

700 version software

500 version software

# EXCITEMPT YOUR SENSES



Manufacturer and equipment identification

- Description of the equipment
- Technical data
- Accessories
- Safety devices and notices
- Place of installation
- Moving the equipment
- Levelling
- **Electrical connection**
- Connection to another device
- Routine maintenance
- Changing the fuses
- Recharging the battery
- Troubleshooting
- Technical assistance
- Storage
- Disposing of the equipment
- Switching on and off
- Monitoring the heart rate
- Ergonomic positioning on the equipment

### Manufacturer and equipment identification



- A Manufacturer's name and address
- **B** Description of product
- **C** Electrical specifications and type of fuses (700 and 500 versions)
- **D** Equipment classification
- E CE Mark

- F Tells you to consult the User manual
- **G** Serial number and date of manufacture
- H Certification mark for the USA and Canada
  - Product code

The values stated in the illustration are purely indicative; refer to the label attached to the equipment or the data in *Technical data* section for the correct information.

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### Manufacturer and equipment identification

Equipment with codes DAF5M.., DAF7M.. are intended for medical use and have been designed and built for use in outpatient clinics, hospitals, clinics and sport centres, for muscular therapy and rehabilitation.

Equipment with codes DAF5M.., DAF7M.. can be used by or close to children, invalids, disabled persons or people with evident physical problems only under close supervision of a doctor or a qualified professional.

**Description of the equipment** 

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 $\checkmark$ Control panel Levers **Fast Track Control** Sensors **Fixed handles** Side supports Pedals Bases **Reading stand** Tray TGS key reader



**Control panel**: controls all available functions, from setting up workout programs to viewing messages and related workout information.

Manufacturer and equipment

### **Description of the equipment**

### Control panel

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Ergonomic positioning on the equipment

Levers
Fast Track Control
Sensors
Fixed handles
Side supports
Pedals
<u>Bases</u>
Reading stand
Tray
TGS key reader



**Levers**: these can be grasped by the user to perform the exercise with arm movements. The 700 and 700 SP versions have <u>sensors</u> for monitoring the heart rate (hand sensor) and the <u>Fast Track Control</u> to change the effort level.

### **Description of the equipment**

### Manufacturer and equipment identification

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### Control panel Levers Fast Track Control Sensors Fixed handles Side supports Side supports Pedals Bases Reading stand Tray TGS key reader



Levers: these can be grasped by the user to perform the exercise with arm movements. The 700 and 700 SP versions have <u>sensors</u> for monitoring the heat rate (hand sensor) and the **Fast Track Control** to change the effort level.

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Control panel Levers **Fast Track Control** Sensors **Fixed handles** Side supports Pedals Bases **Reading stand** Tray TGS key reader

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**Sensors**: <u>levers</u> and <u>fixed handles</u> have sensors for monitoring the heat rate (hand sensor), in the 700 and 700 SP versions of the equipment.

**Description of the equipment** 

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on the equipment

Control panel
<u>Levers</u>
Fast Track Control
<u>Sensors</u>
Fixed handles
Side supports
Pedals
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Reading stand
<u>Tray</u>
TGS key reader

 $\checkmark$ 



Fixed handles: these can be grasped by the user during the workout. The 700 and 700 SP versions have <u>sensors</u> for monitoring the heart rate (hand sensor).

**Description of the equipment** 

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Control panel Levers **Fast Track Control** Sensors **Fixed handles** Side supports Pedals Bases **Reading stand** Tray TGS key reader

 $\checkmark$ 



Side supports: these can be held by the user to mount on the equipment.

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Control panel Levers Fast Track Control Sensors Side supports Side supports Pedals Bases Reading stand Tray TGS key reader

 $\checkmark$ 



**Pedals**: the special conformation of the pedals enables the ankles to work under optimal conditions.

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Control panel Levers Fast Track Control Sensors Side supports Side supports Pedals Bases Reading stand Tray TGS key reader



**Bases**: support the equipment frame and components.

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Control panel Levers Fast Track Control Sensors Fixed handles Side supports Pedals Bases Reading stand Tray TGS key reader



Reading stand: for standing magazines or books on.

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Control panel Levers Fast Track Control Sensors Side supports Side supports Pedals Bases Bases Reading stand Tray



Tray: for standing the water bottle or other useful items on during the workout.

