Belt Scales

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Part #	Description	Est. Weight	Price
215021	Master 311 belt scale weigh frame, 18 in belt with 75 kg load cell	125 lb	\$1,300.00
215022	Master 311 belt scale weigh frame, 24 in belt with 75 kg load cell	125 lb	\$1,300.00
215023	Master 311 belt scale weigh frame, 24 in belt with 150 kg load cell	125 lb	\$1,300.00
215025	Master 311 belt scale weigh frame, 30 in belt with 150 kg load cell	125 lb	\$1,400.00
215030	Master 311 belt scale weigh frame, 30 in belt with 250 kg load cell	125 lb	\$1,400.00
215031	Master 311 belt scale weigh frame, 36 in belt with 250 kg load cell	125 lb	\$1,500.00
Consult	Lifting weight kit		Consult

Please complete the Belt Scale Application on page 158 to obtain a quote

Standard Features

- Semi-modular weigh frame design
- Weigh frame without moving parts
- Fits standard conveyors
- Mounts with four bolts
- Requires weigh frame cutting for proper fit
- Minimal modifications to conveyor required

Options

- Galvanized or stainless construction
- Custom widths available
- Custom lifting weights available on request

Applications

• Mining, quarries, bulk material blending, process control and retrofit

Specifications

Belt Width:

18 to 36 in (457 to 914 mm) **Capacity:**

1,500 tons per hour

Belt Speed:

Maximum 400 ft/minute (2 m/s)

Inclination: Maximum 12 degrees

Material:

Powder coated mild steel

Accuracy System:

Load Cell:

RL1218A: 50 kg, 100 kg, 250 kg

Warranty:

One-year limited

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Part #	Description	Est. Weight	Price	
163292	221DB belt scale with 50 kg load cells	143lb	\$3,500.00	
163293	221DB belt scale with 100 kg load cells	143lb	\$3,500.00	
163294	221DB belt scale with 200 kg load cells	143lb	\$3,500.00	
202591	221DB stainless steel belt scale with 50 kg load cells	143lb	\$5,200.00	
202592	221DB stainless steel belt scale with 100 kg load cells	143lb	\$5,200.00	
202593	221DB stainless steel belt scale with 200 kg load cells	143 lb	\$5,200.00	

Please complete the Belt Scale Application on page 158 to obtain a quote

Standard Features

- Weigh frame is mounted on the outside of conveyor
- Minimal modifications to conveyor are required
- Service friendly
- Friction-free pivot supports
- Two support beams
- Fits standard conveyors
- Mounts with four bolts

Options

• Galvanized or stainless construction

Applications

• Medium to heavy capacity

Specifications

Conveyor Width: 18 to 72 in (457 to 1,829 mm)

Capacity:

- 3,300 tons per hour
- Maximum Belt Speed:
- 800 ft/minute (4 m/s)

Inclination: Maximum 25 degrees

- Material:
- Powder coated mild steel
- Accuracy System:

0.5% to 1%

- Load Cell: RL9018SS: 50 kg, 100 kg, 200 kg
- Junction Box:

JB4SS

- Warranty:
- One-year limited



Part #	Description	Price
Consult	Lifting weight kit	Consult
Please comple	ete the Belt Scale Application on page 158 to obtain a quote	

Standard Features

- Friction-free pivot points
- One load cell carrier beam
- Fits standard conveyors
- Custom built for each application

Options

- 304/316 Stainless steel
- Dual load cells
- Dual idler
- Custom lifting weights available on request

Applications

• Medium to heavy capacity, mining and agriculture

Specifications

- **Conveyor Width:** 20 to 80 in (500 to 2,000 mm)
- Capacity: 3,000 tons per hour
- **Maximum Belt Speed:**
- 800 ft/minute (4 m/s)
- **Maximum Inclination:** 25 degrees
- Material:
- Powder coated mild steel
- Accuracy System: 0.5%

Load Cell:

- RL20001 alloy steel, S-beam (capacity selected from application)
- Warranty:
- One-year limited

