

BRAKING SOLUTIONS

MAMMOGRAPHY MACHINES

PROBLEM

A major global manufacturer of mammography systems contacted Warner Electric for braking solutions it needed for various applications within its machines. All the brakes required reliable holding performance throughout the machine to ensure accurate mammography imaging.

SOLUTION

Warner engineers worked closely with the OEM's engineering team to identify and confirm the torque requirements and space limitations of each different brake application within the machine.

Based on the detailed analysis, three 4PMB-055 permanent magnet brakes, with a static torque rating of 708 lb.in. (80 Nm), function as holding brakes on the machine's main x-ray tube.

A PB-250 flange mounted, power-on brake with a static torque rating of 70 lb.in. (7.9 Nm) was utilized as a holding brake on the machine's compression section that holds and compresses the breast in different positions so images can be captured at various angles.

Model FB17 electromagnetic flange mounted, power-on brakes with a static torque rating of 15 lb.in. (1.69 Nm) were also supplied for use in the compression section.



HIGHLIGHTS

4PMB-055 Permanent Magnet Brakes

- Electrically released brakes with a static torque rating of 708 lb.in. (80 Nm)

PB-250 Brakes

- Flange mounted, power-on brakes with a static torque rating of 70 lb.in. (7.9 Nm)

FB17 Electromagnetic Friction Brakes

- Flange mounted, power-on brakes with a static torque rating of 15 lb.in. (1.69 Nm)

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