



VELA Medical

Manual no. 106057

**Item no.: Model**

- 70030 VELA X-Ray Chair
- 70031 VELA 'Turn+' Thorax Chair
- 70032 VELA Mammography Chair
- 70033 VELA 'Basic+' Ophthalmology Chair
- 70034 VELA 'Move+' Ophthalmology Chair
- 70035 VELA 'Medium' Exercise Chair
- 70036 VELA 'Large' Exercise Chair
- 70037 VELA 'Support' Surgeon's chair
- 70038 VELA 'Advance' Phlebotomy chair



ISO 9001  
ISO 14001

*The chair's design varies depending on the model*

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## 1.0. INTRODUCTION

### DEAR CUSTOMER

Congratulations on your new VELA Medical Chair. This user manual contains useful information about positioning, operating and maintenance.

#### **Important**

Please read this user manual thoroughly and keep it for later use. This user manual must always accompany the chair. The user manual is also available on VELA Medical's website: [www.vela-medical.com](http://www.vela-medical.com), where you also can find other relevant information about the chair.

If you have questions, experience errors or adverse events, please contact your VELA Medical dealer.

VELA Medical reserves the right to make changes to this manual.

#### **VELA Medical**

Gøteborgvej 8-12  
DK-9200 Aalborg SV  
Denmark  
[www.vela-medical.com](http://www.vela-medical.com)

## 1.1. WARNINGS



|                |  |
|----------------|--|
| Use            | In case of an allergic reaction, stop using the chair and consult a doctor   |
| Use            | Only use original spare parts from VELA Medical  |
| Use            | Only use the supplied charger for charging the chair   |
| Use            | Do not make any changes to the accessories that come with the chair  |
| Use            | Only use the chair for the intended purpose  |
| Use            | Only adjust the seat angle and backrest angle while the user is sitting in the chair and the user's feet are flat on the floor                               |
| Use            | Always have the chair brake on when you sit down or get up   |
| Use            | The brake rod may only be used to operate the brake. If putting too much load on the brake rod, the brake rod/holder may break and thereby lose its function |
| Use            | Never use the chair on surfaces with level differences as the chair may become unstable  |
| Use            | Maintenance other than cleaning should always be performed by a professional   |
| Use            | Never service the chair while it is in use   |
| Use            | Always follow the recommended maintenance and cleaning instructions  |
| Use            | The chair's functions are intended for the user. Only the user or trained professionals should adjust the chair while the user is sitting in it              |
| Use            | Never use the electric height adjustment for more than two minutes at a time   |
| Use            | In the event of an electrical error or unintentional height adjustment, push both of the buttons for height adjustment simultaneously for 10 seconds         |
| Use            | Risk of shearing or squeezing fingers in moving parts. Therefore, never use the chair if someone is touching underneath the seat                             |
| Choking hazard | Choking hazard on small parts. Never allow children to play with the chair, as small parts are removable   |
| Choking hazard | If the chair is equipped with electric height adjustment, cables will be present. Never let children play with these   |
| Electric noise | Using cables other than the standard ones may increase electrical emission or decrease electrical immunity   |
| Electric noise | Avoid placing the chair close to appliances that emit electrical noise   |
| Electric noise | The chair may only be used with accessories mentioned in this user manual, as electromagnetic interference may otherwise occur                               |
| Electric noise | If the chair moves unintentionally or does not work as expected, find another location for the chair   |

## 1.2. TROUBLESHOOTING

| Mistake   | Possible cause and solution   |
|---|---|
| Electric height adjustment does not work                    | The plug is not plugged into the hand box – plug it in<br>There is no power on the chair's battery. Charge the battery with the supplied charger<br>The fuse is broken. See section 1.3.3                                   |
| Manual height adjustment does not work                      | There is too much load or uneven load on the chair. Try to adjust the height without sitting in the chair. If this does not work, the gas cartridge is defective and should be replaced. Contact your VELA Medical supplier |
| The brake function does not work                            | The brake is not activated. See section 2.0.13, 2.0.14. or 2.0.18.  |
| The armrest seems loose                                     | One of the hand screws might be loose. Tighten the hand screw   |
| The chair rolls badly                                       | Wheels are blocked. Clean the wheels for wire residue and the like.   |
| Brake rod or chassis is in the way when I move in the chair | You have a chair with seat rotation. Use seat rotation to straighten the chair. See section 2.0.12.   |
| Brake rod seems loose                                       | The hand screw holding the brake rod might be loose. Tighten the screw. See section 2.0.19.   |

If the above does not solve your problem, you should contact your VELA Medical supplier.

