DEPARTMENT OF

TRADE AND COMMERCE
CANADA

SD-WA. 191

STANDARDS DIVISION

OTTAWA, July 30th, 1954.

SD-WA. 49 and SD-WA. 51 are herewith cancelled and are superseded by SD-WA.191

NOTIFICATION OF TYPE LISTING

Richardson Hopper Type Automatic Scales - Manufactured by the Richardson Scale Company, Clifton, New Jersey, U.S.A.

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 have been listed as approved devices and may be used in Canada in accordance with the conditions applicable.

Apparatus Listed: Automatically loading and discharging hopper scales; Model JJ with hopper capacities of 6, 8, and 10 bushels; Models MM and MMM with hopper capacities of 15 and 25 bushels respectively.

Rating of Apparatus: Model JJ - capacities of 360 lbs., 480 lbs., and 600 lbs; Models MM and MMM - capacities of 900 lbs. and 1,500 lbs. respectively.

Application: Weighing of bulk quantities of free flowing grains, such as wheat, corn, soybeans, oats, flaxseed, malt, barley, etc.

Conditions: As prescribed in P.C. 6894 with the following specific requirements mandatory:

(1) Means must be provided on the hoppers or live frame for suspending or supporting sufficient test weights to allow inspection tests to be carried out to the capacity of the scale;

(2) Scales must be accessible for weight tests. If the scales are boxed in, doors must be cut in the enclosure to allow test weights to be readily located on the hopper brackets;

(3) The beam for residual weighing on new installations must be notched for locating the main poise;

(4) Scales which do not meet with the above conditions must be marked "NOT LEGAL FOR TRADE", in accordance with P.C. 6894.

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Description: This device is an automatically filling and discharging hopper scale. The leverage system consists of a single even arm lever, the weight box being suspended from one end and the hopper from the other end. Each repetitive automatic weighing equals the weights in the weight box, and a counter keeps track of the weighings. This printing counter may be supplied as a six figure counter or a three figure set back printing counter. A manually operated auxiliary beam is mounted on the scale to weigh the fractional draft at the end of a run.

Grain is delivered from users bin located above the scale through the chute opening into the weigh hopper. When loading is 80% complete, the chute cut-off gate closes to the dribble position. When the lever comes to a loaded balance, the cut off gate closes completely. Closing of the gate actuates the hopper door allowing the material to discharge. Inlet and outlet gates are provided with an interlock to prevent both gates being open at the same time. When the discharge is complete a mechanical linkage opens the reed gate to start the next loading.

A constant head of grain is maintained in the inlet chute by means of a "Bindicator" (minimum level switch) which operates a scale locking solenoid when the level of grain falls below work[illegible] level. A clean out switch by-passes the Bindicator to allow weighing of the final partial load at the end of a run by means of the auxiliary beam.

Testing: The standard tests for an automatic loading and discharging hopper scale shall apply. The tolerations applicable shall be as laid down in table 5, P.C. 6894.

C. C. Phillips,
Assistant Director (Mn.),
Standards Division.

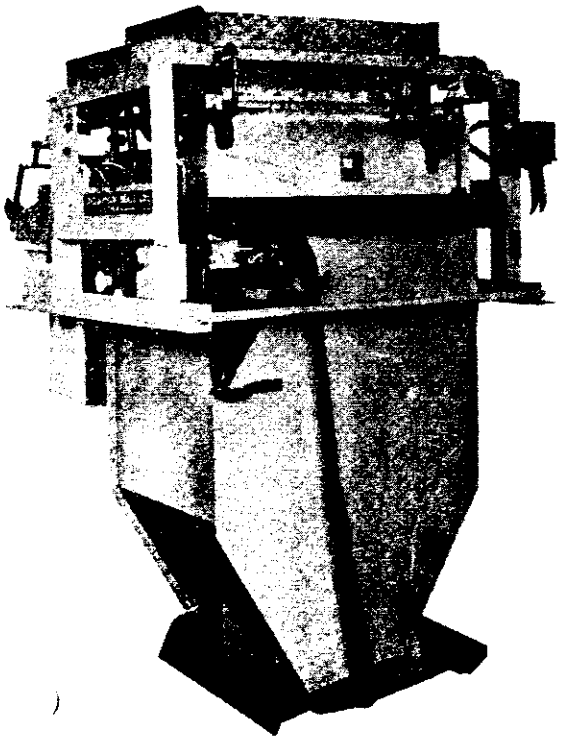
R. [illegible] MacLean,
Director,
Standards Division.

Reference: A-308.

RICHARDSON AUTOMATIC DISCHARGING SCALES

(BULK WEIGHING)

MODEL JJ



MODELS 1M & 1MM