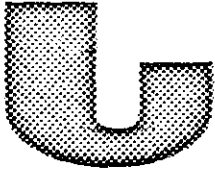




Department of consumer and corporate affairs / Ministère de la consommation et des corporations



**STANDARDS BRANCH - DIRECTION DES NORMES**

**NOTICE OF APPROVAL - AVIS D'APPROBATION**

NO.	S.WA - 747
DATE	May 10, 1971

Revision 1.

HOWE RICHARDSON CONVEYOR SCALE

MODEL SERIES 200

Manufacturer: Howe Richardson Scale Co., Clifton, New Jersey, and  
Robert Morse Corp., Ville St. Pierre, Quebec.

Apparatus: Belt Conveyor Scales

Model 210 - Self-contained system, including endless belt with drive mechanism and weighing system.

Model 230 - Same as Model 210 but equipped for use as weigh feeder.

Model 220 - Weighing system only, for installation in existing conveyor system.

Rating: Maximum capacity -

Models 210, 230 - 1500 tons per hour.

Model 220 - 15,000 tons per hour.

Special Conditions:

1. Weighing is restricted to the range from 25% to 100% of scale capacity.
2. Weighing accuracy must be within  $\pm 0.50\%$  of load over the approved weighing range.
3. Scales are restricted to use for determining charges not exceeding 2 cents per pound.
4. Calibrating weights shall be furnished with the scale and shall be capable of simulating belt unit loading 25, 50, 75 and 100 percent of capacity.

Application: The continuous weighing of bulk materials.

Description: These scales utilize two levers supporting a weigh-bridge which is equipped with rollers carrying a section of the conveyor belt. Lever pivoting is by means of steel flexure plates acting in tension.

Weight integration is performed by a mechanical integrator consisting of a driving cone and driven cylinder with intermediate friction driven wheels. The cone rotates continuously during conveyor operation, its speed being directly proportional to belt speed. The driving wheels move along the cone and take a position which is proportional to belt loading. The output of the driven cylinder is continuously transmitted to a resettable mechanical counter which displays accumulated weight.

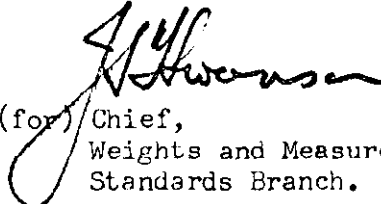
The scale is also equipped with a weight flow rate indicator. This indicator is driven by a rack and pinion and takes up a position which is proportional to the position of the integrator driving wheels.


The scale is provided with calibrating weights which can be used to simulate belt unit loading over the working range of the scale. For calibration testing, the conveyor is operated with the belt empty and with appropriate calibration weights suspended from the weighbridge.

Testing: Standard tests for conveyor scales shall apply. Testing with the scale calibration weights may be performed in addition to, or in lieu of standard tests.

References: SW - 85 - H11  
SL - 102 - 122

Conditions of Approval: Approval is granted under the Weights and Measures Act, Chapter 292, and Regulations thereunder (F.C. 6894) for use in Canada under the general conditions of P.C. 6894, and under any special conditions listed above.

  
(for) Chief,  
Weights and Measures Division,  
Standards Branch.

  
R. W. MacLean,  
Director,  
Standards Branch.

S.WA - 747

Revision 1.

HOWE RICHARDSON CONVEYOR SCALE-SERIES 200