## 1.3. VELA TANGO WITH ELECTRIC HEIGHT ADJUSTMENT

### 1.3.1. POWER INPUT

Voltage: 24Vdc

Current: 0.5A

Power: 12VA

### 1.3.2. EMISSION

A VELA Medical chair with electrical functions has been tested and complies with current requirements regarding electromagnetic radiation (EMC requirements). The chair is tested to the following specifications:

:: Emission class CISPR 11, Group 1, Class B

See more details at [www.vela-medical.com](http://www.vela-medical.com)

### 1.3.3. SURGE PROTECTION

A fuse is installed on the chair which secures the chair against power surges. The replaceable part of the fuse has the following specifications:

:: Flat fuse, type: ATOF blade fuse, fast-acting

:: Voltage: 32V




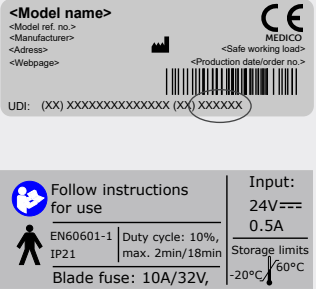
:: Current: 10A

:: Max. current: 1000A

Replacement of the fuse may only be performed by professionals, as the cause of the breach must be documented for safety reasons.

# IN GENERAL

## 1.4. LABELS USED ON THE CHAIR

|         |   |   |
|---------|---|---|
| Warning | Risk of shear and squeeze:<br>Keep hands and fingers away from moving parts   |    |
| Icon    | Read "Instruction For Use" before use   |    |
| Icon    | Part used:<br>Type B cf. IEC60601-1<br>covering the following areas of the chair:   |    |
| Labels  | 60 x 22.5 mm<br><br>The last six digits are the product ID number:<br><br>This label only applies to chairs with electrical functions:<br>The chair is IP21 approved, which corresponds to protection against water droplets as well as against touching dangerous parts with a finger. |  <p>&lt;Model name&gt;<br/>&lt;Model ref. no.&gt;<br/>&lt;Manufacturer&gt;<br/>&lt;Address&gt;<br/>&lt;Webpage&gt;</p> <p>CE MEDICO<br/>&lt;Safe working load&gt;<br/>&lt;Production date/order no.&gt;</p> <p>UDI: (XX) xxxxxxxxxxxxxxxxx (XX) xxxxxx</p> <p>Follow instructions for use</p> <p>ENG60601-1   Duty cycle: 10%,<br/>IP21   max. 2min/18min</p> <p>Blade fuse: 10A/32V,   Input: 24V===<br/>Storage limits: -20°C / 60°C   0.5A</p> |

Labels on the chair should be read at a distance of approx. 40 cm under normal daylight conditions.  
For labels related to the operation of the chair, please refer to section 2.0.

## 1.5. SAFETY

This chair bears the CE mark and approved under the model name "VELA Tango" and conforms to all applicable EU rules. The chair is manufactured by VELA Medical, Goeteborgvej 8-12, 9200 Aalborg SV, Denmark.

The VELA Tango with electrical functions meets all safety requirements according to IEC 60601-1, including

requirements for EMC according to IEC60601-1-2.

### 1.5.1. INTENDED USE

This device is intended to support a user in a sitting posture while performing indoor activities of daily living including work activities.

:: The chair is not built to stand on

- :: The wheel brake must always be activated when sitting down or standing up

All variants of this chair are tested and approved for a maximum load of 160 kg. For optimal use, the chair's recommended user weight is 50-130 kg with gas cartridge and 50-145 kg with electric height.

### **1.5.2. TRANSPORT**

When transporting the chair by car, airplane or any other means of transport, always use the chair brake. The chair is not approved for use as a passenger seat in any means of transportation and may not be used as such.

#### **The chair is designed to be transported under the following environmental conditions:**

Temperature: - 20°C to + 60°C

Humidity: 15-95%

Allow the chair to stand for 24 hours before use if it has been stored below - 10°C.

### **1.6. WARRANTY**

VELA Medical grants a right of claim under applicable law in the country where the chair is acquired. The right of complaint applies only when using original spare parts and accessories, as well as customisations made by professionals.

Note: if an exclusive contractual agreement has been made directly with VELA Medical, this applies!

VELA Medical assumes no liability for damages to the product or the user caused by:

- :: Transportation
- :: Misuse
- :: Normal wear and tear
- :: Wrong use
- :: Use of spare parts and accessories that are not original VELA Medical products
- :: Adjustments made by unauthorised service technicians

### **1.7. UNPACKING THE CHAIR**

The chair comes in environmentally friendly and recyclable packaging.

