

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

Certificate Number: 5098-00

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***California Type Evaluation Program***  
***Certificate of Approval***  
***for Weighing Devices***

**For:**

Hopper Scale Weighing/Load Receiving Element  
Digital Electronic Bulk Weighing System  
Model: 990  
 $n_{\max}$ : 5000  
Capacity: 2500 lb  
 $e_{\min}$ : 0.5 lb

Accuracy Class: III

**Submitted by:**

Kamper Fabrication Inc.  
20107 N. Ripon Road  
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Contact: Greg Kamper

**Standard Features and Options**

Primary weight indications, motion detection, and bulk weighing capabilities are provided by the Weigh-Tronix Model WI-130 (Certificate of Approval Number 4560-97)

Ticket print capability: Gross, tare, net, time and date

Load cells used: Sensortronics Model 65023-1k-01078 (Certificate of Approval Number 3137(a)-89)

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

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: November 3, 2000

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Mike Cleary, Director

**Kamper Fabrication Inc.**  
**Hopper Scale Weighing/Load Receiving Element**  
**Model: 990**

**Application:** Automatic bulk weighing system for weighing of bulk materials in multiple drafts.

**Identification:** The identification plate is permanently attached to the hopper scale assembly.

**Sealing:** The load cell junction box can be sealed by threading a wire security seal through two drilled head screws. The junction box is attached to the hopper scale framework. The Weigh-Tronix digital weight indicator may be sealed with a wire security seal in accordance with the Certificate of Approval sealing instructions.

**Test Conditions:** The Model 990 hopper scale interfaced to the Weigh-Tronix Model WI-130 digital weight indicator was submitted for this evaluation. The emphasis of this evaluation was on the hopper scale performance and operation including interaction with the bulk weighing system controller. Several increasing and decreasing load tests were conducted to capacity using 2500 pounds of certified test weights. Additionally, discrimination, motion detection, and return to no load conditions were conducted. The device was sealed and retested approximately 30 days later.

The results of the evaluation indicate the device complies with the applicable requirements.

**Type Evaluation Criteria Used:** Title 4, California Code of Regulations, 2000 Edition.

**Tested By:** Gary Castro (CA)