

**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

## Height backrest adjustment

## Arms

Without arms  
Fixed arms

1D adjustable arms  
3D adjustable arms  
4D adjustable arms

## Seat

External polyamide shell and upholstered injected polyurethane foam

## Base

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

## Mechanism

Synchro Atom  
Synchro Motion

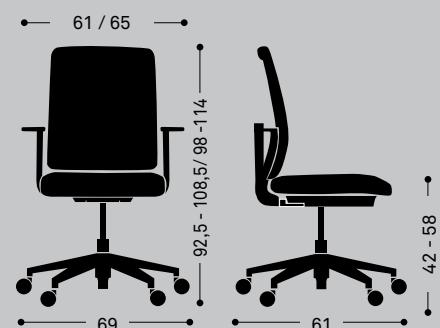
## Casters

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

## Height backrest adjustment

## Backrest

Mesh backrest, 3D mesh backrest or upholstered foam backrest

## Arms

Without arms  
Fixed arms

1D adjustable arms  
3D adjustable arms  
4D adjustable arms

## Base

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

**Mechanism**  
Synchro Atom  
Synchro Motion

## Casters

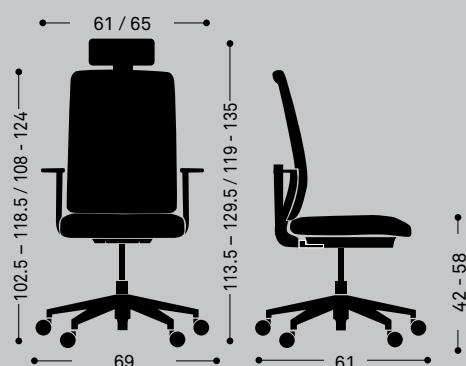
Hard or soft double wheel casters

	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

## 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

## ELEMENT DESCRIPTION

### 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/m<sup>3</sup> (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/m<sup>3</sup> 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/m<sup>3</sup> 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 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 Trasla.

### 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.



Fixed arm



1D adjustable arm

**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 polyamide arm support



3D adjustable aluminium arm support

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



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

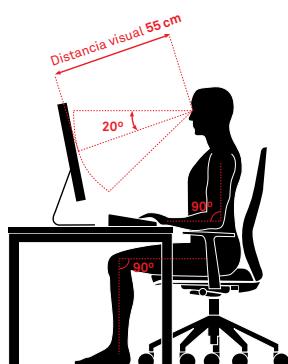
El apoyo de los brazos es fundamental para mantener una buena postura y no sobrecargar los brazos, además de servir para tomar asiento y levantarse del mismo.



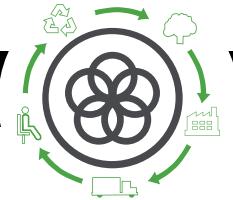
## UPHOLSTERY

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**

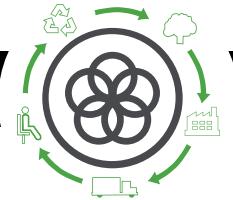
Powder painting without COV emissions.

**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 panels)

### Energy saving measures

in all production process

### COV global emission reduction

of the production processes by 70%.

### Podwer painting

ecoyer 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

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- 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.

## METAL PIECES

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

## PLASTIC PIECES

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

Do not use abrasive products in any case.

## LEGAL TERMS

### CERTIFICATES

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Forma 5 certifies that the Spot program has passed all tests provided by our internal 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