



CANADA

DEPARTMENT OF TRADE AND COMMERCE
STANDARDS BRANCH

SW-A-473

OTTAWA, September 19, 1963.

RESTRICTED APPROVAL LISTING

TOLEDO WEIGHVEYOR BELT CONVEYOR SCALE

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: Belt conveyor scale, Model 9160, manufactured by Toledo Scale Company of Canada Limited, 2462 Howard Avenue, Windsor, Ontario.

Rating of Apparatus: Belt loading 3 pounds to 225 pounds per foot depending on belt width. Belt speed 30 feet to 600 feet per minute.

Applications: 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


- Notes: (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".

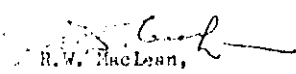
Description: This device is a single load cell belt conveyor scale system consisting of a weigh idler assembly which is a complete unit mounted between the conveyor stringers. This unit consists of a conventional idler roller supported on a split lever which transmits the force multiple to a strain gauge load cell. A fabricated structural steel framework contains this assembly and serves as a base for four parallelogram flexure stabilizers.

The integrating mechanism, the totalizer and the percent load indicator are housed in a steel cabinet. Mounted separately within the cabinet, are the servo components and power necessary to operate the load cell.

The load cell is temperature compensated and is used in suspension. It consists basically of a calibrated steel column with strain gauges bonded to the column and connected electrically in the form of a wheatstone bridge.

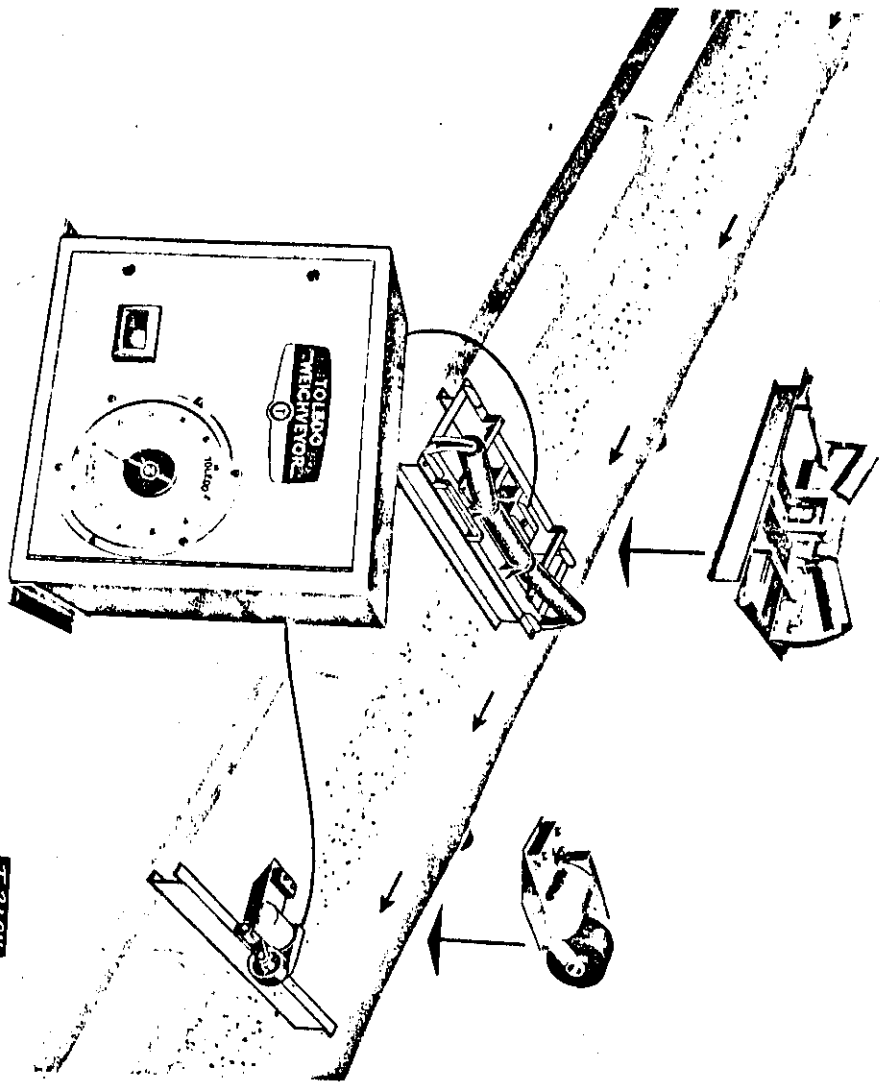
Testing: To be made in accordance with the tests for conveyor scales as specified in the Inspectors Handbook Part 11 Chapter 2 Pages 20 to 24


G.S. Phillips,
Chief, Weights and Measures Division,
Standards Branch.


R.W. MacLean,
Director,
Standards Branch.

Ref: A-696

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TOLEDO WEIGHER BELT CONVEYOR SCALE

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