

# TNK FLEX

— By Alegre Design —



Intensive Certificate



**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**

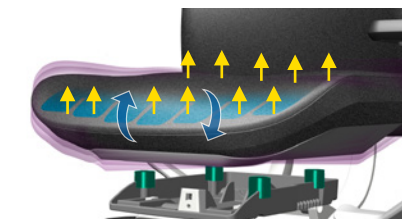
The seat foam has been designed with air chambers, to advantage pressure and decompression of the foam in an adpatative way. This improves comfort, flexibility and a better pressure distribution



ACS

**3 FLEXIBLE SHEETS**

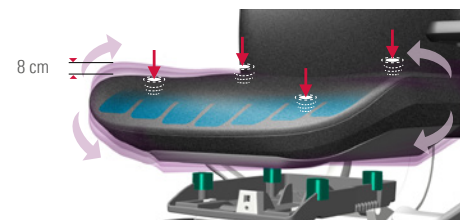
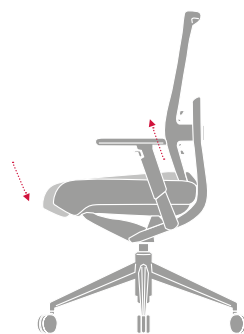
An ergonomic designed system makes the user seat in a proper way. It has a flexible sheets in front and back in order to reduce pressure on the muscles



Flexible sheets

**4 360° SWING SEAT**

The 360° swing system makes the seat follow the moves of the user to any gesture or change of position. This system gives a dynamic negative angle seat, bringing the back to a maximum ergonomic position.

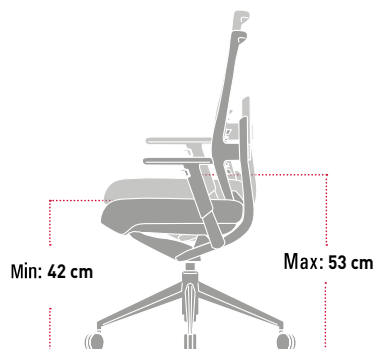


360° swing seat

**5 SEAT HEIGHT**

The adjustment of the seat height is performed using a gas pump. The mechanism is activated by pushing the lever up (C) located on the righthand side (seated in the chair) under the seat.

Range of elevation from 42 cm to 53 cm.



Seat Height Adjustment

**6 SLIDING SEAT**

TNK FLEX has a ratchet mechanism that enables locking in 5 positions with a total movement range of 50 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

**7 BACKREST AND TILT**

**FLEX OF THE BACK.** The 360° adaptability is achieved by using a silent block that combines the oscillation and flex in all directions. The back acts adaptively even when the synchro mechanism is locked.

**HEIGHT ADJUSTMENT OF THE BACK**

A guided system which allows the user to adjust the height of the backrest with a total range of 50 mm.



SIDE



UP / DOWN

**8 LUMBAR AND HEAD ADJUSTMENT**

**ADJUSTMENT OF LUMBAR STRENGTH**

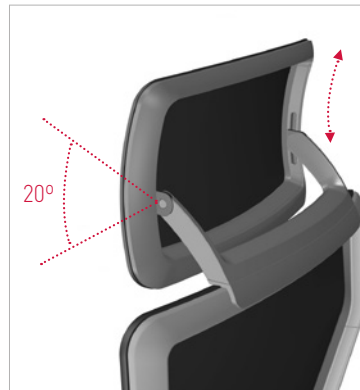
The TNK FLEX chair enables the regulation of lumbar strength with a total range of 25 mm.

**FLEX OF THE LUMBAR STRENGTH**

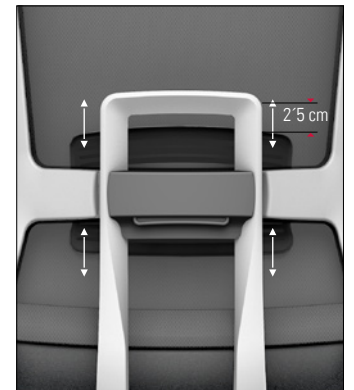
The lumbar strength is adaptable thanks to its design and materials employed. Furthermore, it is fixed to the back using a flexible arc which enables an increase or decrease in its total radius.

**ADJUSTABLE HEADREST**

The headrest can be adjusted in height with a range of 50 mm and an inclination angle of 20°. There are 2 types of finishes for the headrest: Finishes of Technical mesh and TEX fabric.



