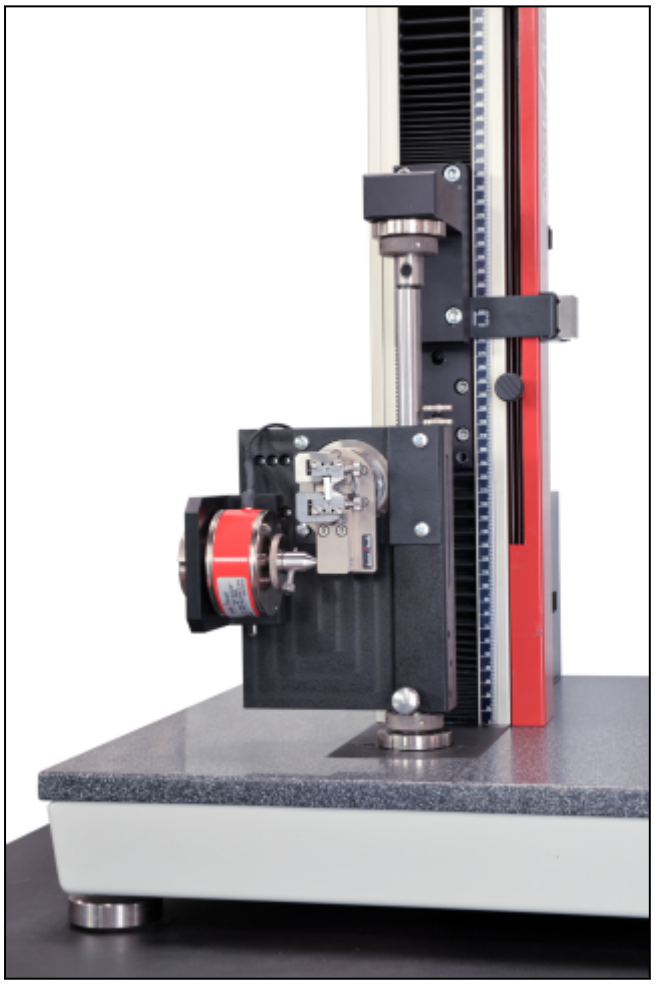
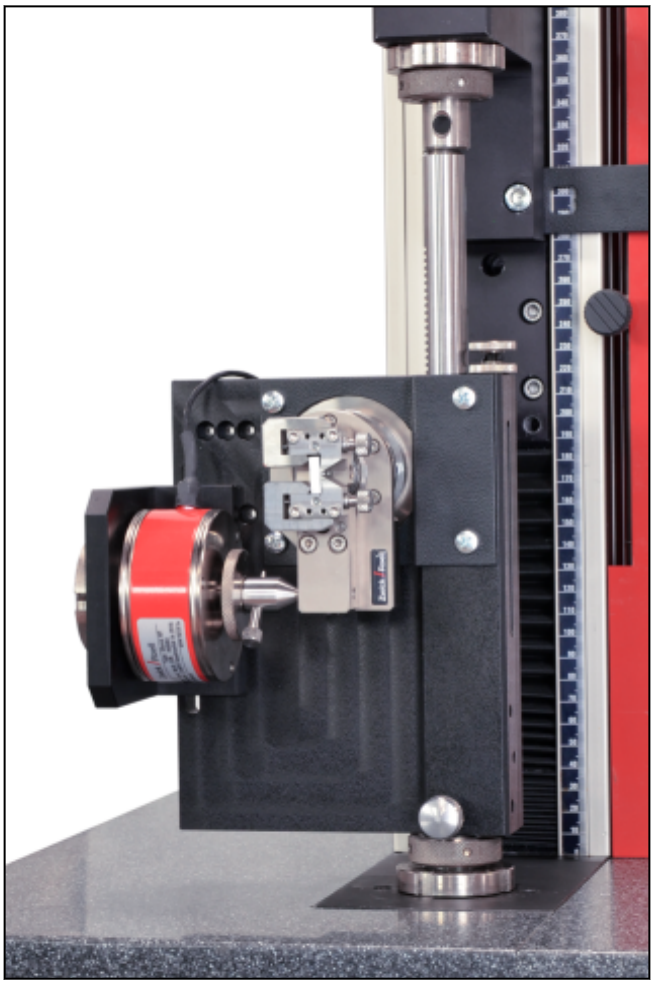
Zwick / Roell

Product Information

Dynstat flexure tool for 4-point flexure test to DIN 53435 – DB – G

CTA: 147395 147395





Dynstat flexure tool for 4-point flexure test

In cases where space constraints allow only relatively small specimens to be removed from finished injection-molded parts, the two Dynstat test methods offer an attractive option for comparative characterization of static and dynamic material properties in quality control and product development.

Applications

The Dynstat flexure tool enables properties of plastics specimens to be determined under 4-point flexure loading in accordance with DIN 53435 – DB – G. It is used to characterize material properties in plastic components.

Function description

The Dynstat flexure test is designed as a four-point bending test. With this test fixture the test can also now be performed on a testing machine. The spans at the start of the test are set to 12 mm and 2 mm. This means a specimen only 15 mm in length can be tested with this method. Flexural deformation is produced by the test fixture's rotational movement. The test result is the maximum flexural stress measured during the test. It is calculated using the bending moment and the resisting moment of the specimen. If the specimen is still unbroken on attainment of a Dynstat bending angle specified by the standard, the flexural stress at the Dynstat bending angle is measured.

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Technical data

Item No.	**1051337**[1)]	
Bending moment, max.	4	Nm
Test load F_{max}	80	N
Nominal force of the load cell	100	N
Dimensions		
Height	300	mm
Width	200	mm
Depth	130	mm
Specimen dimensions		
Length	15	mm
Width	10	mm
Depth	1.2 ... 4.5	mm
Bending angle	0 ... 23.5	°
Connection	Ø 20	mm
Ambient temperature	+15 ... +35	°C
Weight, approx.	4.4	kg

1) The force for calculating the torque is measured via a type Xforce HP 100 N load cell. The load cell is included in the scope of delivery.

All data at ambient temperature.