In case of defects or transport damage to the chair, please contact your VELA Medical supplier right away. In such cases, do not attempt to use the chair or to fix it yourself.

#### **On delivery you have received:**

- :: VELA Medical chair
- :: Instructions for use
- :: Charger (only for chairs with electrical functions)

**Note:** see item 2.0.1 for correct attachment of backrest.

### **1.8. MAINTENANCE**

We recommend an annual inspection of the chair to identify any defective or worn parts. All removable parts should be tightened regularly.



You can find various guides on [www.vela-medical.com](http://www.vela-medical.com).

The life expectancy of the chair is five years for regular and proper use as long as VELA Medical, your VELA Medical supplier or a trained professional perform an annual inspection with replacement of worn parts.

### 1.8.1. WHEELS

We recommended you regularly check the wheels and remove any residual threads, etc.

### 1.8.2. FRAME

Clean with lukewarm water and if necessary, add some pH-neutral detergent.

### 1.8.3. PADDING

**Fabric:** Clean by chemical cleaning, with furniture cleaner or with water using a hard-wrung cloth.

**Synthetic fabric or leather:** Clean with water or mild soap using a hard-wrung cloth.

**Medical textiles:** Clean as described above. Can also be cleaned with disinfectants and alcohol. To see which specific concentrations the different pad types can handle, see [www.vela-medical.com](http://www.vela-medical.com)

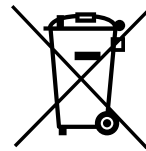
**Note:** On [www.vela-medical.com](http://www.vela-medical.com) you can find cleaning instructions for all our standard upholstery types.

## 1.9. RECYCLING AND DISPOSAL

This product contains recyclable materials. Therefore, the product must be disposed of in accordance with local regulations and not together with ordinary household waste. Proper disposal and recycling will help prevent negative effects on the environment and people.

**Note:** Electrical and electronic equipment and accompanying batteries contain materials, components and substances that can be harmful to human health and the environment if the waste is not handled properly.

Electrical and electronic equipment and batteries are marked with the icon shown below. This symbolises that electrical and electronic equipment and batteries must not be disposed of together with unsorted household waste but must be collected separately.



It is important that you return your used batteries to the established schemes. In this way, you help ensure that batteries are recycled in accordance with current legislation and do not cause unnecessary harm to the environment.

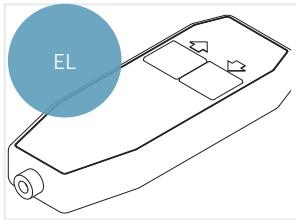
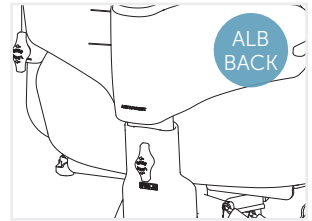
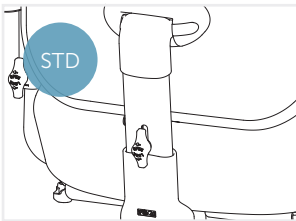
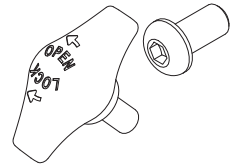
## 2.0. SETTINGS

The gas spring and the electric lifting mechanism should only be replaced by a VELA Medical technician or a person trained in this field.



### 2.0.1. ATTACHING THE BACKREST\*

The backrest is lowered into the hole. Fasten the backrest using a handle or the provided tool and screw. Remember to tighten well.

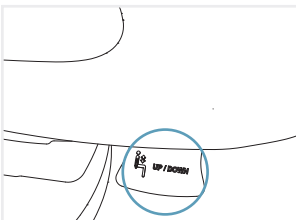


### 2.0.2. HEIGHT ADJUSTMENT VIA HAND BOX (EL)

The hand box is used via push buttons on the front. VELA Medical hand boxes can have one or more functions.

The icons on the hand box show the button functions.

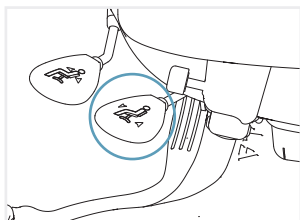
**Note:** Insert plug in hand box to operate functions. Should only be used continuously for one minute, then a nine-minute break should follow.



### 2.0.3. HEIGHT ADJUSTMENT (MANUAL)

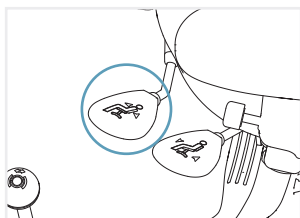
Adjusted by pulling up the front handle on the right-hand side.

