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# OFFICE SOLUTIONS

## TNK A500



## 1 SYNCHRO MECHANISMS

Synchro mechanism is activated from handles under the seat in the left hand side (sitting in the chair). Pressing up (A) handle, the mechanism is jammed.

To release it, press it up again. For tension knob adjustment, pull handle to the right (B) and turn it to get it more or less tighten. (Please check engraved symbols in the handle).



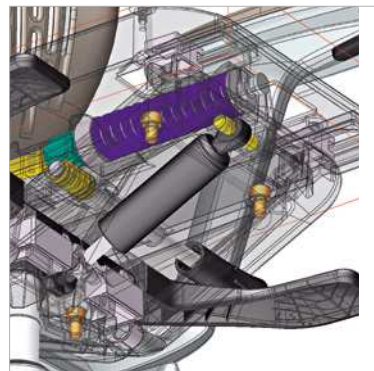
Synchron lockable at any position



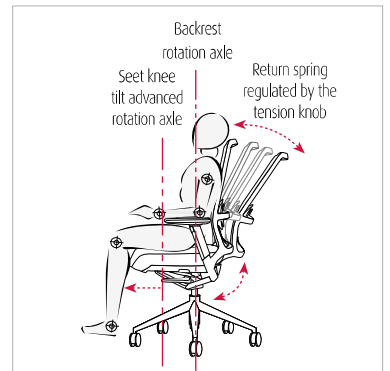
Tension Control Knob

## 2 BACK REST KNEE-TILT SYSTEM

TNK A500 has double knee-tilt system to control back rest. First function is to control speed of the back movement throughout gas cylinder. The second function controls the locking system in any position and manages the return of the back part of the seat when the user separates from the Back rest.



Gas lift controls the speed of the tilt return

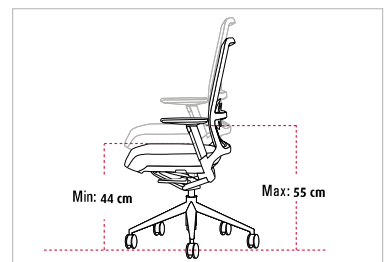


## 3 SEAT HEIGHT ADJUSTMENT

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



Gas lift



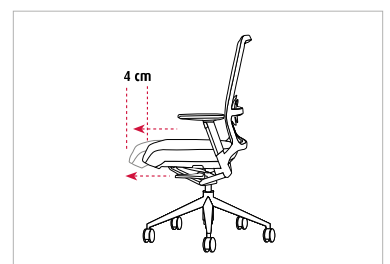
Backrest maximum and minimum height

## 4 SEAT SLIDE

Horizontal seat slide movement it is used to adjust the seat deep towards the back rest depending on the user's anthropometric characteristics. To activate the mechanism, press handle (D) placed in the right hand side, under the seat. Zipper system with 5 positions. A self-return system moves the seat towards the backrest when the handle is activated without any weight pressure in the seat.



Sliding seat lever



5 different positions. Depth adjustment with auto-return mechanism

## 5 SEAT FLEXORS - FORWARD TILT RELEASE PRESSURE

Seat has flexors to distribute user weight and adapt user movements and posture changes. Seat flexors reduce thighs tensions compression points and provide a better movement of the user. when this user moves to the front or to the back of the chair.



Seat Flexors

## 6 LUMBAR ADJUSTMENT AND HEADREST

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

**TNK A500** has a lumbar support adjustment. Move up and down **(E)** control in the back of the chair. The elastic mesh of the back is automatically adapted to each user making pressure in those points.

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

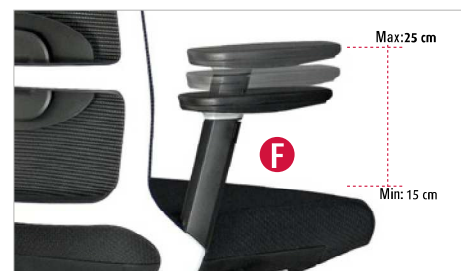
Any **TNK A 500** model can be complemented with a headrest made of flexible foam 40kg/m<sup>3</sup>, (39,5 x 21 cm) upholstered in different finishes.