Technical mesh or TEX fabric headrest



**9 ADJUSTABLE ARMS**

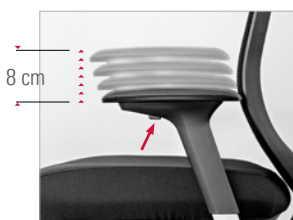
Three directions of adjustment: Height adjustment with a total elevation range of 80 mm, longitudinal movement with a total range of 45 mm and a lateral displacement with a total range of 25 mm per armrest (50 mm total). The armrests are available in PUR and rigid PP

**Polypropylene (PP) 1D Arms**

**3D arms with Polyurethane (PUR) PADS (Optional)**



Polypropylene arm with Hard armrest



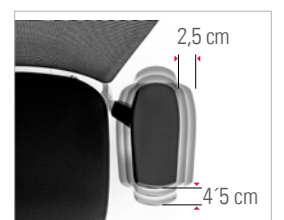
Height



Polyurethane arm with Soft armrest



Height



Forward - Backward Width

■ **TNK FLEX - POLYAMIDE BASE**

Polypropylene (PP) Armrests  
Polyurethane (PUR) Armrests - *Optional*



POLYAMIDE BASE FINISHES



Black

■ **TNK FLEX - ALUMINIUM BASE**

Polyurethane (PUR) Armrests



ALUMINIUM BASE FINISHES



White



Silver



Black



Polished

■ **STANDARD CASTORS**

All chairs are offered in a standardized way with silent running castors of teflon which gently allows tread without exerting pressure and gives lightness and freshness to the design of the base.



STANDARD CASTORS

- Silent teflon tread .
- Black finish.
- 65mm diametre
- No self-locking.

■ **OPTINAL CASTORS**

The self-locking castors are characterised by complying with security restrictions established in some projects, as they prevent accidental movement of the chair. Also, they have the disadvantage of sliding with difficulty when no weight is exerted. In a seated position or with pressure, allows a smooth roll without pressure.



AUTO-BRACKING CASTORS

Its auto brake system provides security by avoiding inadvertent movement of the chair, after pressing on its base to sit, it allows a smooth roll without pressure.



ANTISTATIC CASTORS



AUTO-BRACKING HOLE CASTORS

Its auto brake system provides security by avoiding inadvertent movement of the chair, after pressing on its base to sit, it allows a smooth roll without pressure. It includes an easy system to unlock the self-locking, contemplating itself as fundamentally an aesthetic choice.

