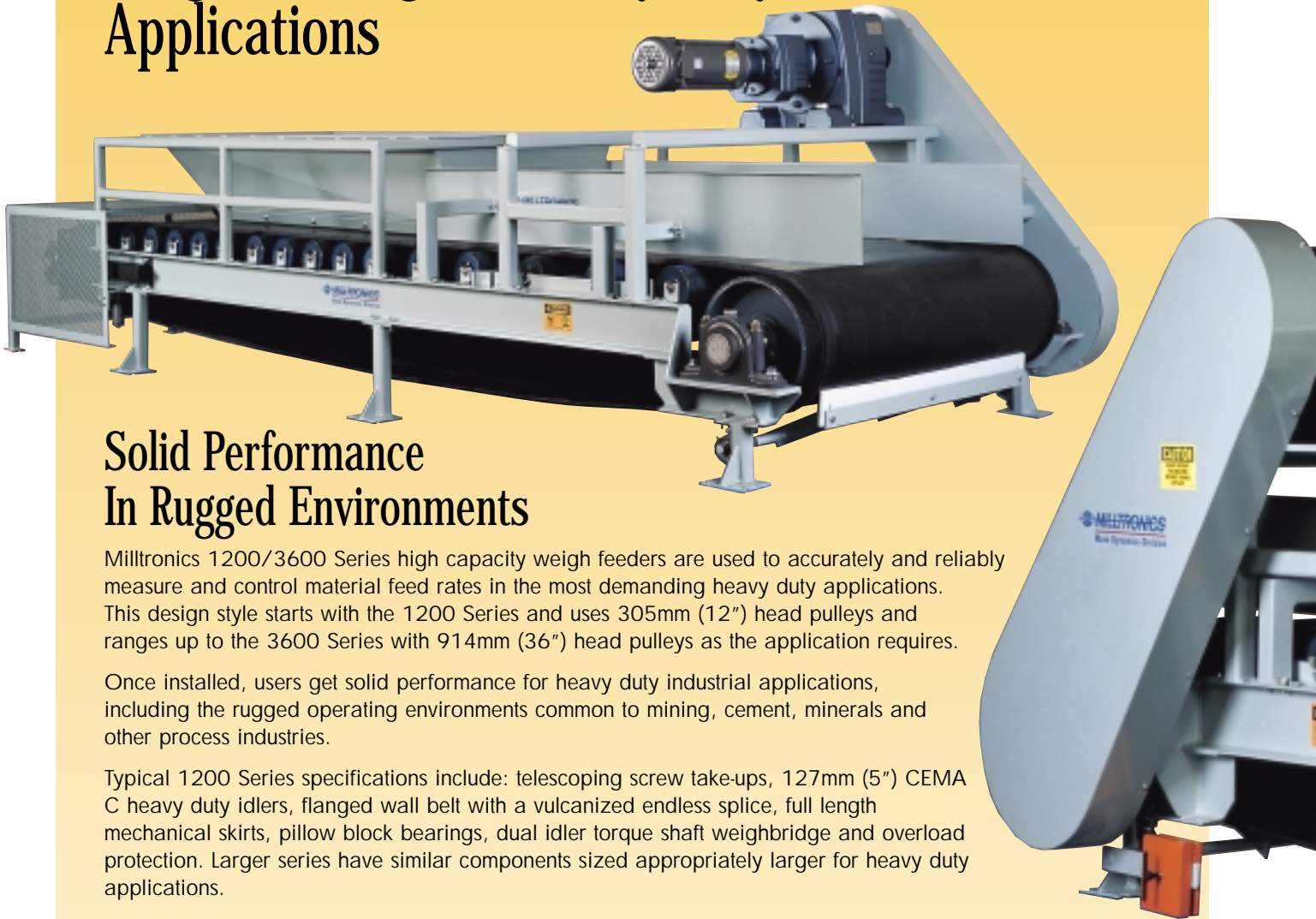
A New Generation of Weigh Feeders



 **MILLTRONICS**
Mass Dynamics Division



Weigh Feeding For Heavy Duty Industrial Applications



Solid Performance In Rugged Environments

Milltronics 1200/3600 Series high capacity weigh feeders are used to accurately and reliably measure and control material feed rates in the most demanding heavy duty applications. This design style starts with the 1200 Series and uses 305mm (12") head pulleys and ranges up to the 3600 Series with 914mm (36") head pulleys as the application requires.