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Control panelLeversFast Track ControlSensorsSide supportsSide supportsPedalsBasesReading standTrayTGS key reader

**TGS key reader**: for the TGS key (optional).

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### **Technical data**

Vario Excite 500 and 700	Europe - Asia	USA - Canada
Power supply	100÷240 Vac ±10% 50/60 Hz	100÷240 Vac ±10% 50/60 Hz
Mains power input	65 VA max	65 VA max
Fuses	2 x 3.15A (F)	2 x 3.15A (F)
Weight of equipment	200 kg	440 lb
Maximum user weight	160 kg	353 lb
Time	0÷999 min ± 1%	0÷999 min ± 1%
Distance	9999 floors ± 5%	9999 floors ± 5%
Speed	26÷140 spm	26÷140 spm
Protection grade	IP 20	IP 20
Electric isolation class	Class I	
Marks and Certificates	CE	UL <sup>(*)</sup>

Vario Excite 500 SP and 700 SP	Europe - Asia	USA - Canada
Weight of equipment	200 kg	440 lb
Maximum user weight	160 kg	353 lb
Time	0÷999 min ± 1%	0÷999 min ± 1%
Distance	9999 floors ± 5%	9999 floors ± 5%
Speed	33÷140 spm	33÷140 spm
Protection grade	IP 20	IP 20
Electric isolation class	Class II	
Marks and Certificates	CE	UL <sup>(*)</sup>

<sup>()</sup> Only if the symbol is present on the equipment identification label.

### **Technical data**





### Accessories

- Manufacturer and equipment identification
- Description of the equipment
- Technical data

#### Accessories

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- A Set of wrenches
- B User manual
- C Warranty certificate
- **D** CEE Power Supply cable with SH socket (700 and 500 versions)
- E CEE Power Supply (extension) cable (700 and 500 versions)
- F Cloth for cleaning
- **G** 10A German-type adapter (700 and 500 versions)
- H Two replacement fuses (3.15A (F) (700 and 500 versions)
- I Chest band with transmitter for heart rate monitor (700 and 700 SP versions)
- L Lubricating oil



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### Safety devices and notices



- A Fixed guard: guards against access to the inside of the equipment.
- **B** Beep: warns the user when the equipment is switched on, when the exercise starts or if the heart rate is high.
- C Main switch: turns the equipment's power on and off (700 and 500 versions).
- **D Fuses**: they protect the equipment's electrical parts (700 and 500 versions). When the current reaches an excessive value, the fuses melt thus protecting the internal electronics.

### Safety devices and notices



- Description of the equipment
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- Accessories

#### Safety devices and notices

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#### WARNING

Please read the adhesive labels on the equipment, which provide information about possible risks and hazards.

In the 700 and 500 versions:

- **E** The identification label of the equipment states the electrical specifications.
- **F** The label, which can be affixed close to the main switch, states safety indications.
- **G** The label which can be affixed to the power supply cable states the electrical specifications for the cable.



CAUTION: do not connect a device with load exceeding 7 A

CAUTION: do not connect to a circuit operating at more than 150V to ground

CAUTION: risk of electric shock. Do not disconnect under load

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### **Place of installation**

To ensure that exercising with Vario Excite is easy, safe and effective, the place where it is used should comply with certain specific requirements; in particular, before choosing the place where the equipment will be installed, please ensure that the following conditions are satisfied:

- the **temperature** is between +10°C and +25°C;
- enough air is circulating to keep **humidity** during exercise to between 20% and 90%;
- the **lighting** is good enough to make the area safe and relaxing place to exercise in;
- plenty of **free space** around each item of equipment;
- that the floor is flat, stable and vibration-free, and strong enough to bear the weight of the equipment plus user.

The place of installation must comply with all the suitability requirements laid down in current legislation on this matter.

Equipment not suitable for use in the presence of anaesthetic mixtures inflammable in air, oxygen or nitrous oxide.

In order to guarantee the performance indicated by the manufacturer, you are advised against using the equipment in zones with high short-wave presence or similar.

Manufacturer and equipment identification

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### Moving the equipment

The equipment has two fixed front wheels. To move the equipment, lift it up slightly, as shown in the illustration, and push it forwards and backwards.

If wheels cannot be used on the floor, move the equipment with normal lifting and transport methods.



WARNING

Take great care when moving the equipment and positioning it on the ground, as it may overbalance.





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#### Levelling

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### Levelling

The equipment is levelled by adjusting the two front feet and the central foot (A):

- loosen the lock nuts (**B**) and screw the front feet (**A**) in or out until the frame is in a stable position.
- tighten up the lock nut (B) after adjusting.