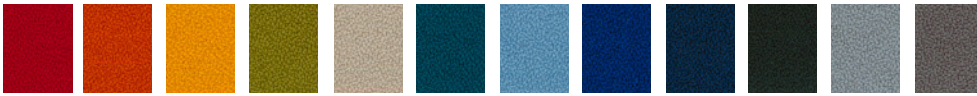


POLYPROPYLENE CAPS

### TEX BACKREST

#### ■ BACKREST AND SEAT

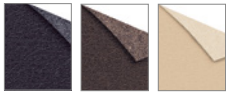
GROUP T



GROUP M - MELANGE



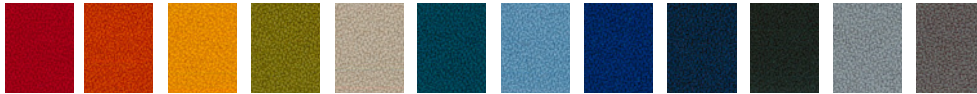
GROUP P



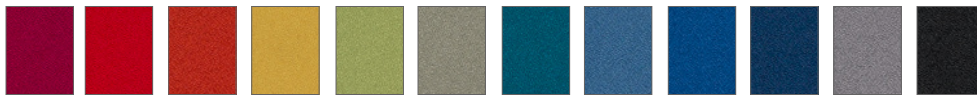
### TECHNICAL MESH BACKREST

#### ■ SEAT

GROUP T



GROUP C



GROUP N



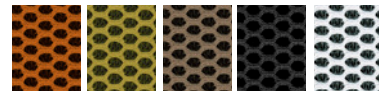
GROUP M - MELANGE



GROUP H - HARLEQUIN

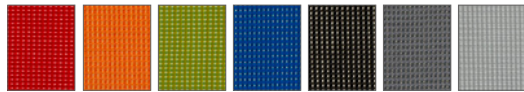


GROUP G - OMEGA 3D

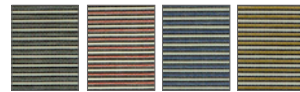


#### ■ BACKREST

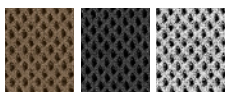
NET



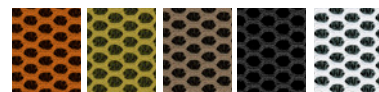
PLUS



GROUP H - HARLEQUIN



GROUP G - OMEGA 3D



■ **DESCRIPTION**

- ① Upholstered with foamized fabric composed of polyurethane foam 5mm + fabric "T" or 10mm polyurethane foam + fabric M.
- ② Perimeter frame injected with Polypropylene + 30% Fiberglass.
- ③ Back elevation system and adaptable lumbar support.
- ④ Height Adjustable arms. PA + FV cane. **PP** support.  
Adjustable 3D arms. PA + FV cane. **PUR** support.
- ⑤ Seat with ACS technology, flexible sheets and 360° swing system which allows dynamic negative angle. Moulded flexible foam PU flexible (55-60kg/m3). Upholstered with easy clean fabrics. Height adjustable seat via gas lift. Depth seat adjustment seat (50 mm).
- ⑥ Gas lift.
- ⑦ Five-star base.
  - Polyamide (PA) - Ø 67,5 cm.
  - Aluminium - Ø 67,5 cm.
- ⑧ Silent polyamide castor (PA6) with teflon tread in TPU.
- ⑨ Optionl Adaptive headrest made from tex fabric.  
*(Only for model with high backrest)*



■ **BACKREST AND SEAT**

Group M-Melange & Group P - Leather  
(PLEASE SEE FINISHES AND FABRIC ON THE PREVIOUS PAGE)

■ **BASES AND CASTORS**



Polyamide - Ø 67,5 cm  
Silent black castor - Ø 65 mm  
FINISH  
Black.



Aluminum injection - Ø 67,5 cm  
Silent black castor - Ø 65 mm  
FINISHES  
White, Black, Silver and Polished.

**OPTIONAL ACCESSORIES**



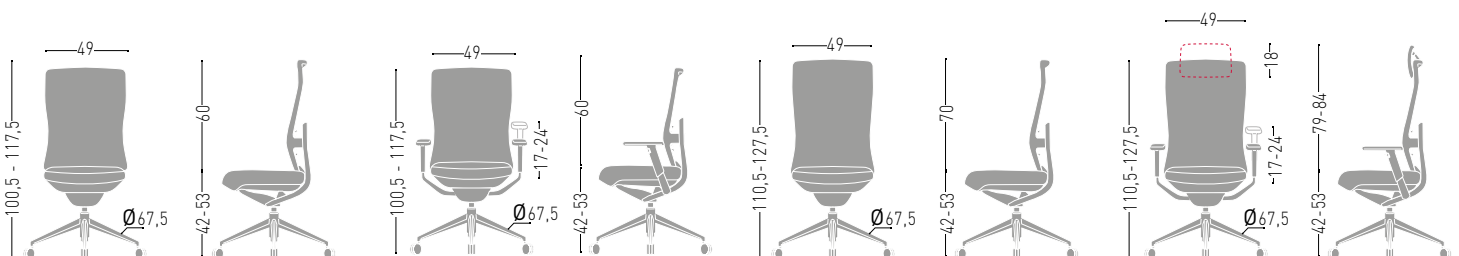
■ **DIMENSIONS**

Standard Backrest

Total height: from 1005 to 1175 mm    Seat height: from 420 to 530 mm  
Total width: 675 mm    Seat width: 490 mm  
Total depth: 675 mm    Seat depth: from 420 to 460 mm

High backrest

Total height: from 1105 to 1275 mm    Seat height: from 420 to 530 mm  
Total width: 675 mm    Seat width: 490 mm  
Total depth: 675 mm    Seat depth: from 420 to 460 mm



\*Measures according to UNE-EN 1335-1

optional headrest



**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.

**50,66%**  
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.

**77,33%**  
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 FLEX** 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 1335-2:09.** Office Furniture. Office Chair. Part 2: Security requirements
- **UNE-EN 1335-3:09.** Office Furniture. Office chair. Part 3: Security essays.
- **BS 5459-2:2000 + A2:2008.** Specification for performance requirements and tests for office furniture. Office pedestal seating for use by persons weighing up to 150kg and for use up to 24 hours a day, including type-approval tests for individual components.

