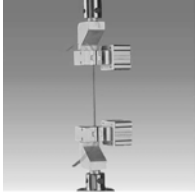




# Physical Test Solutions

Innovative Solutions in Material Test Equipment

## Grips, Fixtures & Accesories



ACCESSORIES  
ACCESSORIES



# Grips, Fixtures & Accesories

Physical Test Solutions (PTS) has a comprehensive range of grips, compression plates, bend fixtures, shear fixtures, extensometers and miscellaneous accessories designed to for use with universal testing machines.

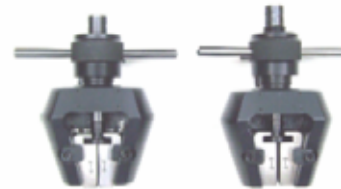
The product line includes the following items:

## WG Series Wedge Grips

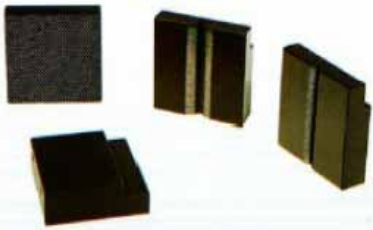
The **WG** series wedge grips are designed to provide positive grip action with hand wheel to avoid slippage during tests. The **WG** grips accommodate flat and Vee type inserts for testing flat and round samples.

WEDGE GRIPS	
WG-5KN	Wedge Grip, 5 KN Capacity
WG-20KN	Wedge Grip, 20 KN Capacity
WG-30KN	Wedge Grip, 30 KN Capacity
WG-50KN	Wedge Grip, 50 KN Capacity
WG-100KN	Wedge Grip, 100 KN Capacity
WG-200KN	Wedge Grip, 200 KN Capacity
WG-300KN	Wedge Grip, 300 KN Capacity

WG Grips



Inserts



WEDGE GRIP INSERTS	
WGI-5KN	Wedge Grip Inserts 5KN (flat or Vee)
WGI-20KN	Wedge Grip Inserts 20 / 30KN (flat or Vee)
WGI-100KN	Wedge Grip Inserts 50/ 100KN (flat or Vee )
WGI-200KN	Wedge Grip Inserts 200KN (flat or Vee)
WGI-300KN	Wedge Grip Inserts 300KN (flat or Vee)

## LWG Series Lever Wedge Grips

The **LWG** Series lever wedge grips offer practical and easy gripping action for rapid testing applications. In addition to its ease of use, the **LWG** grips are affordably priced. The **LWG** series of grips come in the same capacities as the **SG** series of grips.

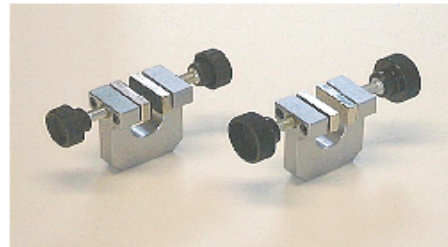


LEVER WEDGE GRIPS	
LWG-2KN	Lever Wedge Grip 2.5KN
LWG-5KN	Lever Wedge Grip 5 KN
LWG-20KN	Lever Wedge Grip, 20 KN Capacity
LWG-50KN	Lever Wedge Grip, 50 KN Capacity
LWG-100KN	Lever Wedge Grip, 100 KN Capacity
LWG-200KN	Lever Wedge Grip, 200 KN Capacity
LWG-300KN	Lever Wedge Grip, 300 KN Capacity

## SAG Series Screw Action Grips

The **SAG** series screw action grips are suitable for small and thin materials used in low capacity testing applications. Capacities range from 1 KN to 50KN. For added convenience in elastomeric applications, pneumatic grips, **PASG** are also available.

