



MTS Advantage™ Screw Action Grips

Versatile, high clamp force grip

Features

EASE OF USE

- » Quick and easy interchangeable faces
- » Room to hold flexible specimens above and below the faces
- » Knurled screw for hand tightening specimen during installation
- » Low profile grip body increases test space

FUNCTIONALITY

- » Can be used in a fixed (one side follows through) and non-fixed (both sides follow through) configuration
- » Right or left hand operation
- » Faces are compatible with MTS pneumatic grips
- » Flexible mounting allows adapters to be easily changed
- » Accommodates threaded configurations

RELIABILITY

- » An alignment guide ensures concentricity
- » Faces pivot for self alignment and reduced likelihood of breakage at the specimen face contact

VERSATILITY

- » Suitable for use in environmental chambers
- » Ability to test lap shear specimens

This grip offers ease-of-use, versatility and a high clamp force, making it especially good for applications where pneumatic grips do not provide sufficient clamping force. It works with servohydraulic and electromechanical machines.

MTS Advantage screw action grips provide approximately twice the clamp force of comparably rated pneumatic grips. Their interchangeable, resilient pucks allow follow-through action, compensate for specimen neck-down, minimize damage to delicate specimens, and increase clamp load for difficult specimens.

The grips can operate at a temperature range of -129°C to 200°C (-200°F to 400°F) when using the aluminum version of the pucks described above.

be certain.

MTS Advantage Screw Action Grips

Capacity	Specimen Thickness Range	Weight	Thread Type/Exposed Thread ¹	Upper Pin Adapter	Lower Pin Adapter	B	C	Part Number
100 N	0-13 mm (0.51 in)	0.36 kg (0.80 lbs)	M6 x 1/11 mm 1/4"-28/0.34 in	5/8"	1-1/4"	80 mm (3.1 in)	130 mm (5.1 in)	055-426-701
2 kN	0-19 mm (0.74 in)	0.95 kg (2.1 lbs)	M12 x 1.25/22 mm 1/2"-20/0.80 in	1-1/4"	1-1/4"	94 mm (3.7 in)	165 mm (6.5 in)	055-426-801
5 kN	0-13 mm (0.51 in)	2.1 kg (4.6 lbs)	M12 x 1.25/24 mm 1/2"-20/0.97 in	1-1/4"	1-1/4"	123 mm (4.9 in)	228 mm (9.0 in)	055-426-901
10 kN	0-25 mm (0.98 in)	4.9 kg (10.8 lbs)	M12 x 1.25/24 mm 1/2"-20/0.97 in	1-1/4"	1-1/4"	123 mm (4.9 in)	228 mm (9.0 in)	100-030-185

25 x 25 mm Faces for 100 N (20 lbf) Screw Action and Pneumatic Grips

Face Surface	Part Number
Smooth	056-163-801
Corrugated	056-163-802
Serrated	056-163-803
Diamond tipped	056-163-804
Rubber (matte)*	056-163-805
Rubber (corrugated)*	056-163-806
Rubber (Smooth)*	056-163-807
Line Contact (r=4.75 mm)	056-163-808
Line Contact or Rubber Opposite (r=4.75 mm)	056-163-826
Line Contact or Rubber Opposite (r=4.75 mm)	056-163-829

38 x 58 mm Faces for 2 kN (400 lbf) Screw Action and Pneumatic Grips

Face Surface	Part Number
Smooth	056-163-816
Corrugated	056-163-817
Serrated	056-163-818
Diamond tipped	056-163-819
Rubber (matte)*	056-163-820
Rubber (corrugated)*	056-163-821
Rubber (smooth)*	056-163-822
Line contact (r=4.75 mm)	056-163-823
Line Contact with Rubber Opposite (r=4.25 mm)	056-163-827
Grab test	056-163-824

50 x 75 mm Faces for 5 kN (1125 lbf) and 10 kN (2200 lbf) and Screw Action Grips

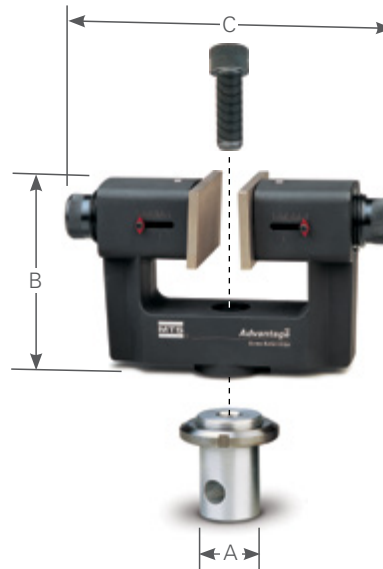
Face Surface	Part Number
Smooth	056-163-901
Corrugated	056-163-902
Serrated	056-163-903
Diamond tipped	056-163-904
Rubber (matte)*	056-163-905
Rubber (corrugated)*	056-163-906
Rubber (smooth)*	056-163-907
Line Contact (r=4.25)	056-163-908
Line Contact with Rubber Opposite (r=4.25 mm)	056-163-910
Grab test	056-163-909

¹Each grip order includes 2 socket head cap screws (SHCS). The pin adapter listed require the use of this SHCS.

*Room temperature only.

Pin Adapters

Size (A)	Socket Head ¹ Cap Screw	Part Number
15 mm	M6 x 1	055-425-901
30 mm	M12 x 1.25	055-425-701
45 mm	M12 x 1.25	055-426-001
5/8"	M6 x 1	055-425-801
1-1/4"	M12 x 1.25	055-425-601
1-1/4"	M6 x 1	100-021-398



MTS Advantage Screw Action Grips come with the upper and lower pin adapters noted in the first table (above). Optional pin adapters are noted in the table to the left.



MTS Advantage Screw Action Grips come in a convenient storage case with cutouts for grips, faces, pucks, grease, and other items. A manual is also included in the assembly.



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