



Automatic Pull Off Adhesion Tester

BEVS 2201



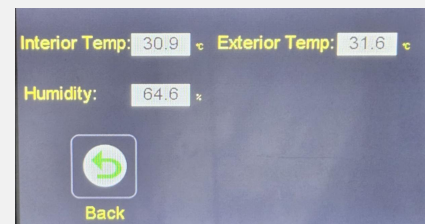
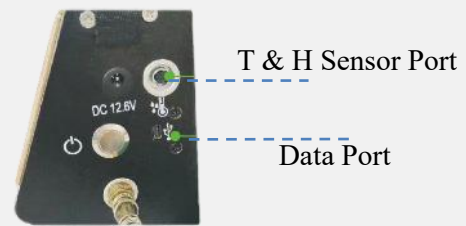
Introduction	<p>BEVS 2201 is a state-of-the-art automatic pull-off adhesion tester with a fully touch-screen interface. It provides fast and quantitative measurements of the adhesion strength between coatings and substrate surfaces. Since environmental temperature and humidity can significantly impact the adhesion performance of outdoor applications—such as concrete-based coatings and anti-corrosion coatings on ships and bridges—BEVS 2201 is equipped with a temperature and humidity probe to help better assess coating quality and predict service life.</p> <p>To ensure fast and accurate verification of the tester’s measurement accuracy, we have specially developed the compact BEVS 2201 ATV Adhesion Tester Verifier. This device displays the pulling force, units, and dolly specifications in real time, making it highly convenient for users to precisely validate the performance of the BEVS 2201 automatic pull-off tester.</p>
Technical Parameters	<ol style="list-style-type: none"> 1. Pull Rate: 0.03 – 10 MPa/s 2. Pull Rate Accuracy: $\pm 2.5\% + 0.3$ s 3. Pressure Accuracy: $\pm 1\%$ of full scale 4. Pressure Resolution: 0.01 MPa 5. Units of Measurement: MPa, psi, N 6. Languages: Chinese, English 7. Display: Touchscreen
Instrument Parameters	<ol style="list-style-type: none"> 1. Power Supply: Built-in rechargeable battery 2. Battery Specification: 12.6 V, 2 A 3. Battery Capacity: 20,000 mAh 4. Charging Time: 4–6 hours 5. Net Weight: 4 kg 6. Dimensions (L × W × H): 240 × 100 × 160 mm

■ Dolly

Diameter	mm	7	10	14	20	50
Operating Range	MPa	20~200	10~100	5~50	2.5~25	0.4~4
	psi	2900~29000	1450~14500	725~7250	362~3625	58~580
	N	769~7696	785~7853	769~7696	785~7853	785~7853
Pull Rate Range	MPa/s	1.6~10	0.8~5	0.4~3.0	0.2~1.5	0.03~0.24
	psi/s	232~1450	116~725	58~435	29~218	4~35
	N/s	61~385	62~393	61~462	62~471	59~471

■ Features

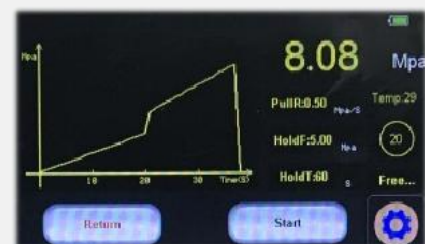
- **Wide Application:**
Suitable for measuring the adhesion strength of coatings on various substrates such as metal, wood, concrete, and others.
- **More Convenient Operation:**
 1. Large capacitive touchscreen display
 2. On-site calibration available (Optional with BEVS 2201 ATV Adhesion Tester Verifier)
- **Powerful Measurement Settings:**
 1. Adjustable maximum pull-off force
 2. Configurable hold force and hold time
 3. Customizable date and time settings
- **Various Sizes and Materials of Test Dollies Available:**
 1. Sizes: 7, 10, 14, 20, 50 mm
 2. Materials: Aluminum Alloy, Stainless Steel (optional)
- **Load Capacity:** Up to 100 MPa (Using 10 mm dolly)
- **Repeatable and Reproducible Test Results**
- **Clear and Trackable Measurement Display:**
 1. Real-time pull-off rate graph:
 2. Real-time measurement results
 3. Real-time monitoring of ambient temperature and humidity
 4. USB data transfer
- **Equipped with Ambient Temperature and Humidity Probe:**
 1. Capture real-time environmental conditions during testing
 2. Help users evaluate and document the impact of environmental factors on test results
- **Battery compartment for rechargeable battery**
- **Automatic Reset Function:**
 1. No need for manual, labor-intensive resetting of the pull-off head — user-friendly and efficient
 2. More precise reset positioning, allowing for quicker alignment and centering of the dolly in the next test



Temp/humidity display



Battery compartment for rechargeable battery



Pull-off results & curve display



7–50 mm dollies

■ Standards

ASTM D4541	<i>Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers</i>
ASTM D7234	<i>Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers</i>
ISO 4624	<i>Paints and varnishes — Pull-off test for adhesion</i>
ISO 16276-1	<i>Corrosion protection of steel structures by protective paint systems — Assessment of, and acceptance criteria for, the adhesion/cohesion (fracture strength) of a coating - Part 1: Pull-off testing</i>
JIS K 5600 5-7	<i>Testing methods for paints - Part 5: Mechanical property of film - Section 7: Adhesion test (Pull-off method)</i>
GB/T 5210-2006	<i>Paints and varnishes - Pull-off test for adhesion</i>

■ Ordering Info

Standard Kit	Dolly: 10mm x 10, 14mm x 10, 20mm x 10 T & H Sensor x 1 Charger x 1 Glue x 1 set Cutter 20mm x 1	
	Optional	
	BEVS 2201ATV	Adhesion Tester Verifier
	BEVS 2201/P/007	Ø 7mm dolly (10 pcs/box)
	BEVS 2201/P/010	Ø 10mm dolly (10 pcs/box)
	BEVS 2201/P/014	Ø 14mm dolly (10 pcs/box)
	BEVS 2201/P/020	Ø 20mm dolly (10 pcs/box)
	BEVS 2201/P/050	Ø 50mm dolly (10 pcs/box)
	BEVS 2201/P/110	Manual Cutter (For Ø7–20 mm dollies)
	BEVS 2201/P/150	Manual Cutter (For Ø 50mm dollies)
	BEVS 2201/P/06C	Cutter kit (For Ø50mm dollies, including dolly locator and electric cutter)
	BEVS 2201/P/214	Electric cutter (For Ø 14mm dollies)
	BEVS 2201/P/220	Electric cutter (For Ø 20mm dollies)
	BEVS 2201/P/250	Electric cutter (For Ø 50mm dollies)
	BEVS 2201/P/260	Electric Cutter Set (1 Tool + 1 Cutter)
	BEVS 2201/P/210	Glue