

Forma 5

TECHNICAL FEATURES

SPOT



SWIVEL CHAIR | LOW BACKREST

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

Backrest frame

Polyamide and polypropylene structure

Backrest

Mesh backrest, 3D mesh backrest or upholstered foam backrest

Arms

Without arms
Fixed arms
1D adjustable arms
3D adjustable arms
4D adjustable arms

Height backrest adjustment

Seat

External polyamide shell and upholstered injected polyurethane foam

Optional Sliding Seat

Base

Polished aluminium and white star D69 cm base
Polyamide star D69 cm base

Mechanism

Synchro Atom
Synchro Motion

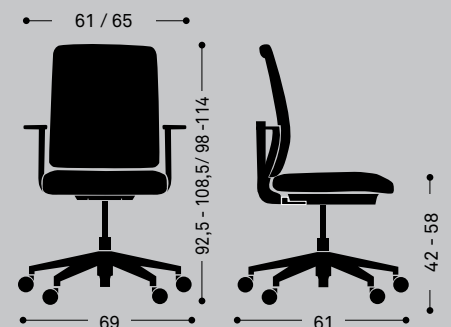
Casters

Hard or soft double wheel casters

DIMENSIONS

	Low backrest
Height* (with/without adjusted backrest)	92,5 - 108,5/98 -114 cm
Seat height *	42 - 58 cm
Width (without arms / with arms)	61 / 65 cm
Depth	61 cm
Fabric meters (mesh / upholstered)	0,72 / 1,87 m
Weight *(mesh / upholstered)	15,58 / 16,50kg

* These minimum and maximum dimensions depend on the chosen configuration (mechanisms, bases, casters...). Please ask for concrete values in case you need them.



Dimensions in centimeters

SWIVEL CHAIR | HIGH BACKREST

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

Backrest frame
Polyamide and polypropylene structure

Adjustable headrest
Upholstered or mesh headrest, in option

Backrest
Mesh backrest, 3D mesh backrest or upholstered foam backrest

Arms

- Without arms
- Fixed arms
- 1D adjustable arms
- 3D adjustable arms
- 4D adjustable arms

Height backrest adjustment

Seat
External polyamide shell and upholstered injected polyurethane foam

Optional Sliding Seat

Base
Polished aluminium and white star D69 cm base
Polyamide star D69 cm base

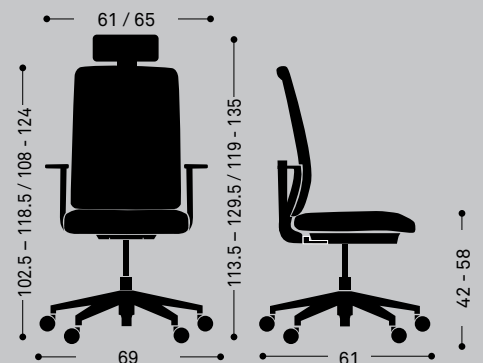
Mechanism
Synchro Atom
Synchro Motion

Casters
Hard or soft double wheel casters

DIMENSIONS

	High backrest	High backrest with headrest
Height* (with/without adjusted backrest)	102,5 - 118,5 / 108 - 124 cm	113,5 - 129,5 / 119 - 135 cm
Seat height *	42 - 58 cm	42 - 58 cm
Width (without arms / with arms)	61 / 65 cm	61 / 65 cm
Depth	61 cm	61 cm
Fabric meters (mesh / upholstered)	0,72 / 1,96 m	0,87 / - m
Weight *(mesh / upholstered)	15,9 / 16,82kg	16 kg

* These minimum and maximum dimensions depend on the chosen configuration (mechanisms, bases, casters...). Please ask for concrete values in case you need them.



Dimensions in centimeters

BACKREST AND SEAT

BACKREST: rectangular shape with rounded edges and vertexes. Polyamide and polypropylene injected structure. Breathable Meci or 3D mesh (mesh option) or covered by an upholstered and injected foam density 70 kg/m³ (upholstered option). The 3 versions include an optional lumbar support, accessed from the back. The backrest is supported by a polyamide frame that allows the backrest adjustment 55 mm. Optional height adjustable headrest (60 mm adjustment with 7 setpoints) and inclination (tilt angle 125° and 5 positions that increase or decrease 25° each one) and upholstered in fabric or mesh. 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.



