TLI | TEXLAB INSTRUMENTS

TL-CRH-1300 / AUTOMOTIVE AND INDUSTRIAL

Cyclic Corrosion Test Chamber

1,300 L chamber for salt fog, OEM corrosion cycles and controlled climate phases.



CRH chamber platform and separate air conditioning unit

1,300 L	–20 °C	7-inch
Chamber volume	Active cooling	Touchscreen PLC/HMI

Cyclic exposure testing for automotive components, painted and coated panels, metal fasteners and industrial parts.

HARDWARE AND CONTROLS

Technical specifications

All phases of OEM corrosion cycles are managed from a single touchscreen.

FEATURE	1,300 L OEM CONFIGURATION
Chamber volume	1,300 L. Specimen holders for flat panels, test coupons and three-dimensional parts.
Heating and active cooling	Cooling down to –20 °C. Programmable freezing phases and temperature ramps.
High humidity / water fog	Separate clean-water fog system for 95–100% RH phases.
Controlled environment	23 °C / 50% RH operating point. Temperature, relative humidity and dew point control.
Salt fog and fallout	Atomiser for continuous and cyclic salt fog. High fallout setting range of 2–5.5 mL/80 cm²/h.
Overhead solution spray	Programmable overhead oscillating spray bar for direct wetting.
Automatic immersion	Temperature-controlled immersion unit. Programmable immersion time and cycle sequence.
Automatic wall rinse	Programmable rinse of the chamber's interior walls.
Rapid drying	Controlled airflow and heating. Temperature transition from 35 °C to 70 °C in 15–30 minutes.
External air conditioning unit	The air conditioning unit connects to the main chamber via an electrical connector and air hose.
Control and logging	Single 7-inch touchscreen PLC/HMI for phases, ramps, timing and repeats. Time-stamped temperature, humidity, phase and alarm records.

TEST METHODS

Corrosion test standards

Neutral salt fog, controlled humidity, drying, direct wetting, immersion and freezing are applied according to the selected method.

TEST GROUP	STANDARD AND METHOD
Continuous salt fog	ISO 9227 (NSS), ASTM B117
International cycles	ISO 16701:2025 (A/B), IEC 60068-2-52 (Methods 7 and 8), ASTM G85 Annex A5, ASTM G44
Cycles with a freezing phase	VDA 233-102, DIN 55635, DIN EN ISO 11997-3
Ford and Jaguar Land Rover	Ford CETP 00.00-L-467, TP.JLR 52.265
Volvo	VCS 1027,149 (ACT-1), VCS 1027,1449 (ACT-2), STD 423-0014, STD 1027,1375 (VICT)
Scania	STD 4319
GM and SAE	GMW14872, GM9540P, SAE J2334 (Methods A, B and C)
Renault	ECC-1 / D17 2028
Hyundai and Honda	Hyundai CCT-A / B / C / D (MS600-66), Honda 5100Z-SG0-A000
Other cycles	CCT1, CCT2, JASO M609

Combined UV and corrosion cycles

For ASTM D5894 and ISO 11997-2, the CRH chamber runs corrosion phases and the separate TXL-GEN-002 tester runs fluorescent UV phases.

AUTOMOTIVE TEST METHODS

Vehicle manufacturer methods

Vehicle manufacturers' specifications for salt fog, water fog, humidity and cyclic corrosion.

MANUFACTURER / GROUP	STANDARD AND METHOD
BMW	AA-0213 (AA-P 224), AA-0224 (AA-P 175), AA-0324 (AA-P 184)
Fiat	50180 (Methods A1, A2 and A3), 50493
Ford	FLTM BI 103-01, FLTM BI 123-03
General Motors	GM4465P, GM4298P
Jaguar Land Rover	JNS 30.16.03, TP.JLR 52.252
Nissan	CCT-5, MES-M0007 (Methods A and B), NES M0158
Renault / Alliance	D17 1058, RNES-G-00005, RNES-G-00006, RNES-G-00007
Scania	STD 4445
Toyota	TSH1555G (Methods A, B and C)
Volkswagen / Audi	PV 1078, PV 1200, PV 1209, PV 1210
Volvo	STD 5711,102, STD 1027,14, STD 423-0069, STD 4233
Automotive cycles	CCT-4, JASO M610, SAE J2635, VDA 621-415

Specimen exposure by method

Solution, temperature and humidity profiles, transition times and wetting follow the selected specification.

