

TWINDRIVE™ TD1

Features:

- Angle footrest $45^{\circ} \pm 3^{\circ}$
- Angle headrest $68^{\circ} \pm 3^{\circ}$
- Compatible with HB10 and HB20
- EOP in TD1 280 version
- Toroidal Transformer in TD1 280 and EI core Transformer in TD1 220
- Duty cycle: 10% ~ 6 min. per hour max. 2 min. continuous use followed by 18 min. not in use
- Max. speed: 0.58 RPM with max. torque
- Installation dimension: 796 mm length x 90 mm height x 90 mm width. Installation dimension on the shaft 581 ± 1 mm
- Colour: Grey plastic on motor housing RAL 7035, closing device Grey RAL 7016
- Ambient temperature: $+5^{\circ}\text{C}$ to $+40^{\circ}\text{C}$
- Storage and transport temperature: -10°C to $+70^{\circ}\text{C}$
- Approved according to EN 60335-1
- EMC according to EN55014 -1 / EN55014 - 2
- Low built-in height
- Low noise level

Options:

- Emergency lowering (2 x 9V batteries)
- External Mains cut-off
- Internal mains cut off (only TD1 220)
- 1 extra channels for an extra motor (analogue systems)
- Up to 2 extra channels for extra motors (only TD1 280 with memory and Infrared)
- Memory (only TD1 280)
- Memory and Infrared (only TD1 280)
- Black

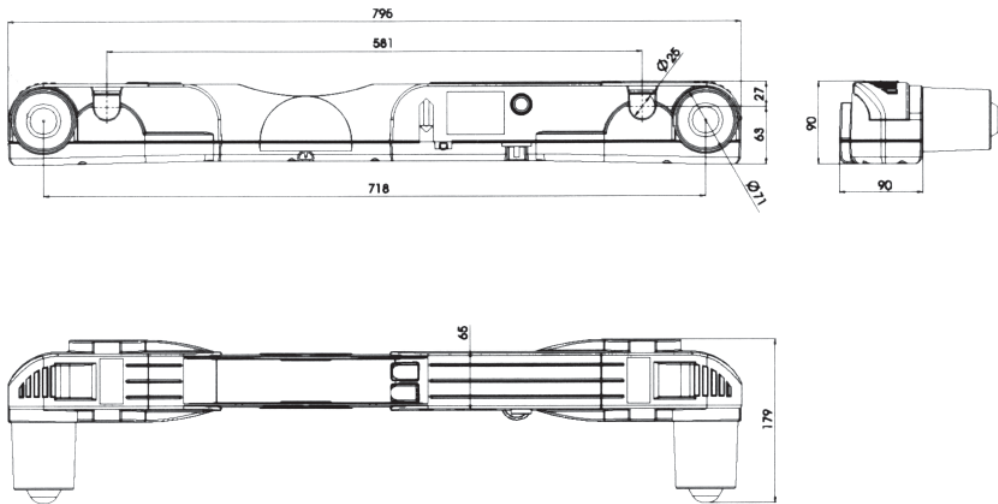


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IMPROVING COMFORT

The TWINDRIVE™ TD1 is a completely new product, which is part of the Comfort furniture group and has been produced to supply the growing demands for motorised systems in the leisure bed area.

TD1 is characterised by the very low built in height, which makes it unique in this market and gives much more free height under the bed than previous systems for e.g. storage or easy cleaning access.

Dimension (mm):



Compatible actuators:

Actuators that are compatible with TD1:



LA27



LA31



LA31 with fast motor cannot be used in combination with TD1

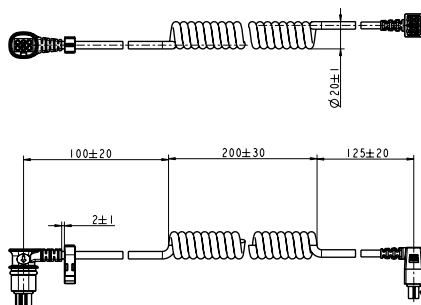


Always choose LA27 and LA31 without brake otherwise there will not be enough power in the 2 x 9 Volt batteries for emergency lowering. In some cases where a standard HB is to run head, foot motor and the external actuator simultaneous down it can happen that the actuator will not start if a brake is mounted. In the TD1 280 system with memory and infrared the current cut-off down is not sufficient to start up the extra actuator if a brake is chosen.

