

G76 Capstan Wire and Rope Grips

Basic and Pneumatic Versions

G76 Capstan Style grips are used to test filaments, cord, yarn, fine wires, narrow ribbons and rope.

The specimen is wrapped one or more times around the guide capstan roller before being gripped with a jaw included.

G76 capstan rollers generate a slow notch free stress relief to prevent the breakage of the specimen in the clamping area.

Pneumatic versions available.



	G76-1 and G76-1+BD	G76-5 and G76-5+BD	G76-20
Applications	Yarn, filament, narrow ribbons	Cord, fine wires, narrow ribbons etc	Ropes, fine wires, narrow ribbons
Tensile force	1 kN (220 lb)	5 kN (1125 lb)	20 kN (4500 lb)
Wire & Yarn Maximum	2 mm (0.08 in) Ø	5 mm (0.2 in) Ø	9 mm (0.36 in) Ø
Ribbons Max Width	7 mm (0.28 in)	8 mm (0.32 in)	9 mm (0.36 in)
Jaw surfaces	Rubber faced jaws Diamond surface jaws (BD) Other surfaces on request	Pyramid jaws (0.6x45°), 58HRC Diamond jaws (BD) Other surfaces on request	Pyramid jaws (0.6x45°), 58 HRC Other surfaces on request
Clamp surface HxW	20x10mm (0.8 x 0.4 in)	30x12mm	30x15mm
Capstan diameter	20 mm Ø	40 mm Ø	94 mm Ø
Temperature range*	0 – 70°C*	0 – 180°C*	0 – 180°C*
Construction	Aluminum, anodized	Aluminum, anodized	Steel, manganese phosphated
Weight	0.26 kg each grip	0.8 kg each grip	2.7 kg each grip
Ordering information	Article No.G76-1BG: 1 pair incl. rubber faced jaws Article No.G76-1BD: 1 pair inclusive diamond jaws	Article No.G76-5BP 1 pair incl. pyramid jaws Article No.G76-5BD: 1 pair inclusive diamond jaws	Article No. G76-20BP: 1 pair incl. pyramid jaws

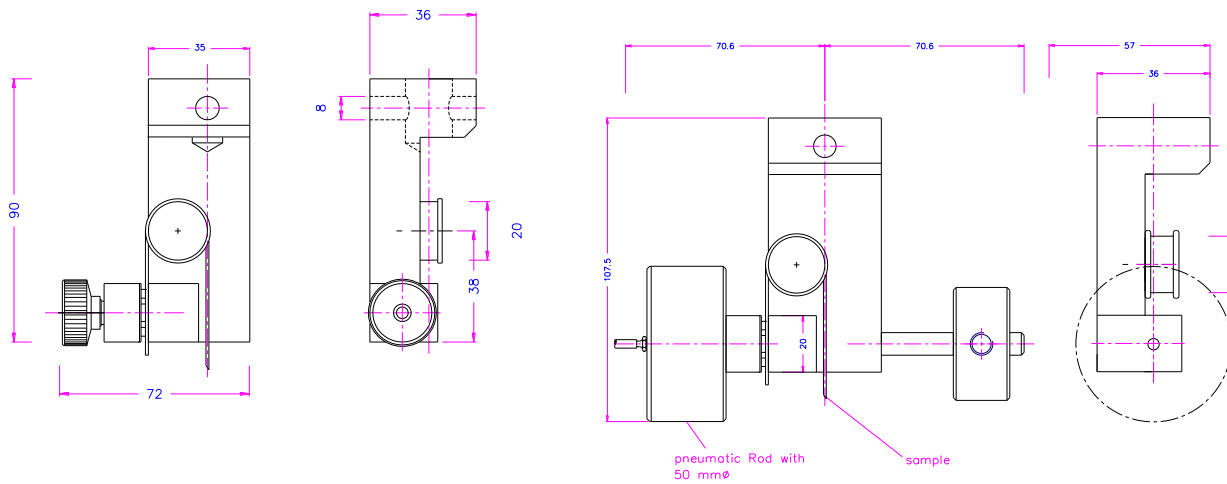
Pneumatic versions of G76

	G76-1P and G76-1P+BD	G76-5P and G76-5P+BD
Tensile force	1 kN (220 lb)	5 kN (1125 lb)
Wire & Yarn Maximum	2 mm (0.08 in) Ø	5 mm (0.2 in) Ø
Ribbons Max Width	7 mm (0.28 in)	8 mm (0.32 in)
Jaw surfaces	Rubber faced jaws Diamond surface jaws (BD) Other surfaces on request	Pyramid jaws (0.6x45°), 58HRC Diamond jaws (BD) Other surfaces on request
Clamp surface HxW	20x10mm (0.8 x 0.4 in)	30x12mm
Capstan diameter	20 mm Ø	40 mm Ø
Temperature range*	0 – 70°C*	0 – 180°C*
Pneumatic connection	Internal thread M5	Internal thread M5
Construction	Aluminum, anodized	Aluminum, anodized
Weight	0.67 kg each (grip with counter weight)	1.27 kg each grip
Ordering information	Article No.G76-1P: 1 pair incl. rubber jaws Article No.G76-1P+BD: 1 pair incl. diamond jaws The grips are supplied as a pair incl. 1 grip without and 1 grip with counter weight (upper grip)	Article No.G76-5P 1 pair incl. pyramid jaws Article No.G76-5P+BD: 1 pair incl. diamond jaws

