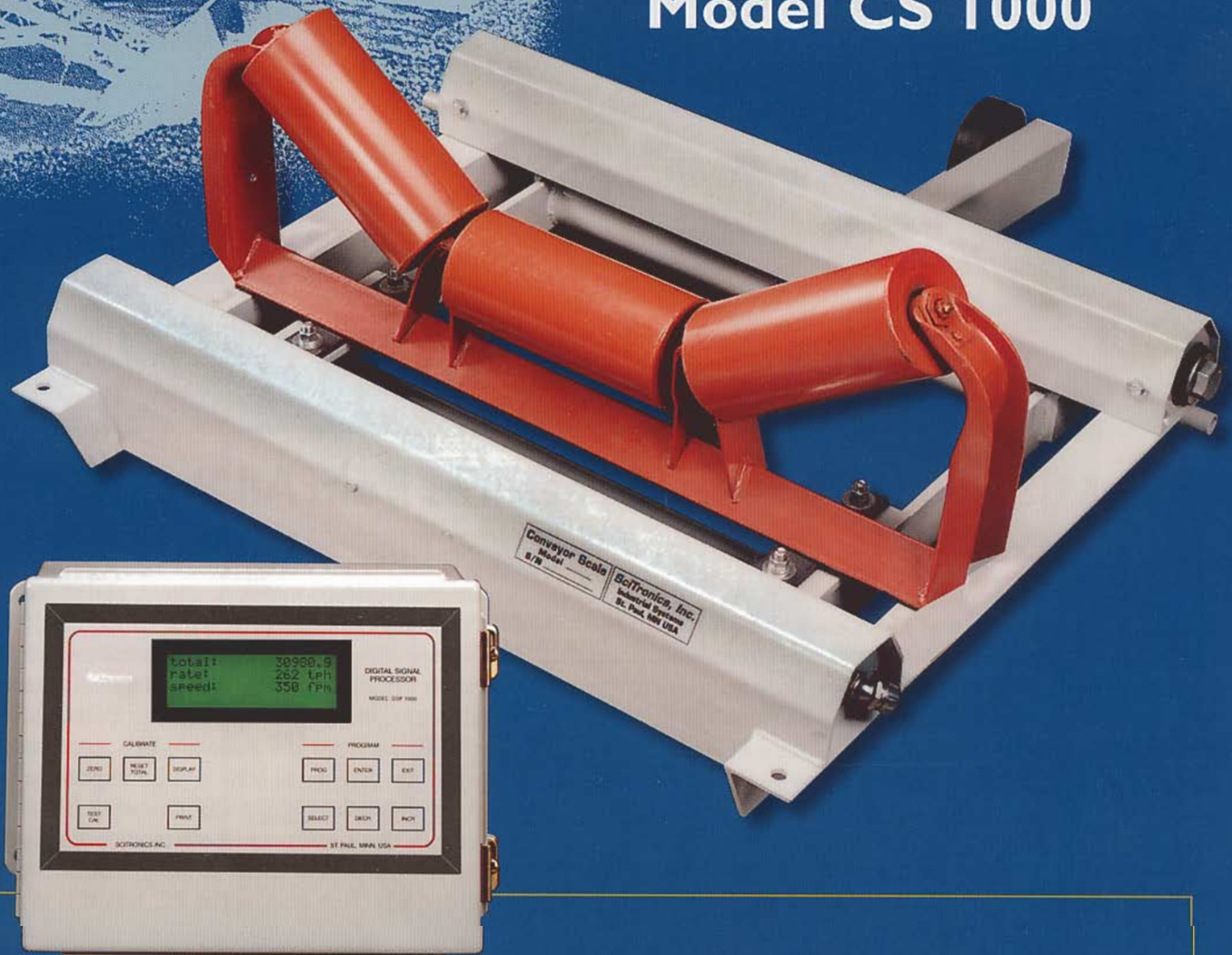


SCITRONICS

Conveyor Belt Scale

Model CS 1000



Meeting the durability and accuracy demands of today's crushing and processing industries

ROCK ■ ASPHALT ■ CEMENT ■ RECYCLING ■ PAPER
AND WOOD ■ FOOD ■ FERTILIZER ■ AND MORE

In today's highly competitive environment, pressure on buyers of industrial equipment for bottom line contributions has never been greater. That's why more engineers, plant managers and purchasing agents are evaluating their conveyor belt scale choices from every point of view.

Thanks to the success of our Tramp Metal Detector for conveyors, SciTronics has developed long and close associations with many conveyor users. Their valuable input helped us design the Model CS 1000, a unique, superior belt scale system that sets new performance standards for in-line conveyor scales.



