

# AEM UNICORE MACHINERY

## Transformer Cores and Machines

For General Purpose & Distribution Transformers (500 VA - 5000 kVA)

**UNICORE MODEL UCM300 (300 mm / 12 inch)**

**UNICORE MODEL UCM425 (425 mm / 16 inch)**



### New Features:

- UCM300 process 1 x 300 mm or 2 x 140 mm strips
- UCM425 process 1 x 425 mm or 2 x 210 mm strips
- Integrated dust extraction hood
- Industrial touch screen controller
- 4 cutting edges per carbide blade
- servo motor driven cut, fold & feed
- lower operating costs
- quieter operation
- faster



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## APPLICATIONS

Unicores are produced for the following single and three phase applications: general purpose transformers, voltage transformers and distribution transformers including pole and pad mounted.



## SOFTWARE

The Unicore machine's feature user friendly, interactive programming software. Core design screens include graphics and additional design options. The production screen shows core progress and allows control of work batches. There are also maintenance and help screens.



## ADVANTAGES

For **Distribution Transformers**, Unicore Technology provides a highly flexible, accurate and reliable production system with all the inherent advantages of wound core technology, such as very low core loss, fast assembly and high output relative to capital investment.

For **General Purpose Transformers**, Unicores have lower losses than C-cores or E&I and 90 degree Cut Laminations. Unicores can also be made from non orientated electrical steel to lower the cost. Transformer assembly is simple and fast.

## UNICORE SIZE & MATERIALS

Unicores are defined by window length & width, strip width & build up. Dimensions are limited only by materials handling & design considerations. Unicores can be produced from GO or NO electrical steel with thickness from 0.2 to 0.35 mm. A spreadsheet is available to calculate machine output.



## UNICORE TYPES & FACES

Unicore types include standard & end-overlap Distributed Gap, DUO core, DEE core, Uncut, Butt, Step Butt and 90 degree cut laminations. Most Unicore types are available in single and three phase designs. The UCS software allows detailed design and specification of the core face geometry. For example overlap length, number of overlaps per packet and number of laminations per overlap are all selectable.

