Forma 5

TECHNICAL FEATURES

GARBO

SWIVEL ARMCHAIR | LOW BACKREST

Backrest
Polylaminated beech inner structure.
High density polyurethane foam

Arms
Polypropylene outer shell
injected and leather upholstered

Join seat and backrest
"U" shape curved
beech polylaminated

Seat
Beech polylaminated wooden inner structure
upholstered polyurethane injected outer foam

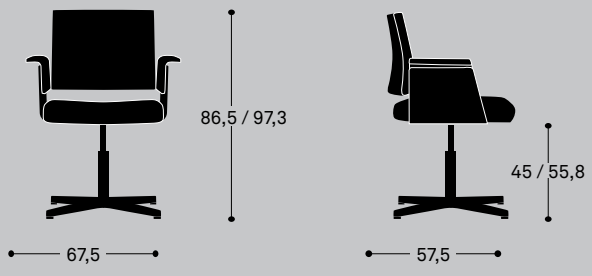
Base
Polyamide star base
Polished aluminium star base

Mechanism
Tilting or oscilo tiltint

Ø 65 mm casters
Double wheel
Soft double wheel

DIMENSIONS

	Low backrest
Height	**86,5 / 97,3** cm
Seat height	**45 / 55,8** cm
Width	**67,5** cm
Depth	**57,5** cm
Weight	**18,66** kg
Fabric meters	**1,25** m
Fabric meters (arms)	**0,37** m



Dimensions in centimeters

SWIVEL ARMCHAIR | HIGH BACKREST

Backrest
Polylaminated beech inner structure.
High density polyurethane foam

Arms
Polypropylene outer shell
injected and leather upholstered

Join seat and backrest
"U" shape curved
beech polylaminated

Seat
Beech polylaminated wooden inner structure
upholstered polyurethane injected outer foam

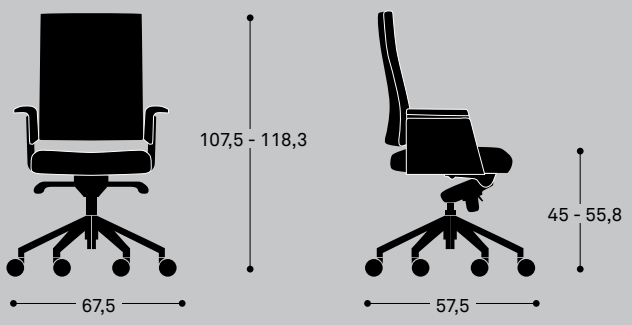
Base
Polyamide star base
Polished aluminium star base

Mechanism
Tilting or oscilo tiltint

Ø 65 mm casters
Double wheel
Soft double wheel

DIMENSIONS

	High backrest
Height	107,5 / 118,3 cm
Seat height	45 / 55,8 cm
Width	67,5 cm
Depth	57,5 cm
Weight	21,2 kg
Fabric meters	1,4 m
Fabric meters (arms)	0,37 m



Dimensions in centimeters

SWIVEL VISITOR ARMCHAIR

Backrest
Polylaminated beech inner structure.
High density polyurethane foam

Arms
Polypropylene outer shell
injected and leather upholstered

Mechanism
Chromed auto-return lift

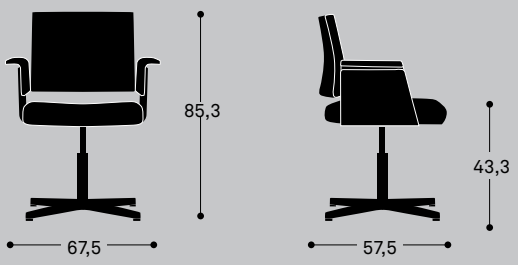
Seat
Beech polylaminated wooden inner structure
upholstered polyurethane injected outer foam

Glide
Black polypropylene

Base
Polished aluminium star base
4 points polished aluminium flat base

DIMENSIONS

Height	85,3 cm
Seat height	43,3 cm
Width	67,5 cm
Depth	57,5 cm
Weight	18 kg
Fabric meters	1,25 m
Fabric meters (arms)	0,37 m



Dimensions in centimeters

BACKREST

Quadrangular anatomic backrest with inner structure made of pressed polylaminated foam that works as support to the high density polyurethane foam. High density polyurethane foam (25 kg/m^3). Reinforced on its whole perimeter with higher density foam to highlight the upholstery. High or low backrest. Low backrest also for the visitor armchair.

