

### **Product Information**

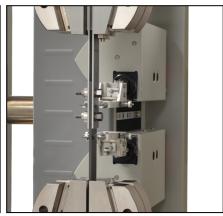
### Lochleibungsvorrichtung



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.



### **Product Information**

# Lochleibungsvorrichtung

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

Туре	Bearing-strength test fi	Bearing-strength test fixture to AITM 1-0009	
Item No.	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

Туре	Self-aligning tension g	Self-aligning tension grips for bearing-strength test fixture	
Item No.	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 Bearing-strength test fixture to ASTM  Method A / ISO 12815		
Item No.	1007534	
Test load, max.	20	kN



# **Product Information**

## Lochleibungsvorrichtung

Туре	Bearing-strength test f Method A / ISO 12815	Bearing-strength test fixture to ASTM D5961 Method A / ISO 12815	
Item No.	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

<sup>1)</sup> 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

Туре	Bearing-strength test fi Method A	Bearing-strength test fixture to ASTM D7248 Method A	
Item No.	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