

# ACTUATION SYSTEMS FOR WHEELCHAIRS

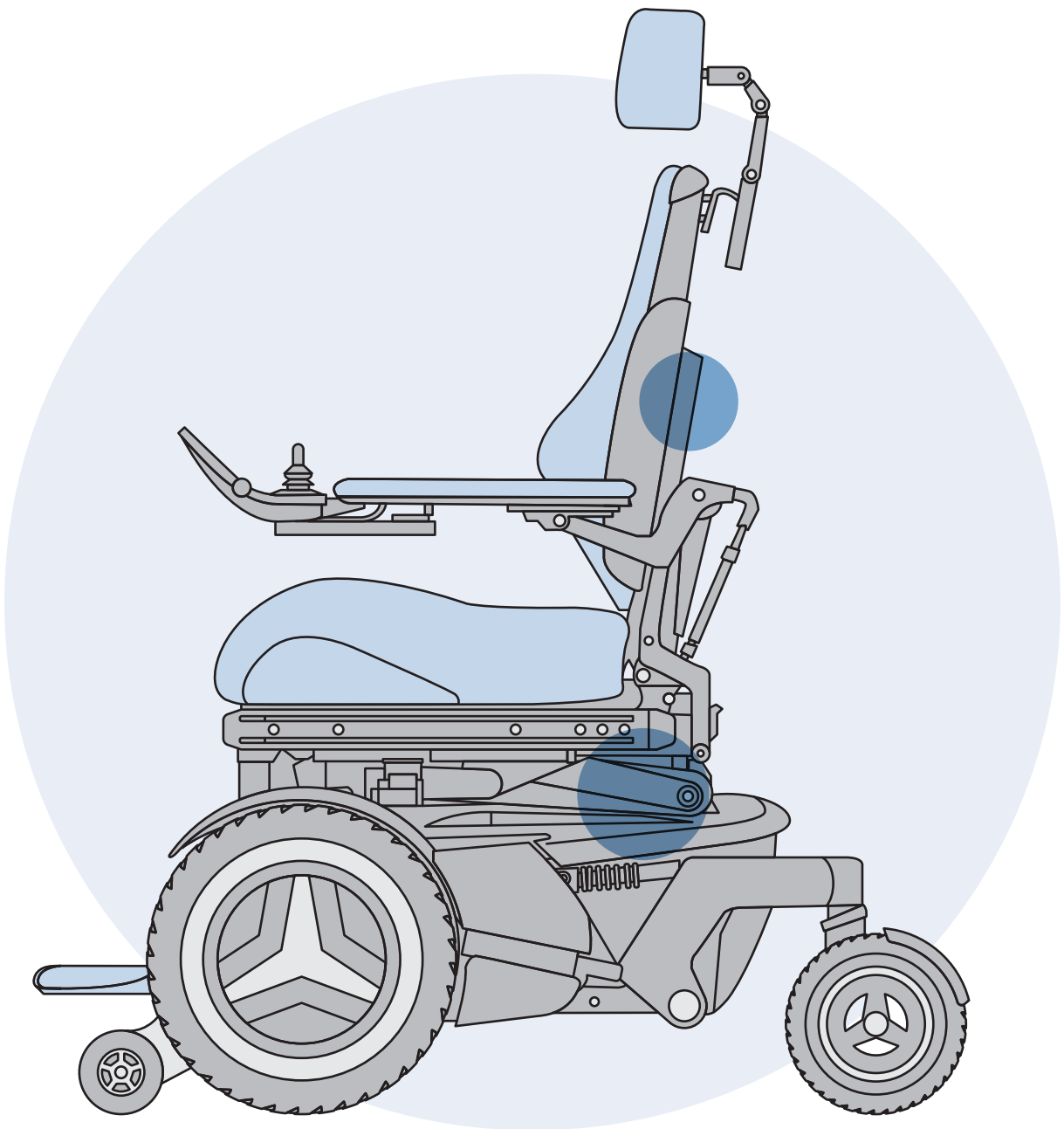
TiMOTION offers a complete solution that is reliable, quiet, and easy to integrate into wheelchairs.

[www.timotion.com](http://www.timotion.com)



# The Integration of Electric Linear Actuation In Wheelchairs.

Electric actuators introduce a level of precision and adaptability that traditional wheelchair mechanisms struggle to achieve. These systems enable smooth and precise adjustments, allowing users to tailor their wheelchair positions with unparalleled accuracy. TiMOTION designed total solutions of electric linear actuator systems for different types of wheelchairs to give patients more options for comfort.



# Linear Actuators



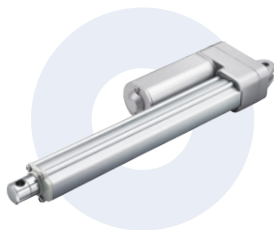
## JP3

**Max. load**  
2,000N (push)  
**Max. speed at max. load**  
3.5mm/s  
**Retracted length**  
≥ Stroke + 217mm  
**IP rating**  
IP69K



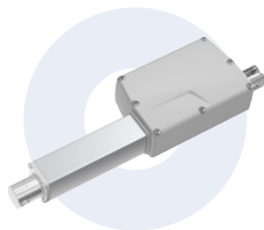
## JP4

**Max. load**  
4,500N (push)  
**Max. speed at max. load**  
2.5mm/s  
**Retracted length**  
≥ Stroke + 289mm  
**IP rating**  
IP69K



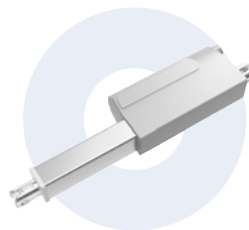
## TA16

**Max. load**  
4,500N (push)  
**Max. speed at max. load**  
4.9mm/s  
**Retracted length**  
≥ Stroke + 112mm  
**IP rating**  
IP66M



## TA29

**Max. load**  
6,000N (push)  
**Max. speed at max. load**  
3mm/s  
**Retracted length**  
≥ 178mm\*  
**IP rating**  
IP66W  
\* Depending on chosen options



## TA38M

**Max. load**  
2,000N (push)  
**Max. speed at max. load**  
6.2mm/s  
**Retracted length**  
≥ 160mm\*  
**IP rating**  
IP66  
\* Depending on chosen options

# Control Box & Accessories



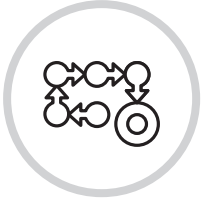
## TC14

The actuators can be operated synchronously with the TC14 for simple control.



## TBB7

**Backup battery**  
It is highly recommended to keep the actuation system up and running.



## Vertical Integration

**Design → Components → Final Assembly → Quality Control → After-sale Service**

TiMOTION operates under a vertically integrated business model, which gives total control to offer the highest possible quality standards. While competing products are limited in design and integration features, TiMOTION specializes in complete customizable solutions based on the needs of the individual customer.



## Customization

With a vertically integrated business model, TiMOTION offers total solutions that are high quality and highly customizable to meet various needs of software, hardware, or user interface.



## Global service office

TiMOTION has seven corporate offices and numerous sales agents, making TiMOTION well-positioned to provide global engineering and sales support.

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