## 7 ADJUSTABLE ARMS

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

**180° Swivel arm system (Anti-panic):** 180° pivoting system allows the arm rest to turn horizontally. It includes an easy and comfortable system to lock the movement in the position 0° and 180°.



Height adjustable arm



180° Swivel arm movement allowing horizontal rotation of arm rests. **Rotation functions:**

- Anti panic solution.
- Obtaining alternative position of use to approximate maximum chair work surface.



Incorporation of a panic trigger in the aluminum arms



## 8 CASTORS AND CAPS

Soft band 65 mm anti-skid castors in black finish. **Optional Security castors** with auto-lockable system, avoiding the undesired chair move (when sitting the castors move normally but when stand up the castors auto-lock). **Black Polypropylene (PP) caps** with antiskid rubber.



Black castor



Weight control castors



Antistatic castors



Black caps

## 9 AUTO RETURN AUTO LIFT CYLINDER OPTIONAL

The auto-return, auto-lift cylinder swivels 360 degree in both directions, height adjustable when seated and returning the seat automatically to the original position when vacated.

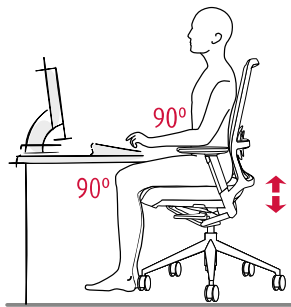
The direction and height of the chair are the same all the time when vacated.



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

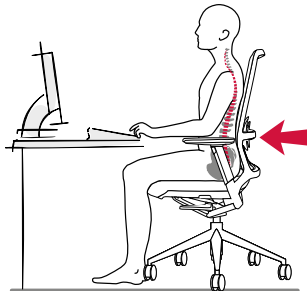
### Seat adjustment.

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.



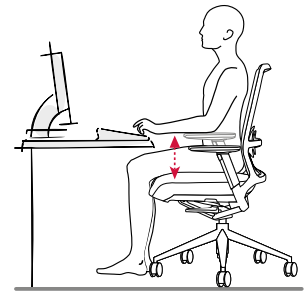
### Lumbar Support Adjustment

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.



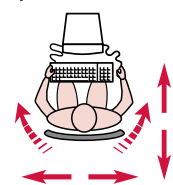
## 2 Different ergonomics conditions and specific mobility for each task

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

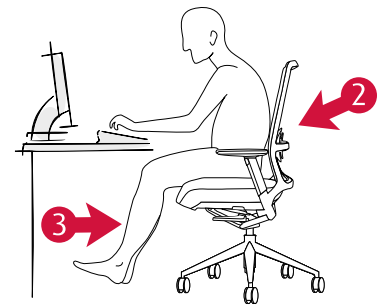
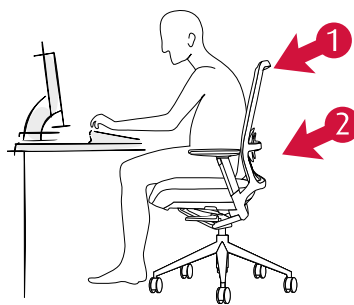
Document analysis and writing, intensive computer work... Blocked synchro mechanism and use armrests properly.



