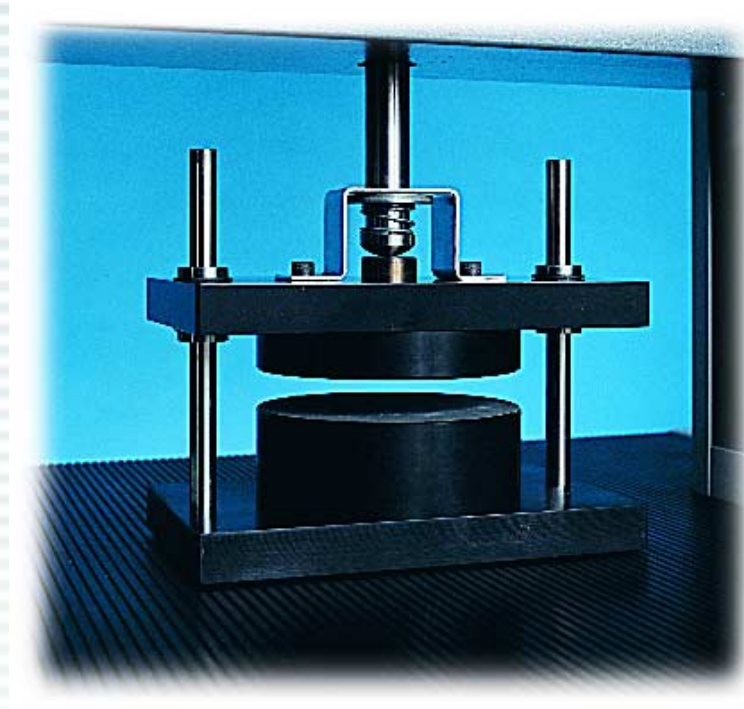


COMPRESSION PLATENS



SPECIFICATION
SS-FM-3402-0101
January 2001

INTERNET
www.force-gauge.net

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TG86: Square Low Force Direct Compression Platens

Description

Square direct compression platens for performing General purpose low force compression tests.

Specification

Maximum Capacity	500 N	112 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Dimensions	50 x 50 mm	2.0 x 2.0 in
Load Cell Fitting (screw)	9.52 mm	0.4 in
Weight of Upper Platten	<0.1 Kg	0.2 lb
Temperature Limits	-70°C +200°C	
Screw Thread	3/8 - 24 UNF	



Applications (TG86 & TG87)

Low force compression testing for small components for the purpose of determining one or more of the following compressive properties:

- Compressive Yield Strength
- Compressive Strength
- Offset Yield Stress
- Percentage Compressive Strain at Compressive Yield Stress
- Percentage Compressive Strain at Rupture
- Compressive Stress at Specified Compressive Strain

TG87: Circular Low Force Direct Compression Platens

Description

Circular direct compression platens for performing General purpose low force compression tests.

Specification

Maximum Capacity	500 N	112 lbf
Minimum Load Cell	20 N	4.5 lbf
Maximum Sample Diameter	36mm	1.4 in
Load Cell Fitting (screw)	9.52mm	0.4 in
Weight of Upper Platten	<0.1 Kg	<0.2 lb
Temperature Limits	-70°C +200°C	
Screw Thread	3/8 - 24 UNF	



TG162: Circular Compression Jig with Linear Bearing Guides

Description

Circular compression jig with linear bearing guides to maintain parallel alignment of face plates.

Specification

Maximum Capacity	2.5 kN	562 lbf
Minimum Load Cell	100 N	22.5 lbf
Max Sample Diameter	115 mm	4.5 in
Eye End Diameter	31.7 mm	1.25 in
Weight of Upper Platten	0.5 Kg	1.1 lb
Temperature Limits	Ambient	

Applications

Compression testing of corrugated cardboard and paper products. A test piece of corrugated cardboard or paper is placed between the platens of a crush tester with the flutes perpendicular to the platens. It is then subjected to compression until failure. The maximum force sustained by the test piece is measured.

Note: The platens may be faced with a very fine abrasive paper, but where this is done, care must be taken to ensure the faces remain flat and parallel.



