

5 kN Wedge Grips for Metal Specimens

These easily-operated wedge grips are for tensile testing thin metal plates and metal wires. Although these grips don't benefit from the stationary grip face feature of non-shift wedge grips, they still incorporate a wedge design, where the grip faces press against the wedged frame during testing, applying a self-tightening action to hold the specimen firmly in place.

There are two grip sets for 5 kN (1,100 lbf) wedge grips for metal specimens. Both grip sets include upper and lower grips. The difference between the two grip sets is one includes integrated parallel-groove grip faces whereas the other has embedded cross file-teeth grip faces. The grip faces are available separately, and can be interchanged with relative ease.

Relevant Materials

Metals

Relevant Specimens

Plates, Wires



Operation

To insert a specimen, both grip faces are opened simultaneously by raising the attached pins and then closed by slowly lowering them. During release, the wedge-shaped frame guides the grip faces until contact is made with the specimen. To adjust the clamping tension applied to the specimen, a knurled knob is turned. This knob controls the compression of a spring, which applies tension to the grip faces.



Embedded file-teeth grip faces



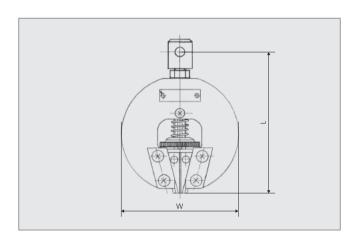
Grips open by raising the attached pins



Adjustment screw for gripping force

Specification

Maximum Grip Capacity			Applicable Specimen Thickness	Grip Face Size			Grip Size			Upper Grip	Lower Grip
				Width	Length	Temperature Range	Width	Length	Upper Grip Mass	Ø Fitting (Ø pin)	Ø Fitting (Ø pin)
kN	kgf	lbf	mm (in)	mm (in)	mm (in)	°C (°F)	mm (in)	mm (in)	kg (lb)	mm	mm
5 kN Wedge Grips for Metal Specimens with Integrated Parallel-Groove Grip Faces											
5	500	1,100	0 to 4 (0 to 0.16)	32 (1.3)	35 (1.4)	-70 to 250 (-94 to 482)	100 (3.9)	126 (5.0)	2.5 (5.5)	16 (6.5)	16 (6.5)
5 kN Wedge Grips for Metal Specimens with Embedded Cross File-Teeth Grip Faces											
5	500	1,100	0 to 4 (0 to 0.16)	12 (0.47)	25 (0.98)	-70 to 250 (-94 to 482)	100 (3.9)	126 (5.0)	2.5 (5.5)	16 (6.5)	16 (6.5)



Ordering Information

P/N	Description							
	5 kN Wedge Grip Sets for Metal Specimens Includes: upper and lower 5 kN wedge grips for metal specimens and grip faces							
343-07527-15	5 kN wedge grip set for metal specimens with integrated parallel-groove grip faces							
343-07527-16	5 kN wedge grip set for metal specimens with embedded cross file-teeth grip faces							
Additional Grip Faces Includes: 4 grip faces, two for each grip								
343-08903-01	Integrated parallel-groove grip faces for 5 kN wedge grips for metal specimens							
343-08903-02	Embedded cross file-teeth grip faces for 5 kN wedge grips for metal specimens							



Company names, product/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services. Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

For Research Use Only. Not for use in diagnostic procedures.
The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.