



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Multiple Dimension Measuring Device
In-Motion, Volume
Model: WingScan-T 3D-M
Maximum: 88.6 cubic yards
Minimum: 2.4 cubic yards
 d_{min} : 0.2 cubic yards
Software Version: 1.0.0.78 or higher

Submitted By:

Wingfield Scale Co.
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Standard Features and Options

- Bi-Directional dimensioning
- Two dimensioning heads
- Category 3 Event logger
- Windows 10 Operating System or higher
- RFID Scanner and tag for Vehicle Identification
- Stored vehicle zero volume reference
- Stop and go Dimensioning
- Portable or stationary units
- Programming Language: C++
- Printed Tickets
- OCR camera for vehicle identification
- AC Voltage (120 nominal)
- Remote Display
- Scan Enable/Disable remote control

Dynamic operating range: 0.5 mph (Minimum) to 5 mph (Maximum)

Portable and stationary volume dimensioners must be installed in a level condition.

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Kevin Schnepf
Chair, NCWM, Inc.

Marc Paquette
Chair, NTEP Committee
Issued: January 7, 2026

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**Wingfield Scale Co.****Multiple Dimension Measuring Device / WingScan-T 3D-M**

Application: The WingScan-T 3D-M is used for the dynamic bi-directional dimensioning of topsoil, fill dirt, aggregate or chipped rock, sand (including concrete and mortar sand), decomposed granite, landscape-type rock, and cinders when dynamically passing under the dimensioning system via a dynamic means of conveyance, the conveyance can stop and restart motion under the dimensioner.

Identification: The required information is located on an engraved self-adhesive stainless-steel tag adhered to the side of the control panel enclosure.

Sealing: The device is sealed using a category 3 event logger that is accessed by tapping the “Event Logger” tab located at the bottom of the “Measurement Data base View Display (see last image of the certificate). The event log can be viewed from the device or exported via USB port for printing from an external device. To minimize the event logger tap the X in the upper right corner of the event logger tab.

Operation:

The general procedure for performing a scan is:

LED Display Message Board

Scanning Off
System Idle

Scanning Off
System Idle

SCAN ENABLE / SCAN DISABLE

May be Activated on Software Screen, CONTROL PANEL or FIELD BOX Push Button or Remote

Once ENABLED, STROBE BEACON will FLASH & Message Board will Display:

Scanning On
Ready To Scan

Scanning On
Ready to Scan

Truck should proceed & enter Scan Station, when Truck is detected in the Observation Area the Message Board will Display:

Proceed with
< 3 mph

Proceed with
< 3 mph

Scan has Started & Message Board will Display:

Speed OK
2.5 mph (Actual Speed will be Displayed)

Speed OK
2.5 mph

As Truck Exits the Observation Area Message Board Will Display:

Scan OK
Brown # 2

Scan OK
Brown # 2

9.2 yd^3
Brown #

9.2 yd^3
Brown # 2

**Wingfield Scale Co.****Multiple Dimension Measuring Device / WingScan-T 3D-M**

Scanning starts and stops automatically when the target vehicle crosses the scan area. Measurements, warnings, and errors are reported on the operator console, message board, and printed ticket as required. The vehicle can stop then start moving during the scanning.

Test Conditions: The emphasis of the evaluation was on device design, marking, operation, and compliance with influence factor requirements. A Wingfield Scale Model: WingsScan-T 3D-M was submitted for evaluation. Multiple volume measurements were performed dynamically near maximum, near minimum, and near mid-range. Volume measurements were performed dynamically using multiple types of dump trucks at minimum, mid and maximum speeds. All dynamic tests were performed bi-directionally and the device was tested for stop and go operation. The device was tested over a temperature range of -10 °C to 40 °C (14 ° F to 104 °F). Tests were conducted using 100 VAC, 120 VAC and 132 VAC.

NOTE: This Certificate is issued as a provisional NTEP Certificate of Conformance (CC). This evaluation is based on the current draft checklist, procedures, and technical policy for this device type contained in NCWM Publication 14. When work on the NCWM Publication 14 section for this device is completed, the test report and this NTEP CC will be reviewed. If all current requirements have been met by this evaluation, the provisional status will be removed.

