

ACTUATION SYSTEMS FOR DENTAL DEVICES

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

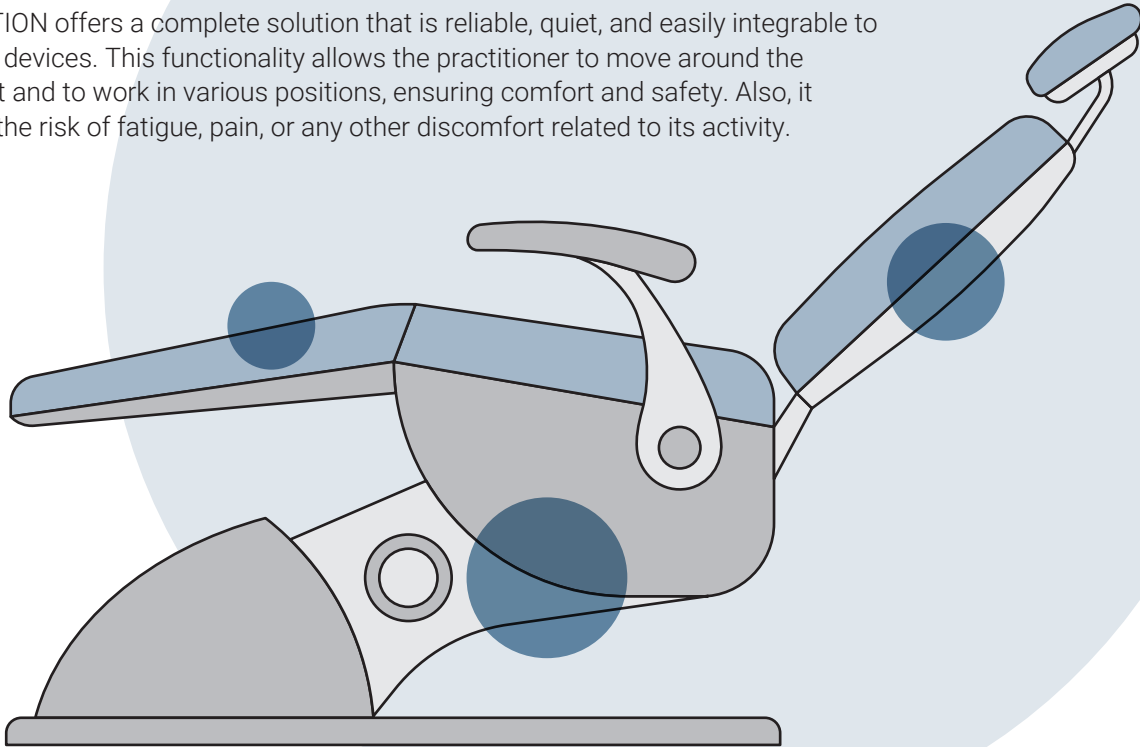
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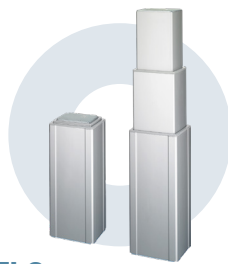
Complete Solution for Dental Devices

The dental chair is a piece of medical equipment used for oral surgery, disease examination, and treatment. Ergonomic and adjustable dental chairs are essential to meet the rising demand for care. Actuators are the core technology of this electrical product, which can make the patient feel comfortable when they are lying on this chair. It's also for the dentist to be able to perform proper treatment. The mobility of the dental chair involves several elements - height, inclination, and position of headrest - and requires the operation of different electric actuators that must operate fluidly, quietly, and synchronized.

TiMOTION offers a complete solution that is reliable, quiet, and easily integrable to dental devices. This functionality allows the practitioner to move around the patient and to work in various positions, ensuring comfort and safety. Also, it limits the risk of fatigue, pain, or any other discomfort related to its activity.