Cable for LA27

The cable used together with LA27 has to be ordered separately:

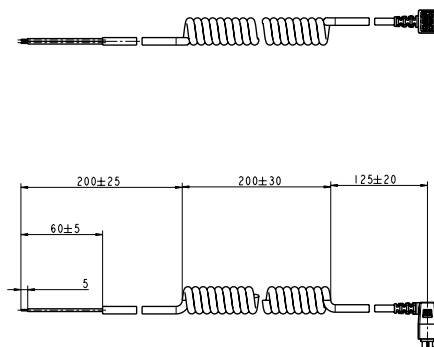
LA27
(0705816)



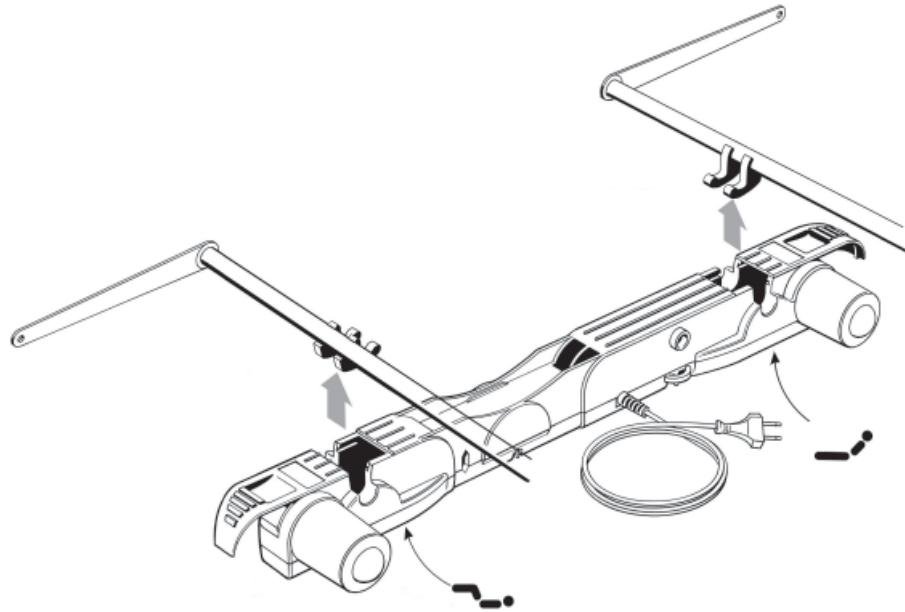
Cable for LA31

The cable used in combination with LA31 is not possible to choose in the respectable ordering examples for the actuator. To avoid any confusion write X when stating the cable and specify the cable as 0705825.

LA31
(0705825)



Mounting instructions:



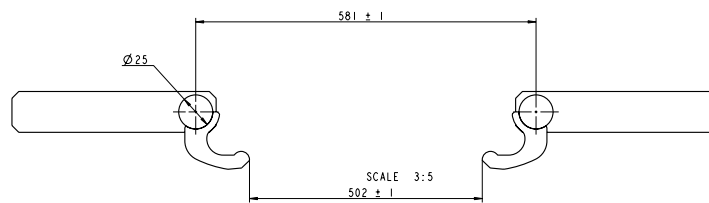
Mounting instructions for TWINDRIVE™:

Before mounting, both mounting brackets must be pulled out to their outer position by pushing them back. This gives freedom of movement to the bed bracket.

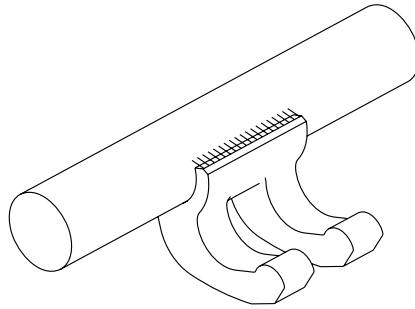
Mounting is done by pushing the bed bracket into the TD1 unit and thereafter pushing the mounting brackets back again. IMPORTANT one must be completely sure that the mounting brackets are in place before TD1 is used.

If the TD1 unit is mounted in the bed it will not be able to fall out if it is under load because the spindle nut is designed to hold it in place.