"NTEP" approved strain gauge load cell access cover

Model CS 1000 — Superior Features from All Points of View

Durability

The rugged carriage, manufactured to CEMA standards, is constructed of heavy-duty steel, formed and welded for maximum strength and dimensional stability. When installed, the rigid carriage assembly adds strength to the conveyor frame and ensures permanent alignment. We are so confident in our quality, each unit is backed with a three year parts and labor warranty protection from manufacturing defects.

The 4-line, 20 character liquid crystal display is easily read, even in low light conditions. The display includes a real time clock and calendar.

Accuracy

SciTronics' Digital Signal Processor utilizes state-of-the-art electronics. The precision NTEP-approved strain gauge load cell accurately weighs the material being conveyed. The weight signal is converted into a digital computer signal in the bridge transducer signal conditioner and transmitted to the digital signal processor. Values are displayed with an accuracy of $\pm 0.5\%$. * Full-time self-diagnosis constantly evaluate performance to ensure precise operation at all times.

* on approved applications

Versatility

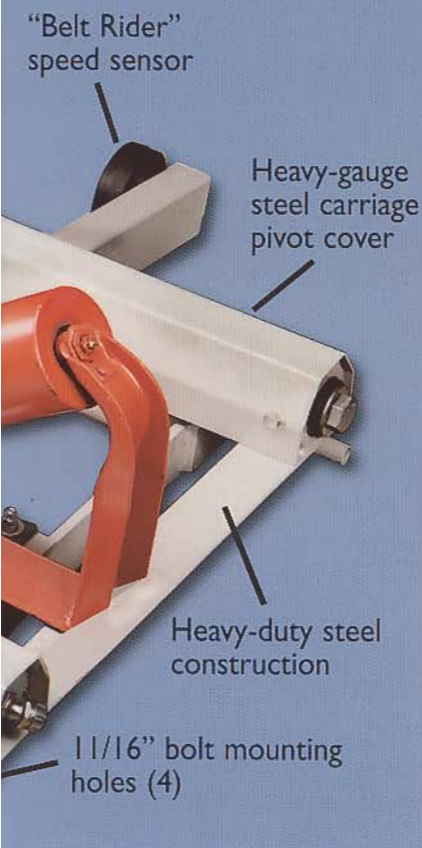
A multiple interface network allows connection of the DSP 1000 digital signal processor to multiple carriages. The low-profile carriage design accommodates tight belt clearance situations. Three types of speed sensors are available to comply with various belt configurations. Weight signals from the scale are processed and values displayed for rate, total tons and belt speed in selectable standard engineering units (tons, pounds, tonnes or kilograms). The system can be factory programmed to display customer-requested data. An optional printer or computer interface plug in the PC board is available.

Maintainability

Every CS 1000 system component is designed and engineered to withstand the rigors of real use conditions. Carriage surfaces are shaped to minimize product buildup areas — and contribute to trouble-free operation.

Ease of Initial Setup and Use

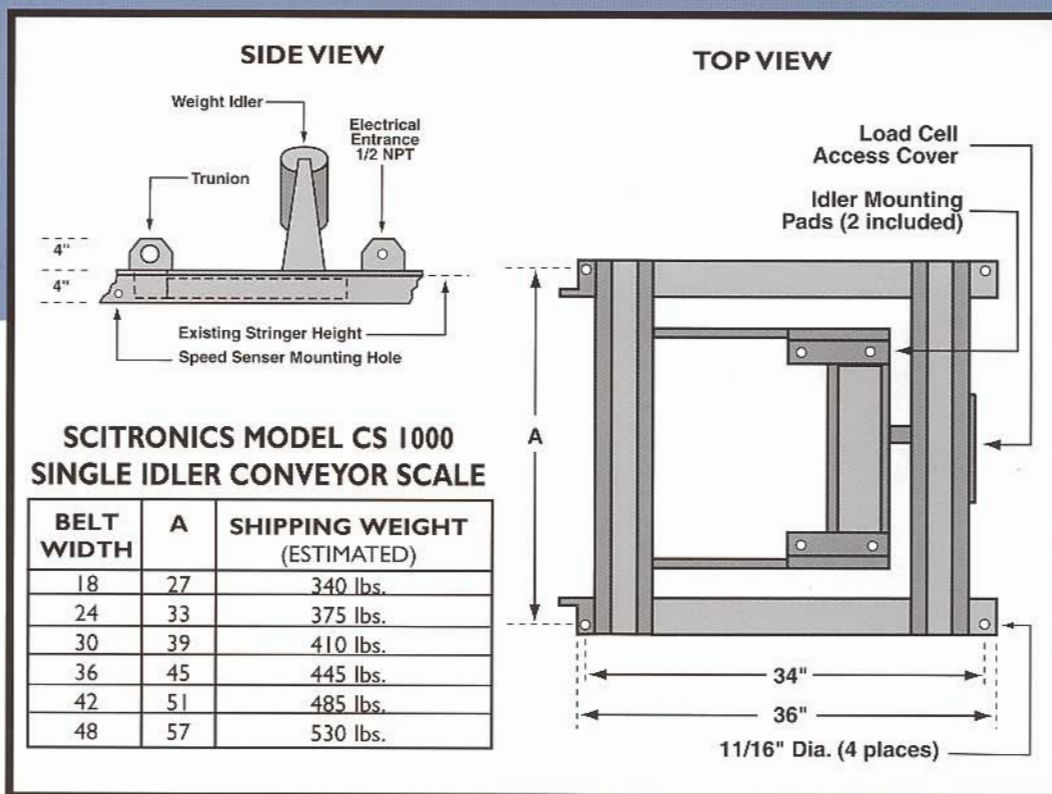
CS 1000 carriages come preassembled for easy installation. A two-step calibration and pre-programmed format facilitates data output to meet your individual requirements. Calibration is simple — enter data for Weigh Span (idler spacing) and Belt Length...then press Zero and Test Cal. That's it!