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## **Electrical connection (700 and 500 versions)**

Before connecting the equipment to the mains power supply, ensure that the electrical system specifications comply to binding regulations. Check the mains power supply specifications on the label applied to the frame under the control panel.



DANGER

The wall socket must be located in a place where the plugging and unplugging can be done easily and safely.

When plugging in, the switch on the equipment must be in the 0 position (i.e. the equipment must be switched off).

Plug the power cable first into the equipment socket and then into the wall socket.





WARNING

Check the state of the power supply cable periodically.

Vario Excite

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#### DANGER

The power supply socket must be grounded  $(\frac{1}{2})$ . If not, a ground connection must be installed by a qualified electrician before connecting the equipment to the electricity mains.

The product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.



### DANGER

Improper connection of the equipment-grounding conductor can result in a risk of electrical shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product; if it will not fit in the outlet, have a proper outlet installed by a qualified electrician.

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### **Connection to another device**

The equipment can be connected to an audio/ video reception device such as the Cardio **Theater**. Besides, if the equipment has not TV, it can be connected to a network of devices conforming to the CSAFE protocol.



### WARNING

The devices connected must comply with international standards.



Equipment with codes DAF7.., DAF5.. can be connected to devices conforming to the CSAFE protocol only for setting and maintenance functions. Additional devices connected to the digital interface must conform to the respective IEC standards (that is IEC 60950 for information technology equipment and IEC 60601-1 for medical electrical equipment). Whoever connects additional equipment to the input or output signal ports, configures a medical system and therefore is responsible for the system's conformity to the IEC 60601-1 standard about systems. Consult the technical support department or your local representative if you have any doubts.

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### **Connection to another device**

If the equipment has Wellness TV, connect the aerial cable to the equipment and to the wall socket. Use an RF coaxial cable for the connection with an F type of connector for the equipment.



DANGER

The wall socket of the aerial cable must be positioned so that the plug can be easily inserted and removed.



### **Connection to another device**

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Each Wellness TV can be connected to many compatible audio/video equipment (e.g. DVD, Playstation, VCR and earphones)

- **A** RCA audio inputs (red connector for the right input and white connector for the left input)
- RCA video input (yellow connector) В
- earphones jack. С



#### WARNING

Never connect more than one equipment in input at the same time.



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### **Routine maintenance**

As the equipment is used in a sports centre by more than one person, it should always be kept clean and free of dust, in accordance with normal hygiene and sanitary rules.

To clean the **control panel**, proceed as follows:

- turn the equipment off by switching the switch to the **0** position (700 and 500 versions);
- unplug the equipment power cable from the wall socket (700 and 500 versions);
- clean the control panel with a damp, but not wet, cloth.

### Every week, clean the equipment completely:

- with the equipment turned off, clean the external parts with a damp sponge;
- move the equipment to one side so that you can vacuum clean underneath it.

Do not use chemical products or solvents.



#### WARNING

Do not rub too hard on the control panel and diagrams, or on the written instructions on the stickers.

The safety of the equipment is assured only on the condition that it is carefully inspected every two weeks for any signs of damage and/or wear.

For maintenance actions not described in this manual, call in the Technogym Technical Service.

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### Changing the fuses (700 and 500 versions)



The fuses must be changed by the Technogym Technical Support Service.



#### DANGER

Before changing the fuses, switch the equipment off by switching the switch to 0 and unplug the power cable plug from the wall socket.

Remove the fuse holder, to the right of the switch, by pushing the lever.

Replace the blown fuse with a new one as supplied (3.15A (F).

Fit the fuse holder back into its housing, making sure it clicks in properly.



### DANGER

If no more of the supplied fuses are available, use certified fuses with identical electrical specifications (3.15A (F) for the replacement.







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### **Recharging the battery (700 SP and 500 SP versions)**

The 700 SP and 500 SP versions have to be kept moving to keep them turned on; if, when you stop moving, the control panel switches off without warning, the battery will have to be recharged.

If, 30 seconds after starting movement, the resistance of the equipment is exceptionally high even at effort level 1, recharge the battery with the charger.





#### WARNING

Do not use the equipment while the battery is recharging.

#### **Charger electrical specifications:**

100÷240 Vac 0.8 A 50/60 Hz Input 15 V dc 24W ⊖ ● ● Output Class II

#### WARNING

Only use devices that comply with applicable standards.

