

# TNK500

— By Alegre Design —



reddot design award  
winner 2012



**1 SYNCHRO MECHANISM**

The synchronised tilt system offers the possibility of adjusting the maximum angle of inclination of the backrest in 4 positions. The user determines the maximum tilting point, which can be locked in the upright position. At the same time, the tension adjustable offers the possibility to apply strength between 50-120ks to the back in a quick and efficient way.

By operating the handle (A) in one of its four possible positions the maximum tilt angle is determined and turning handle B in one of the positions, it will provide more or less tension to the back



Synchron lockable at 4 positions



Tension Control Knob

**2 AIR COMFORT SYSTEM**

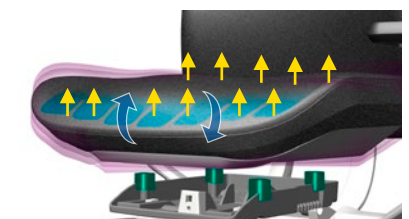
The seat foam has been designed with air chambers, that absorb pressure and decompress the foam in an adaptive and responsive way. This improves comfort, flexibility and provides for better pressure distribution



ACS

**3 FLEXIBLE SHEETS**

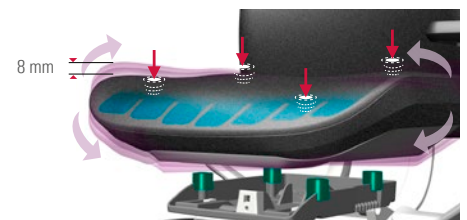
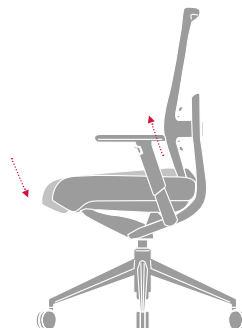
Ergonomically designed the seat is fully fitted with flexible sheets in the front and back that force the user to sit correctly thus, reducing tension in the muscles



Flexible sheets

**4 360° SWING SEAT**

The 360° oscillation system makes the seat accompany the movement of the user to any gesture or change of position. This system gives the negative seat angle a dynamic work position, bringing the back to a maximum ergonomic position.



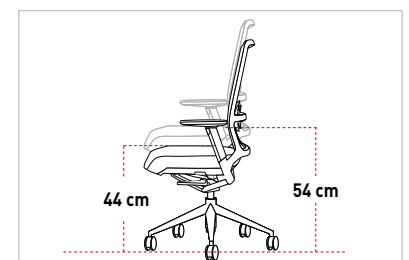
360° swing seat

**5 SEAT HEIGHT ADJUSTMENT**

Seat height adjustment is controlled with a gas lift. The mechanism is activated by pressing handle (C) which is under the seat on the right hand side (sitting in the chair).



Seat Height Adjustment



Maximum and minimum seat heights

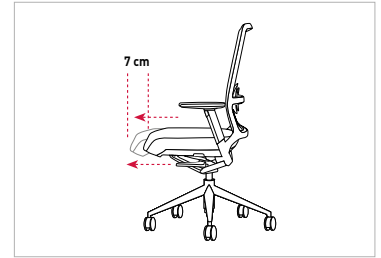
**6 SLIDING SEAT**

TNK 500 has a ratchet mechanism that enables locking in 8 positions with a total movement range of 70 mm.

The mechanism is operated by pressing up the lever (D) located on the right side under the seat. The system includes an auto-return mechanism to return the seat to the back position when standing up while pulling the lever out.



Sliding seat lever

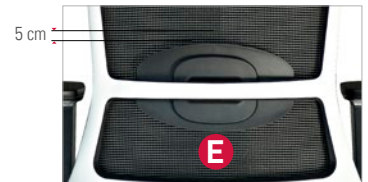


5 different positions

**7 LUMBAR ADJUSTMENT AND HEADREST**

**LUMBAR SUPPORT (mod. with technical fabric back)**

TNK 500 has a lumbar support adjustment, which is activated by moving the control in the back of the chair, up or down (E). The elastic mesh of the back is automatically adapted to each user releasing pressure in those points.



