

Medical solutions

Blood pumps, respiratory equipments,
radiology tables, motorized beds...



Parker has developed a complete range of motor solutions designed to address the needs of medical equipment manufacturers in numerous applications such as blood pumps, respiratory equipment, radiology tables and motorized beds. Parker's know-how and technical expertise enable it to deliver solutions that meet the exacting quality, reliability and security constraints of its customers.

Close cooperation and long term commitments with various major equipment builders over many years has enabled Parker to develop and maintain its reputation as a developer of cutting edge solutions for the Life Sciences and Medical Technologies markets.

As a result Parker is able to develop new customized solutions for specific equipment manufacturers, as well as offering a wide range of standard motor products.



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Benefits:

- Compact footprint
- Low voltage applications
- Silent and vibration free operation
- High dynamic characteristics
- Low EMC emissions
- Exceptionally smooth operation at low speeds
- Extended service life
- Cost-effective
- Customized solutions



ENGINEERING YOUR SUCCESS.

Benefits

Cost-effective

Offering low EMC emissions without the need for additional filters, DC servomotor control causes minimal electrical disturbance of sensitive medical equipment. It is also possible to build the DC drive into the machine control removing the need for a separate drive. Additionally, these servomotors enable speed control to be achieved without using expensive feedback sensors.

Smooth and silent operation

The low cogging level of DC servomotors is ideally suited radiology tables where precise

positioning and low speed operation are required. The disk rotor achieves high dynamic, silent and vibration free operation.

Extended service life

The maintenance free AXEM motor comprises a rotor made solely of copper and insulating materials making it a robust and efficient solution for the medical industry. This design of rotor helps increase the service life of the motor and extend the life of your equipment.

Compact footprint

The high power density of the

entire DC servomotor range is particularly well suited to applications requiring very compact motor solutions.

Customization

Parker can customize any of the standard DC servomotor products such as:

- Mechanical adaptation: shaft, flange, housing
- Electrical adaptation: speed, torque, voltage
- Sensor mounting: incremental encoder, hall effect sensor, tachometer
- Motor accessories: gearbox, cables, connectors

Applications

Applications	Requirements	
Blood pumps, respiratory equipment...	High reliability and accuracy	✓
	Very long service life (AXEM)	✓
	Compact footprint	✓
	Smooth and silent operation	✓
	Highly customizable	✓
Radiology tables, motorized beds...	Low voltage	✓
	Compact footprint	✓
	Smooth and silent operation	✓
	Highly customizable	✓
Radiologic environment	Low EMC emission	✓
	Low voltage	✓
	Compact footprint	✓
	Smooth and silent operation	✓
	Highly customizable	✓



DC servomotors range

Servomotors	Torque	Speed	Main characteristic
AXEM series	0.1 to 20 Nm	up to 4800 rpm	pancake motors
RX series	0.3 to 8 Nm	up to 3000 rpm	low cost
RS series	0.05 to 13 Nm	up to 3000 rpm	high dynamic

