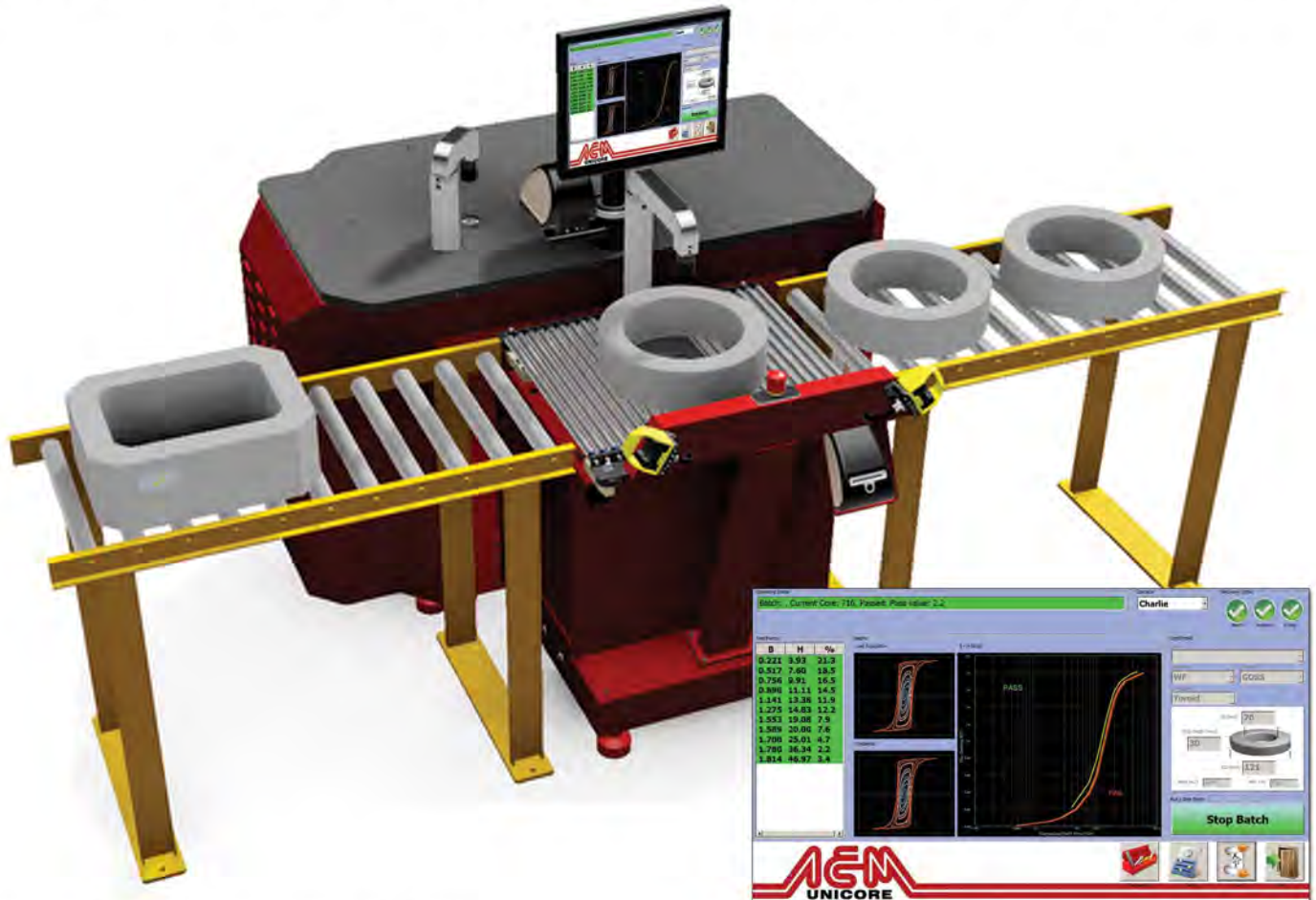


AEM TCT150 Transformer Core Tester

Core Tester for Toroids & Single Phase Unicores®



- Test cores at 50 Hz, 60 Hz and up to 400 Hz
- Test various material types - C.R.G.O., Ni Fe & Amorphous
- Min core ID = 36 mm
- Min core cross section = 10 x 10 mm
- Max core OD = 700 mm
- Max core height = 220 mm
- Flux densities from 0.02 to 1.8 Tesla
- Maximum Magnetising Force H = 300AT/m
- User configurable test points

