

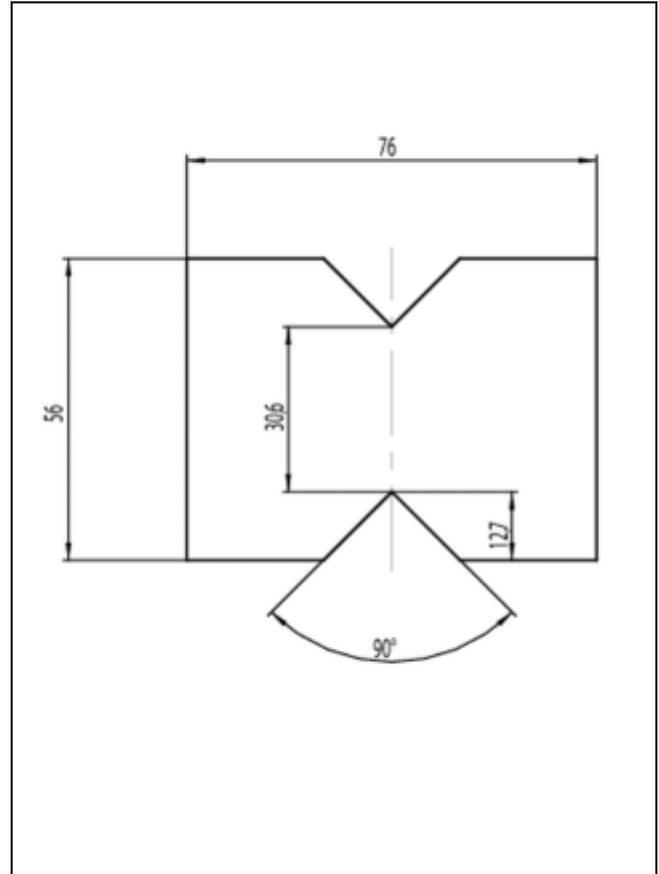
## Product Information

### V-notched rail shear test device

CTA: 248237 149718



Shear test device to ASTM D7078



Specimen to ASTM D7078

#### Applications

The v-notched rail shear fixture is used to measure the shear properties of fiber composites according to ASTM D 7078.

The application area is designed for the following laminate forms:

- Unidirectional laminates with fiber direction  $0^\circ$  or  $90^\circ$
- Unidirectional laminates with same layer count in  $0^\circ$  and  $90^\circ$  fiber direction
- Fabric laminate with a weft direction of  $0^\circ$  or  $90^\circ$
- Short fiber-filled plastics in which the fiber direction is randomly distributed

The specimen has a V-notch to concentrate the shear zone. It is inserted into the shear test device laterally; non-positive clamping is employed.

Shear strain is measured via two strain gages applied at an angle of  $45^\circ$  to the shear plane.

#### Advantages and features

- In contrast to the Iosipescu method (V-notched beam shear fixture) to ASTM D5379 a larger specimen, clamped at the sides, is used with this device. This enables the application of higher shear forces.
- Easy attachment to testing system via threaded connection
- Temperature range from  $-70$  to  $+300^\circ\text{C}$
- Exact centering of the specimen using supplied, attachable spacers
- Alignment of jaws to each other via adjustable front and rear clamping jaws
- Rust-proof design for use in temperature chambers

## Product Information

### V-notched rail shear test device

#### Technical data

Item No.	1088450	
Test load $F_{max}$	30	kN
Dimensions		
Height between the mounting studs, approx.	260	mm
Width	103	mm
Opening width	0 ... 10	mm
Version	Stainless steel	
Weight, approx.	8.3	kg
Ambient temperature	-70 ... +300 °C	°C
Connection, upper	Bolt Ø 36 mm	
Connection, lower	Bolt Ø 36 mm	
Scope of delivery		
V-notched rail shear fixture		
2 spacers for aligning the specimen and the fixture		