## 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.





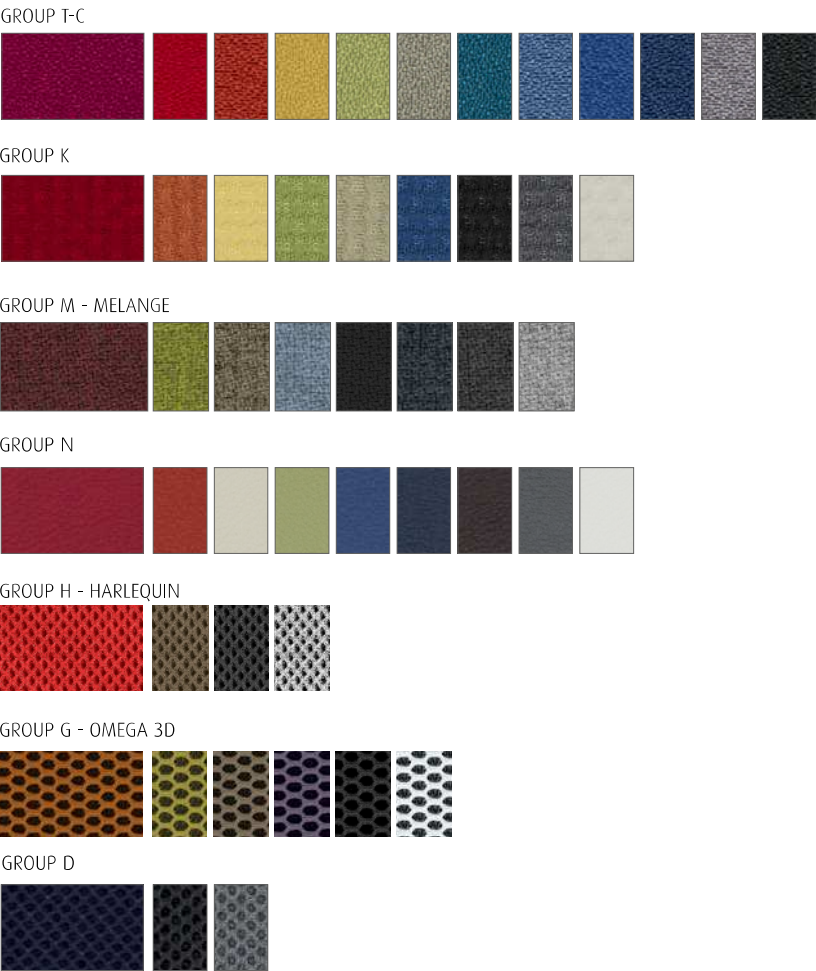
UPHOLSTERED BACK AND SEAT

BACK AND SEAT



TECHNICAL MESH BACK REST

SEAT



BACK



### ■ DESCRIPTION

Moulded flexible foam PU flexible ( $40\text{kg/m}^3$ ) over steel metal frame  $\varnothing 6 \times 1,5$  mm thickness. Upholstered. Back rest aluminium Frame. **Seat** black polypropylene (P.P) cover seat with injected viscoelastic foam upholstered with fabrics. Height adjustable seat by gas lift. Depth seat adjustment seat (50 mm). Return spring system. 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

Fabric:

Group T-C, Group K, Group M-Melange, Group N, Group D and Group P.  
(SEE FINISHES AND FABRIC CARD PREVIOUS PAGE)

### ■ BASES AND CASTORS



Silver aluminium base -  $\varnothing 67,5$  cm  
Black anti-skid castor -  $\varnothing 65$  mm



White aluminium base -  $\varnothing 67,5$  cm  
Black anti-skid castor -  $\varnothing 65$  mm



Black aluminium base -  $\varnothing 67,5$  cm  
Black anti-skid castor -  $\varnothing 65$  mm



Polished aluminium base -  $\varnothing 67,5$  cm  
Black anti-skid castor -  $\varnothing 65$  mm



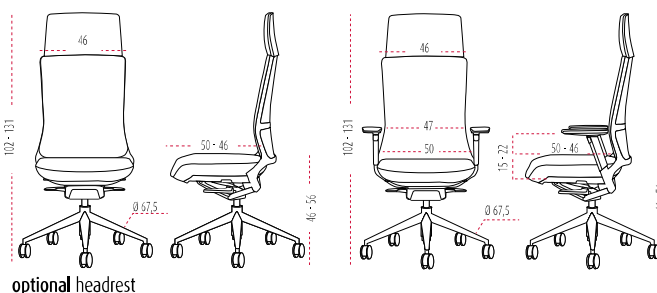
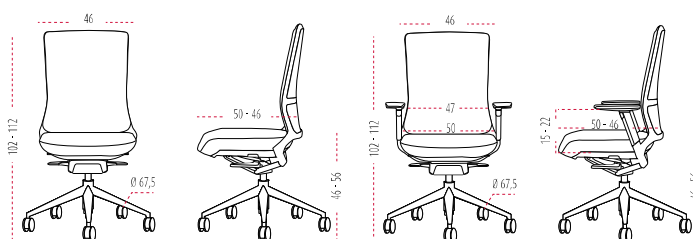
- ① Moulded foam PU flexible  $40\text{kg/m}^3$
- ② Aluminium frame
- ③ Height adjustable arms and anti-panic system
- ④ Viscoelastic foam seat upholstered in different finishes
- ⑤ Patented synchro-evolutive knee-tilt mechanism
- ⑥ Gas lift
- ⑦ Moulded aluminium 5 star base
- ⑧ Anti-skid castors polyamide (PA6) soft band TPU