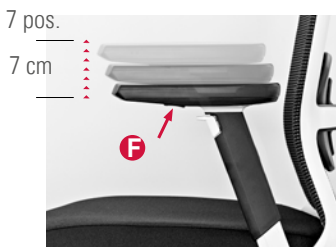
**HEADREST (only for models with fabric seat and back)**

Any TNK 500 model can be complemented with a headrest made of flexible foam 90-100kg/m<sup>3</sup>, (38,5 x 21 cm) upholstered in different finishes.



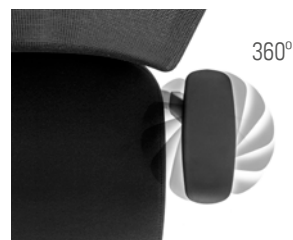
**8 ADJUSTABLE ARMS**

**Height adjustment:** adjustable using the knob under the arm-rest (F), offering 7 height positions.



Height adjustable arm

**360° Swivel arm system (Anti-panic):** 360° pivoting system allows the arm rest to turn horizontally.



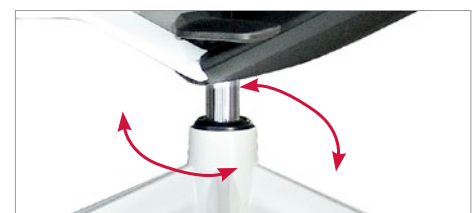
360° Swivel arm movement allowing horizontal rotation of arm rests. Rotation functions:

- Anti panic solution.
- Obtaining alternative position to approximate the chair to the work surface.



**9 SELF RETURN AUTO LIFT CYLINDER (OPTIONAL)**

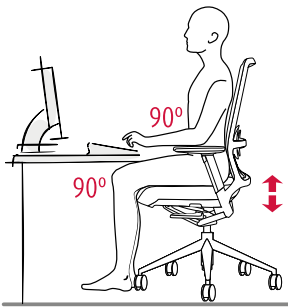
The self-return, auto-lift cylinder swivels 360 degree in both directions, height adjustable when seated and returns the seat automatically to the original position when vacated. The direction and height of the chair are always the same when vacated.



**1 A correct posture at work to avoid physical problems**

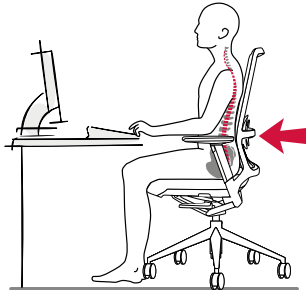
**Seat adjustment.**

Forearms must be parallel to the desk top as in a right angle with the rest of the arm. Both feet must be lean on the floor and knees must be in right angle too.



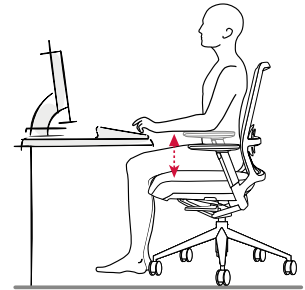
**Lumbar Support Adjustment**

Adjust the Lumbar support height to get the back totally rested and the weight totally supported.



**Adjustable arms (5 positions)**

Place the chair arms in the lower position to get better mobility. For statics works, adjust height and distance to that point where the forearms perfectly lean.



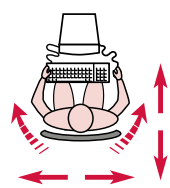
**2 Different ergonomics conditions and specific mobility for each task**

It is necessary to alternate daily dynamic and static tasks.

**Dynamic tasks.**

Document manipulation, communication and so on...Free the synchro mechanism and adjust weight and height. Place armrests in the lower position.

