

ACTUATION SYSTEMS FOR DENTAL DEVICES

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

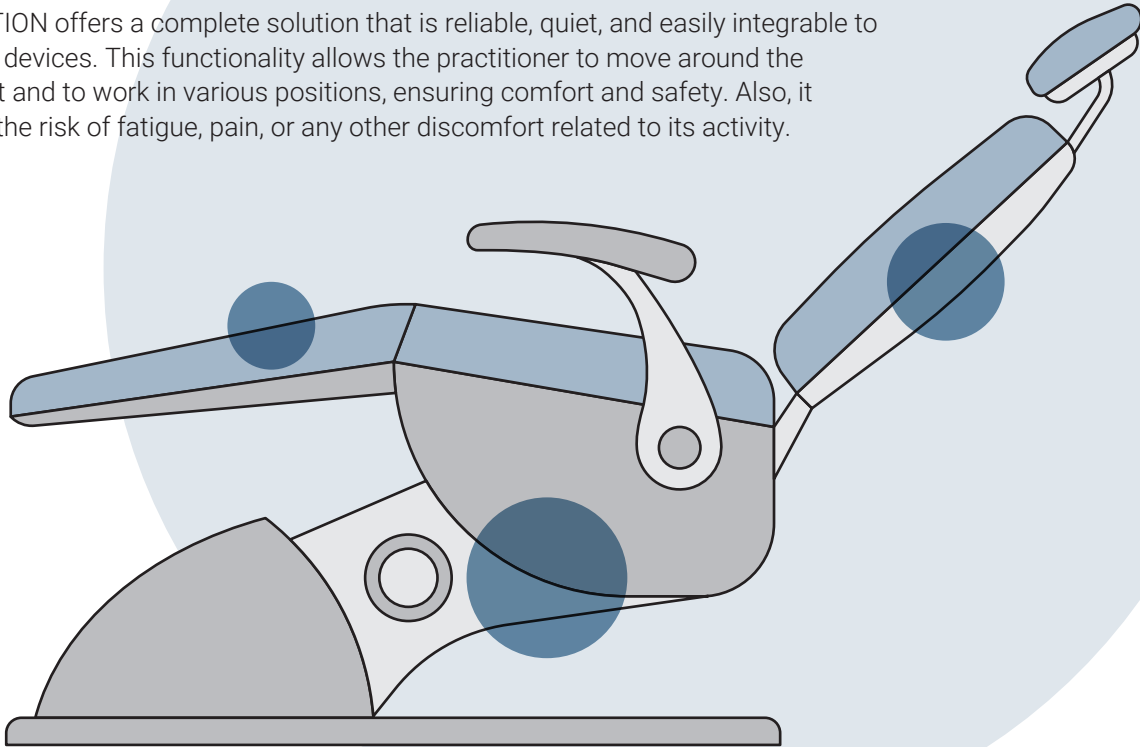
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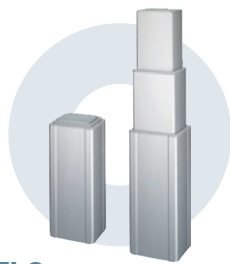
Complete Solution for Dental Devices

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



TA12

Max. load

12,000N (push) / 6,000N (pull)

Max. speed at no load

57.3mm/s

Max. speed at max. load

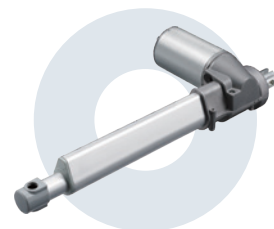
4mm/s

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

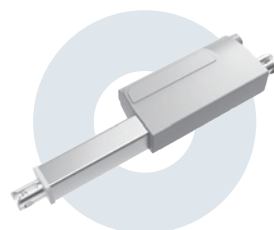
5.3mm/s

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

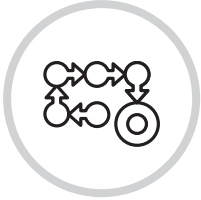
Retracted length

≥ 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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