

Sense
Office Chair

asset
space becomes place

Forma 5

TECHNICAL FEATURES

SENSE



SWIVEL CHAIR | MESH BACKREST

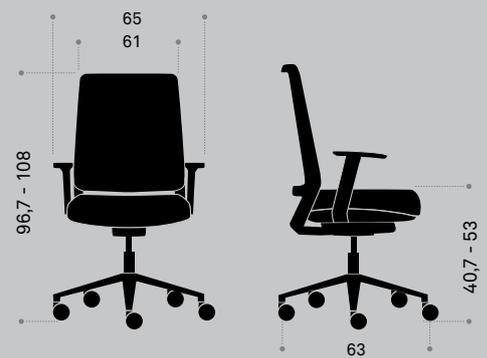
For anti-electrostatic solutions, please ask us the conditions.



DIMENSIONS

Height	95,7 - 108 cm
Seat height	40,7 - 53 cm
Width (without arms/ with arms)	61/ 65 cm
Depth	57 cm
Fabric meters	0,55 m
Weight	20,89 Kg

* These minimum and maximum dimensions depend on the chosen configuration. Please ask for concrete values in case you need them.



Dimensions in centimeters

SWIVEL CHAIR | MESH BACKREST WITH HEADREST

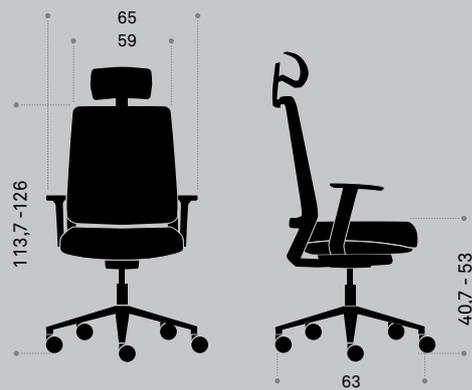


DIMENSIONS

Height	113,7 - 126 cm
Seat height	40,7 - 53 cm
Width (without arms/ with arms)	61/ 65 cm
Depth	59 cm
Fabric meters	0,65 m
Weight	21,55 Kg

* These minimum and maximum dimensions depend on the chosen configuration. Please ask for concrete values in case you need them.

Forma 5



Dimensions in centimeters

MESH BACKREST

Rectangular polyamide back frame and polypropylene front frame that supports a breathable technical mesh (Meci) backrest.

Optional height adjustable headrest (60 mm adjustment with 7 setpoints) and inclination (tilt angle 125° and 5 positions that increase or decrease 25 ° each) made of upholstered polyurethane foam. The headrest consists of a polyamide bracket and polypropylene plate incorporates a polyurethane foam density 70 kg/m³ and is upholstered in the same fabric and color as the seat. The headrest structure will be always in black, regardless of the colour of backrest frame.



Mesh backrest

LUMBAR SUPPORT

Lumbar support formed by separate pieces of polyamide with 30% glass microspheres, vertically adjustable and the possibility of asymmetric adjustment ensuring permanent contact in the lower back. The pieces generate a tension in the mesh which is the working principle of the system.



Asymmetric lumbar support

SEAT

It is formed by a wooden particle structure, which is injected in a 14 mm thick metal mold and drilled to fix the arms and the mechanism. A polyurethane flexible foam layer is over-injected on the wooden support and is later on upholstered. The foam is 45 mm thick and has a 65 kg/m³ density. It is finished with a 3 mm thick polypropylene shell at the inner side.



ARMS



Black fixed arm



Polar white fixed arm



1D adjustable arm



3D adjustable polyamide arm support



3D adjustable aluminium arm support. Black.



3D adjustable aluminium arm support. White.



4D adjustable arm

The chair may be ordered without arms optionally. They have ergonomic qualities for a better rest of the arms.

Fixed: Fixed: “T” shape polypropylene fixed arms. Black or white.

1D adjustable: with polypropylene structure and polyurethane armpads. Easy adjustment of height. Dimensions: 250 x 90 mm.

3D adjustable polyamide arm support: with polyamide structure reinforced with fiberglass and soft-touch polyurethane armrest. Easy adjustment of height, depth and turn.

3D adjustable aluminium arm support: with injected aluminium structure and polyurethane armpads. Easy adjustment of height, depth and turn. Black or white.

4D adjustable: with injected aluminium structure and polypropylene armrests. Easy adjustment: height, depth, width and rotation. 235 x 105 mm.

ELEMENT DESCRIPTION

MECHANISM [swivel chairs]

GAS: height adjustment by gas with lift.

SLIDING SEAT: optional seat depth adjustment for all the swivel chairs.