**Dynamic tasks.**



**Static work**

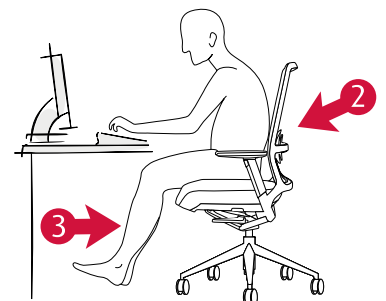
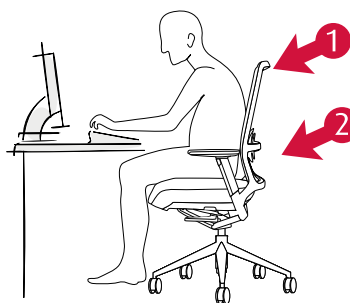
Document analysis and writing, intensive computer work... Blocked synchro mechanism and use armrests properly.



**3 Incorrect Postures**

**Key points.**

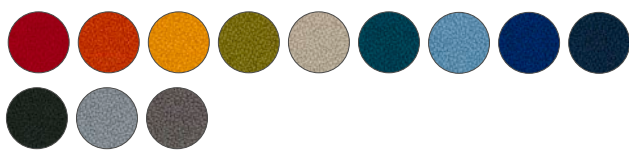
1. A lower position from the desk produces neck pain.
2. An incorrect back support produces lumbar problems.
3. Legs too stretched or too vended causes body joints over-stressed.