Dimensions axle distance:



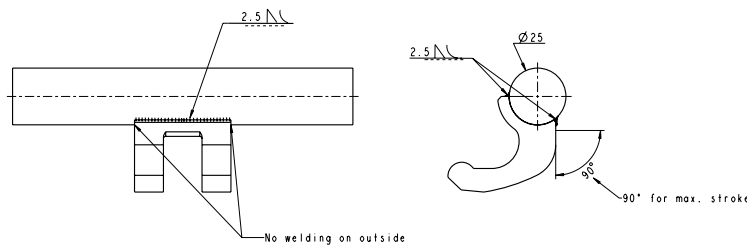
Mounting instructions (welding):



For the TD1 it is important that one does not weld on the outside of the Twist Bracket because there is not room for a welding seam in the motor housing. One may weld the bracket along the whole length of its ends.

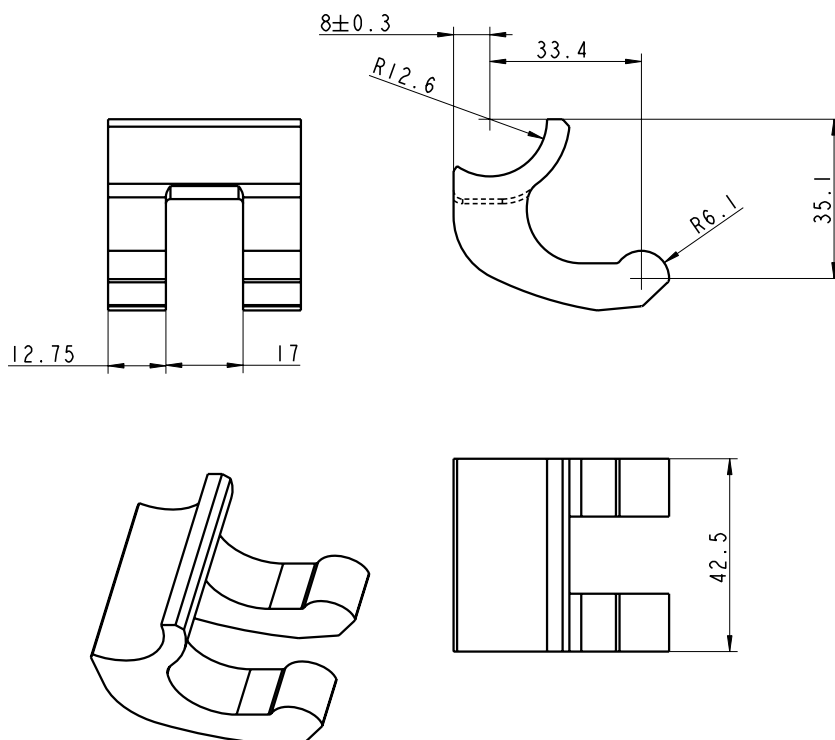
Welding diagram:

To maintain the correct angle of rotation of the head rest and the foot rest it is important that the Twist bracket is welded according to the above instructions. Non compliance with the instructions could lead to a smaller angle of rotation or in a worst case damage to TD1.



Dimensions drawing of the twist bracket:

LINAK part number 0701030

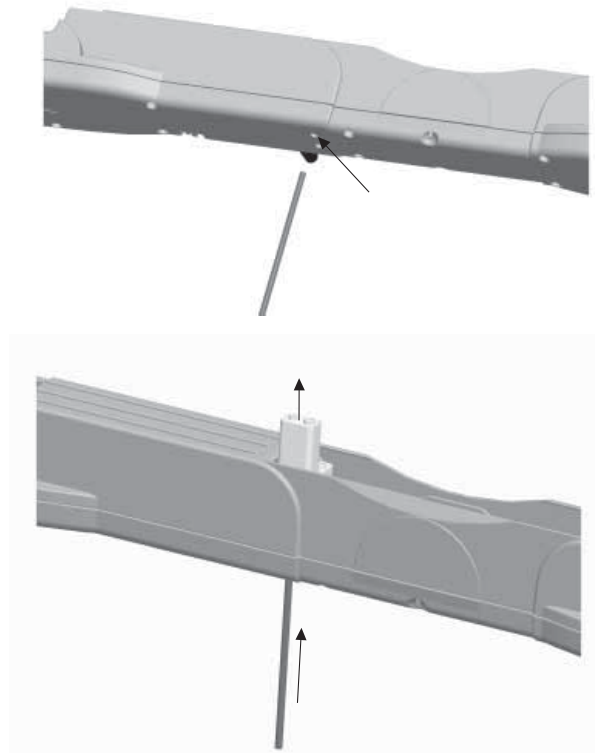


Initialisation of the TD1 memory and infrared system.