### ■ SIZES

Total height: from 1020 to 675 mm  
Total width: 675 mm  
Total depth: 675 mm

Seat height: from 460 to 560 mm  
Seat width: 460 mm  
Seat depth: from 460 to 500 mm

### ■ SIZES



Recycled materials



Recyclable materials



## MATERIALS

**TNK A500** has been designed to be manufactured with recycled materials, danger substances such as chrome, mercury or cadmium are not used in big quantity. Recyclables Aluminium and Steel 100%. Organic volatile Components. Packages manufactured with recycled carton. Ink thinner free.



## PRODUCTION

Energy use is optimized during the production process. Minimum environmental impact. Last generation technological system in coating processes. Painting that have not been used is recovered to use it again. Zero COVs emissions and other contaminant gas. Close water circuit to clean the metals. Heat recovery. Automatic manufacture systems. Cut process is planned.



## TRANSPORT

Optimum packaging to reduce space in transport and save energy.



## USE

Long lasting use. Spare parts and replacements available. Easy to clean and maintenance.



## DISPOSAL

Recyclable. Easy and quick to split **TNK A500** components. Packages are reuse by our supplier to avoid waste generation. Carton used in packages is recyclable.

## 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



PEFC Certificate


EN ISO 14006:2011  
ECODESIGN Certificate

UNE-EN ISO 9001:2008  
ISO 9001 Certificate

UNE-EN ISO 14001:2004  
ISO 14001 Certificate


E1 by EN 13986 Certificate



**ACTIU TECHNOLOGICAL PARK**  
project certified as **LEED® GOLD**  
by U.S. Green Building Council 2011  
Leadership in Energy & Environmental Design

### DESCRIPTION

**Back** rest with aluminium frame, elastic technical mesh composed by 64% polyester and 36% polyamide. Breathable. **Seat:** black polypropylene (P.P) cover seat with injected viscoelastic foam, upholstered with fabrics. Height adjustable seat by gas lift. Depth seat adjustment seat (50 mm). Return spring system. 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

Fabric: NET, PLUS, STRING, Group H-Harlequin and Group G-Omega 3D. (SEE FINISHES AND FABRIC CARD PREVIOUS PAGE)

### SEAT

Fabric: Group T-C, Group K, Group M-Melange, Group N, Group D, Group H-Harlequin and Group G-Omega 3D. (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  
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### SIZES