**Note:** Setting the angle of backrest and seat should always be done with your feet flat on the floor.



#### **2.0.4. SETTING ANGLE OF SEAT\***

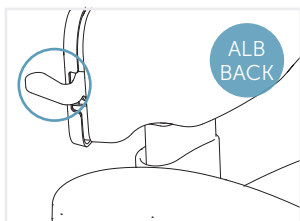
Adjusted by pulling up the middle handle on the right-hand side.



#### **2.0.5. SETTING ANGLE OF BACKREST**

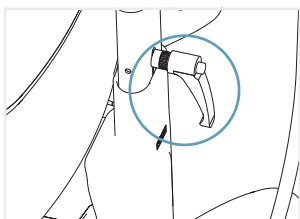
Adjusted by pulling up the rear handle on the right-hand side.

**Note:** Only operate the handle when someone is sitting in the chair - as the backrest tilts forward.



#### **2.0.6. ADJUSTING LUMBAR SUPPORT\***

The backrest can be adjusted to provide optimal lumbar support by pulling up the handle on the right-hand side of the backrest. The backrest adjusts to fit and support the lower back. Release the handle, and the backrest remains in the desired lumbar angle.

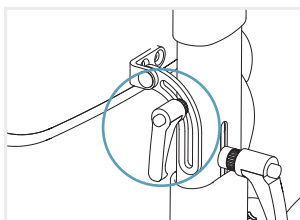


#### **2.0.7. SETTING THE BACK HEIGHT\***

Release the handle located on the back. Adjust the back. Remember to tighten the handle afterwards.

**Note:** This function can only be set using tools on certain models.

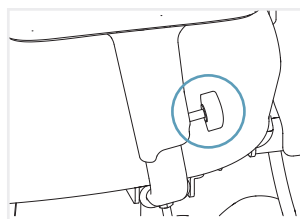
\* Depending on model



### 2.0.8. BACK BOLT\*

The backrest can be set to a specific angle by adjusting and attaching the bolt mounted on the back of the backrest.

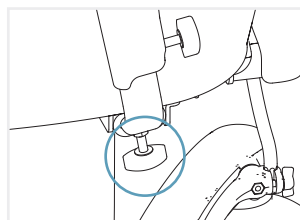
**Note:** This function can only be set using tools on certain models.



### 2.0.9. ADJUSTING THE ARMREST HEIGHT\*

Adjusted by loosening the screw on the armrest bar and adjusting the height of the armrest. Remember to tighten the screw when done.

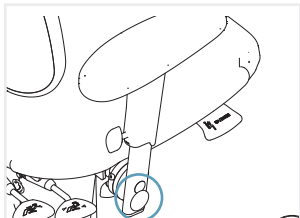
**Note:** This function can only be set using tools on certain models.



### 2.0.10. ADJUSTING THE ARMREST WIDTH\*

Adjusted by loosening the screw under the seat on the seat support and adjusting the armrest width by pulling out the armrest. Remember to tighten the screw when done.

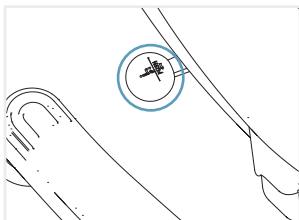
**Note:** This function can only be set using tools on certain models.



### 2.0.11. FOLD-DOWN ARMREST\*

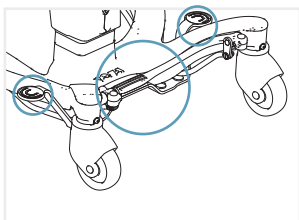
To fold down the armrest, press the button on the side of the armrest and push the armrest backwards and down.

**Note:** The armrest is only locked when it is in an upright position. The armrest can only be folded down if the width adjustment of the armrest allows it.



### 2.0.12. ROTATION\*

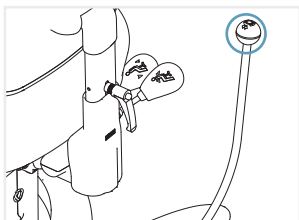
The seat is rotated by pushing back on the front handle on the left-hand side. Rotation can be turned and locked in the following positions: 90° to the left, 0° (neutral), and 90° to the right.



### 2.0.13. 360 ° FOOT PEDAL FOR BRAKING

The brake can be accessed from all sides of the chair and is activated by pressing down the brake pedal with your foot in the areas shown.

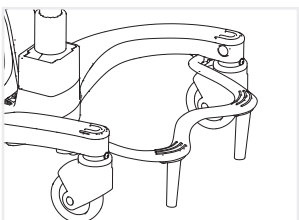
Place your foot under the brake pedal and push it up to unlock the chair's brake.