TG36: Rectangular Direct Compression Platens

Description

Rectangular direct compression platens for samples up to 175mm x 115mm (6.9 x 4.5 in)

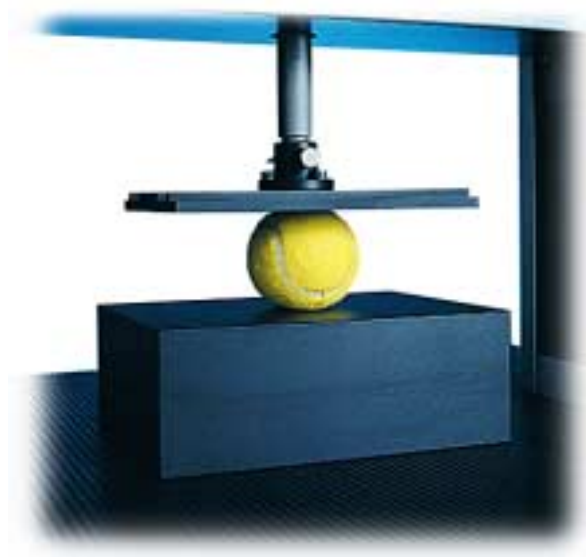
Specification

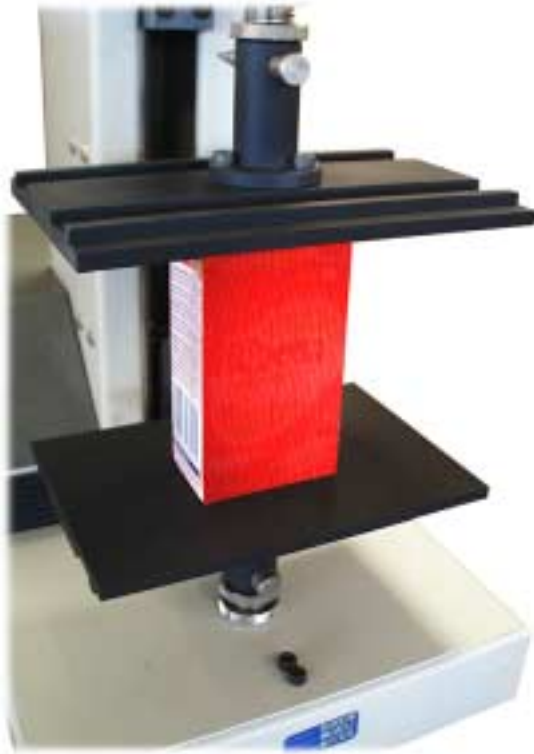
Maximum Capacity	5 kN	1124 lbf
Minimum Load Cell	50 N	11.3 lbf
Max Sample Dimensions	175 x 115 mm	6.9 x 4.5 in
Eye End Diameter	15.85 mm	0.62 in
Weight of Upper Platten	0.6 Kg	1.3 lb
Temperature Limits	Ambient	

Applications

General compression testing for a wide range of materials and products for the purpose of determining one or more of the following compressive properties:

- Compressive Yield Stress
- Compressive Strength
- Offset Yield Stress
- Percentage Compressive Strain at Compressive Yield Stress
- Percentage Compressive Strain at Rupture
- Compressive Stress at Specified Compressive Strain





TG37: Rectangular Direct Compression Platens

Description

General purpose rectangular direct compression platens for samples up to 175mm x 115mm (6.9 x 4.5 in.) Designed for use with the LF500 machine. The lower platen fits onto the lower eye end of the machine.

Specification

Maximum Capacity	500 N	112.4 lbf
Minimum Load Cell	50 N	11.3 lbf
Max Sample Dimensions	175 x 115 mm	6.9 x 4.5 in
Eye End Diameter	15.85 mm	0.62 in
Weight of Upper Platen	0.6 Kg	1.3 lb
Temperature Limits	Ambient	

Applications

General compression testing for a wide range of materials and products for the purpose of determining one or more of the following compressive properties:

- Compressive Yield Stress
- Compressive Strength
- Offset Yield Stress
- Percentage Compressive Strain at Compressive Yield Stress
- Percentage Compressive Strain at Rupture
- Compressive Stress at Specified Compressive Strain

ORDERING INFORMATION

Model	Part No.	Description
TG86	01/1143	Low Force, Square Compression Platens
TG87	01/1144	Low Force, Round Compression Platens
TG36	01/1136	Rectangular Direct Compression Platens - 5 kN (1124 lbf)
TG162	01/1664	Circular Compression Jig with Linear Bearing Guides - 2.5 kN (562 lbf)
TG37	01/2749	Rectangular Direct Compression Platens - 500N (112.4 lbf)

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TEST AND CALIBRATION INSTRUMENTS