<b>SCREW ACTION GRIPS</b>	
SAG-125N	Screw Action Grip 125N (Includes inserts)
SAG-150N	Screw Action Grip 150N (Includes inserts)
SAGE-500N	Screw Action Grip Extended 500N (Includes inserts)
SAGE-1KN	Screw Action Grip Extended 1KN (Includes inserts)
SAG-1KN	Screw Action Grip 1KN (Includes inserts)
SAGE-5KN	Screw Action Grip Extended 5KN (Includes inserts)
SAG-5KN	Screw Action Grip 5KN (Includes inserts)
SAGP-5KN	Screw Action Grip Paper 5KN (Includes inserts)
SAGT-5KN	Screw Action Grip Textile/leather 5KN (Includes inserts)
SAG-10KN	Screw Action Grip 10KN (Includes inserts)
SAGP-10KN	Screw Action Grip Paper 10KN (Includes inserts)
SAG-20KN	Screw Action Grip 20KN (Includes inserts)
SAGP-20KN	Screw Action Grip Paper 20KN (Includes inserts)
SAG-50KN	Screw Action Grip 50KN (Includes inserts)
PSAG-5KN	Pneumatic Screw Action Grip 5KN (Includes inserts)



## STG Series Self Tightening Grips



<b>SELF TIGHTENING GRIPS</b>	
STG-1KN	Self Tightening Grips 1KN
STGW-1KN	Self Tightening Grips 1KN Wide
STBG-1KN	Self Tightening Bollard Grips 1KN
STRG-1KN	Self Tightening Rubber Grips 1KN
STTG-1KN	Self Tightening Textile Grips 1KN
STRGW-1KN	Self Tightening Rubber Grips Wide 1KN
STG-2KN	Self Tightening Grips 2KN
STRGW-5KN	Self Tightening Rubber Grips Wide 5KN
STSG-10KN	Self Tightening Scissor Grips 10KN



## PG Series Pneumatic Grips

The **PG series** is a stylish line of pneumatic grips which are typically used for lower capacity testing applications that require convenient pneumatic force.

## PFG Series Pneumatic Film Grips

The **PFG series** of pneumatic film grips is specifically designed for testing applications of film, aluminum foil, copper foil and paper. The grips include pneumatic pump and control valve for easy operation and high reliability.

Model	Capacity	Specifications
PFG-100	100 N (22 lb)	Grip width $\leq 22$ mm Grip thickness $\leq 5$ mm (No interleaver)
PFG -500	500 N (112 lb)	Grip width $\leq 25$ Grip thickness $\leq 6.5$ (No interleaver)
PFG -1	1 KN (225 lb)	
PFG -2	2 KN (450 lb)	Fixed jaw face: 25×50mm Grip width: $\leq 9$ mm ( Can add interleaver when testing)



## PTG Series Pneumatic Thread Grips

The **PTG series** of pneumatic thread grips is designed for testing applications of single thread and twine, and for multi-thread materials such as yarn, nylon or other filament materials. The thread is first tightened with parallel jaws and the rolled to achieve a firm grip.

Model	Capacity	Specifications
PTG-100	100 N (22 lb)	Specimen diameter $\leq 1$ mm
PTG -500	500 N (112 lb)	Specimen diameter $\leq 1$ mm



## PRG Series Pneumatic Rope Grips

The **PRG series** of pneumatic rope grips is designed for testing applications of rope, wire, cable, thread and other long and flexible materials. Model PRG-2 has a capacity of 2 KN (450 lb) and grips materials with a 3 mm diameter.



## PWG Series Pneumatic Wedge Grips

The **PWG** series of pneumatic wedge grips is designed for testing applications of metallic and non-metallic materials. The stylish design of the **PWG** grips combines positive reliable wedge self-lock gripping mechanism with appealing looks.

Model	Capacity	Specifications
PWG-5K	5 KN (1,125 lb)	Specimen thickness 0 – 8 mm
PWG -100K	100 KN (22,500 lb)	Specimen thickness Flat inserts 0 – 10 mm 10 - 21 mm Vee inserts 4 – 9 mm 9 – 14 mm 14 – 19 mm



## TG Series Textile and Geotextile Grips

A full line of textile and geotextile grips are available from **PTS**. Textile grips are available in several designs with parallel trapezoid or billowy tooth form. Other geotextile accessories such as punch fixtures are also available.