To ensure optimum drive of the systems with memory, infrared and extra channels must be run out to the outward position and in again before use. This drive (out + in) must be done without stops.

Removal / fitting of the 9V batteries:



Changing of the 9V batteries is possible by pushing the batteries upwards via the two holes in the bottom of the unit. It is necessary to use a blunt instrument with a diameter of $\varnothing 6$ mm. When the batteries are visible from above they can be removed by using fingers.

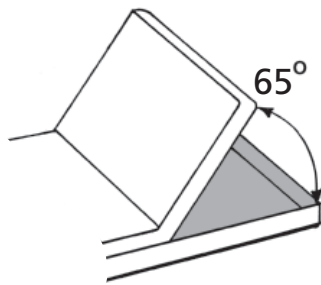
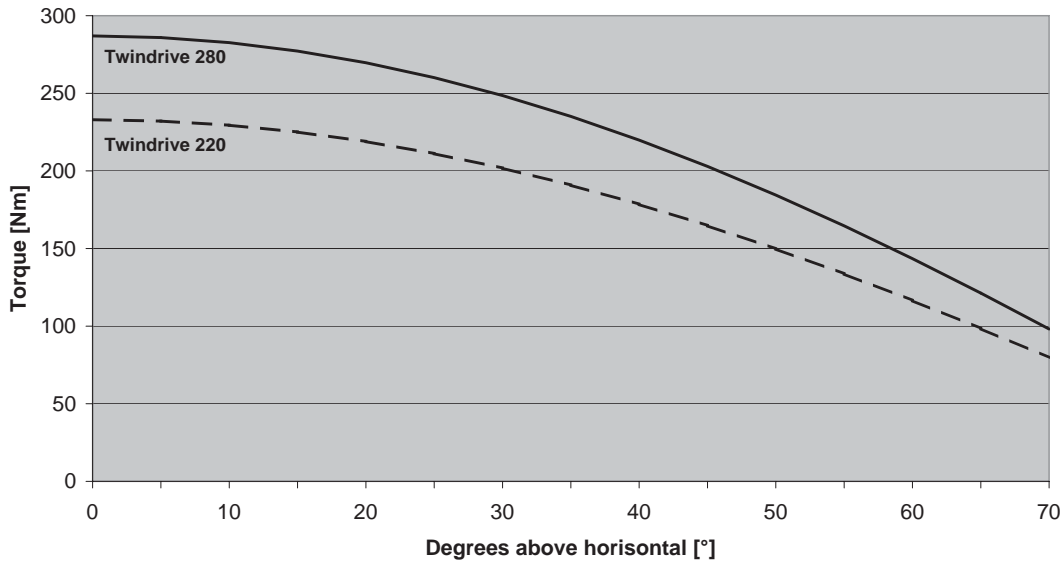
Important, before removal remove the battery clips. Fitting is done by pushing the batteries into the holes remembering that the clips must be uppermost and that they are first connected when the batteries are in place.

If the battery option is chosen the system will be able to be lowered into the reset position by using the reset button on the handset during power failure.

This function is only available for the head and foot rest and only when the emergency lowering function is an available option.

Speed diagram:

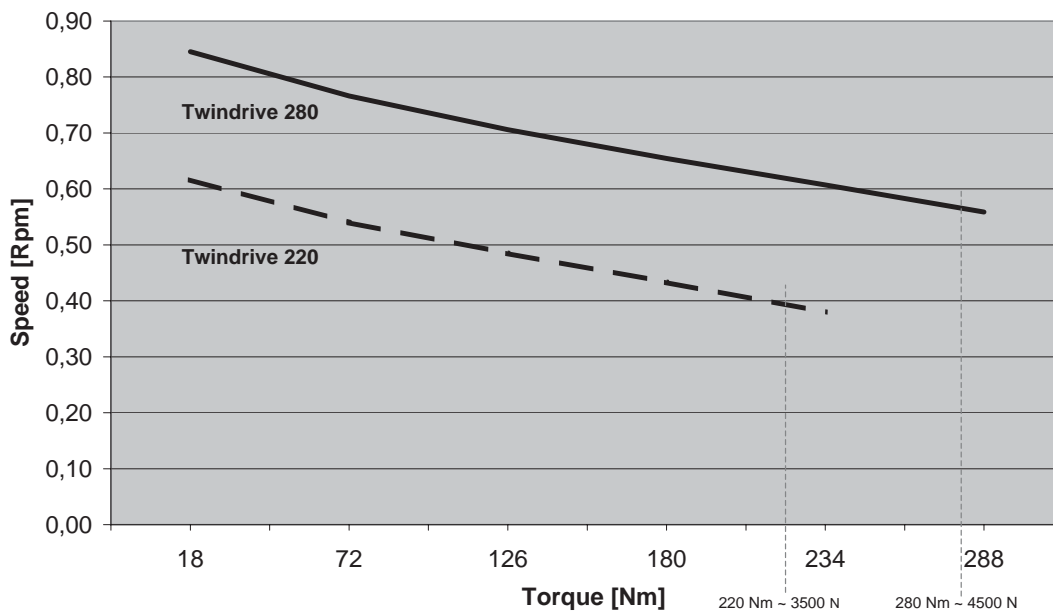
**Torque on testrig for Twindrive
220 Nm / 280 Nm**



