STANDARDS TEST FIXTURE

# Weld Cross Tension Grip ISO 14272

Cross tension grips for resistance spot welds to ISO 14272



## OVERVIEW

Tensile grips for cross tension testing of resistance spot, projection and seam welds according to ISO 14272. Two 50 × 150 mm coupons welded crosswise are clamped on serrated surfaces in each grip, and the testing machine pulls them apart perpendicular to the weld. Nickel-plated steel, rated for 50 kN, supplied as a pair.

## KEY FEATURES

- Designed for cross tension weld tests according to ISO 14272
- Accepts 50 × 150 mm cross tension specimens
- Pyramid-serrated clamping surfaces prevent coupon slip
- Rated for loads up to 50 kN
- Nickel-plated steel, 9.2 kg per pair
- Spot weld version to AWS D8.1M and D8.9M available

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Max. load** | 50 kN |
| **Test type** | Cross tension |
| **Standard** | ISO 14272 |
| **Specimen size** | 50 × 150 mm |
| **Clamping surface** | Pyramid (serrated) |
| **Coupling** | Female clevis, Ø 31.8 mm (1-1/4 in) pin; others on request |
| **Material** | Steel, nickel-plated |
| **Temperature range** | 0 … +70 °C; other ranges on request |
| **Weight** | 9.2 kg per pair |

## AVAILABLE VERSIONS

| | |
|---|---|
| **ISO 14272 grips** | 50 kN, 50 × 150 mm specimens, 1 pair |
| **AWS D8.1M / D8.9M grips** | 100 kN, spot welds in automotive sheet steel, 7.3 kg per grip |

## APPLICATIONS

- Automotive body-in-white
- Resistance spot weld QC
- Welding process development
- Sheet steel suppliers

**STANDARDS** ISO 14272

**Ordering & customization:** Specify specimen size, the machine coupling, and whether the AWS version is required.

**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-ST-410

# Weld Cross Tension Grip ISO 14272

DIMENSIONAL DRAWINGS

FIG. 1

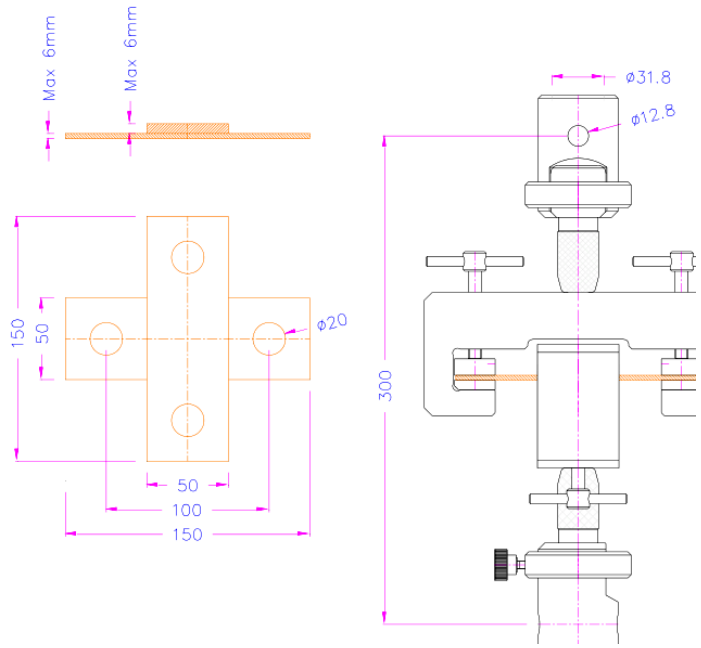
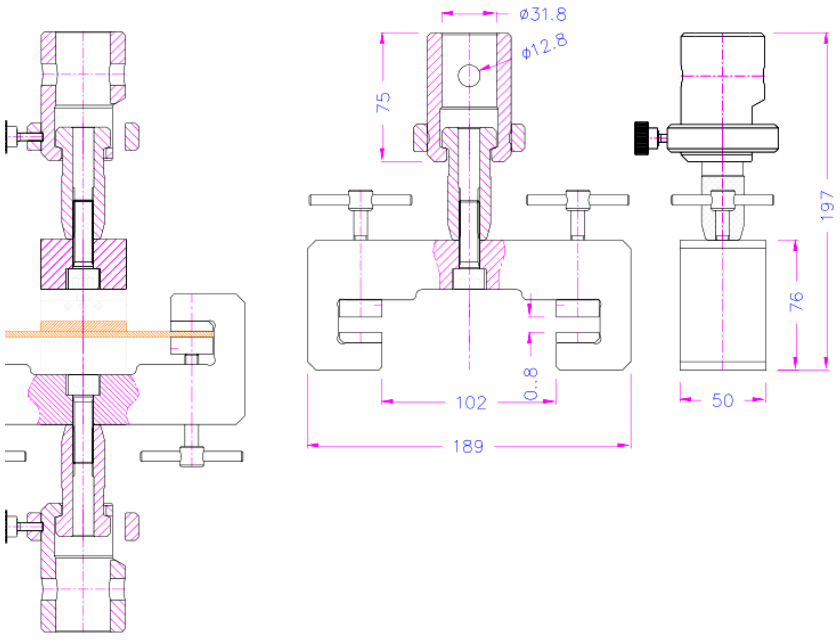



FIG. 2




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.