- User replaceable test clamp pins
- Multiple test clamp sizes are available
- Number & size of test clamps will be determined by the range of core sizes & material to be tested
- For integration into a production line, a test clamp may be rear mounted and a weigh scale added.
- Cores are degaussed
- Test certificate (adhesive label) printed
- Test data is archived

www.aemcores.com.au

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AEM TCT150 Transformer Core Tester

Bench for version without conveyor line integration.

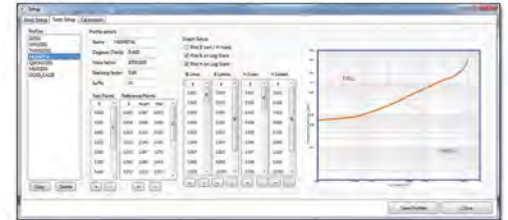
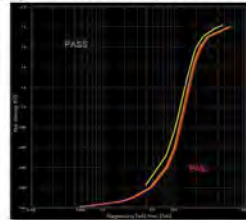
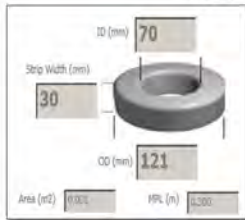
For integration into a production line,
a test clamp may be rear mounted.



Clamp sizes will be determined by
core sizes and materials to be tested.



User friendly software interfaces



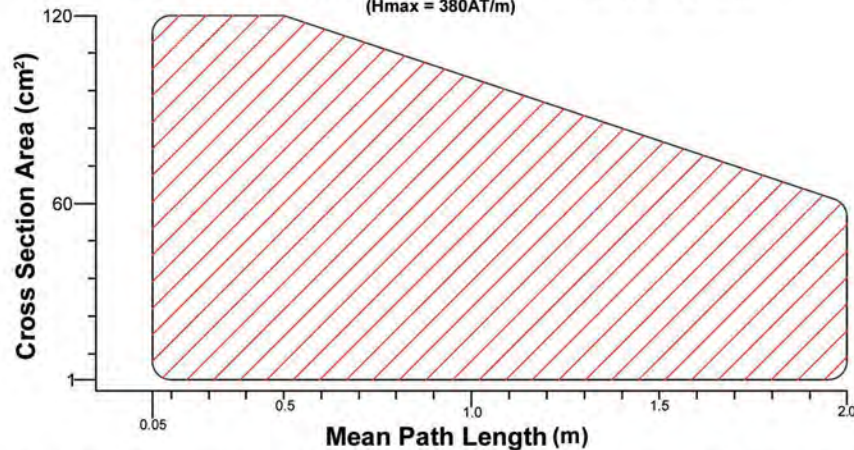
TCT150 Testing Capability Example:

For toroidal cores subjected to a sinusoidal test frequency of 50 Hz, using JFE 27RGH100D material at or below 1.8T, the maximum magnetising force test bounds are defined as follows:

- a) Maximum Magnetising Force $H = 300\text{AT/m}$
- b) Maximum Mean Path Length = 2.0m, or
- c) Maximum Cross Section area allowable to reach 1.8T is 120cm

Refer to the graph below for boundary conditions.

Typical TCT150 Toroidal Core Testing Range
Maximum core cross sectional area = 120cm² OR Maximum core MPL = 2.0m
(Hmax = 380AT/m)



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