

Hydraulic Non-Shift Wedge Grips

Hydraulic non-shift wedge grips combine the benefits of a strong, consistent clamping force with an open-front, wedge design and are ideal for tensile testing plastics, metals, lumber, and composites.

Grip kits include upper and lower grips, file-teeth grip faces for flat specimens, an initial load prevention unit, and a hydraulic unit. The hydraulic unit comes with a grip operator switch box, uses an AC 3-phase 200 V, 2.5 W power source, has a maximum pressure of 21 MPa (214 kg/cm², 3,046 psi), and requires cooling water, a supply of 10 L/min.

The initial test force prevention unit removes the initial force as it is created during clamping of the specimen. It is necessary for hydraulic non-shift wedge grips because the clamping force is strong.

When ordering, grip kits should be matched to both the maximum capacity of the universal tester and the maximum capacity of the grips.

Additional grip faces, such as for rods, wires, materials with high hardness, and composite materials, can be found in the document on Grip Faces for Hydraulic Non-Shift Wedge Grips.



Plastics, Metals, Lumber, Composites

Relevant Specimens

Plates, Rods, Wires

Operation

Opening and closing of hydraulic non-shift wedge grips are controlled by a grip operator switch box. Sample mounting is simplified by the open-front design and because the grip face height stays the same during grip closing.



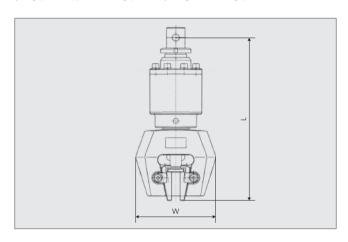


Change grip faces to suit your sample

Specification

Maximum Grip Capacity			Applicable	Grip Face Size			Grip Size			Upper Grip	Lower Grip
			Specimen Thickness Note 1	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
250	25,000	55,000	0 to 8.5 (0 to 0.33)	40 (1.6)	75 (3.0)	0 to 40 (32 to 104)	225 (8.9)	412 (16.2)	50 (110)	70 (35)	70 (35)
100	10,000	22,000	0 to 7 (0 to 0.28)	40 (1.6)	55 (2.2)	0 to 40 (32 to 104)	155 (6.1)	307 (12.1)	19 (42)	50 (17.5)	50 (17.5)
50	5,000	11,000	0 to 7 (0 to 0.28)	40 (1.6)	55 (2.2)	0 to 40 (32 to 104)	155 (6.1)	315 (12.4)	16 (35)	35 (13)	35 (13)
20	2,000	4,400	0 to 7 (0 to 0.28)	40 (1.6)	55 (2.2)	0 to 40 (32 to 104)	120 (4.7)	270 (10.6)	9 (20)	25 (10)	25 (10)

Note 1: The applicable specimen thickness is valid only for grip faces supplied with the grips and may change when other grip faces are used.



Ordering Information

P/N	Description							
Hydraulic Non-Shift Wedge Grip Kits Includes: upper and lower grips, file-teeth grip faces, an initial force prevention unit, and a hydraulic unit								
346-53862-12	250 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 300 kN models							
346-53861-12	100 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 300 kN models							
346-53860-12	50 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 300 kN models							
346-53859-12	20 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 300 kN models							
346-53861-13	100 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 100 kN models							
346-53860-13	50 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 100 kN models							
346-53859-13	20 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 100 kN models							
346-53860-14	50 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 50 kN models							
346-53859-14	20 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 50 kN models							
346-53859-15	20 kN hydraulic non-shift wedge grip kit for AG-X plus and AGS-X 20 kN models							

Grip Faces

File-teeth grip faces are standard accessories of all hydraulic non-shift wedge grip sets. If you require another type of grip face, please refer to the document "Grip Faces for Hydraulic Non-Shift Wedge Grips."





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