

Product Information

Device for notch compression tests (OHC/FHC)

CTA: 44838 44837



Open-hole compression fixture, force application via specimen grips



Open-hole compression fixture installed in locking shoe mount; force application via compression platen

Applications

Notch compression tests Open Hole Compression (OHC) and Filled Hole Compression (FHC) standardized according to:

- ASTM D6484, ASTM D6742
- Boeing BSS 7260-Type 1
- SACMA SRM 3R-94
- Northrop NAI -1504C

• Specimen material:

Fiber composites

• Specimen shape:

Specimen with width of 36 mm/1.5"

Function description

The device is used for performing standardized notch compression tests (Open Hole Compression OHC, Filled Hole Compression FHC) on fiber composites.

A standardized specimen is inserted into the device and supported on both faces.

The load is applied via specimen grips or a compression platen as required.

Advantages and features

- Centering aid for aligning specimen
- For compression forces up to 220 kN
- Large temperature range: -70 to 300°C
- No machining of specimen end face required

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Technical data

Type Item No.	Fixture for notch compression tests (OHC/FHC) 076991	
Test load F_{max}	200	kN
Standards	ASTM D6484, ASTM D6742, Boeing BSS 7260 - Type 1, SACMA SRM 3R-94 Northrop NAI - 1504C	
Maximum specimen size		
Width	38.5	mm
Length	305	mm
Thickness	5	mm
Hole	Ø 6	mm
Force application via specimen grips		
Specimen grip distance at mounted fixture	163	mm
Fixture thickness, maximum (due to specimen grip opening width)	36	mm
Force application via compression platen		
Installation height	459.5	mm
Ambient temperature	-70 ... 250	°C
Weight, approx.	5.6	kg

Accessories required

Force application via specimen grips:

- 2 x specimen grips with jaws, for example:
 100 / 150 kN BOW hydraulic grips with jaws, Item No. 1091184
 250 kN BOW hydraulic grips with jaws, Item No. 1091193

Load application via compression platen:

- 1 x compression platen
- 1 x locking shoe mount