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Part #	Description	Price
Consult	Master 142	Consult
Consult	Master 143	Consult
Consult	Master 144	Consult
Consult	Lifting weight kit	Consult

Please complete the Belt Scale Application on page 158 to obtain a quote

Standard Features

- Custom built for each application
- Fits standard conveyors
- Multiple idler design
- Inner frame has free-floating platform

Options

- 304 stainless steel
- Two, three or four weigh idlers
- Customer lifting weights available upon request

Applications

• Medium to heavy capacity, mining and aggregate

Specifications

- **Conveyor Width:** 20 to 120 in (500 to 3,000 mm)
- Capacity: 20,000 tons per hour
- Belt Speed: 1,400 ft/ minute (7 m/s)
- Inclination:
- 25 degrees

Material:

- Powder coated mild steel
- Accuracy Guidelines: 0.25%

Load Cell:

RL20001 alloy steel S-beam (capacity selected from application)

Warranty:

One-year limited





Part #	Description	Price
Consult	421 weigh frame	\$2,575.00
Please complete the Belt Scale Application on page 158 to obtain a quote		

Standard Features

- Ideal for flat belt conveyors
- Roller supported on both sides by load cells
- Open design for easy cleaning

Applications

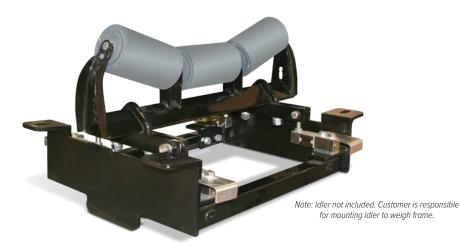
• Light capacity, food production and light granular materials

Specifications

- **Conveyor Width:** 12 to 60 in (300 to 1,600 mm)
- Capacity:
- 30 tons per hour
- Belt Speed: 400 ft/minute (2 m/s)
- Inclination:
- 10 degrees
- Material:
- Powder coated mild steel, 304 / 316 stainless steel
- **Accuracy Systems:** 0.5%
- Load Cell:
- RL9018SS single-ended beam in 10 kg, 20 kg or 50 kg capacities

Warranty:

One-year limited



Part #	Description	Est. Belt Width	Capacity	Price		
Mild Stee	Mild Steel Weigh Frames					
94968	24 in weigh frame	18 in	500 lb	\$2,800.00		
95208	30 in weigh frame	24 in	500 lb	\$2,800.00		
95209	36 in weigh frame	30 in	500 lb	\$2,800.00		
95210	42 in weigh frame	36 in	500 lb	\$2,800.00		
95211	48 in weigh frame	42 in	500 lb	\$2,800.00		
95212	54 in weigh frame	48 in	500 lb	\$2,800.00		
96717	60 in weigh frame	54 in	1,000 lb	\$2,800.00		
96718	66 in weigh frame	60 in	1,000 lb	\$2,800.00		
96719	72 in weigh frame	66 in	1,000 lb	\$2,800.00		
Consult	Light-capacity weigh frames			\$3,185.00		
Stainless	Steel Weigh Frames					
110839	24 in weigh frame	18 in	500 lb	\$5,300.00		
105246	30 in weigh frame	24 in	500 lb	\$5,300.00		
110841	36 in weigh frame	30 in	500 lb	\$5,300.00		
110842	42 in weigh frame	36 in	500 lb	\$5,300.00		
110843	48 in weigh frame	42 in	500 lb	\$5,300.00		
110844	54 in weigh frame	48 in	500 lb	\$5,300.00		
110845	60 in weigh frame	54 in	500 lb	\$5,300.00		
110846	66 in weigh frame	60 in	500 lb	\$5,300.00		
110847	72 in weigh frame	66 in	500 lb	\$5,300.00		
Consult	Light-capacity weigh frames			\$4,595.00		
Weigh Fra	me Accessories					
126282	V-bolt for 3 in angle iron base idlers set of 2			\$95.00		
126283	V-bolt for 4 in angle iron base idlers set of 2			\$105.00		

