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Dear User,

We are delighted that you have chosen a product from LINAK®.
LINAK systems are high-tech products based on many years of experience in the manufacture and development
of actuators, electric control boxes, controls and chargers.

This User Manual does not address the end-user. It is intended as a source of information for the manufacturer
of the equipment or system only, and it will tell you how to install, use and maintain your LINAK electronics. It
is the responsibility of the manufacturer of the end-use product to provide a User Manual where relevant safety
information from this manual is passed on to the end-user.

We are sure that your LINAK product/system will give you many years of problem-free operation.
Before our products leave the factory they undergo full function and quality testing. Should you nevertheless
experience problems with your LINAK product/system, you are always welcome to contact your local dealer.
LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are
always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance
with the specifications, maintenance being done correctly and any repairs being carried out at a service centre,
which is authorised to repair LINAK products.
Changes in installation and use of LINAK products/systems can affect their operation and durability. The
products are not to be opened by unauthorised personnel.

The User Manual has been written based on our present technical knowledge. We are constantly working on
updating the information and we therefore reserve the right to carry out technical modifications.

LINAK A/S
Important information

Important information on LINAK® products can be found under the following headings:

⚠️ **Warning!**
Failure to comply with these instructions may result in accidents involving serious personal injury.

⚠️ Failing to follow these instructions can result in the product being damaged or being destroyed.

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**Safety instruction**

**General**

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the “**NOTE**” symbol may result in serious damage to the system or one of its components.

⚠️ It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.

⚠️ The appliance is not intended for use by young children or infirm persons without supervision.

⚠️ If there is visible damage on the product it must not be installed.

⚠️ Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example squeezing of fingers or arms.

⚠️ Assure free space for movement of the application in both directions to avoid blockade.

⚠️ Only the power supply type SMPS006, shall be used with the system (TD5 Advanced). The power supply shall not be covered while operating to allow sufficient cooling of this appliance.
Furthermore take care about the connecting wires from the power supply to
the TD5 Advanced, don’t damage this by overrun.

⚠️ Assure free space for movement of application in both directions to avoid
blockade.

⚠️ The appliance is only to be used with the power supply unit provided with the
appliance.

### Safety issues

⚠️ The builder of the equipment shall ensure that the use of the component
complies with relevant standards – like the Machine Directive. Care must be
taken to avoid squeezing of cables as it can cause movement of the system!

⚠️ The SMPS006 must not be packed in heat insulating material, but must
be placed so that it can emit waste heat to the surroundings. There are no
ventilation holes to consider, the SMPS emits heat through its surface.

⚠️ Only the power supply type SMPS006, shall be used with the system
(TD5 Advanced).

⚠️ It is possible only to use 1 power supply (SMPS006) for 2 TD5 systems.
Remember speed may decrease when running 2 systems at the same time.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation

- **Statement – for all intentional and unintentional radiators:**
  Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

- **Statement for digital devices for Class B:**
  NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s).

Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

L’émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes :
(1) l’appareil n’ait pas produit de brouillage, et
(2) l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

**Labeling Requirements:**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
Before installation, de-installation or troubleshooting:
• Stop the TD5 Advanced.
• Disconnect the power supply.
• Relieve the TD5 of any loads, which may be released during the work.

Before start-up:
• Make sure that the system has been installed as instructed in this User Manual.
• Make sure that the voltage is correct before the system is connected to the mains. (See TD5 label in the appendix).
• System connection. The individual parts must be connected before connecting to the mains.

During operation:
• If the control box makes unusual noise or smells, switch off the mains voltage immediately.
• Take care that the cables are not damaged.
• Unplug the mains cable on mobile equipment before it is moved.

Misc:
The actuator system has a sound level below 55 dB(A) in typical applications.

Updated manuals and declarations can always be found here:
www.linak.com/HOMELINE

Electromagnetic fields (EMF):
This LINAK appliance complies will all standards regarding electromagnetic fields (EMF). If handled properly and according to instructions in this user manual, the appliance is safe to use based on scientific evidence available today.
**Only for EU markets**

⚠️ This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

⚠️ Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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**Only for Non EU markets**

⚠️ Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

⚠️ Moreover, children must be under surveillance to ensure that they do not play with the product.

