DEPARTMENT OF

TRADE AND COMMERCE
CANADA

SD-WA.316

STANDARDS DIVISION

OTTAWA, August 1, 1957.

RESTRICTED APPROVAL LISTING

FAIRBANKS MORSE CONVEYOR SCALE, MODEL B.C. 100

Under the provisions of the Weights and Measures Act, Chapter 292, R.S.C. 1952 and Regulations thereunder (P.C. 6894), the apparatus specified and illustrated herein has been listed as an approved device for restricted use and may be used in Canada in accordance with the conditions applicable.

Apparatus Listed: Conveyor scale, Model B.C. 100, for weighing material conveyed by a belt supported on rollers; manufactured by Fairbanks Morse & Co., St. Johnsbury Works, St. Johnsbury, Vermont, U.S.A.

Rating: The capacities vary from 8 tons per hour to 2,500 tons per hour, depending on the requirements of the particular installation. The normal load should not be less than 50% of the manufacturers' rated capacity.

Application: Bulk weighing of crude or cheap material such as crude ore, salt, fertilizer, lime, cement and similar products.

Conditions: As prescribed in P.C. 6894.
NOTE: (1) Maximum applicable tolerance, .5%.
(2) These devices are required to bear a permanently affixed plate bearing the words "Restricted - Trade and Commerce" or the mark "Restricted - T & C".

Description: This device is a conveyor scale designed to perform the function of multiplying the speed of the belt by the load, registering these products on a counter in pounds or tons and tenths of tons. A section of the conveyor belt is supported on rollers which are suspended from two A type levers by four rods. Power is transmitted from these levers to a suspended steelyard type lever and then to the scale beam by a connecting rod. The movement of the beam relative to the load carried actuates a motor which elevates or lowers the integrating disc which is in contact with the vertical side of an inverted metal

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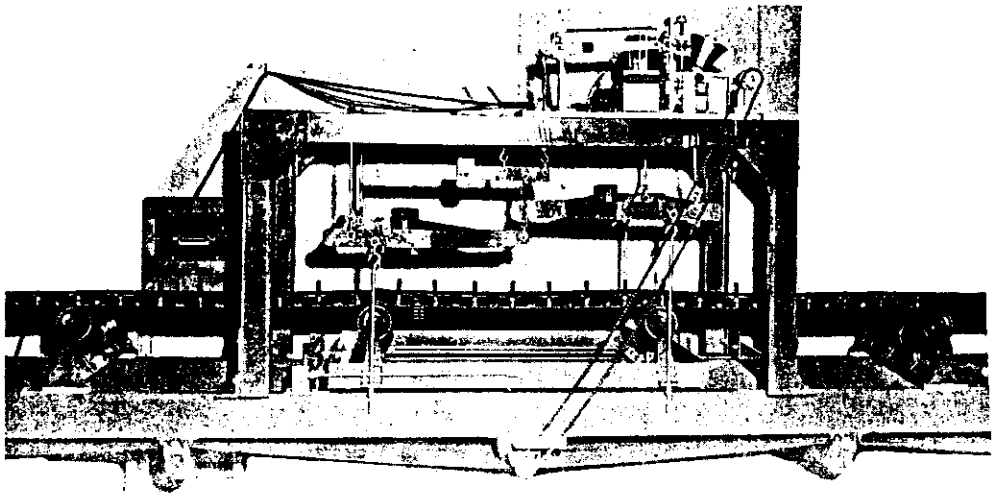
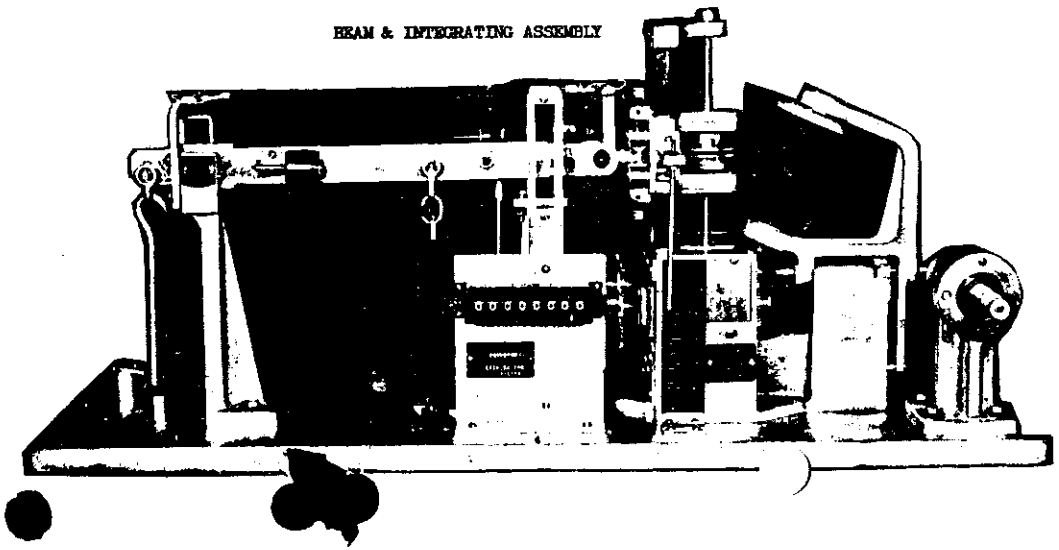
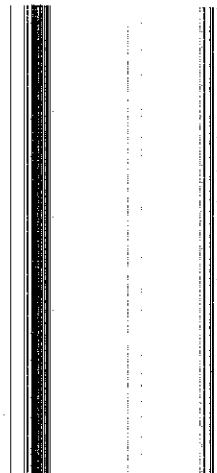
FAIRBANKS CONVEYOR SCALE
MODEL B.C.100



BEAM & INTEGRATING ASSEMBLY





frustrum of a cone. The cone is rotated by a system of sprockets, chains, gears and drive shafts by the conveyor belt; consequently the speed of the cone is relative to the speed of the load belt. The integrating disc, by means of its spindle operating a gear system, drives the counting register. An indicator carried on the integrating wheel support indicates percentage of capacity load passing over the scale. Remote registering indicators synchronized with the scale register may be used with this scale.

Testing: The standard tests for a conveyor scale shall apply.

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Reference: A-461