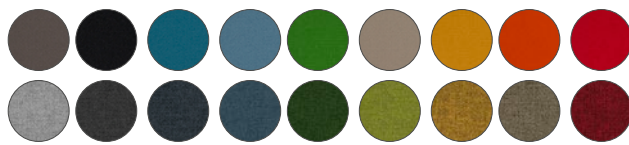
**UPHOLSTERED BACK AND SEAT**

■ **BACK AND SEAT**

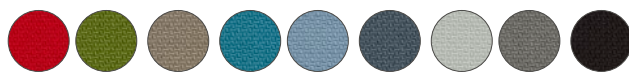
Fabric T - Phoenix



Fabric M - Melang & Step



Fabric D - Felicity



Fabric U - Laguna



Fabric V - Valencia



Fabric P - Savana



Fabric A - Synergy



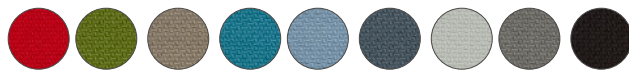
**TEX BACKREST**

■ **BACKREST AND SEAT**

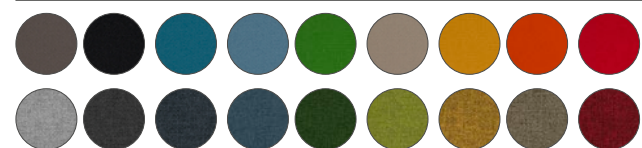
Fabric T - Phoenix



Fabric D - Felicity



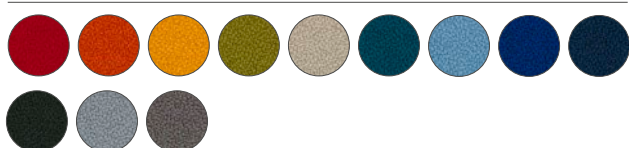
Fabric M - Melang & Step



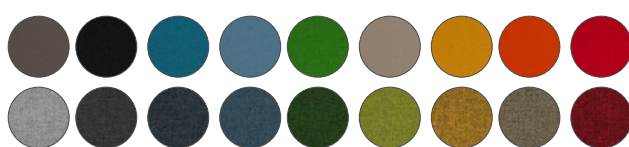
**TECHNICAL MESH BACK REST**

■ **SEAT**

Fabric T - Phoenix



Fabric M - Melang & Step



Fabric D - Felicity



■ **BACK**

Fabric R - Rhythm



Fabric H - Harlequin



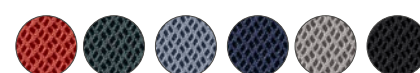
Fabric U - Laguna



Fabric A - Synergy



Fabric R - Rhythm



Fabric H - Harlequin



Fabric Q - Spin



■ **DESCRIPTION**

Moulded flexible foam **PU flexible (80-90kg/m<sup>3</sup>)** over steel metal frame Ø 6 x 1,5 mm thickness. Upholstered. Back rest aluminium Frame. **Seat** with ACS technology, flexible sheets and 360° swing system which allows dynamic negative angle. Moulded flexible foam PU flexible (55-60kg/m<sup>3</sup>). Upholstered with easy clean fabrics. Height adjustable seat via gas lift. Depth seat adjustment seat (50 mm). Moulded aluminium 5 star swivel base. Polyamide **(PA6)** castors and soft band **TPU**. **Optional:** antistatic castors, soft hole control castors or auto-bracking castors.

■ **BACK AND SEAT**

(SEE FINISHES AND FABRIC CARD PREVIOUS PAGE)

■ **BASES AND CASTORS**



Silver aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm



White aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm

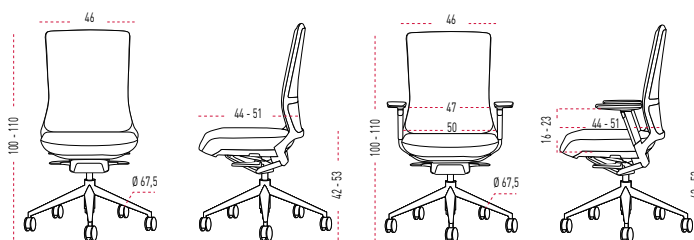


Black aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm



Polished aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm

■ **SIZES**



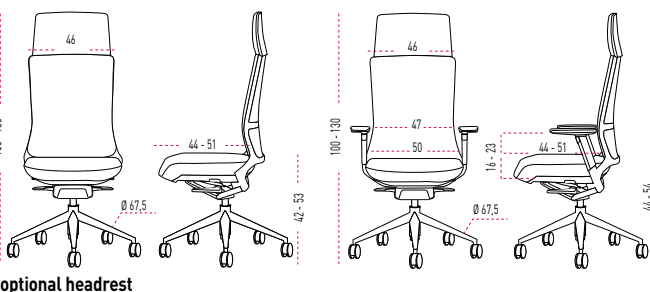
- ① Moulded foam **PU flexible 80-90kg/m<sup>3</sup>**
- ② Aluminium frame
- ③ Height adjustable arms and anti-panic system
- ④ ACS technology. Flexible sheets and 360° swing seat which allows dynamic negative angle.
- ⑤ Patented synchro-evolutive knee-tilt mechanism. Four positions
- ⑥ Gas lift
- ⑦ Moulded aluminium 5 star base
- ⑧ Anti-skid castors polyamide **(PA6)** soft band **TPU**

■ **SIZES**

**Total height:** from 1000 to 1100 mm  
**Total width:** 675 mm  
**Total depth:** 675 mm

**Seat height:** from 420 to 530 mm  
**Seat width:** 500 mm  
**Seat depth:** from 440 to 510 mm

\*Measures according to UNE-EN 1335-1





**MATERIALS**

Maximum use of materials to eliminate and minimize scraps. Use of recyclable and recycled materials in those components that do not affect the functionality and durability.

**56,99%**

RECYCLED MATERIALS



**PRODUCTION**

Maximum optimization of energy use. Minimal environmental impact. Last generation technological systems. Zero discharge of wastewater. No VOC coatings. Processes free of heavy metals, phosphates, OC and COD.

**100%**

RECYCLABLE ALUMINIUM, STEEL & WOOD



**TRANSPORT**

Detachable systems. Volumes that facilitate the optimization of space. Maximum reduction of energy consumption by transport.