Once installed, users get solid performance for heavy duty industrial applications, including the rugged operating environments common to mining, cement, minerals and other process industries.

Typical 1200 Series specifications include: telescoping screw take-ups, 127mm (5") CEMA C heavy duty idlers, flanged wall belt with a vulcanized endless splice, full length mechanical skirts, pillow block bearings, dual idler torque shaft weighbridge and overload protection. Larger series have similar components sized appropriately larger for heavy duty applications.

Field tested and proven in hundreds of applications, the 1200/3600 Series improves blend consistencies, reduces downtime and improves both accountability and record keeping. The 1200/3600 Series can also blend continuously, eliminate inaccuracies and inefficiencies, improve profitability and automate production processes. Weighing accuracies of +/- 0.5% can be expected.

- Heavy Duty Industrial Design
- Open Construction with Optional Cantilevered Frame
- Enclosed Construction with Cantilevered Frame
- Rugged and Durable
- High Capacity
- Flexible Design

Unique Weighbridge Design

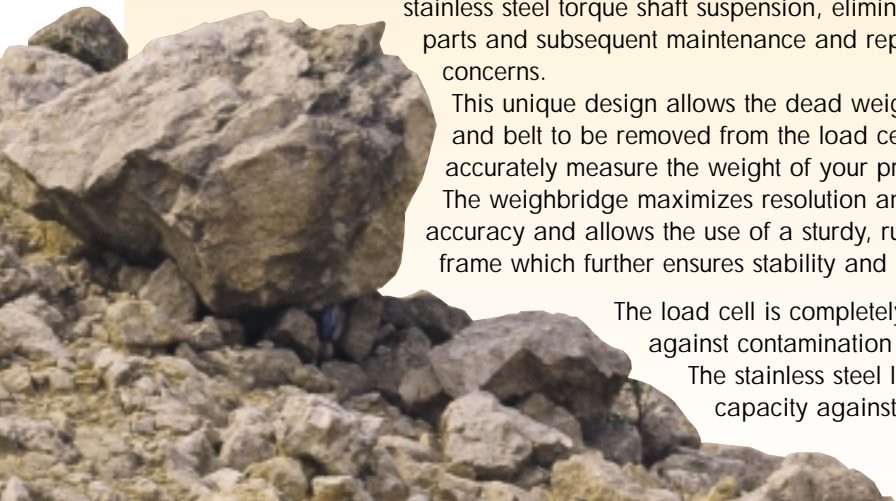
The 1200/3600 Series weighbridge is composed of a patented dual idler stainless steel torque shaft suspension, eliminating all moving parts and subsequent maintenance and replacement concerns.

This unique design allows the dead weight of the idlers and belt to be removed from the load cell so it can more accurately measure the weight of your product.

The weighbridge maximizes resolution and weighing accuracy and allows the use of a sturdy, rugged and rigid frame which further ensures stability and repeatability.

The load cell is completely encapsulated and hermetically sealed to guard against contamination from dust, moisture, or corrosion.

The stainless steel load cell is protected to 1000% of its rated capacity against overload for the ultimate in reliability.



Standard Or Custom Built Options

The 1200/3600 Series is available in a variety of belt sizes, belt widths, inlet configurations and materials of construction. Belt widths from 460mm (18") to 1830mm (72") and lengths from 2.35m (7'9") make it the logical choice for high capacity heavy duty applications. The standard 1200/3600 Series uses a flat belt with corrugated flanged sidewalls and vulcanized endless splice.

A wide variety of belting choices are available to suit a particular application. Full length mechanical skirting helps to maintain the material on the belt.

Open or enclosed construction meets your exact requirements. Contact surfaces are painted steel (standard), abrasion resistant steel (optional), or stainless steel (optional).

The 1200/3600 Series can be built in a variety of configurations to suit particular application requirements. Standard sizes are available or the unit can be customized to unique specifications.



How It Works

The weigh feeder is used to deliver an accurate mass flow rate of material. The material is profiled by an adjustable mechanical shear gate which fixes the correct material bed depth for a given material particle size.

