



ANC 3 INSULATION STRIPPING UNIT

For insulation stripping of enamelled wires. Wires with insulation layer are used for current-carrying conductors such as coils or tight-fitting windings. To put voltage, the ends of the wires have to be insulation stripped before winding or forming them. Thus, Bihler developed a CNC insulation stripping unit with a blade head that strips the enamel in a reliable and proper way.

Depending on the application, the blade head is equipped with 3 special blades made out of hard metal or diamond. One and the same set of blades can be used for different wire diameters.

The required wire guides with quick change system have to be adapted to the respective wire diameter. The generated chips are removed by an industrial vacuum cleaner. The insulation stripping unit can optionally be executed as stand-alone version or integrated into the production sequence of a Bihler machine.

The electrical system consists of a cabinet with positioning control for the 3 axes as well as an operator panel with display that accomodates the freely programmable control. The control comprises a digital interface to the Bihler machine controls P-CNC 4E and P-CNC 400 for start signal, tool change, monitoring and error indication.

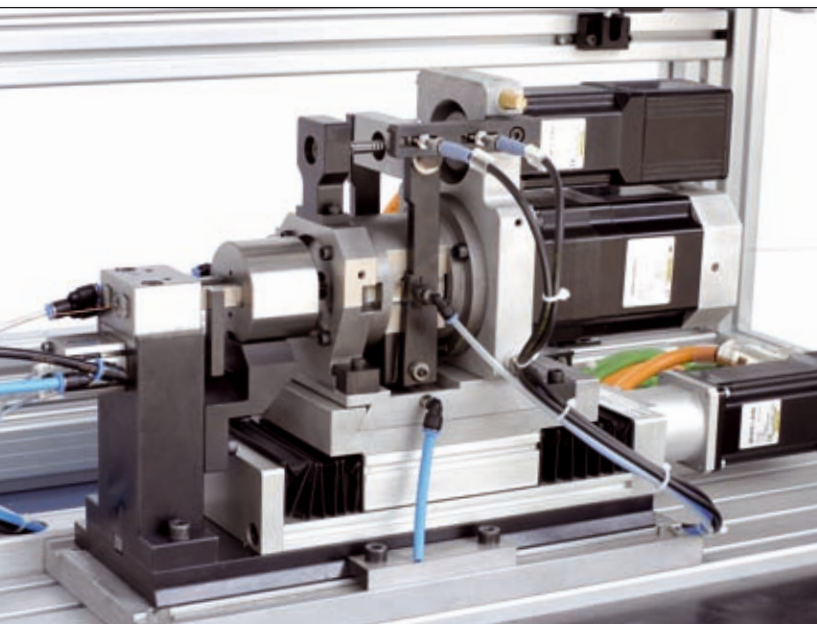
The operation sequence of the three electronical drive motors is controlled by the program. Data input for the 3 axes takes place at the operator panel.

Motor 1: In combination with a mechanism, the closing movement of the insulation stripping head is controlled by a motor.

Motor 2: The insulation stripping movement consists of the rotation of the insulation stripping head, equipped with 3 blades.

Motor 3: The linear insulation stripping stroke determines the length of the insulation stripped wire section. A non-return unit clamps the wire during the working stroke. Clamping of thin wires with a diameter up to approx 0.8 mm takes place by a collet chuck, clamping of thicker wires by means of a pneumatic cylindre with clamping jaws. The entire insulation stripping unit is mounted onto a baseplate. Concerning the stand-alone version, a complete rack including protection cover is available.

(subject to change without notice 11/05)



Stand-alone version

Technical data

Wire diameter	0.5 to 5 mm
Insulation stripping length	max. 45 mm
Stroke	max. 140 1/min