



**L.a.e.**

Lugheese Attrezzature per l'Elettromeccanica Srl

**SF 4**

Your Partner for Transformers Manufacturing

## FOUR-WAY FLATTENER



### TARGET

The four-way flattener allows to shape aluminium and copper round wires into rectangular cross sections as the wire is being wound.

### MAIN FEATURES

The unit SF 4 can be used either to complete the system on the LAE wire winding machines, or on any existing wire winding machines. The dancer with loop compensation allows the unit to work smoothly while winding on round, oval as well as rectangular shaped coils.

It is possible to flatten enamelled wire (not possible with paper insulation, nomex, fibreglass); the type of insulation can be formvar enamel, polyester enamel or polymer insulation.



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### MACHINE COMPOSITION

**MAIN MACHINE :**

- (a) 4-way flattening rollers
- (b) Height & width adjustment units
- (c) Dandy rollers unit
- (d) Motor & transmission
- (e) Control panel with industrial PLC
- (f) Internet teleservice

**ACCESSORIES :**

- (1) Wire-unwinding unit
- (2) Data transfer from remote PC
- (3) Modem teleservice

### TECHNICAL DATA

<b>GENERAL</b>		
Weight of basic machine	approx.	2000 kg
Flattening linear speed	max	250 m/1'
<b>CONDUCTORS</b>		
Nominal diameter for copper	min/max	0.6 / 3.7 mm
Nominal diameter for aluminium	min/max	1.0 / 5.0 mm
<b>CONDUCTOR TENSION</b>		
Applied tension	min/max	7 / 35 N/mm <sup>2</sup>
Tension tolerance		± 10%
<b>FLATTENING CHARACTERISTICS</b>		
Ratio between width & thickness	Cu/Al	1.4 / 2.5
Wire elongation	min/max	0 / 20 %
Average thickness tolerance		±0.015 mm
Average width tolerance		±0.015 mm