The feed rate is then maintained and adjusted by varying the speed of the belt.

The system consists of three components: weight and speed sensing, integration and control, and the mechanical conveying system.

Using the belt load and the belt speed sensors, small incremental totals of weight are measured and then the flow rate is calculated.

The measured flow rate is compared against the desired flow rate and the on board PID controller makes necessary corrections to the belt speed.



Long Service Life

The 1200 Series features heavy duty 127mm (5") idlers, with precision ground ball bearings, triple labyrinth seals and sealed lubrication to provide more uptime than other comparable weigh belt feeders. Large diameter 305mm (12") head and tail pulleys provide maximum traction with minimum belt tension.

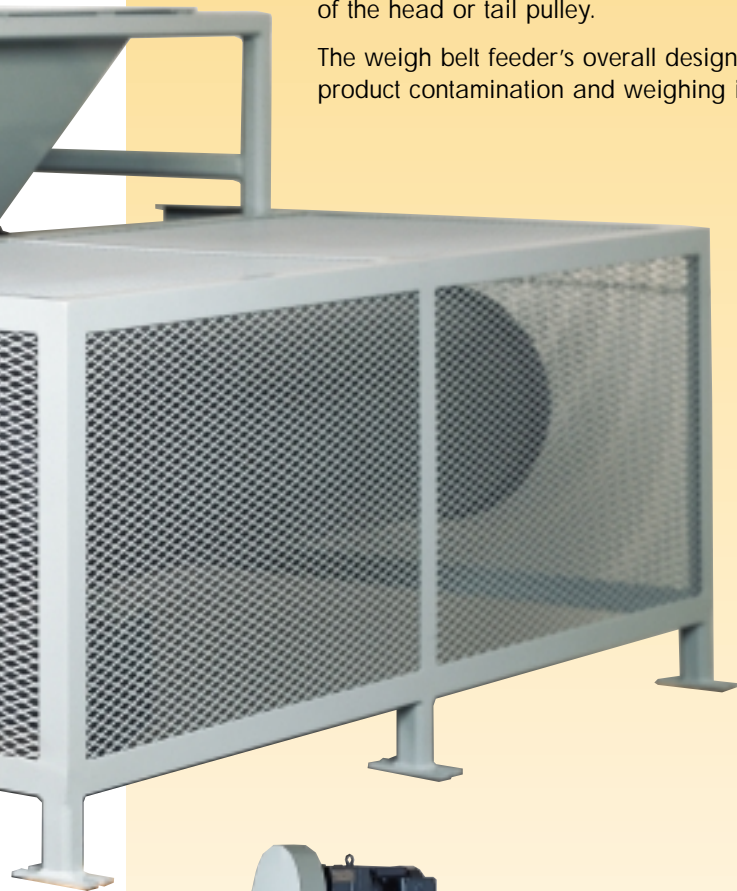
Larger diameter idlers and head pulleys are used where heavy belt loading or large silo openings require their use.

All units feature gravity tensioned belt cleaners to effectively remove leftover product from the belt and minimize maintenance to provide more operating time. Available options include return belt plows, belt misalignment switches, emergency pull cords, de-dusting hoods, sample gates and many others.

Easy To Maintain

The completely self-contained conveyor section on the enclosed model uses a cantilevered structural steel frame for quick and easy belt removal. This allows the use of a vulcanized endless belt for maximum weighing consistency. If required, the belt can be replaced without the removal of the head or tail pulley.

The weigh belt feeder's overall design eliminates areas of material build-up that can cause product contamination and weighing inaccuracies.