Please complete the Belt Scale Application on page 158 to obtain a quote

Standard Features

- Fits standard conveyors using CEMA-C idlers
- No moving parts
- Four shear laterally opposed shear beam load cells
- Fabricated with heavy gauge steel
- Minimal conveyor modifications required for installation

Applications

 Mining, quarries, bulk material blending, process control, utilities, truck/barge/rail loading and retrofit

Specifications

Conveyor Widths:

- 18 to 72 in

Capacity: Up to 10,000 tons per hour

Belt Speed: Up to 1,200 feet per minute

Accuracy Guidelines: Guidelines assume clean belt with automatic tensioning system. Accuracy guidelines are typical. System accuracy may vary depending on environmental influences.

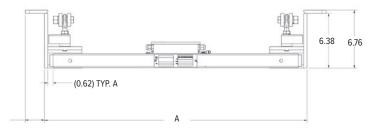
System Accuracy:

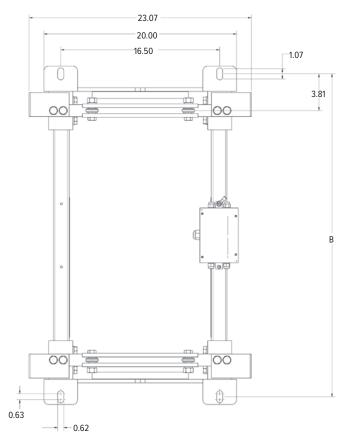
Single to two idler system: 0.5% to 1% total error

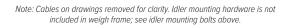
Dimensions

Part Number	Α	В
Mild Steel		
94968	24.00 in	27.50 in
95208	30.00 in	33.50 in
95209	36.00 in	39.50 in
95210	42.00 in	45.50 in
95211	48.00 in	51.50 in
95212	54.00 in	57.50 in
96717	60.00 in	63.50 in
96718	66.00 in	69.50 in
96719	72.00 in	75.50 in

Part Number	А	В
Stainless Steel		
110839	24.00 in	27.50 in
105246	30.00 in	33.50 in
110841	36.00 in	39.50 in
110842	42.00 in	45.50 in
110843	48.00 in	51.50 in
110844	54.00 in	57.50 in
110845	60.00 in	63.50 in
110846	66.00 in	69.50 in
110847	72.00 in	75.50 in







882D Belt Scale Integrator



Approvals

Standard Features

- LCD display
- · Hardware slot for two option cards

CE

- · Operator access to audit trail, preset tare, accumulator, time & date and setpoints through menu keys
- · Password protected audit trail tracking for configuration and calibration changes
- Setpoints for control and alarms
- Four onboard digital I/O channels
- Four programmable ticket formats up to 1,000 characters
- · Filter settings for noise
- · Speed inputs

Part Number/Price

Part #	Description	Price
Integrators		
177708	120 VAC	\$2,115.00
180847	220 VAC Euro power cord	\$2,115.00
184683	9 to 36 VDC	\$2,275.00

Options/Accessories

Part #	Description	Price
190527	Digital I/O	\$365.00
190528	Single analog	\$425.00
190529	Relay interface, not for totalizer pulse count output	\$470.00
177850	Panel mount option 880	\$215.00
197724	Overlay, clear protective	\$75.00
Network Ca	ards	
190530	Ethernet/IP	\$620.00
190531	DeviceNet	\$620.00
190532	ProfiNet	\$620.00
190534	Profibus	\$620.00
190533	Modbus TCP	\$620.00
190535	EtherCAT	\$620.00

Please complete the Belt Scale Application on page 158 to obtain a quote

Specifications

Power

Input voltages: 100 to 240 VAC; 9 to 36 VDC Input frequency: 50/60 Hz

Power Consumption: AC: 15 watts; DC: 20 watts

Excitation Voltage:

10 VDC 8 × 350 ohm (16 × 700 ohm) load cells Analog Signal Input Range:

-45 mV to 45 mV

Analog Signal Sensitivity: $0.3 \,\mu V/graduation$ minimum at 7.5 Hz; 1.0 µV/graduation typical at 120 Hz

Sample Rate: 7.5 to 120 Hz, software selectable

Resolution: Internal: 8,000,000 counts 23-bit

Display: 100,000 System Linearity:

± 0.01% full scale

Digital I/O:

Four I/O onboard primary keys, pseudo functions, batching functions

Communication Ports:

RS-232 full duplex or RS-485 half duplex; USB 2.0 Micro B connector; Ethernet TCP/IP

Pulse Input:

Dual inputs for redundancy

Display: LCD display, 0.8 in, seven-digit, seven-segment weight display, 3 × 20 pixelated prompt area

Annunciators:

Load, total, rate, speed, zero

Keus/Buttons: Flat membrane panel, tactile feel

Operating Temperature:

Industrial: 14 °F to 122 °F (-10 °C to 50 °C)

Dimensions:

 $(L \times W \times H)$ 9.93 × 4.00 × 8.94 in

Weight:

12 lb (5.4 kg) Rating/Material:

- IP66
- Stainless steel
- Warranty:

Two-year limited **EMC** Immunity:

- 18 KV, 10 V/m
- Approvals:

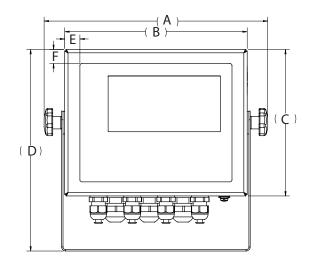
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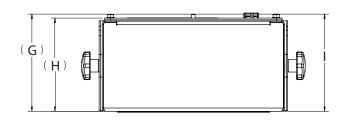


882D Belt Scale Integrator

Dimensions

882D Belt Scale Integrator			
А	9.93 in (252 mm)	F	0.63 in (16 mm)
В	8.10 in (206 mm)	G	4.31 in (110 mm)
С	6.50 in (165 mm)	Н	4.14 in (105 mm)
D	8.94 in (227 mm)	1	4.32 in (110 mm)
E	0.68 in (17 mm)		





Belt Scale Accessories

• The speed sensor monitors belt speed.

It is directly coupled to a rotating shaft which drives a signal generator. The speed sensor submits an output signal at a frequency directly proportional to the shaft speed. It is typically installed on a non-driven pulley of a belt conveyor for detecting belt speed.

Standard Features







Speed Wheel

High-resolution Speed Sensor

Magnetic Coupler



Speed Sensors 125334 and 163319

Part Number/Price

Part #	Description	Price
Speed Se	nsing	
152626	500 PPR high-resolution encoder kit, requires 152247 if magnetic coupling is required	\$1,600.00
152247	Magnetic coupler, use with 152626	\$500.00
125334	Speed sensor, belt scale 50 PPR (generator type)	\$1,200.00
163319	Speed sensor, belt scale 600 PPR (encoder type)	\$1,200.00
94969	Speed wheel assembly, 10 PPR NPN Configuration	\$1,000.00
Static We	ights	
99708	15 lb weight	\$215.00
99709	30 lb weight	\$275.00
99696	3 in static weight mounting bracket (set of two)	\$535.00
99922	4 in static weight mounting bracket (set of two)	\$600.00
Speed Se	nsor Replacement Parts	
94979	Sensor proximity, for 94969	\$115.00
98320	Shoulder bolt, for 94969	\$15.00
95216	Bushing, speed wheel for 94969	\$12.75
192927	Coupler, replacement for 125334 and 163319	\$175.00
Accessor	ies	
97416	Kit, shim 50 each 1/16 in, 1/8 in and 1/4 in thick	\$95.00
21161	Junction box, splice single cell	\$80.00
98501	Cable, load cell custom, 20 ft EL146HE	\$34.50