Upholstered high backrest

Structure arms + backrest

SEAT

Polyurethane injected foam seat (25 kg/m^3 density) with pressed beech polylaminated inner structure later upholstered. Both, backrest and seat, are joined by an “U” shape structure made of curved wood of pressed polylaminated beech with different finishes:. One piece of chromed injection zamak connects seat and backrest and finish the armchair.

Upholstered seat

ARM

The arm, made in upholstered injected polypropylene, always leather, is joined to the structure by an injected polyamide support.

Arm

MECHANISM [swivel chairs]

BASCULANTE: swivel-tilt mechanism to lean the backrest, always keeping a constant angle regarding the seat.
Tilt angle up to 13,5º and fixation in the desired position. Leaning pressure adjustment.
Backrest leaning hardness adjustment, this is the necessary force to move it.
Height adjustment (gas lift) through a lever for an optimal use.

BASCULANTE OSCILO: tilt Mechanism to lean the backrest, keeping a constant angle with the seat. Leaning angle up to 16º. 4 blocking positions.
Backrest leaning tension adjustment through a lever placed at the mechanism’s side, providing easy access and ergonomics. Forwarded rotational axis. Polished aluminium shell.
Height adjustment (gas lift).

BASE

POLYAMIDE STAR BASE. 69 cm diameter. 5 trapezoidal branches with rounded corners.

Plyamide star base

POLISHED ALUMINIUM STAR BASE. 69 cm diameter. 5 trapezoidal branches with rounded corners.

Polished aluminium star base

FLAT BASE (visitor chair): polished aluminium flat geometry base with 4 floor supports. The arms have a rectangular section finished by four polypropylene glides. The outer diameter of the base is 70 cm.

When these bases (polished aluminium Star base or Flat base) are installed on visitor armchairs they always have levellers and a chromed auto-return lift.

Polished aluminium flat base

FLOOR SUPPORT

65mm double wheel casters

65mm soft double wheel casters

Black polypropylene glide

PACKAGING

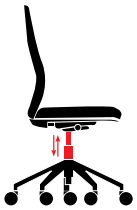
The armchair is delivered completely assembled with plastic protection. Consult.

UPHOLSTERY

Backrest and seat available for all the fabrics range of Forma 5, including a wide range of fabrics (yarn, fireproof fabrics) and leathers Consult fabrics brochure and Forma 5 Pricelist.
The Group 1, 2, 3 and 5 fabrics of Forma 5 are supplied by the manufacturer company Camira. Although our fabrics brochure includes a selection of the Camira fabrics, if the customer requires another specific, Forma 5 will upholster any of its fabrics in any fabric from Camira catalog.

ERGONOMICS

TAKING CARE OF OUR BODY DOES NOT ONLY DEPEND ON GOOD NUTRITIONAL HABITS AND SPORT. THERE ARE OTHER FACTORS THAT CAN INFLUENCE HEALTH, LIKE A CORRECT POSITION AT THE WORKSTATION. FOR THIS REASON, TO KEEP THE BODY IN A GOOD SHAPE AND FREE OF PHYSICAL DISORDERS IS NECESSARY TO HAVE GOOD FURNITURE AND USE IT CORRECTLY.



CHAIR WITH HEIGHT ADJUSTMENT

Chairs should have an option to lift or lower the seat's height, through a mechanical or a pneumatic system. The position will be the correct one, when the feet rest firmly on the floor and the thighs remain in a horizontal position.
The mechanism should be easily accessible from a seating position.

LUMBAR ADJUSTMENT

Many chairs are designed with an adjustable back support. It is very suitable that this backrest may regulate the movements to the front and to the back, allowing to free or block the mechanism as desired. Many chairs also include a mechanism to adjust the chair curve to that of the back, providing a better comfort to the user.

SEAT CONSISTENCY

We spend a long time on the seat, so this one
should provide firmness and adapt to the user's
features. Both the high density foam and the
injected foam are very resistant, durable and
comfortable.

SEAT AND BACKREST LEANING

The chair should include a mechanism to control the seat leaning movement and keep a well-balanced position at work. The tilt is very extended one, but there are other versions which are more advanced, like the Oscilo Tilt.

5 BRANCHES BASE

To facilitate a movement with less effort and to provide the chair stability and firmness, the base should have 5 support points for the casters.