Maximum torque occurs with a non-linear load as prevails under use in a leisure bed. That is to say large torque during start, which lessens as the backrest is raised. This is also how the TD1 has been tested.

Speed curve for the TD1 analogue versions:

TWINDRIVE 1 - Speed



Technical specifications:

Type	Spindle pitch (mm)	Torsion max. (Nm)	Speed at full load (Rpm)	Duty cycle (%)
TD1 220	2.5	220	0,43	10
TD1 280	2.5	280	0,56	10

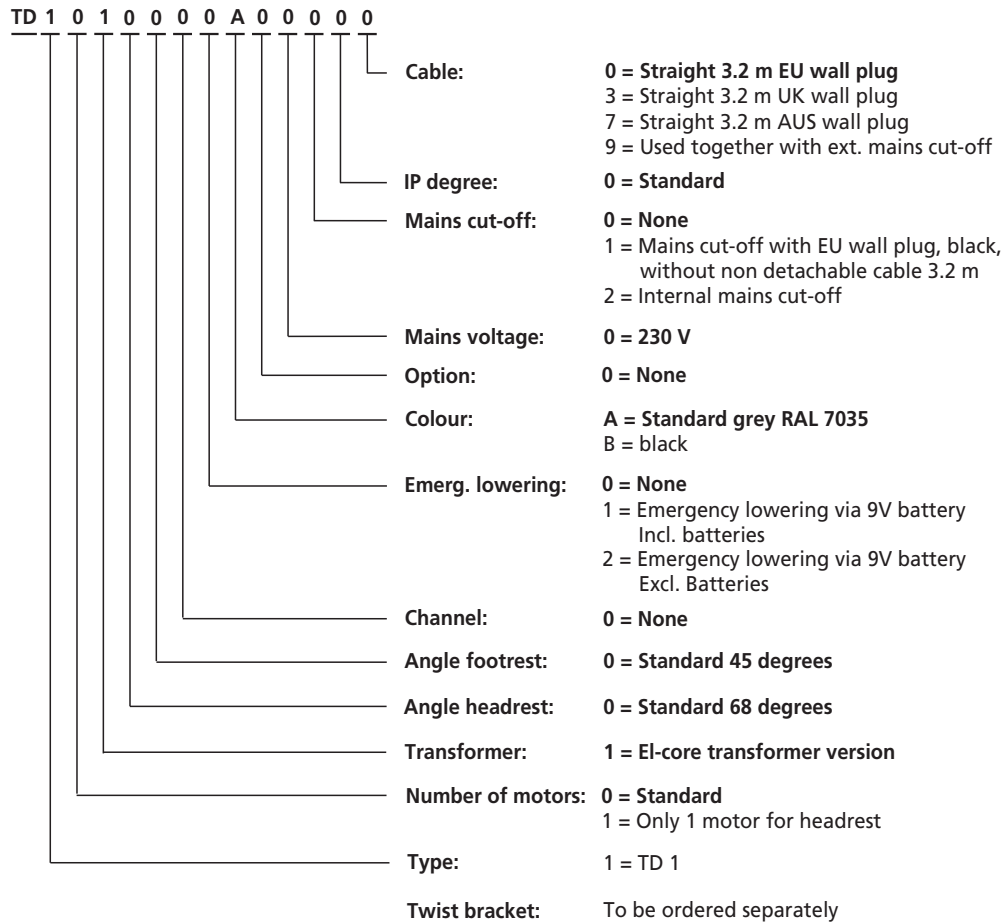
The above measurements are made in connection with internal control box and are average values.

