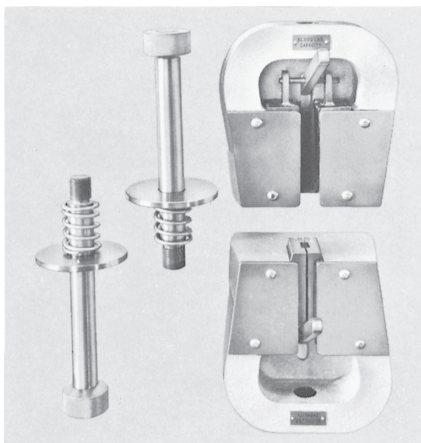


GRIPS

Suspended Wedge Tensile Grips



OPEN FRONT LEVER OPERATED 'K' GRIPS

Description:

These open front lever operated grips, known as 'K' grips, have a positive, self-aligning gripping action and allow rapid sample insertion and removal. The grips are supplied as standard with flat file inserts, but solid or insert type vee wedges can be supplied for round specimens. At some capacities, Tinius Olsen offers a choice of wedge angle – one with an 8½° angle for maximum gripping

pressure (recommended for hard, smooth faced materials) or one with a 15° angle for a wide range of sample types.

Compatible with:

ST and SL Series materials testing machines.

Applications:

Metals and other high strength materials.

Specifications – 30kN/6,000lb

- Wedge angle:
8½°
- Maximum diameter
(with vees):
12.7mm/0.5in
- Minimum diameter
(with vees):
6.35mm/0.25in
- Maximum thickness
(with flats):
8mm/0.3125in
- Maximum width
(with flats):
25mm/1in
- Gripping length:
70mm/2.75in
- Weight each:
5.9kg/13lb

Specifications – 60kN/12,000lb

- Wedge angle:
8½°
- Maximum diameter
(with vees):
12mm/0.5in
- Minimum diameter
(with vees):
8mm/0.3125in
- Maximum thickness
(with flats):
9.5mm/0.375in
- Maximum width
(with flats):
44mm/1.75in
- Gripping length:
70mm/2.75in
- Length each:
184mm/7.25in
- Weight each:
9kg/20lb

Specifications – 60kN/12,000lb

- Wedge angle:
15°
- Maximum diameter
(with vees):
22mm/0.875in
- Minimum diameter
(with vees):
6.35mm/0.25in
- Maximum thickness
(with flats):
15mm/0.625in
- Maximum width
(with flats):
44mm/1.75in
- Gripping length:
70mm/2.75in
- Length each:
168mm/6.61in
- Weight each:
9kg/20lb

Specifications – 150kN/30,000lb

- Wedge angle:
15°
- Maximum diameter
(with vees):
28mm/1.125in
- Minimum diameter
(with vees):
8mm/0.3125in
- Maximum thickness
(with flats):
22mm/0.875in
- Maximum width
(with flats):
50mm/2in
- Gripping length:
70mm/2.75in
- Length each:
190mm/7.48in
- Weight each:
16.3kg/36lb

GRIPS

Suspended Wedge Tensile Grips



Specifications – 60kN/12,000lbf

- Wedge angle: 15°
- Maximum thickness (with flats): 15mm/0.625in
- Maximum width (with flats): 44mm/1.75in
- Maximum diameter (with vees): 19mm/0.75in
- Minimum diameter (with vees): 8mm/0.3125in
- Gripping length: 70mm/2.75in
- Length each: 193mm/7.6in
- Weight each: 6.7kg/14.8lb

OPEN FRONT LEVER OR ROTARY

Description:

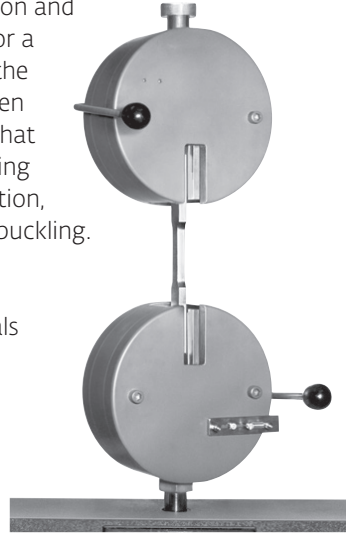
These grips use a unique balanced design that allows easy insertion of the specimen into these open front grips without bowing or bending the sample. Two types of actuation are available: a spring activated lever that allows faster insertion and removal of the sample, or a rotary type that moves the wedges horizontally when the handles are turned that maintains positive gripping without any vertical motion, eliminating any sample buckling.

Compatible with:

ST and SL Series materials testing machines.

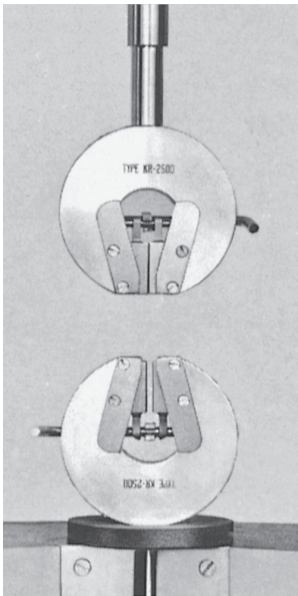
Applications:

Metals and other high strength materials.



Specifications – 150kN/30,000lbf

- Wedge angle: 15°
- Maximum thickness (with flats): 25mm/1in
- Maximum width (with flats): 50mm/2in
- Maximum diameter (with vees): 25mm/1in
- Minimum diameter (with vees): 6.35mm/0.25in
- Gripping length: 70mm/2.75in
- Length each: 210mm/8.27in
- Weight each: 15.7kg/34.7lb



SPRING TENSION CLOSURE 'KR' GRIPS

Description:

These grips use a spring tension closure to ensure a uniform gripping action – this is a particularly important feature for relatively fragile specimens. The type KR grips are normally supplied with flat wedges but wedges to accept round samples are available on special order.

Compatible with:

ST and SL Series materials testing machines.

Applications:

Metals and other high strength materials.

Specifications – 500N/100lbf

- Wedge angle: 15°
- Maximum thickness (with flats): 6.35mm/0.25in
- Maximum width (with flats): 25mm/1in

11kN/2,500lbf

- Wedge angle: 15°
- Maximum thickness (with flats): 9.5mm/0.38in
- Maximum width (with flats): 31mm/1.25in

25kN/5,000lbf

- Wedge angle: 15°
- Maximum thickness (with flats): 9.5mm/0.38in
- Maximum width (with flats): 31mm/1.25in