COMPRESSION PLATENS

Spherically Seated Compression Platens

Adjustable, lockable spherically seated platens in aluminum or hardened steel



OVERVIEW

Spherically seated compression platens that align to the specimen surface and can then be locked in place. The spherical seat compensates for non-parallel specimen faces, after which four nuts fix the platen for the rest of the test. Anodized aluminum versions suit lightweight specimens such as packaging; hardened steel versions suit all compression tests, including concrete.

KEY FEATURES

- Spherical seat compensates for non-parallel specimen faces
- Locked with four nuts after alignment
- Seat radius matched to coupling size, R50 to R300
- Hardened steel 58 HRC or anodized aluminum
- Wide-angle version with up to ±10° swivel
- Adapters to combine with rigid square platens

TECHNICAL SPECIFICATIONS

Max. load	Depends on coupling size (e.g. 20 kN with Ø 15.9 mm clevis; 300 kN with 60 mm coupling)
Test type	Compression
Platen diameter	56, 96, 116, 156, 196 mm (others on request)
Swivel angle	±1.5° standard; ±10° wide-angle version
Locking	4 nuts fix the platen after alignment
Material	Steel 58 HRC, nickel-plated; or aluminum, anodized
Temperature range	-70 to +180 °C (aluminum); -70 to +280 °C (steel)
Coupling	Female clevis Ø 15.9 mm (5/8 in), Ø 20 mm or Ø 31.8 mm (1-1/4 in), up to 60 mm; others on request
Scope of supply	1 platen

AVAILABLE VERSIONS

Ø 56 mm, aluminum	Light version for 8-10 mm adapters, R50 seat, 60 g
Ø 56-196 mm, steel	For 12-25 mm adapters, R100 seat, 1.27-3.95 kg
Ø 56-196 mm, steel, heavy	For 30-50 mm adapters, R200 seat, 5.3-7.4 kg
Ø 156 / 196 mm, steel	For 50-60 mm adapters, R300 seat, 7 / 9.8 kg
Ø 100-200 mm, wide angle	±10° swivel, aluminum or steel, 0.9-5.2 kg
Adapter for square platens	±1.5° or ±10°, female clevis Ø 15.9 or 31.8 mm

APPLICATIONS

- Concrete, stone and mortar
- Packaging and lightweight specimens
- Metals and rigid plastics
- Specimens with non-parallel faces

Ordering & customization: Specify platen diameter, material, machine coupling size, swivel angle (±1.5° or ±10°) and maximum test load.

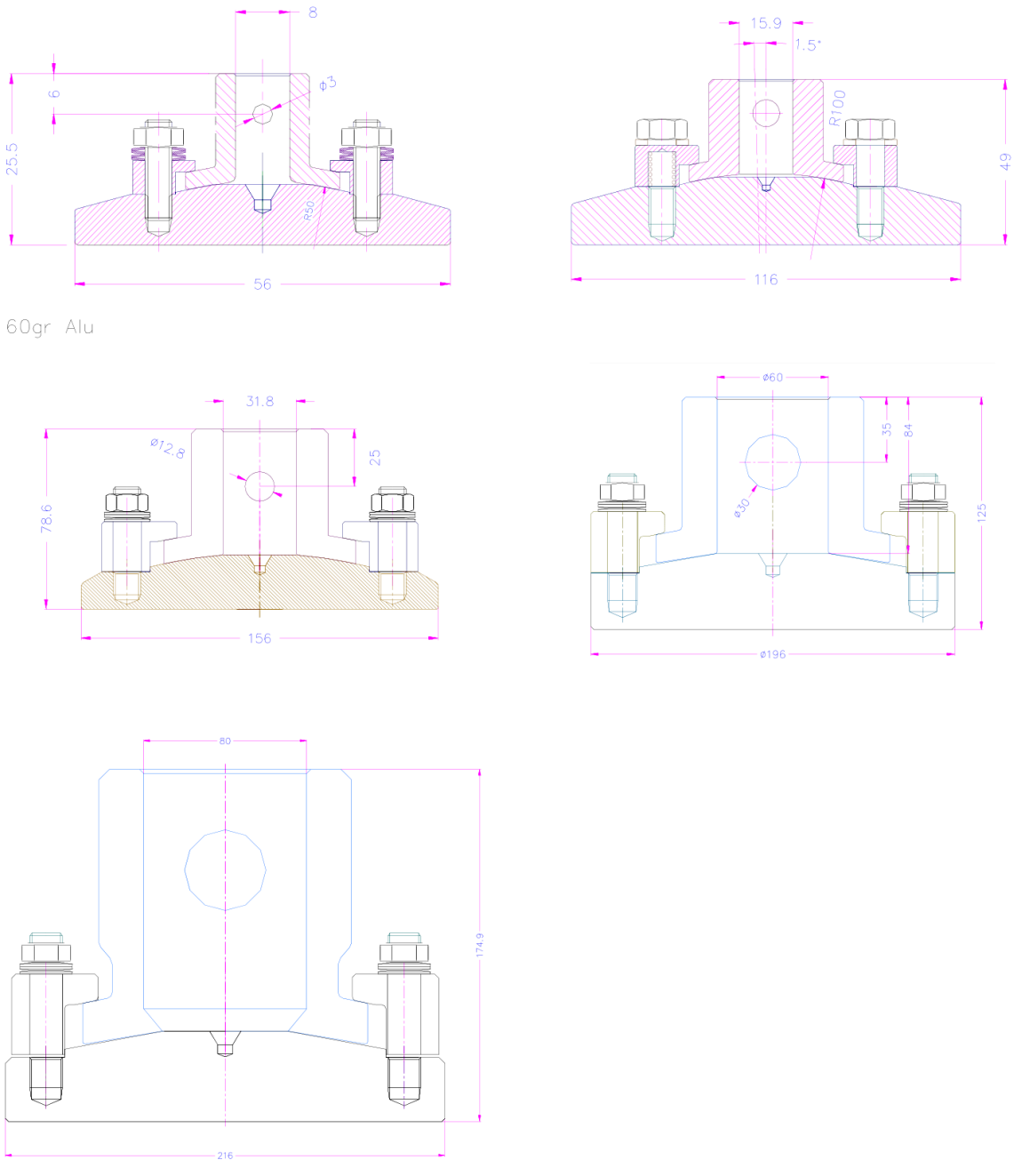
Dimensional drawings
See page 2. Certified drawings and 3D models available on request.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-CP-230

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DIMENSIONAL DRAWINGS

FIG. 1



Dimensions in mm. Drawings are representative of the product family and may show optional versions or accessories; dimensions are for reference only and may change without notice. Certified dimensional drawings and 3D models are available on request.