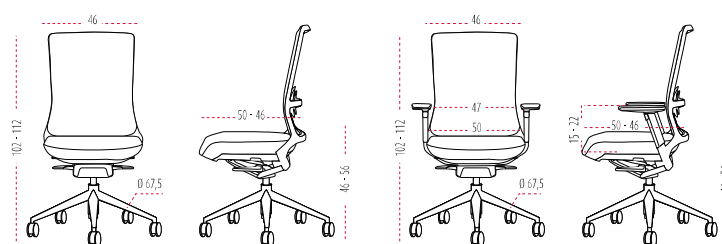
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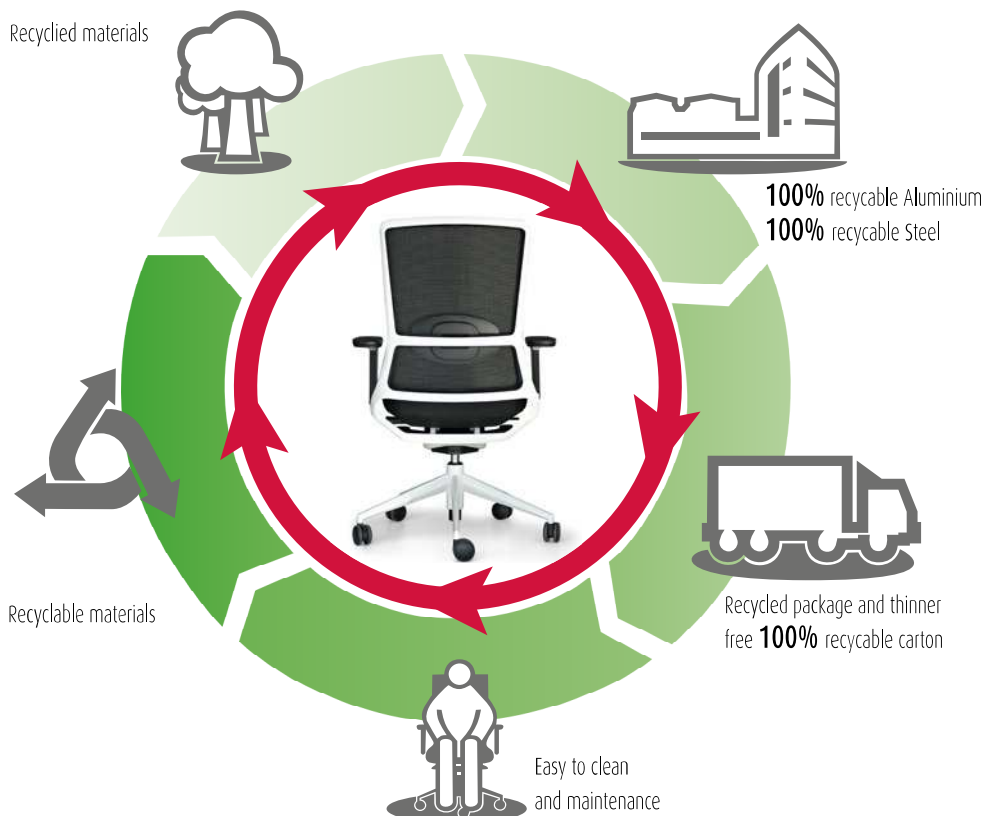
- ① Aluminium frame
- ② Technical mesh back rest. Two finishes: **NET** and **PLUS**
- ③ **Optional** Lumbar support
- ④ Height adjustable arms and anti-panic system
- ⑤ Viscoelastic foam seat upholstered in different finishes
- ⑥ Patented synchro-evolutive knee-tilt mechanism
- ⑦ Gas lift
- ⑧ Moulded aluminium 5 star base
- ⑨ Anti-skid castors polyamide (PA6), soft band TPU

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E1 by EN 13986 Certificate



**ACTIU TECHNOLOGICAL PARK**  
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Leadership in Energy & Environmental Design

### ■ **ERGONOMICS**

**TNK A500** available for all type of users. Perfect for any need and keep user's posture in a natural way without any manual adjustment.

### ■ **STANDARDS**

**TNK A500** 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 1335-2:09.** Office Furniture. Office Chair. Part 2: Security requirements
- **UNE-EN 1335-2:09.** Office Furniture. Office chair. Part 3: Security essays.

### ■ **ECOLOGY**

#### **ENERGY SAVING**

The new technological production system included, reduce the energy resources used to manufacture each component. Materials are very well used to avoid wastes.

#### **RECYCLED AND RECYCABLE MATERIALS**

ACTIU environmental policy opts to use recycled materials in those components where functionality and lasting is not a condition. Materials used in **TNK A500** such as Aluminium or Steel are totally recyclable.

**■ REMARKABLE VALUES**

**1 -** Programme designed, developed and totally manufactured by Actiu. **Registered product as an European and International design.**

**2 - Synchro anti-tilt mechanisms patented by ACTIU**

Research and Development investment has allowed developing and manufacturing the inner mechanisms integrating each component in the design. The programme gets a unified aesthetics and reduces production costs.

**3 -** The result is an excellent **COST-EFFECTIVE** programme, totally guarantee which includes all necessary functions for an intensive use in offices as well as a very competitive price.

**4 - Painting process:**

Actiu painting plant has minimum environmental impact against the traditional industry processes.

Treatment is done by polarized coating and compacted with temperature. We get homogeneous and regular application with 98% of painting and the remaining 2% is used to produce other paints. Paints used are COVs free (Volatile Organic Components) which are very dangerous for the environment. All water used in the process is re-used, so we get zero dump. The process is free in heavy metal, phosphate, organic components and **DQD** (Biochemical demand of Oxygen). The program gives us an exact control of thickness, so it provides us with standard thickness (90 micron).



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