

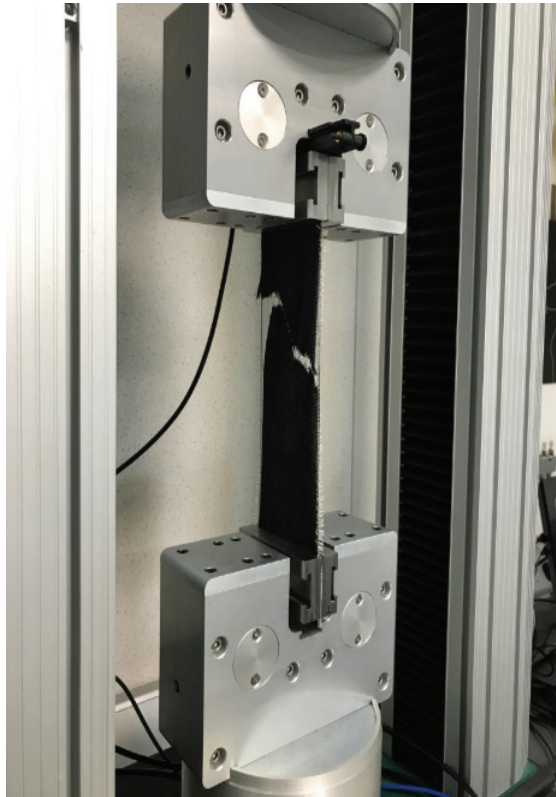


Pneumatic grip, 20kN

Higher force pneumatic grip operated by an integral valve. 25 x 50mm (1 x 2in). Dual pneumatically actuated jaws clamp the specimen on center line and maintain a positive pressure even when a specimen reduces in thickness during the test. Interchangeable jaw options available in support of positive gripping of material type and test standard compliance.

Controlled using a foot pedal. For safety the initial gripping force applied to a specimen is limited to a spring pressure. Full force test pressure is applied through activation by operator using two hands away from the grip jaws.

Supports integration into automated systems.



Application:	Flat flexible materials,
Compatible with:	Tinius Olsen ST series of materials testing machines
Specification:	
Max. Capacity:	20kN (4,000 lbs); when jaws \leq 50mm wide
	10kN (2,000 lbs); when 50mm \leq jaws \leq 100mm wide
Min. Load cell:	2.5kN
Construction:	Aluminium and steel body electroless nickel surface finish
Mounting interface:	Quick change with backlash elimination lock (Can be supplied with 5/8" or 3/4" female interfaces)
Dimensions:	229mm high (268mm with 3/4" I/F), 198mm depth, 230mm wide



Specimen dimension: 100mm wide x 12 mm thick (potentially up to 24 thick with thinner shorter jaws)

Max grip opening: 13mm (at rest)
(Jaws slide in and click into position centrally)

Weight: 15kg (without jaw faces)

Max. clamping force: 40kN at 80psi/5.5bar
(clamping force stays constant even if sample reduces in thickness)

Operating air supply: 80psi / 5.5bar

Temperature range: ambient to 35°C.
Options available for wider range

Other jaw faces are available on request.

Typical standards include:

Polymer	ISO 527-1
	ASTM D368
	GB 1040.1

Textile	ISO 13934-1, 4674-1
	ASTM D5034
	GB 3923.1

Tinius Olsen order number:

99-1010249/1	Pneumatic grips 20kN, including controller and foot switch; faces not included
99-1010249/2	Pneumatic grips 20kN including controller; faces not included
99-1010250	122-008 Pneumatic grips 20kN, faces & control unit not included
99-1010281	Vacuum controller VC0023
99-1010276	Vacuum generator VG0023
03-2010273	20kN Pneumatic grip jaw face 50 x 110mm wide for fabric
99-045-0030	Foot switch for use with HT400 or HT401 pneumatic controller units

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