

# FAIRBANKS<sup>®</sup>

## S C A L E S



### **FB9000 Series**

**CONVEYOR BELT SCALES**

Heavy-duty, in-motion scales that fit any conveyor belt width, are easy to install and self-calibrate, and provide accurate, repeatable performance.

# FB9000 Series

## CONVEYOR BELT SCALES

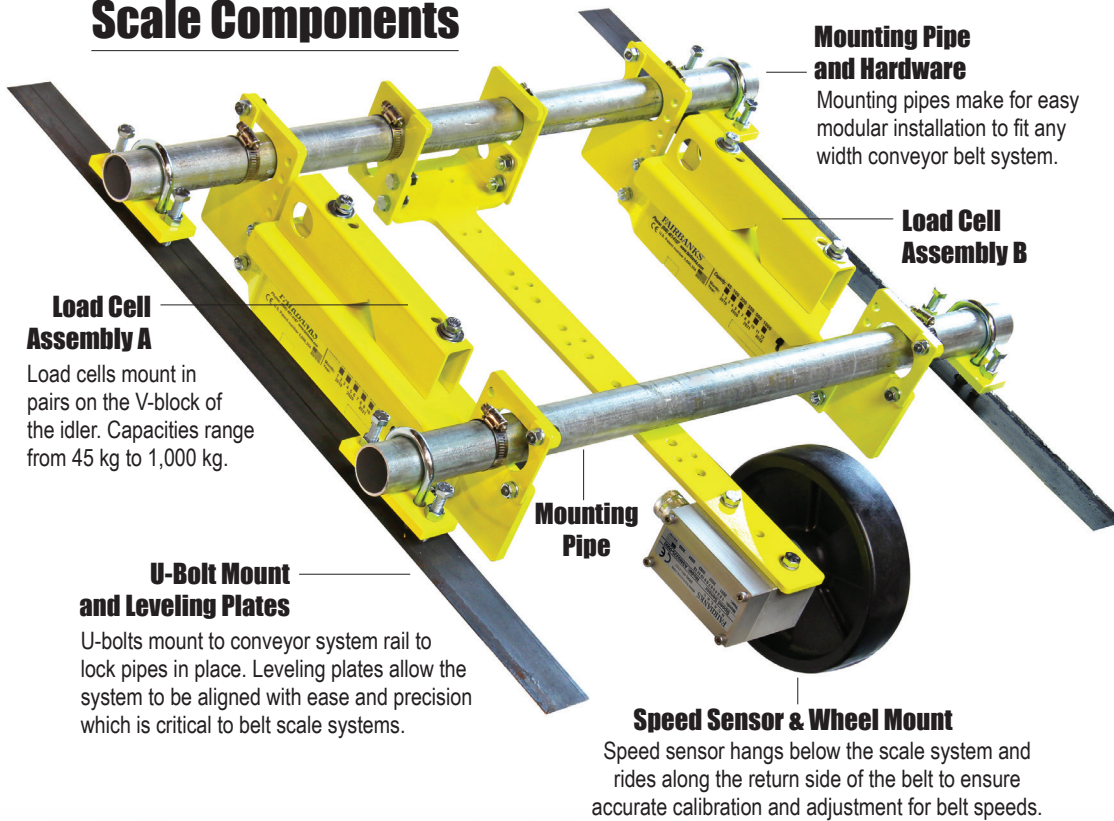
Measure conveyor output by product, per shift or per day!

### Reliable, Accurate, In-Motion Conveyor Belt Weighing Solutions

Plant managers can achieve maximum productivity while maintaining excellent product quality with our highly accurate and versatile conveyor belt scales.

Scale purchase includes all components shown, plus an FB9000 Integrator!

#### Scale Components



#### Load Cell Assembly A

Load cells mount in pairs on the V-block of the idler. Capacities range from 45 kg to 1,000 kg.

#### U-Bolt Mount and Leveling Plates

U-bolts mount to conveyor system rail to lock pipes in place. Leveling plates allow the system to be aligned with ease and precision which is critical to belt scale systems.

#### Mounting Pipe and Hardware

Mounting pipes make for easy modular installation to fit any width conveyor belt system.

#### Load Cell Assembly B

#### Speed Sensor & Wheel Mount

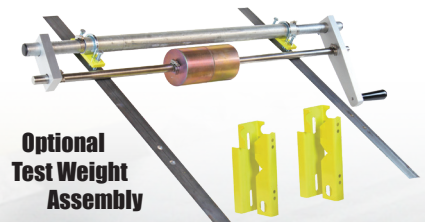
Speed sensor hangs below the scale system and rides along the return side of the belt to ensure accurate calibration and adjustment for belt speeds.

