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

Certificate Number: 5304-02

California Type Evaluation Program
Certificate of Approval
for Weighing Devices

For:

Automatic Weighing System (AWS)
Load Cell, Electronic
Model: 2500HB, Ver. 3.00
n_{max}: 1000 (Dynamic); e_{min}: 0.1 lb
Capacity: 100 lb
Platform: 36" long, 24" wide

Class: III

Submitted by:

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Standard Features and Options

Fully automatic operation
Automatic zero setting mechanism (AZSM)
Gross/net display
Maximum belt speed: 70 ft/min
Maximum 30 packages per minute
Programmable tare

Dynamic operation only
Semi-automatic tare and zero (push-button)
Label printer
Variable print format
RS232 Serial communication

System controller, minimum requirements:

System requirements:	Video display
	Alphanumeric keyboard
Operating system:	Windows 95 or later version
Software application:	Borland C++ Builder
Hardware requirements:	200 MHz microprocessor, 500 MB hard drive, 64 MB RAM

Load Cell: HBM Model: PW12 Series, Capacity 300 kg (Certificate of Conformance Number 99-106)

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: May 28, 2002

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Mike Cleary, Director

Convergent Label Technology, Inc.
Automatic Weighing System
Model: 2500HB

Application: For use as a fully automatic weighing system. The system consists of a weighing element, an approved and compatible indicator, system controller, and printer.

Identification: The identification badge is riveted to the side of the system controller cabinet. Version number, manufacturer, and model are displayed on the system controller display.

Sealing: All sealable parameters are accessed in accordance with the approved and compatible indicator. The system controller is protected with a password maintained by the manufacturer.

Operation: This system is of a modular design. The weighing element contains an independent belt assembly including the drive motor and level indicator. It is constructed of a frame providing a mounting base for one single point load cell and provides limiting stops for the platform. The platform is mounted to the load cell. The belt/roller assembly is mounted to the platform. The weighing element assembly operates independently of the input/output conveyor system.

The system controller is used to set the speed of the weighing element's belt assembly, weighing sampling time, and printing functions.

Test Conditions: The emphasis of this evaluation was on device design, operation, marking, and performance. The weighing element was connected to a Weigh-Tronix digital indicator, Model WI-127 [Certificate of Approval Number 4599(a)-99]. The system controller was connected to the serial communication port of the digital indicator. The weighing element was initially statically tested in the laboratory. Several increasing/decreasing load and shift tests were conducted. The weighing element was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the weighing element at least 100 000 times. The weighing element was tested periodically over this time.

Dynamic and permanence tests were conducted in the field. Load and shift tests of 10 lb, 25 lb, 75 lb, and 100 lb were weighed ten times at maximum belt speed. The system was used for more than 100 hours with a 75 lb test load at 80 percent of maximum belt speed. Dynamic tests were then repeated.

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

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2002 Edition

Tested By: Dan Parks (CA)