Lifting Columns



TL3

Max. load

4,000N (push)

Self-locking force

4,000N

Max. dynamic bending moment

1,000Nm

Max. speed at no load

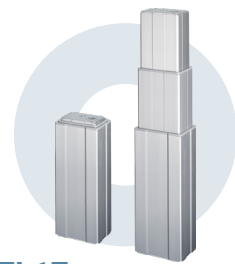
39mm/s

Max. speed at max. load

13.7mm/s

Retracted length

$\geq \text{Stroke}/2 + 150\text{mm}$



TL17

Max. load

2,000N (push)

Max. dynamic bending moment

250Nm

Max. speed at no load

41mm/s

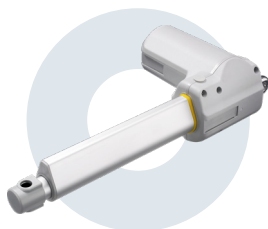
Max. speed at max. load

11.5mm/s

Retracted length

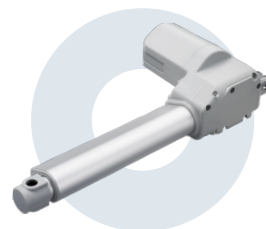
$\geq \text{Stroke}/2 + 150\text{mm}$

Linear Actuators



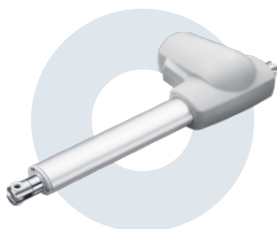
TA1

Max. load
10,000N (push) / 4,000N (pull)
Max. speed at no load
39mm/s
Max. speed at max. load
3.2mm/s
Retracted length
≥ Stroke + 163mm
IP rating
IP66W



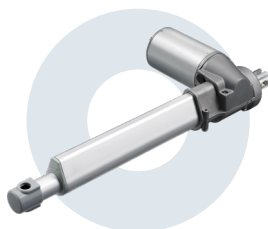
TA7

Max. load
10,000N (push) / 4,000N (pull)
Max. speed at no load
39mm/s
Max. speed at max. load
3.2mm/s
Retracted length
≥ Stroke + 171mm
IP rating
IP66W



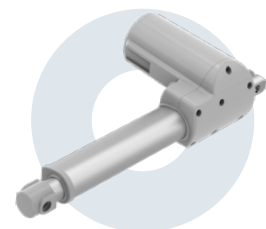
TA12

Max. load
12,000N (push) / 6,000N (pull)
Max. speed at no load
57.3mm/s
Max. speed at max. load
4mm/s
Retracted length
≥ Stroke + 210mm
IP rating
IP66W



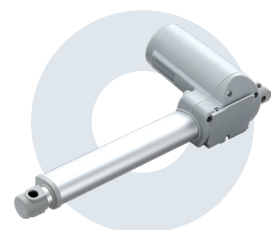
TA13

Max. load
10,000N (push) / 5,500N (pull)
Max. speed at no load
49.4mm/s
Max. speed at max. load
4.5mm/s
Retracted length
≥ Stroke + 180mm



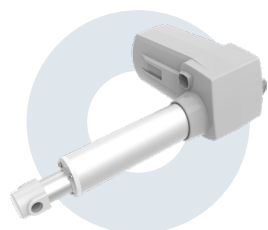
TA23

Max. load
10,000N (push) / 4,000N (pull)
Max. speed at no load
39mm/s
Max. speed at max. load
3.2mm/s
Retracted length
≥ Stroke + 163mm
IP rating
IP66W



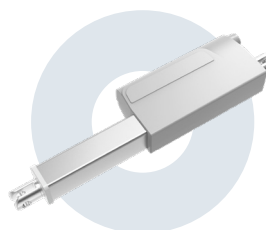
TA31

Max. load
8,000N (push) / 3,000N (pull)
Max. speed at no load
26.6mm/s
Max. speed at max. load
3.5mm/s
Retracted length
≥ Stroke + 157mm
IP rating
IP66W



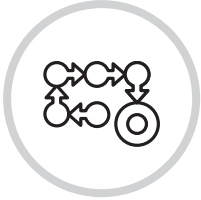
TA37

Max. load
12,000N (push)
Max. speed at no load
31.1mm/s
Max. speed at max. load
5.3mm/s
Retracted length
≥ Stroke + 170mm
IP rating
IP66W



TA38M

Max. load
2,000N (push) / 1,500N (pull)
Max. speed at no load
20mm/s
Max. speed at max. load
6.2mm/s
Retracted length
≥ 160mm
(depending on chosen options)
IP rating
IP66



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 the various needs of software, hardware, or user interfaces.



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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