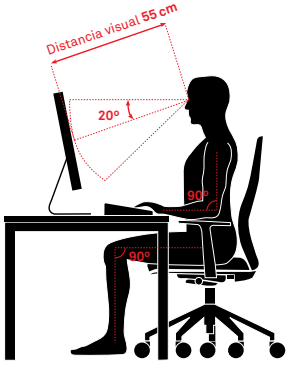
ADJUSTABLE ARMS

El apoyo de los brazos es fundamental para mantener una buena postura y no sobrecargar los brazos, además de servir para tomar asiento y levantarse del mismo.

UPHOLSTERY

The upholstery should be chosen depending on the chair location and the environmental conditions.

CONSIDERING THE ABOVE MENTIONED ADVICES, HERE ARE SOME COMMENTS ABOUT THE POSITION TO BE ADOPTED WHILE SEATING AT WORK



1. The distance between the screen and the eyes should be at
least 55 centimeters. The screen should also be located in front
of the used and not on one side.
2. The upper side of the screen should be located at eye level.
3. Thighs should be horizontal regarding the seat and the feet
should rest firmly on the floor, having enough space below the desk.
4. Breaks should be done often for muscle stretching and moving,
changing the position every once in a while.
5. Eyes should rest often, so that we do not get eyetstrain. For
example, focusing on different places and distant objects.

Life Cycle Analysis
Program Garbo

RAW MATERIALS		
Raw Material	Kg	%
Steel	3,27 Kg	18%
Plastic	0,61 Kg	3%
Aluminium	2,3 Kg	13%
Uphols./Fulling	0,90 Kg	5 %
Wood	10,80 Kg	61%

% Recycled materials= 42%
% Recyclable materials= 81%

Ecodesign

Results reached during the life cycle stages

MATERIALS

Steel
15%-99% recycled material.

Plastic
30%-40% recycled material.

Aluminium
60% recycled material.

Staff material
Without HCFC and certified by Okotext.

Upholsteries
Without COV emissions and certified by Okotext.

Packings
100% recyclable with inks with no solvents.

PRODUCTION

Raw materials use optimization
Board, upholstery and steel tubes cut.

Renewable energies use
reducing the CO2 emissions. (Photovoltaic pannels)

Energy saving measures
in all production process

COV global emission reduction
of the production processes by 70%.

Podwer painting
ecovery of 93% of the non deposited painting

Glue removal from the upholstery

The facilities
have an internal sewage for liquid waste.

Green points
at the factory

100% waste recycling
at production process ans dangerous waste special treatment.

TRANSPORT

Cardboard use opmitization
of the packings

Cardboard and packing materials use reduction

Flat packings and small bulks
to optimize the space.

Solid waste compacter
which reduces transport and emissions.

Light volumes and weights

Transport fleet renewal
reducing by 28% the fuel consumption.

Suppliers area reduction
Local market power and less pollution at transport.

USE

Easy maintenance and cleaning
without solvents.

Forma 5 guarantee

The highest quality
for materials to provide a 10 year average life of the product.

Useful life optimization
of the product due to a standarized and modular design.

The boards
with no E1 particle emission.

END LIFE

Easy unpacking
for the recyclability or compound reuse.

Piece standarization
for the use.

Recycled materials used for products (% recyclability):
Wood is 100% recyclable.
Steel is 100% recyclable.
Aluminium is 100% recyclable.

With no air or water pollution
while removing waste.

Returnable, recyclable and reusable packing

Product recyclability 81%

CHAIR MAINTENANCE AND CLEANING GUIDE

LINES FOR A CORRECT CHAIR CLEANING AND MAINTENANCE, CONSIDERING THE DIFFERENT MATERIALS:

FABRICS

1. Vacuum often.
2. Rub the dirty spot with a wet cloth with PH neutral soap.
   Test first on a hidden spot.
3. Dry foam for carpets can be alternativaly used.

PLASTIC PIECES

Rub the dirty spots with a wet cloth with PH neutral soap.

Do not use abrasive products in any case.

METAL PIECES

1. Rub the dirty spots with a wet cloth with PH neutral soap.
2. Polished aluminium pieces can have their polish bak by
   covering and rubbing them with a dry cottom cloth.

LEGAL TERMS

CERTIFICATES

Forma 5 certificates that the Garbo program has passed all tests provided by our intern Quality Department and by the Technological Research Center (Tecnalia) with “satisfactory results:

UNE-EN 16139:2013: “Furniture - Strength, Durability And Safety - Requirements For Non-Domestic Seating”
UNE-EN 1335-3:2009: “ Office work chair. Test methods”.
UNE-EN 1728:2013: “Furniture Seating Test methods for the determination of strength and durability”

Developed by Tandem Company