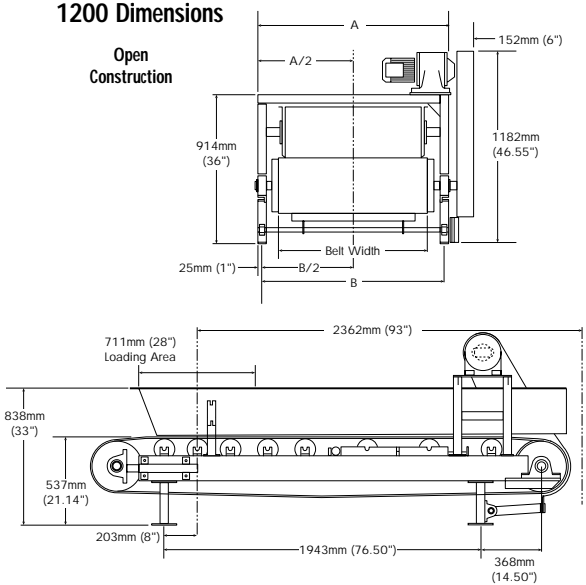




1200 Series Specifications

Accuracy	+/- 0.5%	Belt Tension	Screw type, telescoper module with 203mm (8") to 305mm (12") travel depending on application.
Operating Temperature	-10° to 60°C (14°F to 140°F) with higher temperatures available.	Idlers	Heavy duty 127mm (5") CEMA C with ball bearings and triple labyrinth seals.
Materials	Mild steel with stainless steel contact parts optional.	Belting	SBR rubber belting, 225 PIW 2-ply 3mm (1/8") x 2mm (1/16") covers vulcanized endless with 76mm (3") flanged walls as standard. Many other types available.
Load Cells	Hermetically sealed strain gauge load cell(s) of corrosion resistant construction with mechanical overload protection.	Drive	1 HP, TEFC, 208/230/460 Vac, three phase or 90/180 Vdc permanent magnet. Both with helical gear reducer, sprocket and chain drive combination. Larger motor sizes and other drive packages available.
Speed Sensor	Industrial duty, digital optical encoder, tail shaft mounted.	Belt Cleaning	Gravity tension UHMW blade at head pulley.
Framework	Cantilevered for quick and easy belt removal on enclosed units.		
Pulleys	305mm (12") crowned with (10mm) 3/8" rubber lagging on drive pulley for maximum traction and minimum belt tensions.		

1200 Dimensions

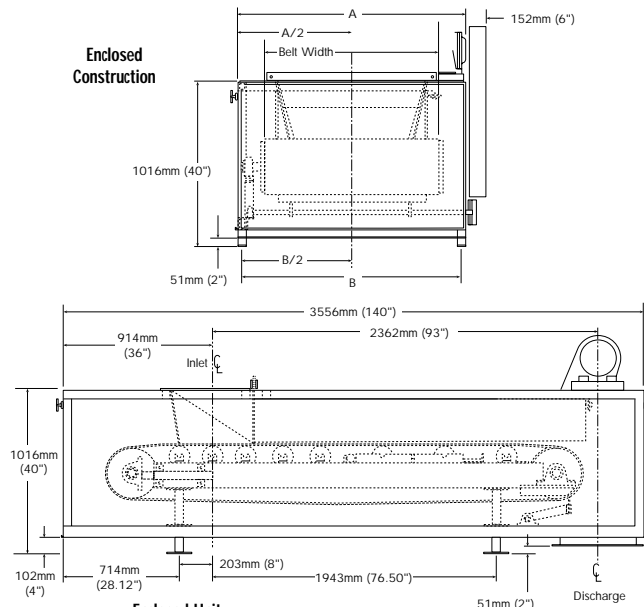


Open Unit

Belt Width	A	B
457mm (18)	686mm (27.00)	635mm (25.00)
610mm (24)	839mm (33.00)	788mm (31.00)
762mm (30)	991mm (39.00)	940mm (37.00)
914mm (36)	1143mm (45.00)	1093mm (43.00)
1067mm (42)	1296mm (51.00)	1245mm (49.00)
1219mm (48)	1448mm (57.00)	1397mm (55.00)

Dimensions in mm (inches).

*Standard components include belt weigh bridge, speed sensor, test weights, integrator and packaging. Shipping weight 820kg (1800lbs) to 1455kg (3200lbs) typical. Our continuous program to improve our products may result in changes to design and specification without notice.



Enclosed Unit

Belt Width	A	B
457mm (18)	788mm (31)	737mm (29)
610mm (24)	940mm (37)	889mm (35)
762mm (30)	1093mm (43)	1042mm (41)
914mm (36)	1245mm (49)	1194mm (47)
1067mm (42)	1397mm (55)	1347mm (53)
1219mm (48)	1550mm (61)	1499mm (59)

Dimensions in mm (inches).

LARGER SERIES SPECIFICATIONS ON REQUEST PER APPLICATION REQUIREMENTS



Representative

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