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**Misuse**

⚠️ Do not overload the actuators – this can cause danger of personal injury and damage to the system.

⚠️ Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.

⚠️ Do not use the system in environments other than the intended indoor use.
Informations importantes

Les informations importantes sur les produits LINAK® peuvent être trouvées dans les rubriques suivantes:

Attention!
Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.
Ne pas suivre ces instructions peut entraîner l’endommagement ou destruction du produit.

Consignes de sécurité

Général

Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.
Ne pas suivre ces instructions peut entraîner l’endommagement ou destruction du produit.
L’utilisation en toute sécurité du système n’est possible que si l’intégralité des instructions ont été lues et ont été strictement suivies.

Le non respect de se conformer aux instructions marquées du symbole “note” peut entraîner de graves dommages au système ou à un de ses composants.
Il est important pour tout individu qui connecte, installe, ou utilise le système d’avoir les informations nécessaires et l’accès à ce manuel d’utilisation.
Suivez les instructions pour le montage – risque de blessure si ces instructions ne sont pas suivies.
L’appareil n’est pas destiné à être utilisé par des enfants ou des personnes handicapées sans surveillance.
S’il y a des dommages visibles sur le produit, l’installation ne doit pas être effectuée.
Prendre en compte lors de la construction du matériel, dans lequel l’actionneur est incorporé, qu’il ne doit y avoir aucune possibilité de blessures corporelles, telles que la compression des doigts ou des bras.
Assurez un espace libre autour du matériel pour éviter tout blocage.
Avant l’installation, ré-installation ou le dépannage:
• Arrêtez TD5 Advanced
• Retirez la prise du secteur
• Soulagez TD5 Advanced des toutes charges qui pourraient être émises lors de l’utilisation

Avant de démarrage:
• Assurez-vous que le système a été installé comme indiqué dans le manuel d’utilisateur.
• Assurez-vous que la tension du boîtier de contrôle est correcte avant que le système soit connecté sur le secteur.
• Système de connection. Les différentes pièces doivent être connectées entre elles avant que le boîtier de contrôle soit connecté au secteur. Consultez le manuel d’utilisation si nécessaire.

Pendant le fonctionnement:
• Si le boîtier de contrôle émet un bruit ou odeurs inhabituelles, éteignez la tension immédiatement.
• Veuillez à ce que les cables ne soient pas endommagés.
• Débranchez le cable d’alimentation sur l’équipement mobile avant qu’il ne soit déplacé.
• Les produits ne doivent-être utilisés que dans un environement qui correspond à leur IP.

Divers:
Le système d’actionneur présente un niveau sonore inférieur à 55 dB(A) dans des applications typiques.
Les mises à jours des manuels et autres informations peuvent-être trouvées sur www.linak.com/homeline

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Electromagnetic fields (EMF):
This LINAK appliance complies with all standards regarding electromagnetic fields (EMF). If handled properly and according to instructions in this user manual, the appliance is safe to use based on scientific evidence available today.
Seulement pour les marchés au sein de l’UE:

⚠️ Cet appareil peut-être utilisé par des enfants âgés de 8 ans et plus, ainsi que les personnes dont les capacités physiques, sensorielles ou mentales sont réduites ou ayant un manque d’expérience et de connaissance si elles ont bénéficié d’une surveillance ou d’instructions concernant l’utilisation de l’appareil en toute sécurité et compris les risques encourus.

⚠️ Les enfants ne doivent pas jouer avec l’appareil. Le nettoyage et l’entretien ne doivent pas être réalisés par des enfants sans surveillance.

Seulement pour les marchés hors UE:

⚠️ Les personnes qui n’ont pas l’expérience ou les connaissances nécessaires sur le ou les produit(s) ne doivent pas le ou les utiliser. Par ailleurs, les personnes ayant des capacités physiques, sensorielles ou mentales réduites ne doivent pas utiliser le ou les produit(s), sauf si elles sont sous surveillance ou ont suivi une formation approfondie de l’utilisation de l’appareil par l’individu responsable de la sécurité de ces personnes.

