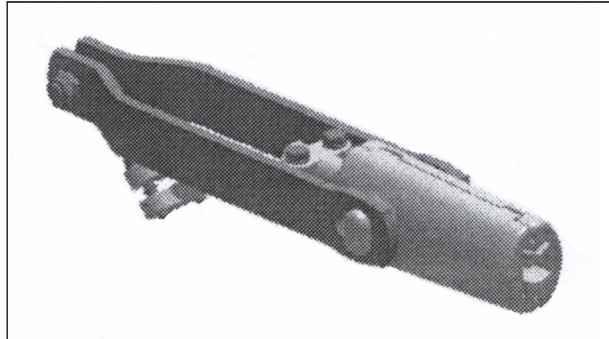




Overhead Clamps

Tension Clamps Wedge Type



Description Tension Clamps are used to tension conductors and earth wires and must therefore satisfy the most stringent requirements. There are two basic systems of tension clamps.

1. Non-detachable clamps, such as compression dead-end clamps which require absolute matching to the conductor length and which are not removeable; and
2. Detachable clamps, such as wedge-type tension clamps and bolted type tension clamps which allow for subsequent removal and adjustment.

Mosdorfer wedge clamps meet the following requirements:

Holding Forces The clamps must take up the maximum conductor strain, i.e. they must take up the holding forces stipulated, which as a rule lie between 85% and 95% of the ultimate conductor strength.

The components which transmit the compressive force must be designed so that no unacceptable crushing of the conductor can take place.

Vibrations Vibrations of the conductors are dangerous, especially at the conductor entrances of the clamps. Safety requirements can be met by a lightweight construction of the clamp and a trumpet shape of the terminations, resulting in a gradual increase of conductor radial compression.

Corona Good corona and radio interference voltage (RIV) behaviour due to rounded shapes.

Short circuit capability The short circuit capability is excellent due to a narrow ranged groove which leads to a large contact area. The connecting parts of the clamps are adjusted to the requirements.

Corrosion resistance Maximum corrosion resistance is achieved by using a clamp material that matches with that of the conductor, for example a corrosion resistant AlMgSi alloy for conductors made of aluminium alloy etc.

Electrical Losses Electrical power losses (eddy current losses) are kept to a minimum by an adequate design.

Standards The connecting bolts acc. DIN 48073/5.6 or 8.8. Split Pins are made of stainless steel or tinned copper. Clevis eye connections accredited to DIN 48074 IEC 471.

Hot Dip Galvanising Steel hardware is hot dip galvanised in Mosdorfer's own plant. Galvanising can be done in accordance to relevant national and international standards.

Abbreviation for bolts:

S = screw bolt

N=rivet bolt.