**100%**

RECYCLABLE PACKAGE AND THINNER FREE



**USE**

Quality and warranty. Long lasting. Replacements available.

**EASY**

TO CLEAN AND MAINTAIN



**DISPOSAL**

Waste reduction. Supplier-manufacturer packaging reuse system. Components are easy to be separated. Inks in packaging are water-based, without solvents.

**77,23%**

RECYCLABLE MATERIALS

**■ CERTIFICATES AND REFERENCES**

The different programmes get points in different environmental categories to get the LEED certificate (sustainability, material and resources, water, energy and atmosphere, inner environment quality, innovation and design).



**■ STANDARDS**

TNK 500 has passed tests done in our technical department as well as the tests done in **AIDIMA** the Technological Institute for furniture. The tests correspond to:

**Operative chairs standards applied since 2009**

- **UNE-EN 1335-1:01.** Office Furniture. Office chair. Part 1: Dimensions.
- **UNE-EN 1335-2:19.** Office Furniture. Office Chair. Part 2: Security requirements

■ **DESCRIPTION**

**Back rest** with aluminium frame. Upholstered with foamized fabric composed of polyurethane foam 5mm + fabric "T" or 10mm polyurethane foam + fabric M. Optional PP lumbar support. **Seat** with ACS technology, flexible sheets and 360° swing system which allows dynamic negative angle. Moulded flexible foam PU flexible (50-60kg/m3). Upholstered with easy clean fabrics. Height adjustable seat via gas lift. Depth seat adjustment seat (50 mm). Moulded aluminium 5 star swivel base. Polyamide **(PA6)** castors and soft band **TPU**. **Optional:** antistatic castors, soft hole control castors or auto-braking castors.



■ **BACK**

GROUP M - MELANGE

■ **SEAT**

GROUP M - MELANGE

■ **BASES AND CASTORS**



Silver aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm



White aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm



Black aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm



Polished aluminium base - Ø 67,5 cm  
Black anti-skid castor - Ø 65 mm

- ① Aluminium frame
- ② Moulded Flexible foam back rest.
- ③ **Optional** Lumbar support
- ④ Height adjustable arms and anti-panic system
- ⑤ ACS technology. Flexible sheets and 360° swing seat which allows dynamic negative angle.
- ⑥ Patented synchro-evolutive knee-tilt mechanism. 4 positions
- ⑦ Gas lift
- ⑧ Moulded aluminium 5 star base
- ⑨ Anti-skid castors polyamide **(PA6)**, soft band **TPU**

■ **SIZES**

**Total height:** from 1000 to 1100 mm

**Total width:** 675 mm

**Total depth:** 675 mm

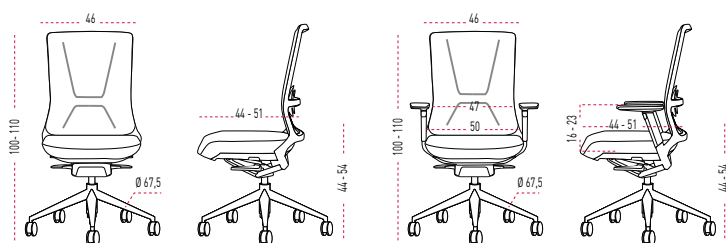
**Seat height:** from 440 to 510 mm

**Seat width:** 500 mm

**Seat depth:** from 440 to 510 mm

\*Measures according to UNE-EN 1335-1

■ **SIZES**





**MATERIALS**

Maximum use of materials to eliminate and minimize scraps. Use of recyclable and recycled materials in those components that do not affect the functionality and durability.

**59,79%**  
RECYCLED  
MATERIALS



**PRODUCTION**

Maximum optimization of energy use. Minimal environmental impact. Last generation technological systems. Zero discharge of wastewater. No VOC coatings. Processes free of heavy metals, phosphates, OC and COD.

