Guangzhou Merforge Trading Co., Ltd.
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Right Angle Coupler

Fixed 90° drop-forged coupler for joining vertical standards to horizontal ledgers.



Material	Q235 / 45# Carbon Steel
Surface Finish	Hot-dip galvanized 45–70 µm / Electro-zinc / Painted
Minimum Order	500 pcs
Packing	25 pcs per carton, or 50 pcs per woven bag, on steel pallets
Delivery	15–25 days after deposit and sample approval

Product Overview

The right angle coupler (also called a 90° coupler or double coupler) is the workhorse fitting of every tube-and-coupler scaffold. Two bolted jaws are forged at a fixed right angle so that a vertical standard and a horizontal ledger lock together rigidly — carrying vertical loads in shear and resisting the frame's outward push.

Core Features

Drop-Forged Body
The coupler body is die-forged from carbon steel, giving a continuous grain flow that resists fatigue far better than welded or cast fittings.

Fixed 90° Geometry
Permanent right-angle jaws hold standards and ledgers square, keeping the scaffold frame true and simplifying erection.

T-Bolt Fastening
M12 T-bolts with hex or wing nuts give fast, repeatable tightening with a standard podger spanner.

Galvanized or Painted
Choose hot-dip galvanizing for long outdoor service life, or painted finish for rental fleets where colour coding matters.

Fits 48.3 mm Tube
Manufactured to EN 74 / BS 1139 interface dimensions for 48.3 × 3.2 mm scaffold tube; other sizes to drawing.

Standard Specifications

Process	Drop-forged and pressed sheet-steel versions both available
Product Type	Right angle coupler / 90° double coupler (fixed)
Manufacturing Process	Drop forged (heavy duty) / pressed steel available
Material	Q235 carbon steel / 45# steel

Compatible Tube	48.3 × 3.2 mm scaffold tube (EN 74 Class A)
Fastener	M12 T-bolt with hex nut or wing nut
Surface Finish	Hot-dip galvanized 45–70 µm / electro-galvanized / painted
Unit Weight	Approx. 1.10 kg (forged), 0.85 kg (pressed)
Standard Reference	EN 74-1 / BS 1139-2.2 / GB 15831

Recommended Applications

Facade Access Scaffolding	Vertical standards to horizontal ledgers on every lift of a facade scaffold.
Transoms & Bracing	Forming the horizontal base and top lifts, plus diagonal brace connections.
Refurbishment Works	Fast erection on tight urban sites where speed and rigidity both matter.

Request a quotation — email **visitor@merforge.com** or WhatsApp **+8615920592749**. We reply within 24 hours. Dimensions follow EN 74 / BS 1139 series; custom sizes produced to drawing.