

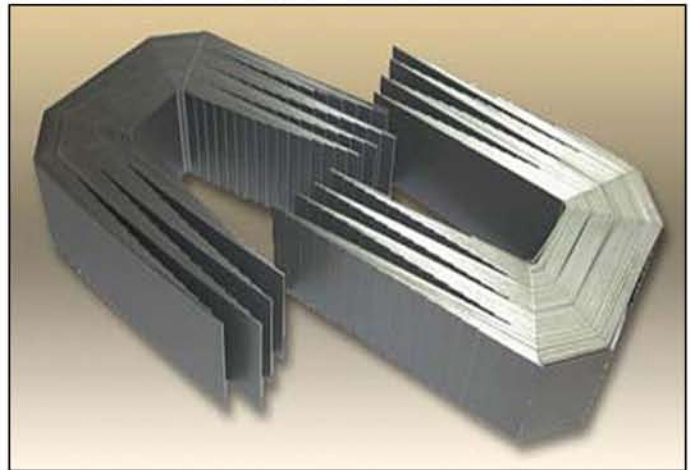
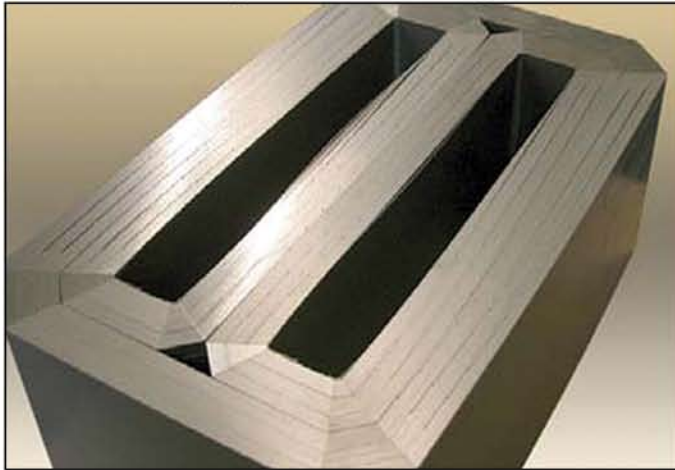
AEM UNICORE[®] MACHINERY

Transformer Cores and Machines

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

DUO-Core

The Easy Assembly, Low Loss, Price Competitive Unicore[®]



Applications

Core type, single leg and shell type, single & three phase for distribution and general purpose transformers.

DUO-Core Types

For general purpose transformers, to reduce assembly time, the number of laminations per overlap may be increased from 1 up to 3. These are called DUO1, DUO2, DUO3. Increasing from 1 to 2 results in a 45% decrease in assembly time, and 2 to 3 results in a further 25% decrease. Note that core loss and magnetising VA will increase.

Annealing Information

Annealing reduces core loss by 5 to 30%, depending on Unicore size. For small cores annealing is desirable when the highest efficiency is required.

Special Features

Simple TIG weld of final lamination. Centre leg spacing and face geometry can be specified.

Unicore Sizes

Dimension	Minimum (mm)	Maximum (mm)
Window Length (WL)	80	Unlimited*
Window Width (WW)	40	Unlimited*
Strip Width (SW)	20 (with 2 strips)	300/425 (with 1 strip)
Core Build Up (BU)	10	Unlimited*

*Not limited by the Unicore Machine. Limited only by practical transformer manufacturing considerations.

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AEM is the holder of multiple worldwide patents protecting its products and Intellectual Property.



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