⚠️ De plus, les enfants doivent-être sous surveillance afin de s’assurer qu’ils ne jouent pas avec le produit.

Utilisation abusive:

⚠️ Ne surchargez pas les actionneurs – cela peut engendrer un risque de blessures corporelles et endommager le système.

⚠️ Ne pas utiliser les actionneurs pour soulever des personnes. Ne pas s’asseoir ou se tenir debout sur une table en fonctionnement – risque de blessures.

⚠️ Ne pas utiliser le système dans dans des environnements autres que l’utilisation intérieure prévue.
Repairs
In order to avoid the risk of malfunction, all TWINDRIVE® repairs must only be carried out by authorised LINAK workshops or repairers, as special tools must be used and special gaskets must be fitted. TWINDRIVE under warranty must also be returned to authorised LINAK workshops.

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Name and address of the person authorized to compile the relevant technical documentation:
John Kling, Group Headquarters, Guderup, DK-6430 Nordborg, email: j.kl@linak.com

Herewith declares that LINAK Actuators and Actuator Systems comply with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, Essential health and safety requirements relating to the design and construction of machinery:
1.5.1 Electricity supply: Directive 2006/95/EC on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of this Directive, where appropriate.

Date: 2010-01-01
Signature: 

John Kling
Certification and Regulatory Affairs
Misc. on the TWINDRIVE® TD5 Advanced system

This system is a TWINDRIVE system developed for leisure beds and for indoor use in private homes.

Warranty
There is 36 months’ warranty on the TWINDRIVE® products against manufacturing faults calculated from the production date of the individual products (see label). The LINAK® warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the system must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see standard terms of sale and delivery for LINAK A/S.

Maintenance
Clean dust and dirt on the outside of the system at appropriate intervals and inspect them for damage and breaks. Inspect the connections, cables and plugs and check for correct functioning as well as fixing points.

- The cleaners and disinfectants must not be highly alkaline or acidic (pH value 6-8).
- It is not allowed to use solvents for cleaning up.
- Max. load running back and leg end motors at the same time in upward direction is 7000 N on back motor, and 7000 N on leg end motor.

For customers in the US/Canada:
The mains cable for this product has a polarised plug (one blade is wider than the other). It will only fit in a polarised outlet one way. If it does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a proper outlet. Do not change the plug in any way.

Description of the TWINDRIVE® TD5 Advanced system

Each TWINDRIVE® TD5 Advanced unit consists of 2 internal motors and a built-in control box, which makes it a very compact unit. The mains cable is exchangeable. Only the handset must be paired.

Application of the TWINDRIVE® TD5 Advanced system:
Irrespective of the load the Duty cycle: 10 % ~ max. 1 minute at continuous use followed by 9 minutes not in use.

Do not turn on the system if it is not mounted in a bed.

TD5 is a Bluetooth® based system, which means you can use hand controls based on Bluetooth®. LINAK® offers a range of compatible hand controls: HC05BL, HC10BL, HB10BL, HC20BL, HC30BL, and HC40BL. Alternatively, the Bed Control App can be downloaded to use a smartphone as handset.

You can pair eight hand controls to one TD5. You can also pair both hand controls and app controls to the same TD5 Advanced, but only eight controls in total. If you pair more hand controls than the TD5 Advanced can manage, the first paired hand control will be deleted.

This user manual will give you a detailed description on how to pair your hand controls with your TD5 Advanced.
Mounting the TD5 Advanced

Mounting is made by pushing the TD5 unit into the bed bracket and thereafter slide the closing devices on. It is IMPORTANT to be completely sure that the closing devices are in place before using the TD5.

Recommendations
- Cable and controls must be ordered separately
- The shaft diameter must be Ø25.2 (+0.3/-0.2) mm
- Do not look directly into the light under the bed.
- The default timeout for the Under Bed Light is 30 minutes.
- Do not drive the TD5 system without the closing devices mounted
- The bed brackets must have a smooth surface without burs and welding blops in the area where the TD5 is mounted.
- It is important to turn the key in the direction indicated on the housing. Turning the key in the wrong direction can wreck the inner hex and make mechanical emergency lowering impossible.
- Do not use an electric screwdriver for lowering, use the enclosed hex key on the TD5.