#### Unique Design

The FB9000's patented, self-aligning weighbridge accurately measures the force of material, without the use of levers, linkage, or other mechanical apparatus known to produce non-linearity.

#### Exceptional Features

- Fits any width conveyor
- Standard and custom capacities
- Easy installation/calibration
- Accurate to +/- 0.5%
- OIML certified load cells
- Advanced weatherproof electronics
- Durable and repeatable
- Optional self-storing Test Weight Assembly mounts permanently to the conveyor for fast, convenient, "anytime" scale calibration.



#### Optional Test Weight Assembly



# FB9000 Integrator Dynamically Monitors Flow Rate Performance

## Integrator Features & Functions

Dynamic Tare and Clear weight adjustment by simple pushbutton operation

Accumulated weight

Display hourly flow rate by choice of Tons, Lbs, Kgs or Tonnes

Automatic Zero adjustment

Both resettable and non-resettable Totals



Weatherproof enclosure

Optional analog or digital output

Easy to install

Easy to calibrate

Accurate, repeatable

### Remote Display Tracks Multiple Integrators

One Indoor Remote Display accessory monitors up to six Integrators!



REMOTE DISPLAY		09/14/2021		03:00	
BELT ONE	3097.04	21	186	ZERO CAL	RESET TONS
	4003.09	22	188		RESET TONS
	3477.03	20	180		RESET TONS
	0	0			RESET TONS
	0	0			RESET TONS
	0	0			RESET TONS
MENU		HELP	SCREENSHOT	DECIMAL PLACES: 2	ZERO ALL
					RESET ALL

### Additional Outdoor Protection

Secure enclosure houses Integrator and on/off switch.



# FB9000 Series CONVEYOR BELT SCALES

Weighing Solutions for the World since 1830

Fairbanks.com

## SPECIFICATIONS

### Load Cell Mount

Capacities	.45 kg to 1,000 kg (100 lbs to 2,200 lbs)
Mount construction	Yellow powder coated steel
Load cell construction	Aluminum
Load cell cable length	.30 feet
Zero balance	0.002
Non linearity	< 0.02% R.O.
Hysteresis	< 0.02% R.O.
Insulation resistance	> 5000 MΩ megohms
Input impedance	.350 ohms
Output impedance	.420 ohms
Safe overload	.150% F.S.
Temperature effect on zero	<.015% F.S. / 100 F
Temperature effect on span	<.008% F.S. / 100 F
Power	AC
Idler compatibility	Single or dual
Speed sensor	Wheel mount
Mounting widths	.48", 60", 72"

### Integrator

Calibration	.Automatic tare weigh determination, dynamic test and recalibration, automatic zero adjustment
Alarms	.Load cell failure, belt speed zero
Communications	.Ethernet port supports Modbus/TCP, USB port available for data download and firmware updates
Display	.Large color graphic display with multi-language support
Power requirements	.100-240 VAC, 1A, 50-60 Hz
Operating temperature	.-4° F to 113° F (-20° C to 45° C)
Load cell inputs	.Eight (8) independent load cell inputs
Excitation	.Nine (9) VDC
Options	.4-20 mA (Tons per hour); Other available configurations: Systems for portable plants, Stainless steel load cell mounts, DC powered Integrator
Accessories	.Remote Display, Protective Outdoor Box for Integrator, Junction Box, Self-storing Test Weight Assembly

## APPLICATIONS



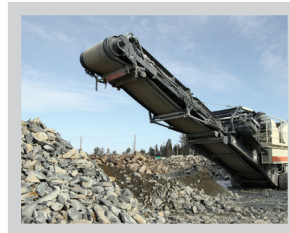
### Stationary Plants

Accurate, repeatable tracking of product totals and ratios is a crucial element of plant management. The FB9000 Series scales offer high resolution weighing of all products, even low flow rate applications.



### Portable with Angle Sensor

The FB9000 Series scales are uniquely suited for all portable applications. Our modular design allows for installation on virtually any style conveyor, including low profile and spine conveyors.



### Catenary Idler

The FB9000 Series' automatic angle compensation feature enables repeatable, accurate weighing on catenary style idlers, such as those used on track-mounted portable crushers and asphalt milling machines.



### Load Out

Rail, barge, truck and ship load out requires high accuracy in the most rugged environments. The FB9000 Series is known for high accuracy at flow rates up to 10,000 tons per hour, and it has built-in load out controls for automated cutoff.

Your Fairbanks Scales Authorized Representative is:

Call toll-free for the representative nearest you:

**(800) 451-4107**

Call between 8:00 a.m. – 5:00 p.m. Central Time

Corporate Headquarters: 6800 W. 64th Street, Overland Park, Kansas 66202

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