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### Troubleshooting

Below is a list of problems that may arise during normal use of the equipment. If the described remedies do not solve the problem, contact the Technical Support Service.

Problem	<b>Cause</b> Remedy
Equipment doesn't switch on	Mains power failure (700 and 500 versions). Check the power supply at the wall socket used by the equipment by plugging in an appliance that definitely works.
	<b>Power supply cable damaged (700 and 500 versions).</b> Contact the Technogym Technical Support Service.
	Installation problems with the power supply cable (700 and 500 versions). Check the connection.
	<b>Burnt-out fuses (700 and 500 versions).</b> To replace the blown fuse with a spare (3.15A (F) contact Technogym Technical Support Service.
	The control panel connector has been accidentally disconnected. Contact the Technogym Technical Support Service.

# **Technical**

### Troubleshooting

information	Troubleshooting	
Manufacturer and equipment identification	Problem	<b>Cause</b> Remedy
Description of the equipment Technical data Accessories	Too noisy	Equipment not properly levelled. Check the position and level the adjustment feet.
Safety devices and notices Place of installation		Damaged bearings. Contact the Technogym Technical Support Service.
Moving the equipment Levelling		Worn belt. Contact the Technogym Technical Support Service.
Electrical connection Connection to another device Routine maintenance	Data incorrect or unreliable with equipment running	<b>Blocked key on keypad.</b> If the problem persists, contact the Technogym Technical Support Service.
Changing the fuses Recharging the battery Troubleshooting Technical assistance		Equipment next to source of radio interference (e.g. electrical domestic appliances). Move the equipment to another place or move the domestic
Storage Disposing of the equipment Switching on and off		appliances. An internal connector has become accidentally disconnected. Contact the Technogym Technical Support Service.
Monitoring the heart rate Ergonomic positioning on the equipment		Internal contact in control panel. Contact the Technogym Technical Support Service.

Switching on and off

Monitoring the heart rate Ergonomic positioning on the equipment

### Troubleshooting

information .		
Manufacturer and equipment identification	Problem	<b>Cause</b> Remedy
Description of the equipment Technical data Accessories Safety devices and notices	Problems in monitoring heart rate with the chest band	<b>Other transmitters situated nearby.</b> Move the equipment far enough away to stop signal interference (minimum distance between two units 80 cm).
Place of installation Moving the equipment Levelling		<b>Strong interference sources nearby.</b> Find the interference source (e.g. an electrical domestic appliance) and move it away, or move the equipment.
Electrical connection Connection to another device		Worn heart rate monitor chest band. Change the chest band.
Routine maintenance Changing the fuses		Chest band transmitter not making proper skin contact. Dampen the inside of the chest band with water.
Recharging the battery Troubleshooting		Control panel not working properly. Contact the Technogym Technical Support Service.
Technical assistance Storage		Damaged transmitter. Change the chest band.
Disposing of the equipment		

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### **Technical assistance**

The Technogym Technical Support Service provides:

- telephone consultation
- information about which services are covered by the warranty and which must be paid for
- on-site servicing -
- supply of original spare parts.

### **Technogym Technical Support Service**

via G. Perticari, 20

47035 Gambettola (Forlì) ITALY

tel: 0547 650650 fax: 0547 650150 email: service@technogym.com

When you contact the Technogym Technical Support Service you must give the following information:

- model.
- date of purchase,
- serial number.
- precise description of the problem.



### WARNING

Work on the equipment by persons unauthorised by Technogym invalidates the warranty.

Technogym supplies the electrical and wiring diagrams to companies with technical support.

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#### Storage

Disposing of the equipment Switching on and off Monitoring the heart rate Ergonomic positioning on the equipment If a long period of non-use is expected, you are advised to store the equipment in the following way:

- in a clean dry place, with a dust cover;

Storage

- at a room temperature between -10°C and 70°C and relative humidity between 20% and 90%.

For better storage, use the original packing materials.

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### **Disposing of the equipment**

Always make sure that the equipment cannot become a hazard in any way, and do not leave it in places where children play. As a precaution, when the equipment is unused for a long time or when you want to dispose of it, unplug it from the mains.

Disposing of the equipment on open ground, in public areas, or in private areas used by the public is prohibited.

The equipment is made from recyclable materials such as steel, aluminium and plastic, which must be disposed of in the manner prescribed by the urban refuse collection regulations in force, by specialist environmental firms.

### **Disposing of the battery**

The battery is made of non-recyclable materials: do not discard it in the environment.

