

# Certificate of Calibration

Certificate #: 1765150  
Purchase Order #: 4526

**Calibration Performed By:**

PROBATA CORPORATION  
14600 Metro Plaza Blvd.  
PO BOX 4090 (73083)  
Edmond, OK 73013  
(405) 607-4813 / FAX (405) 607-4832

**For:**

ILLIANA INSTRUMENTATION SERVICE  
1831 GOVERT DRIVE  
SCHERERVILLE IN, 46375  
onsite:

**Equipment Information**

<b>Manufacturer:</b> CRAFTSMAN	<b>Asset Number:</b> 1293
<b>Model:</b> 44598	<b>Serial Number:</b> 012498
<b>Description:</b> ELECTRONIC ROTARY TORQUE SENS	<b>Department:</b>
<b>Range/Grad:</b> 0 - 150 FT-LBS / 0.1 FT-LB	<b>Location:</b>
<b>Temp./RH:</b> 68.0 deg F, / 44.0 % rH	<b>User:</b>
<b>Cal Date:</b> 8/9/2024	<b>Cal Procedure:</b> 33K6-4-3108-1
	<b>Revision Date:</b> 5/30/2022

**Calibration Results**

**Received Condition:** MEASURED VALUES < LIMITS  
**Returned Condition:** AS FOUND/AS LEFT DATA IS THE SAME  
**Notes:**

**Probata Calibration Standards Used for Certification**

Asset #	Manufacturer	Model #	Description	Last Cal.	Cal. Due Date
0357	CDI	5000-3	TORQUE CALIBRATION SYSTEM	4/2/2024	8/31/2024

Probata certifies that the above instrument meets or exceeds specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI), through the National Institute of Standards and Technology (NIST) or other National Metrology Institutes participating in the CIPM-MRA or radiometric techniques or natural physical constants. This calibration complies with ANSI/NCSL Z540-1-1994, ISO 17025 and meets the quality standards set forth in ISO 9001. This document applies only to the calibration of the item described.

No statement of conformity with specifications is made or implied on this certificate. However, measurement results are reviewed, where applicable, to establish where any measurement result exceeded the manufacturer's specifications.

ALL RESULTS MAY BE INVALID BASED ON CONDITIONS AS RECEIVED. THIS CERTIFICATE MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF PROBATA CORPORATION



Approved By:



**TANNER CHAMBERS**  
QUALITY MANAGER

Calibrated By:



**JEREMY ROSS**  
CALIBRATION TECHNICIAN

**Equipment Information**

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**Craftsman Electronic Rotary Torque Sensor System 44598**

**Calibration Results**

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Parameter Tested	Nominal	As Found	As Left	Low Limit	High Limit	EU (k=2)
<b>Torque Verification, Clockwise</b>						
	30.0 lbf-ft	30.3	30.3	28.5	31.5	0.3 lbf-ft
	90.0 lbf-ft	92.7	92.7	87.3	92.7	0.9 lbf-ft
	150.0 lbf-ft	154.3	154.3	145.5	154.5	1.5 lbf-ft
<b>Torque Verification, Counter-Clockwise</b>						
	150.0 lbf-ft	151.0	151.0	145.5	154.5	1.5 lbf-ft
	90.0 lbf-ft	90.1	90.1	87.3	92.7	0.9 lbf-ft
	30.0 lbf-ft	29.9	29.9	28.5	31.5	0.3 lbf-ft

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Measurement results that are greater than limits of error are indicated by an "!"

The above measurement uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2