Optional Feed Rate Controllers and Load Controllers are available for the CS 1000 System.

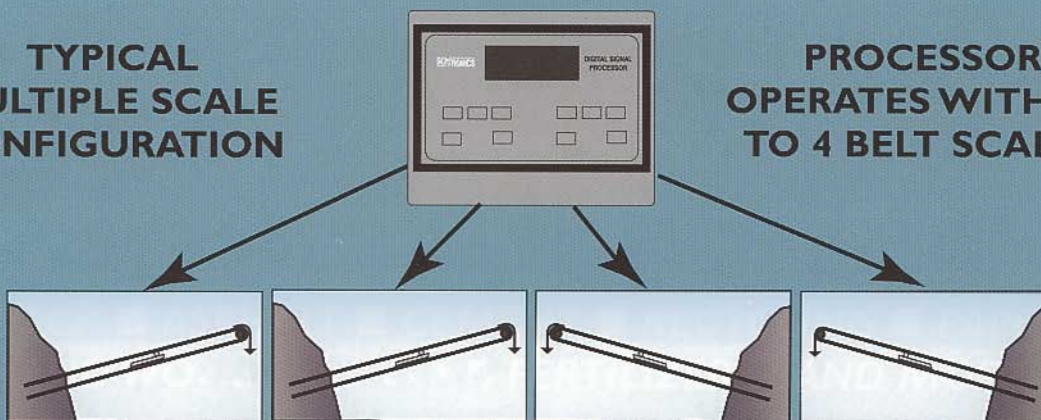
3 styles of speed sensors available

Ask your SciTronics representative about all of the options available for your conveyor system, including our Tramp Metal Detector unit.



TYPICAL MULTIPLE SCALE CONFIGURATION

PROCESSOR OPERATES WITH UP TO 4 BELT SCALES



Scales can be daisy chained to minimize wiring

Conveyor Belt Scale

Model CS 1000



MODEL CS 1000 SPECIFICATIONS

BELT SCALE SYSTEM

Accuracy: $\pm 0.5\%$ on approved applications
Weight: (based on a 30-in. (76.2-cm) scale)
Without idler: 170 lb (77.11 kg.)
With idler: 210 lb (95.25 kg.)

Dimensions: Length: 36 in.
Width: conforms to CEMA standards -
belt width +11 in (27.94 cm)

Construction: Rigid steel construction carriage assembly.
Three-point (delta) assembly. Isolated from conveyor. Bearingless pivots.

DIGITAL SIGNAL PROCESSOR

Power: 115 VAC; 50/60 Hz.
Optional
Output Signals: dual 4-20 mA, dual contact closure, and RS-485 serial.

LOAD CELL

Type: "NTEP" approved "S" cell design
Rated Output: 3mV/v 350 ohm
Nonlinearity: $<.015\%$ of full scale
Hysteresis: $<.015\%$ of full scale
Nonrepeatability: $<.01\%$ of full scale

STANDARD SPEED SENSOR

Type: "Belt Rider"
Drive: Positive contact AC tachometer
Enclosure: Weatherproof steel housing

About SciTronics, Inc.

SciTronics was founded in 1981 with the mission of developing and marketing a reliable Tramp Metal Detection unit for conveyors. Based upon the units' acceptance the company has gained a solid reputation within the industrial processing and manufacturing communities as a valued supplier of innovative, high performance products backed by quality service.



Let's get together. We'd like to learn about your weighing needs, provide all of the answers to your questions and show you how SciTronics Model CS 1000 system can help you tighten your budget without sacrificing performance.

Represented by:



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