

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 5524-07

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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Hopper Scales Weighing/Load Receiving Elements
Load Cell Electronic
Models: RRM40k40 and RRM10k10
 n_{max} : 1 000
 e_{min} : See Table below
Capacity: See Table Below

Accuracy Class: III L

Submitted by:

Robertson Ready-Mix
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Standard Features and Options

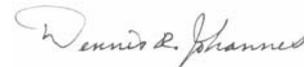
Primary weight indications and motion detection are provided by an approved and compatible weight indicator

Model	Capacity	Load Cell Capacity	e_{min}	n_{max}	Dimensions as Tested
RRM40k40	40 000 lb	20 k (3 each)	40 lb	1 000	9' W x 15' L x 8' 10" H
RRM10k10	10 000 lb	5 k (3 each)	10 lb	1 000	87" dia. x 84" H

Load Cell: Rice Lake Model RL20000B (Certificate of Conformance Number 98-044A1)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: May 22, 2007



Dennis R. Johannes, Director

**Robertson Ready-Mix
Hopper Scales Weighing/Load Receiving Elements
Models: RMM40k40 and RMM10k10**

Application: General purpose weighing of construction materials used to make concrete when interfaced with an approved and compatible weight indicating element and/or batch controller.

Identification: An identification tag is attached to the cover of the load cell junction box on each weighing element.

Sealing: Each hopper scale has a junction box with non-adjustable components and therefore requires no provision for sealing. Additionally, span, zero calibration, and other configuration parameters are accomplished through the associated indicating element or batch controller.

Test Conditions: The Models RMM40k40 and RMM10k10 were submitted for evaluation interfaced to a Jonel batch controller Model JL-DSD-253B (Certificate of Approval Number 3359-(a)-92). The emphasis of the evaluation was on device design, performance of the weighing elements, and marking requirements. The Model RMM40k40 aggregate hopper was tested with 8 000 pounds of known test weights and three substitutions with material for a total weight of 32 000 pounds. Several increasing/decreasing load, discrimination, and return to zero tests were initially performed and then repeated after approximately 35 days and a minimum of 300 normal use weighments. The initial and permanence test conditions as stated above were repeated on the cement hopper Model RMM10k10 using 8 000 pounds of known test weights only, with no substitutions.

Results of the evaluation indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2007 Edition

Tested By: G. Castro (CA)