Model	Capacity	Specifications
TG-3K	3 KN (675 lb)	Grip width: 75 mm Grip thickness: 10 mm
TG -5K	5 KN (1,125 lb)	Wave shape jaw face Grip width: 80 mm Grip thickness: 14 mm
TG-20K	20 KN (5,000)	Grip width: 70 mm Grip thickness: 12 mm
GTG-20K	20 KN (5,000)	Grip width: 200 mm Grip thickness: 12 mm For Geotextiles



# HG Series Hydraulic Grips

The **HG** series is a stylish line of hydraulic side loading grips typically used for higher capacity testing applications that require convenient hydraulic force. The **HG** grips are conveniently offered with power supply for turn-key operation.



HYDRAULIC GRIPS	
HGPS-20KN	Hydraulic Grips & Power Supply 20 KN Capacity
HGPS-50KN	Hydraulic Grips & Power Supply 50 KN Capacity
HGPS-100KN	Hydraulic Grips & Power Supply 100 KN Capacity
HGPS-200KN	Hydraulic Grips & Power Supply 200 KN Capacity
HGPS-300KN	Hydraulic Grips & Power Supply 300 KN Capacity
HGPS-500KN	Hydraulic Grips & Power Supply 500 KN Capacity
HGPS-600KN	Hydraulic Grips & Power Supply 600 KN Capacity
HGI-300KN	Hydraulic Grip inserts 300 KN (flat or Vee)
HGI-600KN	Hydraulic Grip inserts 500 KN / 600 KN (flat or Vee)
HGPS	Hydraulic Grip power supply

## HG Series Capacities

- 50 KN
- 100 KN
- 200 KN
- 300 KN

HG-50KN



HG-100KN



HG-600KN



# Miscellaneous Grips

**PTS** has a wide variety of grips such as webbing grips, shoulder specimen grips and thread, rope and wire grips for diverse material testing applications.



**Shoulder Grips**



**Webbing Grips**



**Thread and wire Grips**

## Compression Plates and Fixtures

Compression plates are available for all machine types and capacities.



**Compression Plates**



**Coefficient of Friction**



# Flex Fixtures and Accessories

**PTS** has a full line of fixtures and miscellaneous accessories for various material testing applications. The product line includes the **FF** series of flex fixtures and the **SF** shear fixture series.



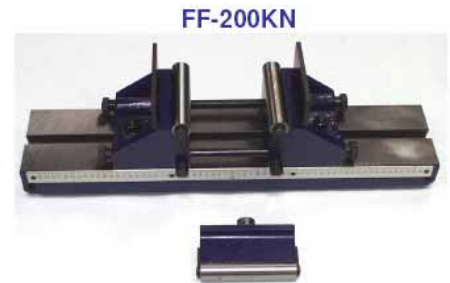
FIXTURES	
FF-2.5KN	Flex Fixture 10KN
FF-20KN	Flex Fixture 20KN
FF-50KN	Flex Fixture 50KN
FF-100KN	Flex Fixture 100KN
FFS-100KN	Flex Fixture 100KN, Special
FF-3/4-100KN	Flex Fixture 3/4 Point 100KN
FF-600KN	Flex Fixture 200/300/500/600KN
CDPF-2.5KN	Climbing Drum peel Fixture 2.5KN
PF-90	Peel Fixture 90 Degree
RG-20KN	Rope Grip 20KN
COF	Coefficient of Friction Fixture
SFA	Shear Fixture Accessory
CP-200KN	Compression Plates 10/20/50/100/200KN (100mm)
CP-200KN	Compression Plates 10/20/50/100/200KN (150mm)
CP-600KN	Compression Plates 300/500/600KN (150mm)
FS-TD-TC	Floor Stand
HEE	High Elongation Extensometer
VE	Video Extensometer



High Elongation Extensometer



Video Extensometer



Extensometer



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