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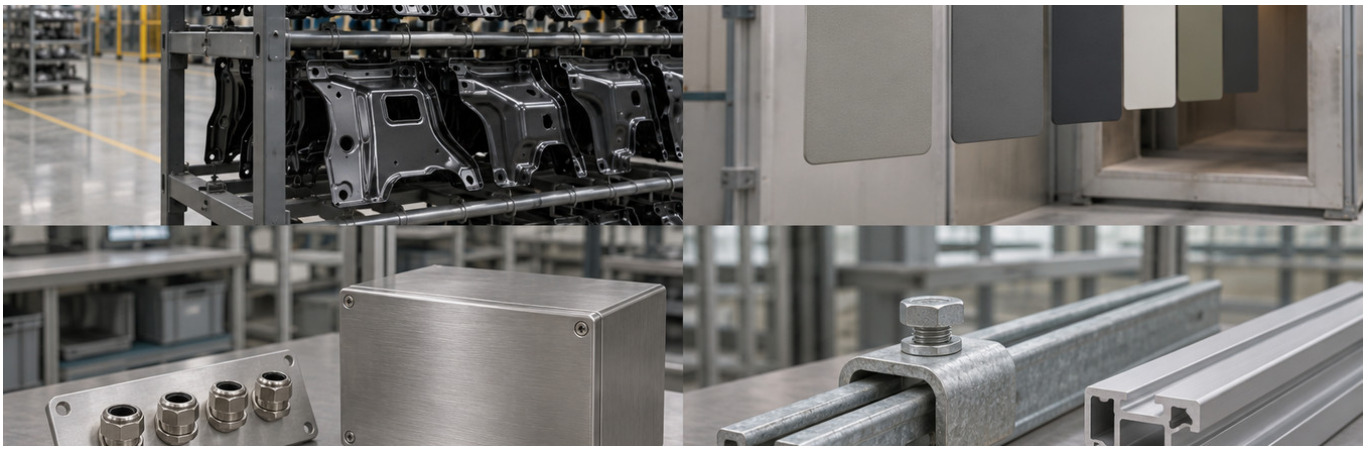
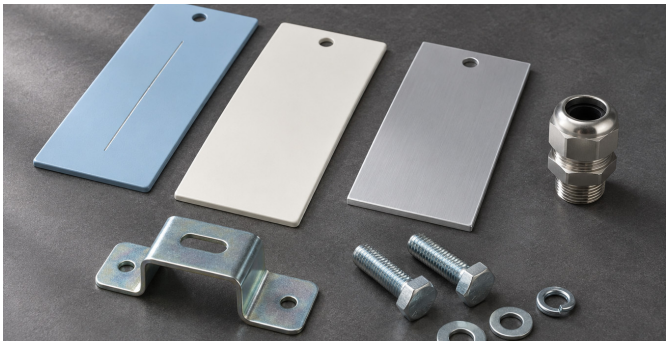
APPLICATIONS

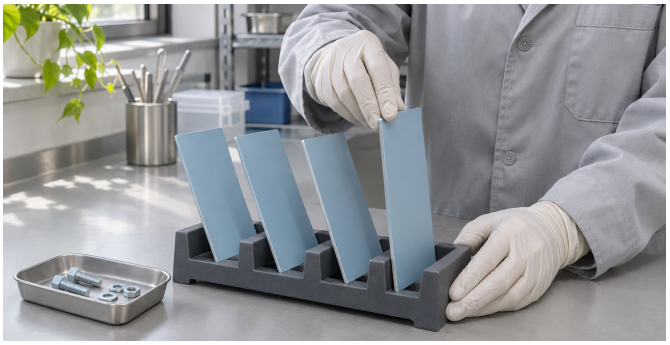
Specimens and products

Testing for automotive quality control, coating development and industrial part durability.





Coated panels and fasteners



Mounting panels in the laboratory

Automotive and transport

Body panels, brackets, fasteners and connector housings.

Coatings, metals and industry

Coated coupons, sheet metal, profiles, enclosures, hinges and hardware.

Testing Today for a Brighter Tomorrow.

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