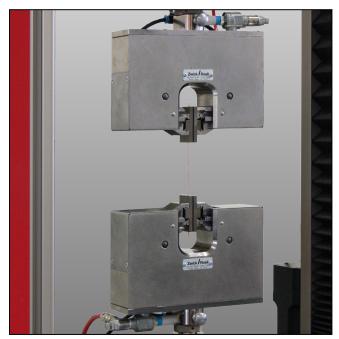


Product Information

Pneumatic grips type 8297 / F8297, Fmax 2.5 kN



Type 8297 pneumatic grips, Fmax 2.5 kN, jaw height 50 mm



CTA: 39566 39565

- Specimen material: plastics, paper, textiles, elastomers, wood, insulating materials
- Specimen shape: round and flat specimens
- Type of loading: tensile, compression, alternating load

Function description

Pneumatic grips are double acting and can be used for symmetrical gripping.

Pneumatic specimen grips are ideal for clamping-sensitive materials or if a high specimen throughput is required. The gripping force always remains constant, regardless of test load.

The gripping pressure for the specimen grip can be set steplessly and reproducibly viaa pneumatic control unit and optionally via the testXpert III testing software. The specimenis held securely and jaw breaks are prevented during the test.

The specimen grip is opened and closed via buttons on the testing machine. The optional foot pedal unit or machine remote control can be used for additional operating convenience.



Type 8297 pneumatic grips, Fmax 2.5 kN, jaw height 30 mm

Double-actuator pneumatic grips always close symmetrically with respect to the tensile axis. This means the specimen is clamped in a precise axial position. It is not necessary to set the specimen thickness.

The closing force is initialized via a centrally positioned pneumatic actuator. It transfers the closing movement via a steering lever to the symmetrical closing jaws.

Advantages and features

- The symmetrically closing jaws save time required for adjusting to varying specimen thicknesses and ensure that the specimen is held exactly in the test axis.
- The jaws can be changed quickly and easily for different applications no tools required. The jaws are centered automatically.
- Precise test results combined with high number of cycles achieved through centric insertion of specimen using easily adjustable centering stop.
- Constant gripping force enables repeatable test results to be achieved.
- Constant pneumatic pressure allows even specimens prone to shrinkage to be held securely.
- Ergonomic, open design for fast, easy specimen insertion and clamping
- The projecting jaws enable a clear view and access for optical and mechanical extensometers, even with short gauge lengths.



Product Information

Pneumatic grips type 8297 / F8297, Fmax 2.5 kN

Differentiation in two versions Pneumatic closing and gripping

• For specimen grips that close with pure pneumatic actuation, the closing motion only occurs as long as the closing button is activated. If the button is released during the closing process, the specimen grip automatically switches back to the safe, open position. The position is only held after the specimen grips are fully closed. The preset gripping pressure is only applied once the test starts. All pneumatic grips are available in this version.

Spring-closing and pneumatic gripping

Spring-closing specimen grips feature a technological difference between closing and gripping. With a brief touch of the closing button, the built-in spring closes the specimen grips very quickly with a low force of < 150 N. The specimen is therefore quickly clamped and operating times are reduced. The preselected gripping pressure is applied when the test starts. Seven selected specimen grips in a force range ≤ 2.5 kN are available in this version.

Technical data

1106794	1106831	
8297	F8297	
2.5	2.5	kN
1.5 10	1.5 10	bar
Э		
6.5	6.5	kN
10.5	10.5	kN
20	20	mm
The specimen mus	et be gripped with at least 2/3 of the height.	he jaw
170	170	mm
182		mm
210	210	mm
60	60	mm
110	110	mm
	182	
Ø 20	Ø 20	mm
4.7	4.7	kg
+10 +35	+10 +35	°C
2	2	piece(s)
	2.5 1.5 10 6.5 10.5 20 The specimen mus 170 182 210 60 110 Ø 20 4.7 +10 +35	2.5

¹⁾ The opening width is the result of using jaws with 5 mm jaw thickness.

Accessories required

Pneumatic hoses (1x required)

- mountaine moode (in requireu)	
Description	ArticleNumber
Set of pneumatic hoses for connecting a pair of pneumatic grips; including hose guiding for strain relief	1112640

Pneumatic control unit

See section 4.6 Accessories

Jaws

Type 8287 or type 8487



Product Information

Pneumatic grips type 8297 / F8297, Fmax 2.5 kN

Optional accessories Pressure amplifier

Description	ArticleNumber
Pressure amplifier for increasing operating pressure, max. input pressure 10 bar, pressure ratio 1:2, flow rate 900l/min, output pressure 2 - 10 bar. For installation in control unit line.	315016
Pressure amplifier for increasing operating pressure, max. input pressure 10 bar, pressure ratio 1:2, flow rate 400l/min, output pressure 2 - 20 bar. For installation in control unit line.	315018

The insertion aid can only be used in combination with the following double-acting pneumatic grips:

- Pneumatic grips type 8187, Fmax 200 N and type 8287, Fmax 1 kN
- Pneumatic grips for temperature chambers type 8287, Fmax 1 kN
- Pneumatic grips type 8297 / F8297, Fmax 2.5 kN
- Capstan grips type 8197 / F8197 Fmax 1 kN, pneumatic

Insertion aid for foil/film specimens, 1x required

For optimal alignment and secure insertion of thin flexible foils/films made of metal or plastic into the specimen grip.

Description	ArticleNumber
Insertion aid for foil/film specimens; width: 1025.4 mm, length: 210 mm, L0: 100 mm	1115929
Insertion aid for foil/film specimens; width: 1025.4 mm, length: 160 mm, L0: 50 mm	1127183

Insertion station for foil/film specimens, 1x required

For attaching the insertion aid for quick and easy insertion of the foil/film specimen into the insertion aid.

Description	ArticleNumber
Insertion station for foil/film specimens; width: 1025.4 mm, length: 210 mm, L0: 100 mm	1115928
Insertion station for foil/film specimens; width: 1025.4 mm, length: 160 mm, L0: 50 mm	1127181

Adapter, 1x required

Description	ArticleNumber
Adapter for optimal alignment and quick insertion of the insertion aid.	1115930

Insertion aid distance block for adapter, 1x required

Determines the distance between the specimen center and test axis center and is attached to the adapter.

Description	ArticleNumber
Insertion aid distance block for 10 mm adapter	1127184
Insertion aid distance block for 12.5/12.7 mm adapter	1127185
Insertion aid distance block for 15 mm adapter	1127186
Insertion aid distance block for 20 mm adapter	1127187
Insertion aid distance block for 25/25.4 mm adapter	1127188

Transport frame

Description	ArticleNumber
Transport frame for depositing five insertion aids.	1127189