

Twisting device for electrical conductors

Abstract

Twisting device for electrical conductors has at least one twisting head (1) that is drivable by motor power to rotate about an axis of rotation and a clamping device for the conductors (3). The twisting head (1) is movable in the direction of its axis of rotation toward the clamping device for the purpose of length compensation. To this end, it is mounted on a first, motorised length compensation carriage (2), and the clamping device is mounted on a travel compensation carriage (4) that is movable towards the length compensation carriage (2) parallel to the axis of rotation of the twisting head. The travel compensation carriage can be subjected to a force acting essentially parallel to the axis of rotation generated by a force generating element.

After the conductors (3) have been cut to size and transferred to the twisting head (1) and the clamping device, the conductors (3) are placed under tension. Then, the twisting head (1) is activated to rotate about an axis of rotation parallel to the conductors (3) while simultaneously moving towards the clamping device according to a travel profile. At the same time, the clamping device is subjected to a force directed away from the twisting head (1) and the travel and / or force profile for the clamping device is calculated and evaluated.

(Fig. 1)