



MICRON® planetary gearheads from Thomson® are helping modern diagnostic systems to become more powerful and precise

Medical equipment is a fast-developing and competitive market, with OEMs seeking cost and technical advantage over their competitors. Combined with changing regulations and new opportunities, this is driving innovation and performance in motion control for handling patients devices, such as **wheelchairs, operating tables, bath lifts, and dentist's chairs**, as well as complex diagnostic systems like **cardiac scanners** and the **computed tomography scanners**.

These highly developed precision devices set very high requirements for the motion components within them. In particular, the movement of the patient in relation to the scanning units must be both **smooth and precise** - the faster the rotation and, by implication, the scanning speed, the more precise this needs to be.



Advances in mechanical components, like Thomson's Micron True planetary gearheads, are helping modern diagnostic systems to become more powerful and precise, as well as being kinder to patients.

Read more in this issue of "MED engineering" >

MICRON Motioneering: Sizing and Selection >

+ education/events



NEW: Thomson Tech Tips Video

Increasing Actuator Rigidity

Certain applications require high rigidity from an electric linear actuator. "Linear actuators are designed to handle loads axially," says Chad Carlberg, Product Line Specialist for Linear Actuators at Thomson.

Chad explains, "One of the most common failure modes of linear actuators is side loading. Although these units are not designed to handle a side load or extreme shock load, there are ways to improve rigidity of your linear actuator design."

Learn how to increase actuator rigidity:

[Watch the video now >](#)

[+ applications/tools/products](#)

Motorized Lead Screw Performance Plot Generator

MLS Configuration

Motor	1000 W	Motor Type	1000 W
Lead Screw	10 mm	Lead Screw	10 mm
Nut	10 mm	Nut	10 mm

MLS Performance

Graph showing Load (N) vs. Linear Speed (mm/s). Legend: Not Max Load, Motor Max Load, Recommended Load Limit, Calculation Load Limit, Critical Shaft Speed.

Easy to Use Performance Plot Generator

Use Thomson's Motorized Lead Screw Performance Plot Generator to configure a valid product code and generate the Load/Speed curves necessary to verify that the selected product meets or exceeds the application requirements.

This online tool is used to verify that the application specifications of load and speed are within the rated motor torque, lead nut PV value, motor bearing axial capacity, and the static capacity of the lead nut.

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