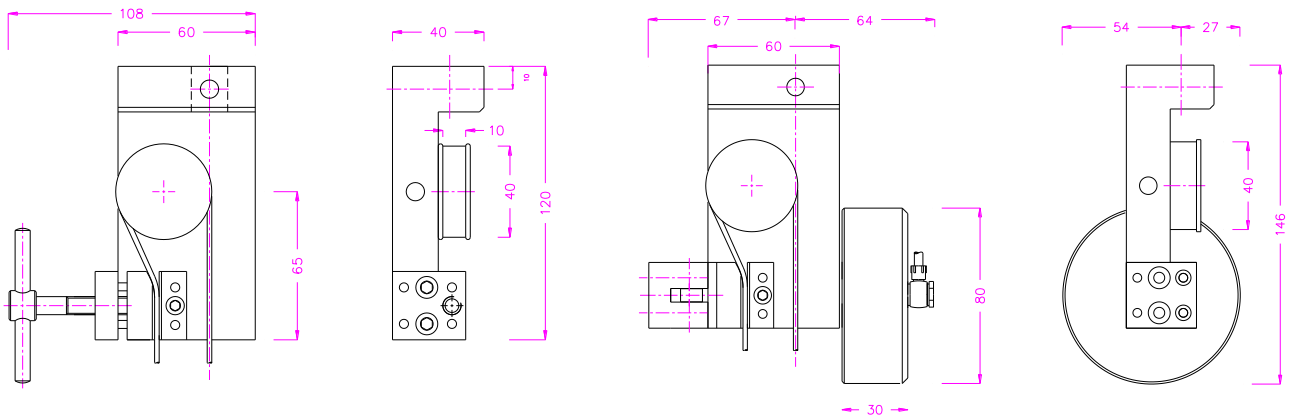


*Other temperature ranges on request

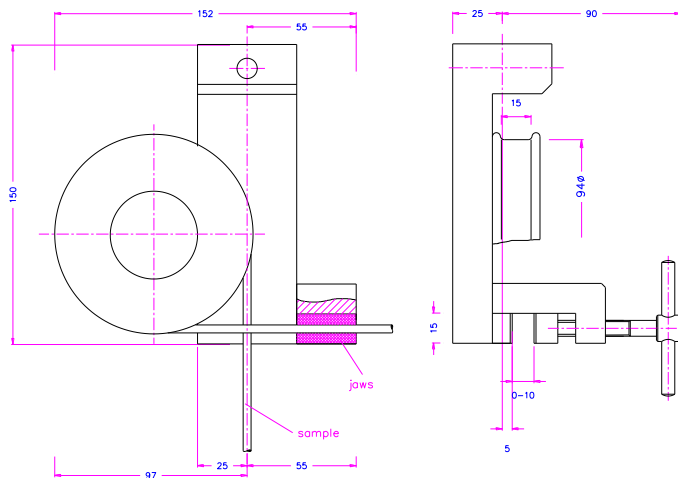
G76-1 Grip Dimensions



G76-5 Grip Dimensions



G76-20 Grip Dimensions



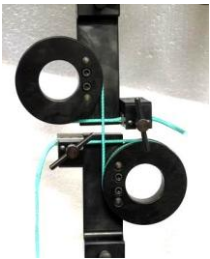
G76 Application Driven Solutions



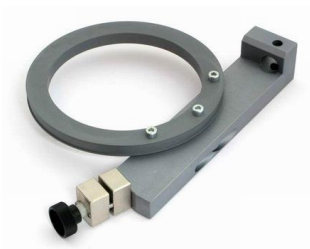
G76-1P



G76-5 with special adapter



G76-20 strapping



G76-1 with 150 mm diameter and diamond surface jaws



G76-5 with special coupling and rubber faced jaws



G76-20 with air cylinder

Accessories for the pneumatic versions of G76:



G205-1

2 pneumatic foot switches, tubes and fittings – no locking - The jaws of the grip open by pressing the foot pedal and close after removing the foot from the pedal.



G205-2

2 pneumatic foot switches, tubes and fittings, includes locking function: The jaws of the grip open by pressing the foot pedal and remain opened after removing the foot from the pedal. The jaws close by pressing the pedal one more time.



G205-PR

Optional Pressure regulator for G205-1 or G205-2 To adjust air pressure: 1-10 bar



G205-3

1 unit of pneumatic hand switches, tubes and fittings – features locking function: Handle with 2 positions. The jaws of the grip close by pulling the handle and remain closed. The jaws open by pushing the handle back.



G216

Silent compressor appropriate for laboratories - Max pressure: 16 bar; noise level: 45dB(A)
Motor 400 Watt; displacement 25 l/min with pressure reducer/water trap
Dimensions: 280x190x240 mm (L x W x H); weight ~ 14 kg