

Motorised Aperture Holder

Deben can now offer a motorised aperture drive for many SEM columns including JEOL JSM-5400 & 5600, JSM5800 & 5900 JSM-840 & 6300, JXA-8600 and JXA-8900. The motorised unit completely replaces the existing final aperture assembly.

The system comprises, a precision motorised mechanical assembly, drive electronics and keypad controller, or accessory panel which can be fitted to the SEM console. Upto five aperture positions can be selected using push buttons, the centre position of the aperture may be adjusted using arrow buttons. Aperture positions are stored in non-volatile memory so that when selecting a new aperture, re-centering is not necessary. Total movement is 10mmx1mm with position reproducibility better than 3µm. Motorised aperture drives may be supplied for any JEOL column with a side entry aperture holder. An RS-232 interface is incorporated for remote operation. Aperture selection may then be controlled from a microscope computer control program, removing the need for an accessory panel or keypad. Applications include hot cell construction and remote operation (internet microscope).



Aperture drive for JXA-8600 / JXA-8900



Aperture drive keypad



Accessory panel & aperture drive assembly for JSM-5410 column

SPECIFICATIONS & FEATURES

- Two axis motorised operation
- Replaces existing manual aperture assembly
- Precision mechanical assembly
- Compact drive unit
- RS-232 interface for computer control (optional)
- Aperture selection display
- Precision DC gear motors with optical encoders
- Keypad or accessory panel operation
- Five position aperture selection
- Position repeatability better than 3µ

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