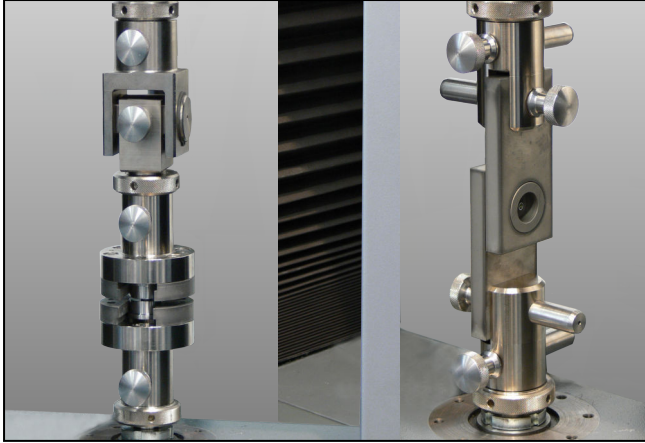


Product Information

Test devices for mechanical tests on blind rivets

CTA: 41054 41050 41057 41059 41058

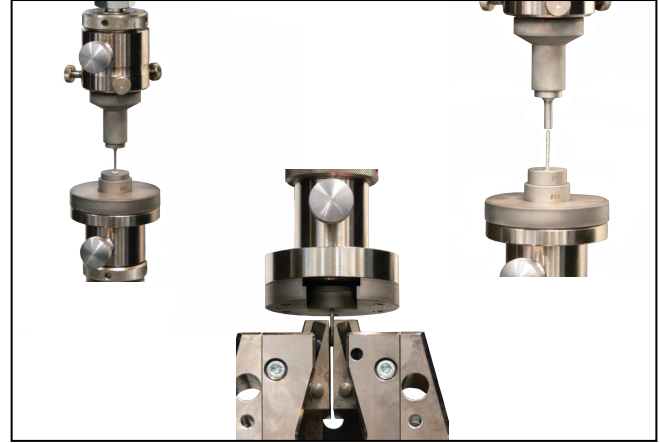


Tensile test (left), shear test (right)

Applications

Determination of the mechanical properties of blind rivets with a nominal diameter up to 6.4 mm as per EN ISO 14589

- These test devices are suitable for the following: tensile test, shear test, mandrel head retention capability test, mandrel push out resistance test and mandrel break load test.
- The test devices feature modular construction: test inserts for various blind-rivet diameters and types (flat and countersunk heads) ensure versatility in use.
- **Specimen material:**
blind rivets



Remaining rivet shaft locking power (left), rivet shaft push-out force (right), rivet shaft breaking force (below)

Advantages and features

- We supply test devices for tensile tests, shear tests, mandrel head retention capability tests, mandrel push out resistance tests and mandrel break load tests.
- The test devices feature modular construction: test inserts for various blind-rivet nominal diameters and types (flat and countersunk heads) ensure versatility in use.
- Test devices are designed for maximum forces up to 50 kN.
- Hardened test inserts guarantee long service life.
- Specimen grips automatically self-align in the test axis when the standardized universal joint is used.

Product Information

Test devices for mechanical tests on blind rivets

Tensile test

Technical data

Type Item No.	Specimen grips for tensile test 325616	
Test load (F_{\max})	50	kN
Scope of delivery	1 (2x therefore required)	piece
Connection	stud, Ø 36	mm

Accessories required

Description	Item number
Gimbal mount	316100

Test inserts (1 x required)

Description	Item number
Test inserts for flat-head blind rivets 6.4 mm x 12.5 mm, scope of delivery: 2 pieces	325614
Test inserts for countersunk-head blind rivets 4.8 mm x 13 mm, scope of delivery: 2 pieces	325615

Shear test

Technical data

Type Item No.	Specimen grips for shear test 325613	
Test load (F_{\max})	50	kN
Connection	stud, Ø 36	mm
Scope of delivery	2	pieces

Accessories required

Test inserts (1 x required)

Description	Item number
Test inserts for flat-head blind rivets 6.4 mm x 12.5 mm, scope of delivery: 2 pieces	325614
Test inserts for countersunk-head blind rivets 4.8 mm x 13 mm, scope of delivery: 2 pieces	325615

Product Information

Test devices for mechanical tests on blind rivets

Mandrel head retention capability and mandrel push-out resistance

Technical data

Type Item No.	Test device for mandrel head retention capability 325618	
Standard	EN ISO 14589	
Test load F_{max}	50	kN
Weight		
Holder for dies	0.7	kg
Holder for compression die	0.377	kg
Ambient temperature	+10 to +35	°C
Scope of delivery		
Holder for dies	1	piece
Holder for compression die	1	piece
Top connection	adapter 16	
Bottom connection	bolt circle, Ø 75	mm

Accessories required

Accessories required for mandrel head retention capability

Compression die (1 x required)

Description	Item number
Ø 2.75 mm, for mandrel Ø 3 mm	325621
Ø 3.75 mm, for mandrel Ø 4 mm	325626

Test platen (1 x required)

Description	Item number
Ø 5 mm, for countersunk-head blind rivet, nominal Ø 4.8 mm	325623
Ø 6.7 mm, for flat-head blind rivet, nominal Ø 6.4 mm	325622

Die (1 x required)

Description	Item number
Ø 9.5 mm, for mounting test platens for blind rivets with nominal Ø 4.8 mm	325620
Ø 12.5 mm, for mounting test platens for blind rivets with nominal Ø 6.4 mm	325625

Accessories required for mandrel push-out resistance

Compression die

Description	Item number
with centering spigot for mandrel Ø 4mm	325628

Product Information

Test devices for mechanical tests on blind rivets

Test platen (1 x required)

Description	Item number
Ø 5 mm, for countersunk-head blind rivet, nominal Ø 4.8 mm	325630
Ø 6.7 mm, for flat-head blind rivet, nominal Ø 6.4 mm	325629

Die (1 x required)

Description	Item number
Ø 5.8 mm, for mounting test platens for blind rivets with nominal Ø 4.8 mm	325619
Ø 7.4 mm, for mounting test platens for blind rivets with nominal Ø 6.4 mm	325627

Mandrel breaking load

Technical data

Type	Specimen grips for testing mandrel break load		
Item No.	325616		
Test load (F_{max})	50		kN
Scope of delivery	1		piece
Connection	stud, Ø 36		mm

Accessories required

Description	Item number
Wedge grips, F_{max} 50 kN	362468
Scope of delivery: 1 item (customized adaptation)	
Gimbal mount	316100

Jaws (1x required)

Description	Item number
for mandrels up to Ø 4mm (2 pieces) (customized adaptation)	373644
for mandrel Ø 4 to 10 mm (2 pieces) (customized adaptation)	362469

Test inserts (1 x required)

Description	Item number
for mandrel Ø 3 mm	325617
for mandrel Ø 4 mm	325624