Contact specialist urban and environmental cleansing agencies for disposing of the battery.

### **Disposing of the chest band**

The chest band, which transmits heart rate data, is not made of recyclable materials and therefore must not be disposed of on open ground.

Contact a company specialized in urban and environmental sanitation.

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### Switching on and off

To turn 700 and 500 versions of the equipment on, switch the switch to "**I**" position. To turn the 700 SP and 500 SP versions on, begin moving.

When switched on, a beep sounds and all the control panel LEDs light up.

After a quick system check (reset), the equipment is ready for use.

#### choose training

The message does not appear if the keys are disabled (see the *Configuration Menu* section in the software part) so that exercises can be started only with the TGS key.

#### insert the TGS key

The message does not appear if the TGS key reader is not installed or if the use of the TGS key is disabled (see the *Configuration Menu* section in the software part) so that exercises can be started only with the control panel keys.

In this mode, the following functions are enabled:

- calculation of heart rate, if measured;
- reading of access codes for configuration menu (see the *Configuration Menu* section in the software part).



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### Switching on and off

To turn 700 and 500 versions of the equipment off, switch the main switch to the "**0**" position.

If the equipment isn't going to be used for a long time, as well as turning it off you should also pull the plug out of the wall socket.

### 

The switch is for turning the equipment on and off but does not isolate it completely from the mains voltage, even in the "0" position (off). For complete isolation you must unplug the power supply plug.



To turn 700 SP and 500 SP versions of the equipment off, simply stop moving.

The equipment must be switched off only at the end of the exercise, when in standby.

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Ergonomic positioning on the equipment

### Monitoring the heart rate

The equipment is able to measure heart rate trends, in two different ways:

 with a device applied to the fixed handle or to the levers (hand sensor), that switches on when you grip the handles or levers in the sensor region (in 700 and 700 SP versions);

- with a chest band with a heart rate transmitter (Polar T31).

There must be no more than one transmitter in the reception range: otherwise the receiver may receive different signals at the same time and give incorrect heart readings. If there are several equipment units with heart rate receivers in the same area, the recommended minimum distance between them is 80 cm.





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### Monitoring the heart rate

Heart rate readings will not be accurate near electromagnetic radiation sources (TVs, cellphones, etc.).

Should you have any doubts about the accuracy of the readings, contact the Technical Support Service.

The following table shows the optimum heart rate levels in relation to age and the goal to be achieved. Theoretical maximum heart rate (100%) is calculated on the basis of age using the formula: 220 - age.



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### Monitoring the heart rate

To read the graph, simply find your age on the horizontal axis and scan up the vertical until you reach the 60%, 70% and 90% values.

Aerobic exercise performed at a heart rate **between 60% and 70%** mainly burns fat as an energy source.

When doing aerobic exercise at a heart rate of **70% to 90%** the cardiocirculatory component prevails.

For example, if someone **aged 30** wants to burn off fat, the heart rate during exercise should be kept to between 114 (60%) and 133 (70%); if he or she wants to improve cardio-respiratory capacity, the heart rate should be kept to between 133 (70%) and 171 (90%).

### DANGER



During a workout it is very important that your heart rate never goes above 90% of your maximum rate (unless you are an athlete engaged in competitive sport).

### 

The sole function of the heart rate monitor is to display the heart rate during exercise and cannot be used for medical cardiac diagnoses of any kind. The heart rate shown on the display is purely indicative and cannot be considered absolutely certain.

For information on displaying the heart rate percentage on the control panel see the *Heart rate LEDs* section in the software part.

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Ergonomic positioning on the equipment

# **Ergonomic positioning on the equipment**

Step onto the equipment from behind and put one foot on each pedal. Grasp a fixed handle with one hand and set the program with the other on the control panel.

To perform the movement with your lower limbs only, hold the fixed handles. To perform the movement with your upper limbs as well, hold the levers.

Initially push the pedals downwards, then gradually lengthen your stride until you find the most pleasant and natural movement.



Constantly check your position: head held high, shoulders in line with the hips, abdomen sucked in and trunk erect. To maintain correct posture you must keep legs and feet parallel and gaze straight ahead.



#### WARNING

Any distractions in the area around the equipment may cause the user to lose his/her balance.



DANGER

Vario Excite is to be used solely for its intended purpose, i.e. for aerobic exercise of the legs and arms. Any other use of the equipment is to be considered improper and therefore dangerous.