1. Push TD5 unit into bed bracket.

2. Slide each closing device on and press it into correct position.

IMPORTANT:
Ensure that the closing devices are in place before using the TD5.

Do not drive the TD5 system without the closing devices mounted.

The bed brackets must have a smooth surface without burs and welding blops in the area where the TD5 is mounted.
**Cable strain relief**

It is important to use the cable relief on the TD5. By using the relief you avoid that the mains cable plug is pulled out of the TD5 resulting in a malfunction.

Depending on the thickness of the cable, you can choose to lead the cable through all 3 or just around the middle relief.
Start-up (How to pair a Bluetooth® connection)

Getting started
It is possible to pair multiple controls to the TD5 via Bluetooth®.

Pairing your control
1. Power up TD5 via SMPS.

2. TD5 is in pairing mode for three minutes and Under Bed Light flashes to indicate this.

3. Press the two top buttons on LINAK® hand control at the same time.

The Under Bed Light gives one long flash to indicate that the hand control and the TD5 are paired up.
The TD5 stays in pairing mode and it is possible to connect more controls using the same procedure.

Note:
Wait 5 seconds after pairing control 1 before you can pair control 2.
To get the system out of pairing mode – simply press any button on an already paired control.

Allow for the hand control to go to power-saving mode (backlight turns off) before disconnecting the actuator system from the mains supply.
Otherwise the pairing will not be saved in the hand control.
Pairing your smartphone or tablet

1. Enable Bluetooth® on smartphone/tablet.
2. Open Bed Control App.
3. Power up TD5 via SMPS.

4. TD5 is in pairing mode for three minutes and Under Bed Light flashes to indicate this.

5. Bed Control App will automatically pair to the closest TD5 in pairing mode. Wait a few seconds to see app confirm completed pairing.

6. Smartphone/tablet and TD5 are now paired up. App will display operation page and bed can now be adjusted through app.

**Note:**
The Bluetooth® pairing mode will stop as soon as the phone is connected. Thus, we recommend to start pairing the hand control and thereafter the phone to avoid having to disconnect the power.
Pairing another device later
It is possible to connect another control or a smartphone/tablet to the TD5 later.
1. Disconnect TD5 from mains.

2. Wait 2 minutes.
3. Reconnect TD5 to mains to get it in pairing mode again.

4. Follow instructions above to pair other devices.

The TD5 will be in pairing mode every time the system has been out of power and connects again. To get the system out of pairing mode — simply press any button on an already paired device.

If you wanted to pair a device, but did not make it in the 3 minutes pairing mode, please disconnect the TD5 from the mains. Connect the TD5 to the mains again — now the TD5 will be in pairing mode for 3 minutes.

How to unpair one TD5
1. Put the TD5 you want to keep paired into pairing mode and pair the hand control.
2. Send a command from the hand control and the pairing mode stops.
3. The connection between the other TD5 and the hand control is now deleted.
**Mechanical emergency lowering**

Emergency lowering is meant for lowering the bed if a power failure occurs and the bed needs to be driven down into horizontal position.

1. Disconnect TD5 from mains.

2. Take hex key on side of TD5.

Underneath the TD5 are two gaps for mechanical lowering.

3. Place hex key in gap, one end at a time, and turn hex key in direction indicated by arrow.

It is important to turn the key in the direction indicated on the housing. Turning the key in the wrong direction can wreck the inner hex and make mechanical emergency lowering impossible.

Do not use an electric screwdriver for lowering, use the hex key enclosed on the TD5.
Parallel drive (only with HC20/HC30)
It is possible to run parallel drive on two TD5 Advanced connected. Parallel drive means two beds running in parallel with use of only one hand control. Connect the two TD5 Advanced with a serial cable using the RJ45 ports. Use an already paired hand control or pair a hand control to the TD5 Advanced and control the two TD5 Advanced using only one hand control. It is possible to pair multiple hand controls to the system.

