

Transfer Bending Machine, Type SpeedFormer

For the Series Production of Hairpins, I-Pins and Stator Connection Assemblies from Flat Wire

The SpeedFormer combines the individual steps required for hairpin production: Infeed of processing material, straightening, insulation stripping, cutting off and bending in one unique system. The newly developed bending concept unites three well proven bending techniques from conventional wire and tube bending machines and uses them for the production of complex geometry elements. As all process steps are carried out simultaneously, a cycle time of 1 – 1.5 seconds per hairpin can be reached. The SpeedFormer's high output, low space requirement, flexibility in the production of different hairpin geometries and its high production reliability, optimize the series production of hairpins.

Our Accomplishments for your Benefit:

- Flexible change of hairpin geometries without retooling due to 3d bending technology that does not require any shape-dependent tools
- All hairpin geometries of a stator can be produced economically in batch size 1 by one machinery system
- The compatibility of machinery systems ensures a quick transfer of projects, if needed
- Reliable concept - from the development phase to series production - thanks to our WAFIOS production technology integrated in prototypes as well as large-volume series
- High output combined with minimum space requirements and low investment costs
- Quality control by integrated verification and control of geometry features, e.g. leg position or contact surface, using intelligent camera measuring technology

Technical Data		SpeedFormer
Material:	Cross section: Thickness: Width:	20.0 mm ² max. 1.0 – 6.0 mm 2.0 – 8.0 mm
Feed length:		Freely programmable, 800 mm max.
Rod length:		min. 150 mm max. 800 mm
Insulation stripping length:		max. 40 mm
Output:		up to 60 pcs./min