Evaluated By: J. Gibson, G. Gholston (NCWM) 26-001P (CN 10620)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2025 Edition. *NCWM Publication 14: Weighing Devices*, 2025 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

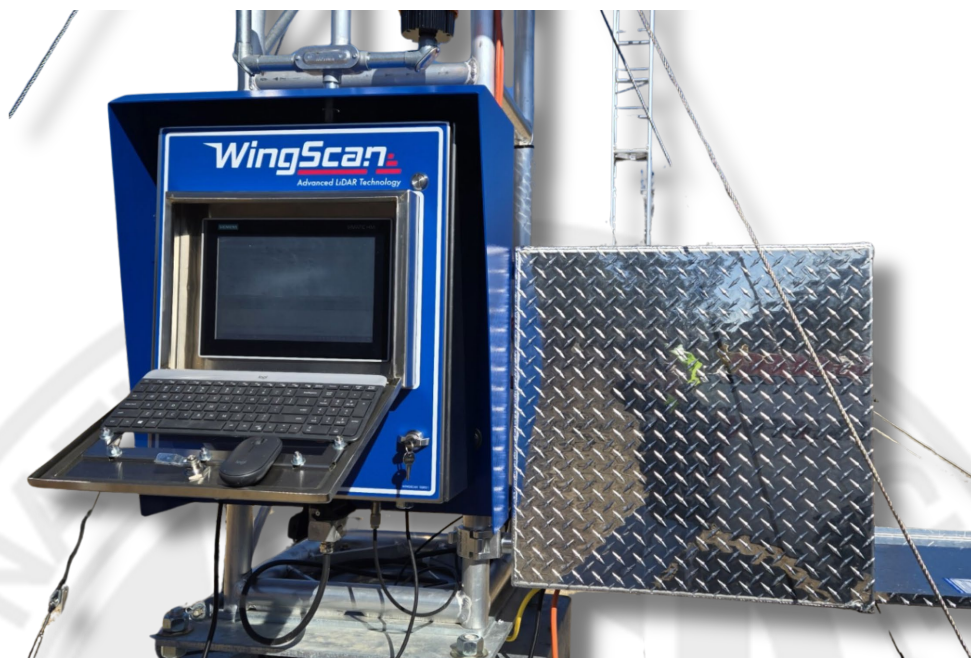
Information Reviewed By: J. Gibson (NCWM) 26-001P

Example(s) of Device:

Dimensioning Head



Wingfield Scale Co.
Multiple Dimension Measuring Device / WingScan-T 3D-M



Wingscan-Station (Control Panel)



LED Driver display



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Multiple Dimension Measuring Device / WingScan-T 3D-M



Field Box



Scan Enable/Disable remote control

File View LaseTVM Settings Action Windows Help

Start/Stop Error Event Output Input Logger Hardware Settings Open GL Info W&M Exit WingScan: POWERED BY LASE

Status

Control

Measurement

Incoming Measurement

Empty Full

Reference Calibration

Outgoing Measurement

Complementary

Compl. Ref. Full

Unknown Measurement Abort

Data Bases

Materials RFIDs Trucks

Selected Entry

Measurement ID

Incoming Time

Outgoing Time

Truck ID

Total Volume

Status

Filter

Only Open Measurements Only Today Nbr. of Entries: 50 More Options

View Controls

Halt Update

Search & Export

Search & Export

Search Result

Nbr. of Entries: 50 Total Nbr. of Entries: 381

Measurement ID	Incoming Time	Incoming Type	Outgoing Time	Outgoing Type	Truck ID	Status
394	2025-12-03 11:53:14	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	Volume Below Minimu
393	2025-12-03 11:52:14	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	Volume Below Minimu
392	2025-12-03 11:47:35	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	OK
391	2025-12-03 11:40:00	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	OK
390	2025-12-03 11:38:12	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	OK
389	2025-12-03 11:36:39	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	OK
388	2025-12-03 11:35:11	Full	2025-12-03 06:43:00	Reference	TMC 150 Tandem	OK

Event Logger

#	Date - Time	Type	Priority	Group	Set	Message
2	22.12.2025 14:59:12	Event	20	150	1	Parameter Change: Measurement Unit 1 - Area - Max Ground Level: 350
1	22.12.2025 14:59:12	Event	20	150	1	Parameter Change: Measurement Unit 1 - Area - Measurement Range Min Y: -2000
0	22.12.2025 14:58:20	Event	20	150	1	Parameter Change: Handler - General - Max Time Span Between Complementary Measurements: 365, 00:00:00,000

Scanner Status

Errorlist all Error/Eventlist Event Logger

Berett

Simulation 22.12.2025 15:04:42:445 Service UF NUM RF

Volume Dimension Screen with Event Logger viewable at the bottom.