

## Hydraulically Actuated High-Force V-Notched Rail Shear Test Fixture ( ASTM D7078 )

The hydraulically actuated test fixture is engineered to provide convenience, consistency, and efficiency when conducting tests in accordance with ASTM D7078 standards for understanding the shear properties of fiber-reinforced composites. In this test, a tensile force is applied to both ends of the specimen, generating concentrated shear stress in the middle section, where 90-degree notches are placed. Strain is typically measured using a  $\pm 45^\circ$  biaxial strain gauge or a non-contact video extensometer.

### Design Features

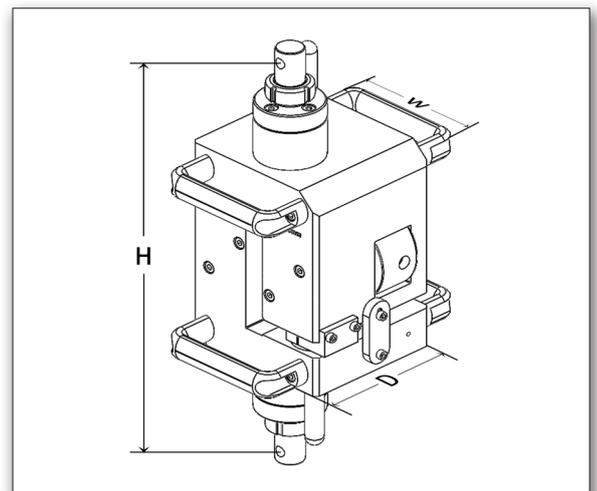
- Utilizing hydraulic compression to deliver a strong, evenly distributed, and consistent gripping force on specimens up to 7mm thick or 100kN tensile load
- The guiding rod ensures proper alignment of the upper and lower body, preventing unintended torque on the specimen during installation
- Hydraulic grips speed up specimen installation by eliminating tedious steps of tightening bolts
- Tool included for specimen centering during installation



### Technical Specifications

Model Number		ACAD7078A0Y
Max Load	kN	100
Specimen Size	mm	76 x 56 x (1~7)
Weight	kg	60
Operating Temperature	°C	Ambient
Build Material		Steel
Connecting Interface	mm	Pin Connection with Optional $\Phi 31.75$ , $\Phi 40$ mm Head

### Dimensions



H	D	W
507mm	290mm	205mm

### Related Products

Part No.	Model Code	Description
1JAASD707801	ACAD7078A0	V-Notched Rail Shear Test Fixture