Idler hardware not included with weigh frames



Belt Scale Application



Company	Pr	epared By	Date	e	
Address					
City		State/Zip/Country			
Phone	Fax		Email		
Application Notes:					
		MATERIAL			
Material being meas	ured	Bulk	CDensity (kg/l) (lb/cu. ft))	
Corrosive state of m	aterial (choose one)	🗖 High	Moderate	Not Corrosive	е
Feed Rate t/hr:	min	max.	Accuracy Required: +/-		_%
Constant Feed Rate:	🗆 Yes 🗖 No				
		CONVEYOR			
Application:	□ Inventory	Load out	Control	Blending	
	izontal 🗖 Incline/Declii			0	ved
	ng Apparatus: 🗖 Yes	Ū.		0	
	g in direction of belt travel)		🗖 Right	🗖 Both	
Area Classification:	Zone	Class Divis	sion		
Does the current co	nveyor have scale grade idle	ers? 🛛 Yes 🗖 No			
Belt Speed (ft/m per	minute): min	max.			
Condition of belt?					
What type of splice of	does the belt have?				
Belt Length:	m/ft Belt Wid	lth: mm/in	Belt Cleaning Device	e: 🗆 Yes 🛛 🗆 N	0
Idler Diameter:	mm/in Idler Sp	acing: mm/in	Tail Pulley Diameter:	: mm/	′in
Trough Angle:	degrees Convey	or Length: ft/	m		
(Supply sketch when	e possible)	Sketch Attached			
	INTEC	GRATOR REQUIREM	ents		
Enclosure Type:	□ Field Mount/Universal	Panel Mount	🗖 Wall Mount		
Power Available:	🗖 115 V	□ 230V	9 -36VDC		
Communications:	AB Remote I/O	Device Net	Profibus-DP	Ethernet IP	
	Analog Output	RS-232 (standard)	Ethernet TCP/IP	Control Net	
Remote Display Rate	e: 🗆 Yes 🗖 No	Remo	ote Display Totalizer:	□ Yes □ No	
Speed Sensor:	Speed Wheel	Shaft Encoder	Magnet		

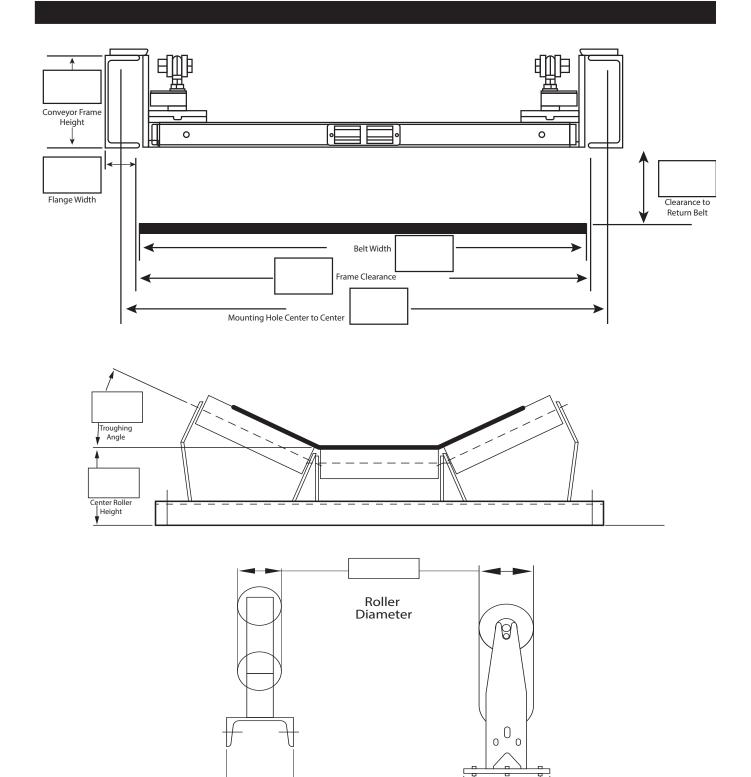
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