Please observe: Wait for 5 seconds before switching hand control.
Combining the TD5 Advanced and the CBH Advanced
Combining the TD5 Advanced with the control box CBH Advanced makes it possible to create a bed design with up to 5 motors in the system. The CBH Advanced is connected to the TD5 Advanced with a serial cable and a 2-poled DC cable for communication and power supply in between the products. It is possible to mount the CBH Advanced directly onto the TD5 Advanced with screws in the position shown on the next system overviews. For CBH Advanced connection descriptions, see below or check the CBH Advanced user manual for further details.

A1 = For serial cable to the TD5 Advanced
DC = For 2-poled DC cable to the TD5 Advanced
1-2 = Sockets for 1-2 LA27, LA31 or LA40
3A-3B = Sockets for 1-2 MD1 (massage motors) or other accessory.
   3A on CBH with 3 channels can also be used for an actuator.

3-motor solution:
A 3-motor solution is to choose for back, leg and e.g. neck or foot adjustment. The system consists of a TD5 Advanced combined with a CBH Advanced, in which a single actuator (LA27, LA31 or LA40) can be connected. The system is supplied by a SMPS006 and controlled via a wireless Bluetooth® hand control.

It is important to fix the cables to the bed frame to ensure that the cables are not stressed when operating the bed.
4-motor solution:
A 4-motor solution is to choose for back, leg, and e.g. neck and foot adjustment. The system consists of a TD5 Advanced combined with a CBH Advanced, in which 2 single actuators (LA27, LA31 or LA40) can be connected. The system is supplied by an SMPS006 and controlled via a wireless Bluetooth® hand control.

It is important to fix the cables to the bed frame to ensure that the cables are not stressed when operating the bed.

Mounting of the CBH

It is important to ensure that the cables from the actuators connected to the CBH Advanced are not tightened and fixated without cable relief. The first centimetres from the plug must have free mobility. The CBH Advanced can be mounted as shown on the system overviews above or turned 180 degrees if it fits the bed design more properly.

When mounting a CBH on a TWINDRIVE® TD5, we recommend using the following screw:
PH 4 x 35 for Thermo plastic:
- Pan head diameter max. 8.5 (d2)
- Diameter thread Ø4 (d1)
- Length 35 mm (L)
Max. thrust for tightening the screw is 1.2 Nm.
TD5 Twist Bracket - Mounting instructions and parallel tolerance

When bed is horizontal (starting position):

The diameter of the shaft must be $\varnothing 25.2 \pm 0.3 \text{ mm}$.
TD5 Twist Bracket - Welding instructions:

No bracket or welding outside this area 52° from vertical axis.

The dimension of the bracket including welding may not exceed 38 mm.

To maintain the correct rotation angle of the head-rest and the foot-rest it is important that the Twist bracket is mounted and 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 the TD5.

If the twist brackets are mounted correctly, 1-2 seconds after activating a hand control the bed should be adjusted. It gives the optimized mounting of the TD5 during mounting and the correct angle of the bed.
**Functional description**

**Hand Control HC05BL:**
- Up – down back motor
- Up – down leg motor
- Common operation up/down (option)
- Light Button

**Hand Control HC10BL:**
- Up – down back motor
- Up – down leg motor
- Common operation up/down (option)
- Light Button

**Hand Control HC20BL:**
- Up – down back motor
- Up – down leg motor
- up to 3 extra channels
- Common operation up/down (option)
- Store Button

**How to store memory**
- Drive to the desired position
- Push “S”
- Immediately afterwards the desired memory position must be pushed (1, 2 or 3)
- The position is now stored

**Drive to stored memory position**
- Push memory buttons 1, 2 or 3 and keep the button pressed until the position has been reached.
- Light Button
- Torch - Light Button
Hand Control HC30BL:

- Up / down drive - back
- Up / down drive - leg
- Simultaneous drive
- Torch - Light Button
- Store Button

**How to store memory**
- Drive to the desired position
- Push “S”
- Immediately afterwards the desired memory position must be pushed (1, 2 or 3)
- The position is now stored

1  2  3  Memory positions

**Drive to stored memory position**
Push memory buttons 1, 2 or 3 and keep the button pressed until the position has been reached.