**100%**  
RECYCLABLE  
ALUMINIUM, STEEL  
& WOOD



**TRANSPORT**

Detachable systems. Volumes that facilitate the optimization of space. Maximum reduction of energy consumption by transport.

**100%**  
RECYCLABLE  
PACKAGE AND THINNER  
FREE



**USE**

Quality and warranty. Long lasting. Replacements available.

**EASY**  
TO CLEAN  
AND MAINTAIN



**DISPOSAL**

Waste reduction. Supplier-manufacturer packaging reuse system. Components are easy to be separated. Inks in packaging are water-based, without solvents.

**82,36%**  
RECYCLABLE  
MATERIALS

■ **CERTIFICATES AND REFERENCES**

The different programmes get points in different environmental categories to get the LEED certificate (sustainability, material and resources, water, energy and atmosphere, inner environment quality, innovation and design).



The mark of responsible forestry



EN ISO 14006:2011  
ECODESIGN Certificate



UNE-EN ISO 9001:2008  
ISO 9001 Certificate



UNE-EN ISO 14001:2004  
ISO 14001 Certificate



ACTIU TECHNOLOGY PARK  
LEED® PLATINUM certified by USGBC  
Leadership in Energy & Environmental Design  
LEED® Gold certified 2011 - LEED® Platinum certified 2017

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- **UNE-EN 1335-2:19.** Office Furniture. Office Chair. Part 2: Security requirements

■ **DESCRIPTION**

**Back rest** with aluminium frame of 64% polyester and 36% polyamide. Breathable. **Seat** with ACS technology, flexible sheets and 360° swing system which allows dynamic negative angle. Moulded flexible foam PU flexible (50-60kg/m<sup>3</sup>). Upholstered with easy clean fabrics. Height adjustable seat via gas lift. Depth seat adjustment seat (50 mm). Moulded aluminium 5 star swivel base Polyamide (**PA6**) castors and soft band **TPU**. **Optional:** antistatic castors, soft hole control castors or auto-braking castors.

■ **BACK**

(SEE FINISHES AND FABRIC CARD PAGE 05)

■ **SEAT**

(SEE FINISHES AND FABRIC CARD PAGE 05)

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Polished aluminium base - Ø 67,5 cm  
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■ **SIZES**

**Total height:** from 1000 to 1100 mm

**Total width:** 675 mm

**Total depth:** 675 mm

**Seat height:** from 440 to 540 mm

**Seat width:** 500 mm

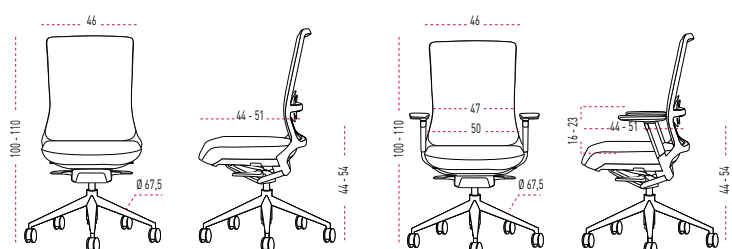
**Seat depth:** from 440 to 510 mm

\*Measures according to UNE-EN 1335-1



- ① Aluminium frame
- ② Technical mesh back rest.
- ③ **Optional** Lumbar support
- ④ Height adjustable arms and anti-panic system
- ⑤ ACS technology. Flexible sheets and 360° swing seat which allows dynamic negative angle.
- ⑥ Patented synchro-evolutive knee-tilt mechanism. 4 positions
- ⑦ Gas lift
- ⑧ Moulded aluminium 5 star base
- ⑨ Anti-skid castors polyamide (**PA6**), soft band **TPU**

■ **SIZES**





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ECODESIGN Certificate



UNE-EN ISO 9001:2008  
ISO 9001 Certificate



UNE-EN ISO 14001:2004  
ISO 14001 Certificate



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