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Thomson technology helps machine builder reduce CNC system costs by 90%



Autoscale's CNC technology (inset), which cuts objects up to 5 meters long, benefits from Thomson linear components, including precision ball screws and a profile rail that proved to be the only one long enough to meet their system requirements.

A recent *Manufacturing Automation* article details how Silicon Valley-based Autoscale was able to revolutionize its cutting-edge CNC technology and reduce costs by about 90% thanks in part to Thomson linear motion components.

For cutting light-grade materials to produce large objects such as auto body prototypes, Autoscale's redesigned CNC system used gantries that benefitted from Thomson products, including:

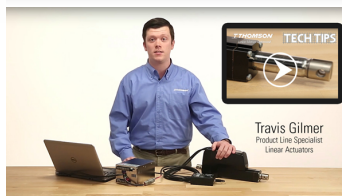
- Ball Screw Assemblies.
- Profile Rail Linear Guides.
- Super Ball Bushing Bearings.
- RoundRail Linear Bearings.

These components not only allowed gantries to move smoothly and accurately but helped Autoscale cut down on system weight and production costs.

[Size and select Thomson linear components >](#)

[Read the article >](#)

+ education/events



New Tech Tips videos help solve common linear actuator and ball screw issues

Thomson "Tech Tips" videos support design engineers who may face potential mishaps or simply want to ensure proper operation of their linear motion control components. We recently added 21 new videos that deal specifically with industrial linear actuators and ball screws. Titles include:

- Defining Duty Cycle.
- How to Install Electrak HD's Integrated Connector.
- How to Vary the Speed of a Linear Actuator.
- Anti-Rotation and its Usefulness.



- Relationship between Load, Speed and Current Draw.
- How to Load Ball Bearings into a Ball Nut.
- Many more.

[Watch the Tech Tips videos >](#)

+ applications/tools/products



More than 50 years of high-quality, engineered Thomson ball screws in Europe

Thomson ball screws combine the precision of German engineering and manufacturing with a broad offering of rolled, whirled and ground sizes and almost 200 varieties of standard nuts on stock. Our in-house engineers design custom screws to suit your specific application. Other ball screw benefits include:

- German-engineered Precision Screw Forming (PSF) technology provides high accuracy of 23 microns/3000 mm standard.
- Flexible ball nut mounting configurations and rapid prototyping.
- Higher load capacity equates to longer life.
- Ideal for machine tools, factory automation, medical, aircraft and vehicle applications.

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