Meci mesh backrest



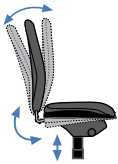
3D mesh backrest



Upholstered foam backrest

SEAT: wooden structure, moulding and mechanised, to support the arms and the mechanism. Flexible polyurethane foam injected with density 68 kg/m³ and upholstered over the wooden structure. Polypropylene shell underneath.

MECHANISM



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. 5 blocking positions of the backrest with anti-return protection. Discrete aesthetic that favors the chair.



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 leaning. 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 Traslá.

ARMS

The chair may be ordered without arms optionally. They have ergonomic qualities for a better rest of the arms. 2 options are offered:

Fixed: Fixed: "T" shape polypropylene fixed arms.

1D adjustable: with polypropylene structure and polyurethane arm pads. 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 arm pads. Easy adjustment of height, depth and turn.

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



Fixed arm



1D adjustable arm



3D adjustable polyamide arm support



3D adjustable aluminium arm support



4D adjustable arm

ELEMENT DESCRIPTION

BASE

POLYAMIDE STAR: 64 or 69 cm diameter. 5 trapezoidal branches with rounded corners.

POLISHED ALUMINIUM OR WHITE ALUMINIUM STAR: 64 or 69 cm diameter. 5 trapezoidal branches with rounded corners.



Polyamide star D69cm base



Polished aluminium star D69cm base



White painted aluminium star D69cm base

FLOOR SUPPORT



65 mm double wheel casters



65 mm soft double wheel casters

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 all the range of Forma 5 fabrics. Consult fabrics brochure and Forma 5 Pricelist.

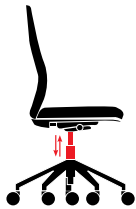
The Group 1, 2, 3 and 5 fabrics of Forma 5 are supplied by the manufacturer company Camira. Although our fabrics brochure includes a selection of the Camira fabrics, if the customer requires another specific, Forma 5 will upholster any of its fabrics in any fabric from Camira catalog.

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 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.



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 Forma 5 exclusive and it self-adjusts to the user's weight



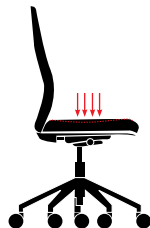
LUMBAR ADJUSTMENT

Many chairs are designed with an adjustable back support. It is 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.



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.



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.



ADJUSTABLE ARMS

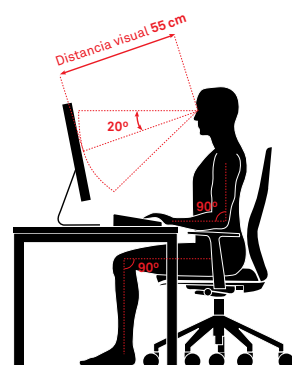
El apoyo de los brazos es fundamental para mantener una buena postura y no sobrecargar los brazos, además de servir para tomar asiento y levantarse del mismo.



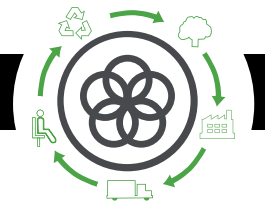
UPHOLSTERY

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 eyestrain. For example, focusing on different places and distant objects.



Life Cycle Analysis

SPOT PROGRAM



RAW MATERIALS		
Raw Material	Kg	%
Steel	7,75 Kg	48%
Plastic	7,89 Kg	49%
Uphols./Fulling	0,47 Kg	3%

% Recycled materials= 42%
 % Recyclable materials= 86%

Ecodesign

Results reached during the life cycle stages



MATERIALS

Steel
 15%-99% recycled material.

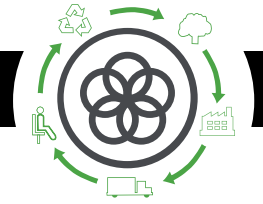
Plastic
 30%-40% recycled material.

Staff material
 Without HCFC and certified by Okotext.

Paintings
 Powder painting without COV emissions.

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

ecoverly 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):

Steel is 100% recyclable.

Plastics are from 70 to 100% recyclable.

With no air or water pollution

while removing waste.

Returnable, recyclable and reusable packing

Product recyclability 86%

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 back by covering and rubbing them with a dry cotton cloth.

LEGAL TERMS

CERTIFICATES

Forma 5 certifies that the Spot 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.

Developed by JOSEP LLUSCÀ