SYNCHRO ATOM: rotation of the backrest relative to the seat, with the rotation center located above the seat surface, ensuring an optimal movement during the reclination. Height adjustment by a handle. The mechanism tension adapts automatically to the weight of the user (for people between 45 and 110 kg). The backrest may be fixed by using a handle. As option, there are five different positions to adjust the seat depth or Trasla.



SYNCHRO MOTION: 24° backrest leaning and 10° on the seat. Backrest leaning and seat rotation according to a 2,4:1 fixed ratio. Backrest tension or hardness adjustment. Easy adjustment with only two turns. The resistance of the knob is constant, regardless of reduce or increase the tension. Infinite tension positions of the backrest for an optimal adjustment to users between 45 and 120 kg. Forward rotation axis that prevents for pressure on the user's legs. 4 blocking positions of the backrest with anti-return protection. Discrete aesthetic that favors the chair.

BASE

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

POLISHED ALUMINIUM OR WHITE ALUMINIUM STAR: 69 cm diameter. 5 trapezoidal branches with rounded corners. Finishes in aluminium or polar white.



Star 69 base



Polished aluminium Star base



White painted aluminium Star base

FLOOR SUPPORT

Two options for floor support:



Double-wheel 65 mm



Soft double-wheel 65 mm

UPHOLSTERY

Seat available for all the fabrics range of Forma 5, including a wide range of fabrics (yarn, fireproof fabrics) and leathers. Backrest available with mesh or all the range of Forma 5 fabrics. 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.

PACKING

As standard, the chair goes assembled and protected with a plastic packing. For further packaging options, please ask us.

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 IT IS NECESSARY TO HAVE GOOD FURNITURE AND KNOW HOW TO 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.



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 synchro system is the most extended one, but there are other versions which are more advanced, like the Atom synchro. This last one is a Forma 5 exclusive and it self-adjusts to the user's weight



LUMBAR ADJUSTMENT

Many chairs are designed with an adjustable back support. It is desirable that the backrest may be regulated allowing either free movement or to block the mechanism as desired. Many chairs also include a mechanism to adjust the curvature of the back of the chair providing better comfort and lumbar support.



5 BRANCHES BASE

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



SEAT CONSISTENCY

We spend a long time on the seat, so it 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.



ADJUSTABLE ARMS

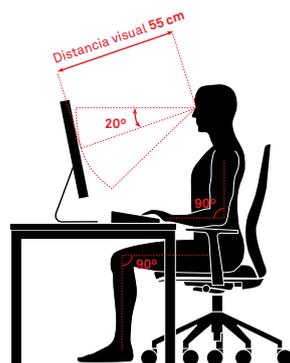
The user can enjoy several versions of the arm; fixed, 1D, 2D, 3D and 4D. If arm rests are utilised they can help relieve pressure on the lower spine.



UPHOLSTERY

The upholstery should be chosen depending on aesthetic, location and the environmental conditions under which the chair will be subjected to.

CONSIDERING THE ABOVE MENTIONED FEATURES, 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 user and not on one side.
- 2 The upper side of the screen should be located at eye level.
- 3 Thighs should be horizontal. Feet should rest firmly on the floor, having enough space below the desk.
- 4 Breaks should be done often for muscle stretching and moving. Users must change their position every once in a while.
- 5 Eyes should be rested often, so to avoid eyestrain. For example, focusing on different places and distant objects.



Life Cycle Analysis
SENSE PROGRAM



RAW MATERIALS		
Raw Material	Kg	%
Steel	9,18 Kg	45%
Plastic	4,69 Kg	23%
Aluminium	3,26 Kg	16%
Wood	2,45 Kg	12 %
Uphols./Fulling	0,81 Kg	4 %

% Recycled materials= 49%
 % Recyclable materials= 94%

Ecodesign

Results reached during the life cycle stages



MATERIALS

Steel
 15%-99% recycled material.

Aluminium
 60% recycled material.

Plastic
 30%-40% 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% recycable.

Plastics are from 70 to 100% recyclable.

With no air or water pollution

while removing waste.

Returnable, recyclable and reusable packing

Product recyclability 94%

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 alternatively 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 certifies that the Sense program has passed all tests provided by our intern Quality Department, as well as the Technological Research Center (TECNALIA) with "satisfactory" results:

UNE-EN 1335-1-2001: Office furniture. Task chairs for offices. Part 1: Dimensions. Defining the dimensions.

UNE-EN 1335-2-2009: Office furniture. Task chairs for offices. Part 2: Security requirements.

UNE-EN 1335-3-2009: Office furniture. Task chairs for offices. Part 3: Security testing methods.

Developped by JOSEP LLUSCÀ

