

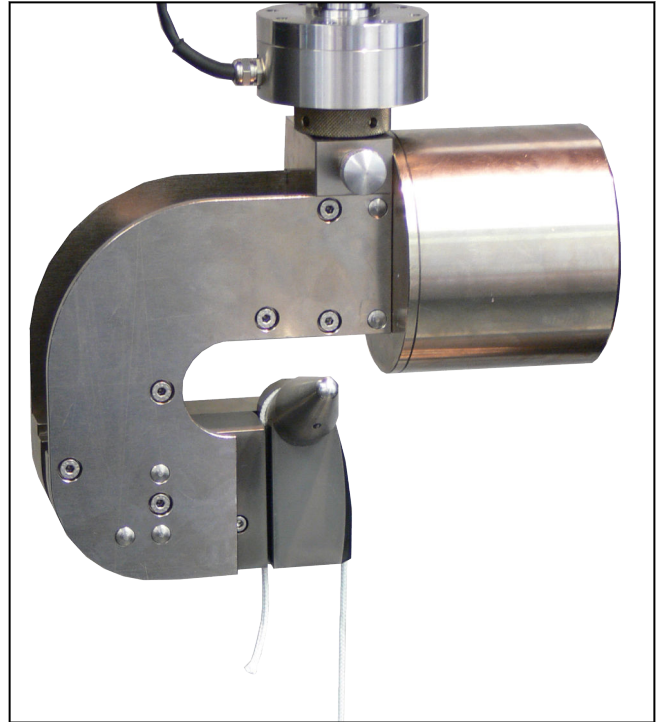
Product Information

Capstan grips type 8297 Fmax 2.5 kN, pneumatic

CTA: 40112 40112



Capstan grips for high-strength plastic yarns type 8297, Fmax 2.5 kN



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Applications

- Specimen material:
textiles, plastics
- Specimen shape:
high-strength yarn, multifilaments, cord
- Type of loading:
tensile

Function description

These pneumatic grips for yarn and tire cord are single-actuator grips for clamping fibrous or filamentary tensile specimens.

The load-reduction curve with 180° deflection gently reduces the tensile force before the clamping point. Pneumatic clamping ensures constant gripping force with easy, reproducible adjustment. The specimen is held securely and jaw breaks during the test are avoided.

The force reduction curve with 180° deflection allows a defined grip-to-grip separation to be assumed, eliminating the need for an extensometer.

An insertion aid and depth limit stop ensure quick, easy specimen insertion.

Advantages and features

- Secure holding of the specimen ensures reliable test results, even with specimens prone to shrinkage.
- High specimen throughput thanks to quick specimen insertion and exact centering with insertion aid and guide groove.
- Fast, easy two-handed specimen change - grips operated via foot control unit.
- The load-reduction curve ensures gentle gripping with no jaw breaks.
- The symmetrical weight distribution of the grips ensures accurate force measurement.

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Technical data

Type	8297	
Item No.	070255	
Operating principle/feature	pneumatic, single-actuator	
Test load F _{max}	2.5	kN
Closing force at 6 bar	16	kN
Pressure, min.	3	bar
Pressure, max.	10	bar
Clamping range		
Opening width, max.	4	mm
Dimensions		
Height	183	mm
Width	232	mm
Width with pneumatic connection	267	mm
Depth	100	mm
Depth with insertion aid	116	mm
Depth with insertion aid and connection unit	126	mm
Connection, stud	Ø 20	mm
Weight per grip unit, approx.	6.1	kg
Ambient temperature	+15 to +35	°C
Scope of delivery	2	pieces

Accessories required

Pneumatic control unit

Load reduction curve

Scope of delivery: 1 set = 2 pieces

Surface	Length per load-reduction curve [mm]	Hardness	Ambient temperature [°C]	Weight, approx. [kg]	Item No.
polished, rustproof finish	100	52HRC	+10 to +35	0.6	070258

Jaws

Scope of delivery: 1 set = 2 pieces

Version	Hardness	Clamping length [mm]	Gripping area (H x W) [mm]	Item No.
polished, rustproof	52 HRC	60	60 x 14	070260