■ **DESCRIPTION**

- ① Perimeter frame injected with Polypropylene + fiberglass.
- ② High tenacity technical mesh.  
Finishes: **NET, PLUS and HARLEQUÍN**
- ③ Back elevation system and adaptable lumbar support.
- ④ Height Adjustable arms. PA + FV cane. **PP** support.  
Adjustable 3D arms. PA + FV cane. **PUR** support.
- ⑤ 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).
- ⑥ Gas lift.
- ⑦ Five-star base.
  - Polyamide (PA) - Ø 67,5 cm.
  - Aluminium - Ø 67,5 cm.
- ⑧ Silent polyamide castor (PA6) with teflon tread in TPU.
- ⑨ Optional adaptive headrest made Technical Mesh.  
*(Only for model with high backrest)*



■ **BACKREST**

NET, PLUS, and Group H-Harlequin.  
(PLEASE SEE FINISHES AND FABRICS)

■ **SEAT**

Group T-C, Group M-Melange, Group N, Group H-Harlequin,  
Group G-Omega 3D y Group F-Atlantic.  
(PLEASE SEE FINISHES AND FABRICS)

■ **BASES AND CASTORS**

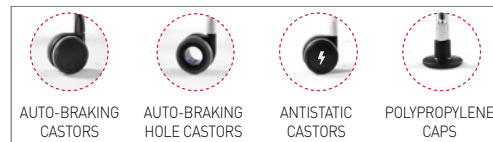


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**OPTIONAL ACCESSORIES**



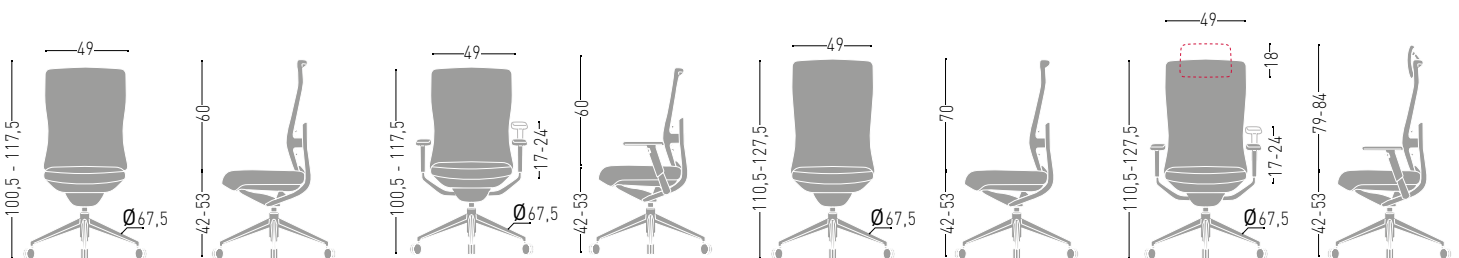
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optional headrest





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**EASY**  
TO CLEAN  
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**DISPOSAL**

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

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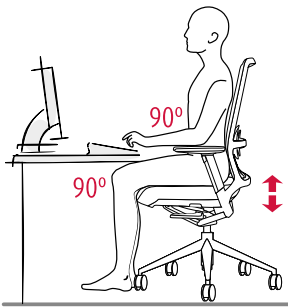
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**1 A correct posture at work to avoid physical problems.**

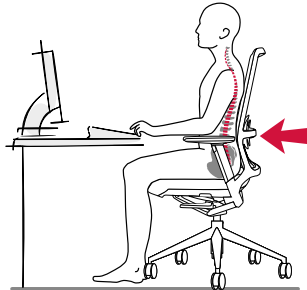
**Seat adjustment.**

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.



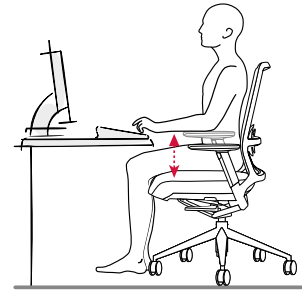
**Adjustable arms (5 positions)**

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.



**Lumbar Support Adjustment**

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



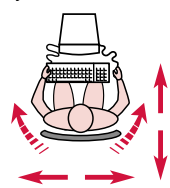
**2 Different ergonomics conditions and specific mobility for each task.**

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.

