

Screw action grips provide a very simple and effective method for holding test specimens in a wide range of applications. The dual-action design of 2710-200 series grips means that jaw faces can be independently adjusted to accommodate different specimen thicknesses and geometries, ensuring that the line of tensile force remains concentric with the grip body. They can be equipped with a selection of optional jaw faces with a choice of surfaces including smoothground, rubber-coated, serrated and wave profile.

Features and Benefits

- Capacities of 1 kN (100 kgf, 225 lbf), 2 kN (200 kgf, 450 lbf), and 5 kN (500 kgf, 1125 lbf)
- Specimen thicknesses of up to 15 mm (0.6 in)
- Range of jaw face surfaces including serrated, smooth, rubber-coated and wave profile
- Dual-action independent clamps allow total control of specimen location
- Open-fronted design with wide throat for ease of specimen insertion

Application Range

- Static tensile tests on a wide range of materials and specimen types including plastics, metals, textiles, paper, thin sheet foil and wire
- Type of loading: Tensile, static and tension- tension cyclic tests
Not suitable for high cycle dynamic fatigue tests
- Specimen shapes: Round (wires) and flat specimens with or without shoulder tab ends

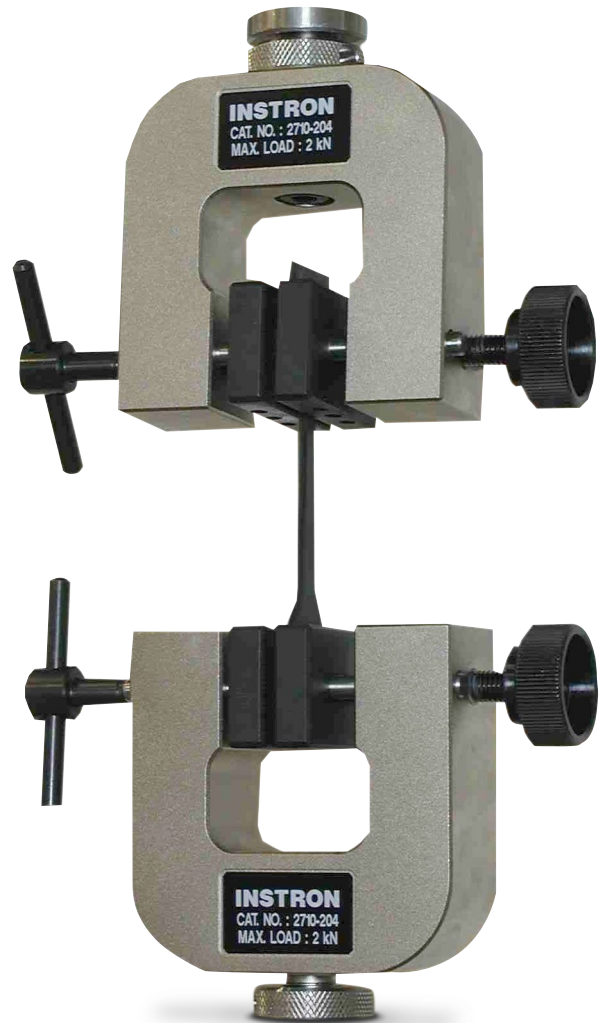
Principle of Operation

2710-200 series screw side-action grips are designed for basic static tensile testing on a wide range of materials.

The dual-acting screw design accommodates specimens up to 15 mm (0.6 in) thick and can be offset for irregular or asymmetrical specimens such as lap-shear types.

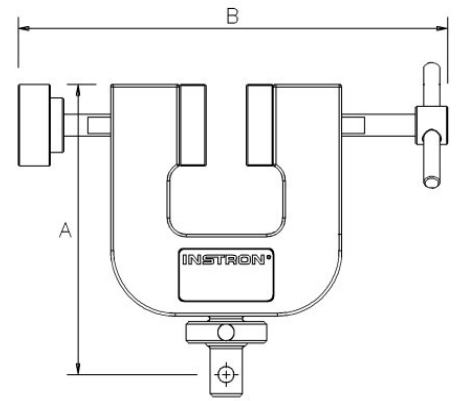
The grips feature a knurled knob on one side for adjusting the jaw face and a sliding T-handle on the other for tightening the grip. These can be interchanged to suit left or right-handed operation.

The open-fronted design features a wide throat to allow easy access for specimen loading and alignment.



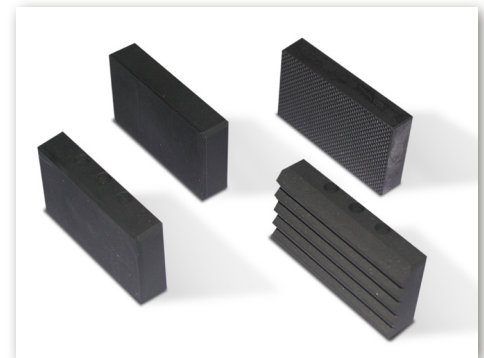
Specifications

Catalog Number		2710-203	2710-204	2710-205
Maximum Capacity	kN	1	2	5
	lbf	225	450	1125
	kgf	100	200	500
Mechanical Connection				
Upper	mm	6 clevis (Type Om)	6 clevis (Type Om)	6 clevis (Type Om)
Lower	mm	6 clevis (Type Om)	6 clevis (Type Om)	
	in			½ clevis (Type Dm)
Dimensions				
Effective Length (A) - Upper	mm	106.5	106.5	106.5
	in	4.2	4.2	4.2
Effective Length (A) - Lower	mm	106.5	106.5	125.5
	in	4.2	4.2	4.95
Overall Width (B)	mm	169	169	189
	in	6.65	6.65	7.44
Weight (Per Grip)	kg	0.81	0.89	1.15
	lbs	1.77	1.95	2.53
Temperature range	-	Ambient only		
Operating Principle	-	Dual acting screw design with offsettable jaw face position		
Maximum Specimen Thickness	mm	15 for smooth, rubber and serrated jaw faces 13 for wave profile jaw faces		
	in	0.6 for smooth, rubber and serrated jaw faces 0.5 for wave profile jaw faces		



Jaw Faces

Catalog Number		2702-140	2702-141	2702-142	2702-143
Type	-	Smooth-ground	Serrated	Rubber-coated	Wave profile
Specimen Thickness	mm	up to 15	up to 15	up to 15	up to 13
	in	up to 0.6	up to 0.6	up to 0.6	up to 0.5
Dimensions	mm	50 wide × 30 high			
	in	2.0 wide × 1.2 high			
Compatible with	-	2710-203, 2710-204, 2710-205 grips			



Optional jaw faces for 2710-200 series screw side-action grips

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