### 2.0.14. HAND BRAKE\*

The brake is activated by moving the handle on the side of the chair forward. Unlock the chair by moving the handle back into the upright position.

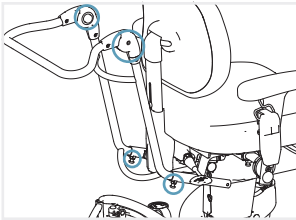
**Note:** See Setting the angle of the brake, section 2.0.19. for adjusting the position of the brake and the distance to the seat.



### 2.0.15. FOLDING FOOTREST\*

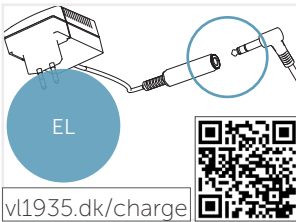
Stabilising foot support that can also be used as a footboard when moving in and out of the chair.

\* Depending on model



### 2.0.16. STROLLING BRACKET\*

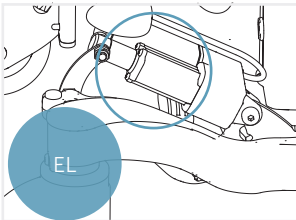
Strolling bracket for transporting a person in the chair. The strolling bracket is mounted to fittings under the seat using two screws (See the enclosed ziplock bag). This is also where the depth is adjusted. The height is adjusted by pressing the two buttons on the side of the bracket while the handle is positioned at the desired height.



### 2.0.17. CHARGING (EL)

Daily charging is recommended. Remove the operation plug from the back of the armrest and place it in the charger as shown. The charger is plugged into an electrical outlet. When the chair is charging, the LED on the charger is yellow. When the chair is fully charged, the LED turns green.

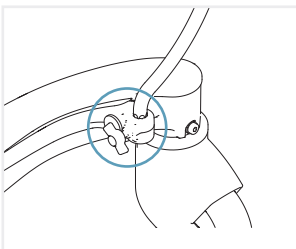
**Note:** The chair should not be used during charging.



### 2.0.18. ELECTRIC BRAKE (EL)\*

The electric brake is activated and deactivated using the hand box or switches. It is advisable to activate or deactivate the brake completely when using this feature.

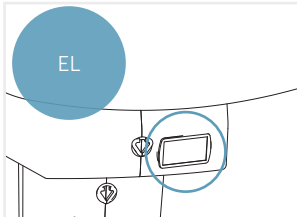
**Note:** The brake can only be used via switches under the armrest, the hand box, or angle switch.



### 2.0.19. SETTING THE ANGLE OF THE BRAKE\*

Loosen the thumbscrew and remove the brake rod from the holder. Insert the brake rod in the desired side and angle. Remember to retighten the thumbscrew.

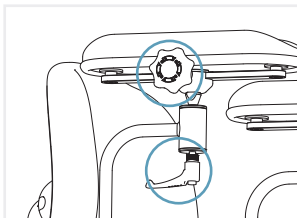
**Note:** The brake can be set at 30° intervals. The brake rod can be moved forwards/backwards and closer to/further from the seat as required. The brake can also be moved to the opposite side.



### 2.0.20. BATTERY INDICATOR (EL)

A battery indicator with a button is located on the front of the chair just below the seat.

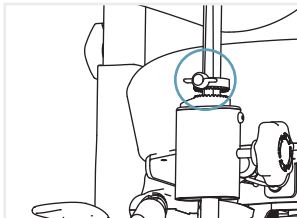
One press shows the remaining battery capacity in per cent (%).  
Two presses show the remaining battery voltage.



### 2.0.21. ARMREST FOR SURGEON'S CHAIR\*

Adjust by loosening the screw on the armrest and regulate the angle. Remember to tighten the screw afterwards.

Adjust the cushion back- and forwards by loosening the screw placed on the armrest. Adjust the cushion in the wanted position. Remember to tighten the screw afterwards.



### 2.0.22. ADJUSTMENT OF ARMREST\*

Adjust by loosening the screw on the armrest bar and regulate the height of the armrest. Remember to tighten the screw afterwards.



### 2.0.23. ARMREST FOR SAMPLE COLLECTION\*

The armrest is adjust by loosening the screw under the cushion and regulate the angle of the armrest. Remember to tighten the screw afterwards.

\* Depending on model



#### **2.0.24. ACCESSORIES**

This chair is available with a range of accessories.

See a complete list of accessories at: [www.vela-medical.com](http://www.vela-medical.com)

**Note:** Charger is included as an accessory when purchasing a VELA Medical chair with electrical functions.