- Up / down drive - neck
- Up / down drive - foot
- Under bed light
Hand Control HC40BL

Button 1
- refers to text in display

Simultaneous drive down

Move left in menu

Select button

Control reference up or move up in menu

Control reference down or move down in menu

Button 2
- refers to text in display

Button 3
- refers to text in display

Turn on/off Under Bed Light

Move right in menu
Disposal of LINAK products
As LINAK customers often ask us how our products can be disposed of or scrapped we have prepared this guidance that enables a classification to different waste fractions for recycling or combustion.

Guidance
We recommend to disassemble our product into as many fractions as possible at the disposal and try to make it recyclable. As examples of main groups within waste fractions we can mention:

- Metal, plastic, cable shoe, combustible waste and collection for recovery.
- Some of these main groups can be subdivided, e.g. metal can be divided into iron, stainless steel and aluminium and alloy steel. Plastic can e.g. be divided into ABS, PA, PE and PP.

As an example of sorting, please find below a list stating in which recycling groups the different components of LINAK products ought to be placed:

<table>
<thead>
<tr>
<th>Product</th>
<th>Components</th>
<th>Recycling group</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Actuator:</strong></td>
<td>Spindle and motor</td>
<td>Scrap</td>
</tr>
<tr>
<td></td>
<td>Plastic housing</td>
<td>Plastic recycling or combustion</td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Cable scrap or combustion</td>
</tr>
<tr>
<td><strong>Massage motor:</strong></td>
<td>Plastic housing</td>
<td>Plastic recycling or combustion</td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Cable scrap or combustion</td>
</tr>
<tr>
<td><strong>TWINDRIVE:</strong></td>
<td>PCB</td>
<td>Electronics scrap</td>
</tr>
<tr>
<td></td>
<td>Plastic housing</td>
<td>Plastic recycling or combustion</td>
</tr>
<tr>
<td></td>
<td>Cable</td>
<td>Cable scrap</td>
</tr>
<tr>
<td></td>
<td>Transformer Scrap</td>
<td>Recovery</td>
</tr>
<tr>
<td></td>
<td>Batteries</td>
<td>Scrap</td>
</tr>
<tr>
<td><strong>Handset/Control:</strong></td>
<td>Plastic housing</td>
<td>Plastic recycling or combustion</td>
</tr>
<tr>
<td></td>
<td>PCB</td>
<td>Electronics scrap</td>
</tr>
<tr>
<td></td>
<td>Batteries</td>
<td>Recovery</td>
</tr>
</tbody>
</table>

By now almost all our casted plastic parts are supplied with an interior code for plastic type and fibre contents, if any.
Main groups of disposal

<table>
<thead>
<tr>
<th>Product main groups</th>
<th>Scrap</th>
<th>Cable scrap</th>
<th>Electronics scrap</th>
<th>Plastic recycling or combustin</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>TD5</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC05</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC10BL</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC20BL</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC30BL</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HC40BL</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Disposal of batteries
Details regarding safe disposal of used and leaking batteries:
Batteries should be disposed in accordance with appropriate federal, state and local regulations. LINAK recommends that used or leaking batteries are disposed through the local recycling system. Please do not throw used or leaking batteries in normal household waste or in nature. This will cause damage to the environment.

How to deal with leaking batteries
Leaking batteries should be disposed as described above.
If leaking batteries are discovered in the product the batteries must be removed at once to minimise damage to the product. If leaking batteries are left in the product, it may become defective.

It is recommended to use plastic gloves when handling leaking batteries. The contents of leaking batteries can cause chemical burns and respiratory irritation.

If exposed to the contents of a leaking battery, please wash with soap and water. If irritation persists, please seek medical attention. In case of eye contact, please flush eyes thoroughly with water for 15 minutes and seek medical attention.
TWINDRIVE® TD5 Advanced system
LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or a new customer application.

LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk, and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that the LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.