Compability with standard handsets:

	HB10	HB20	HB20	HB20
		Analogue "00"	Memory "B1"	Memory "C1"
			Receiver	Transmitter
TD1 220	yes	Yes	no	no
TD1 280	yes	yes	yes	yes

TWINDRIVE™ TD1 220:

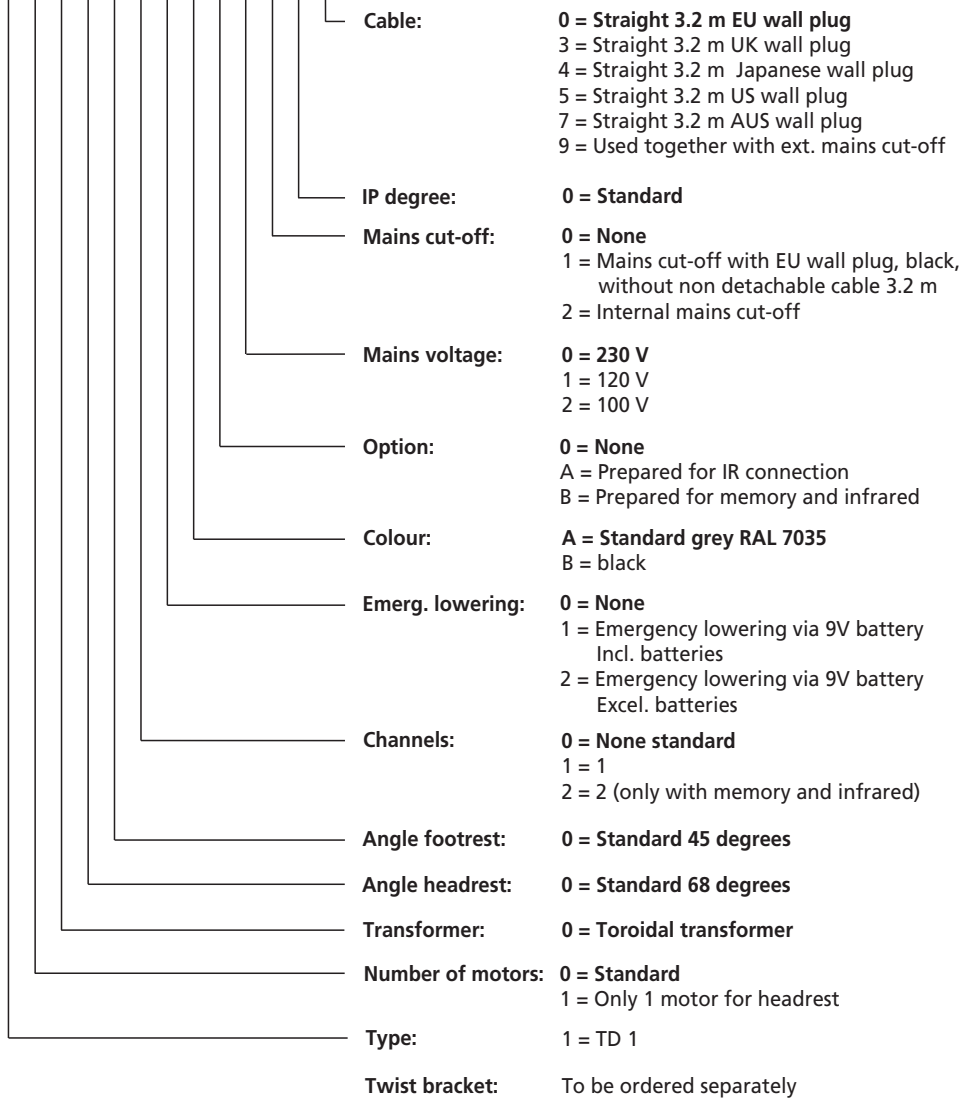
Ordering example:



TWINDRIVE™ TD1 280:

Ordering example:

TD 1 0 0 0 0 0 0 A 0 0 0 0 0



Specifications subject to change without prior notice.
It is the responsibility of the product user to determine the suitability of LINAK A/S products for a specific application. LINAK will at point of delivery replace/repair defective products covered by the warranty if promptly returned to the factory. No liability is assumed beyond such replacement/repair.