



643 Compression Platens

Benefits

Etched Centering Rings

- » Let you visually center your specimens
- » Will not adversely affect test results as grooved rings can

Meets These Industry Specs

- » ASTM E9, Compression Testing at Room Temperature
- » ASTM C39, Compressive Strength Cylindrical Concrete
- » ASTM D7012, Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens Under Varying States of Stress and Temperature
- » ASTM D7070, Standard Test Methods for Creep of Rock Core Under Constant Stress and Temperature
- » ISRM Suggested Methods
- » Many others. Consult MTS

MTS 643 Compression Platens are made of case-hardened alloy steel (RC58 minimum) for long life and minimal wear. Concentric rings etched on the surface let you visually center your specimen without adversely affecting test results.

The upper platen is available on a spherical seat for improved alignment and ensuring even pressure across the entire surface of the specimen.

Platens are available for maximum specimen diameters from 60 to 305 mm (2.4 to 12 inches) and for unit stresses up to 690 MPa (100,000 psi) static or 276 MPa (40,000 psi) dynamic (with the specimen centered on the platens). Their temperature range is from -129 to $+177^{\circ}\text{C}$ (-200 to $+350^{\circ}\text{F}$).

be certain.

Specifications

Model	Maximum Specimen Diameter	Mounting Thread Insert Sizes
643.06B	60 mm (2.4 in)	M12 x 1.25 / 1/2"-20
643.10B	100 mm (4 in)	M27 x 2 / 1"-14
643.15B	150 mm (6 in)	M27 x 2 / 1"-14
643.20B	200 mm (8 in)	M27 x 2 / 1"-14
643.30B	305 mm (12 in)	M52 x 2 / 2"-12

Model	Description	Part Number*
643.06B-01	Fixed & Spherical	050-292-603
643.06B-03	Two Fixed	050-292-503
643.06B-05	One Fixed	050-612-103
643.10B-01	Fixed & Spherical	050-292-803
643.10B-03	Two Fixed	050-292-703
643.10B-05	One Fixed	050-612-203
643.15B-01	Fixed & Spherical	050-293-003
643.15B-03	Two Fixed	050-292-903
643.15B-05	One Fixed	050-612-303
643.20B-01	Fixed & Spherical	053-042-503
643.20B-03	Two Fixed	053-042-803
643.20B-05	One Fixed	053-042-703
643.30B-01	Fixed & Spherical	050-293-203
643.30B-03	Two Fixed	050-293-103
643.30B-05	One Fixed	050-612-403

*Note that MTS Model 643 Compression Platens are also compatible with electromechanical load frames. Consult MTS for appropriate part numbers.



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