

Product Information

Lochleibungsvorrichtung

CTA: 140429 140430 140431



Bearing-strength test fixture as per AITM 1-0009 with specimen grips to hold the bearing-strength test fixture



Bearing-strength test fixture as per ASTM D5961 Method A / ISO 12815



Bearing-strength test fixture as per ASTM D7248 Method A

Applications

The bearing-strength test fixture is used for tests on fiber-reinforced composites and is standardized in accordance with the following:

- Airbus AITM 10009: Determination of bearing strength by bolt bearing configuration
- ASTM D5961 Method A: Bearing Response of Polymer Matrix Composite Laminates
- ISO 12815: Determination of plain-pin bearing strength
- ASTM D7248 Method A: Bearing/Bypass Interaction Response of Polymer Matrix Composite Laminates Using 2-Fastener Specimens

Description of operation

AITM version

The upper end of the bearing-strength test fixture is mounted in the associated specimen grips.

The upper end of the specimen is mounted in the bearing-strength test fixture and the lower end is clamped in parallel-clamping grips.

ASTM versions

The upper end of the bearing-strength test fixture is clamped in specimen grips.

The upper end of the specimen is mounted in the bearing-strength test fixture and the lower end is clamped in parallel-clamping grips.

Alternatively the fixture can also be mounted at the top as per ASTM D5961 Method A.

Advantages and features

- Easy specimen change.
- Devices can be used over a wide temperature range (-55°C to 250°C).
- Fast changeover from AITM to ASTM - self-aligning tension grips can also be used with the ASTM fixture.

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Bearing-strength test fixture for tests to AITM 1-0009

Type Item No.	Bearing-strength test fixture to AITM 1-0009 1007532	
Test load, max.	30	kN
Dimensions:		
Height	160	mm
Width	45	mm
Depth	47	mm
Specimen:		
Length, min.	150	mm
Width	45	mm
thickness	2 to 6	mm
Ambient temperature	-55 to +250	°C
Weight, approx.	1	kg

Required for bearing-strength test fixture to AITM 1-0009:

Description	Item number
1 x specimen grip for mounting the bearing-strength test fixture (see below)	1007566
1 x parallel-clamping specimen grips	Please inquire

Type Item No.	Self-aligning tension grips for bearing-strength test fixture 1007566	
Test load, max.	30	kN
Dimensions:		
Base unit		
Height	105	mm
Width	75	mm
Depth	65	mm
Connection to the testing system	Ø 36	
Locking pin		
Diameter	18	mm
Length	120	mm
Ambient temperature	-55 to +250	°C
Scope of delivery	1	piece(s)

Bearing-strength test fixture for tests to ASTM D5961 Method A / ISO 12815

Type Item No.	Bearing-strength test fixture to ASTM D5961 Method A / ISO 12815 1007534	
Test load, max.	20	kN

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Type Item No.	Bearing-strength test fixture to ASTM D5961 Method A / ISO 12815 1007534	
Dimensions:		
Height	202	mm
Width	36	mm
Depth	42	mm
Specimen:		
Length, min.	135	mm
Width	36	mm
thickness	3 to 5	mm
Ambient temperature	-55 to +250	°C
Weight, approx.	0.5	kg

Required for bearing-strength test fixture to ASTM D5961 Method A / ISO12815:

Description	Item number
2 x parallel-clamping specimen grips ¹⁾	Please inquire

¹⁾ Alternative: 1 x parallel-clamping specimen grips below and specimen grip for mounting the bearing-strength test fixture above

Bearing-strength test fixture for tests to ASTM D7248 Method A

Type Item No.	Bearing-strength test fixture to ASTM D7248 Method A 1007536	
Test load, max.	50	kN
Dimensions:		
Height	202	mm
Width	30	mm
Depth	42	mm
Specimen:		
Length, min.	200	mm
Width	30	mm
thickness	2 to 5	mm
Ambient temperature	-55 to +250	°C
Weight, approx.	0.5	kg

Required for bearing-strength test fixture to ASTM D7248 Method A:

Description	Item number
2 x parallel-clamping specimen grips	Please inquire