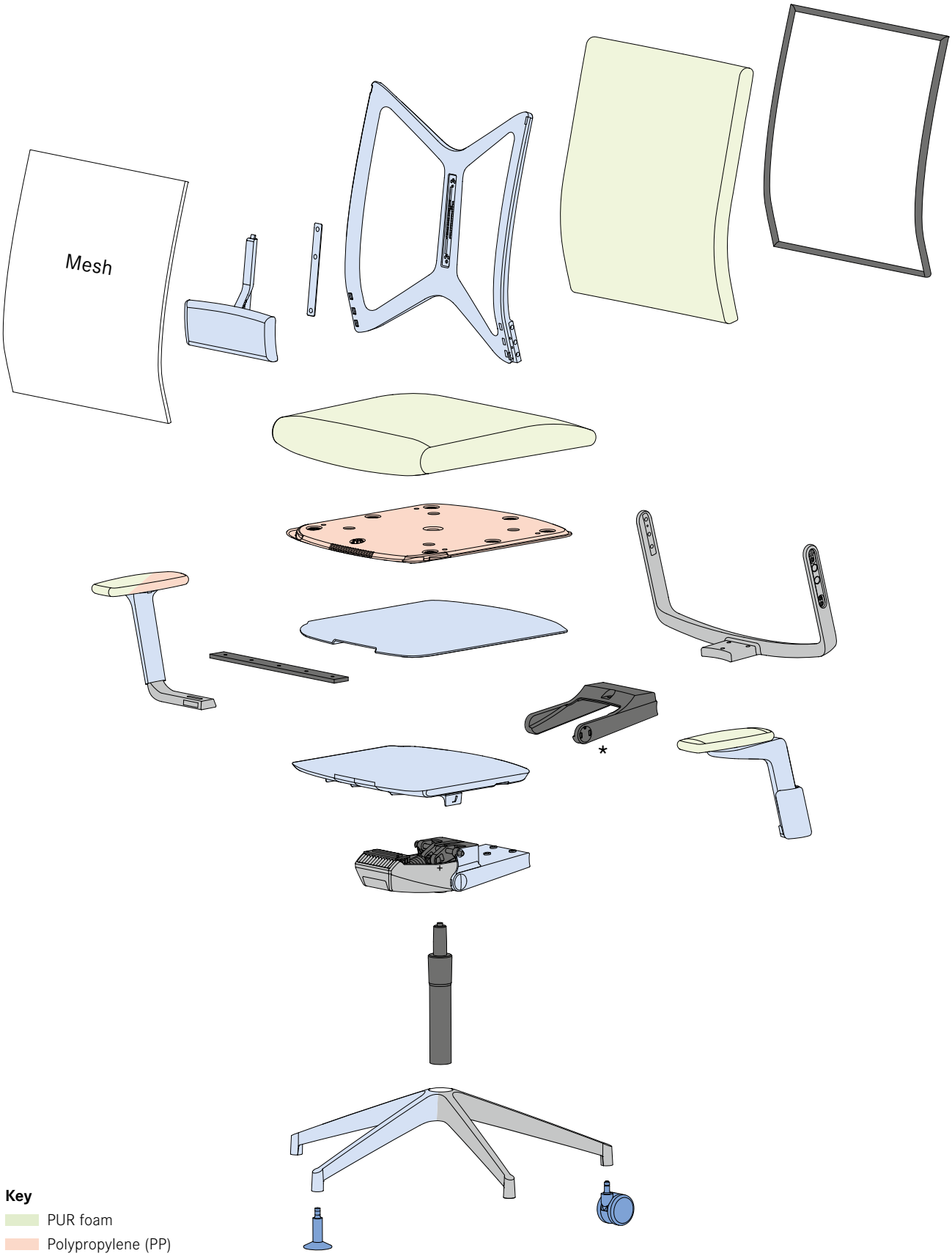
Material



Key

- PUR foam
- Polypropylene (PP)
- Polyamide PA6
- Polyamide PA6 reinforced with fiber glass
- Aluminium
- Steel parts – coated

* Only with the option «Extended seat depth adjustment to 100 mm»

girsberger

Materials

The way in which Camiro is constructed allows the chair to be dismantled at the end of its working life in order to recycle most of the parts. A detailed list of the materials used follows:

Polyamide PA6 reinforced with 10–50% fiber glass

Properties: The flash point of the material lies at 400 °C. The ignition temperature lies at 450 °C. Thermal decomposition occurs when the part is subjected to a temperature of 350 °C.

Recycling: Yes – the parts can be recycled.

System parts: lumbar pad, lumbar control, cover plate, clamp lever, cover, fixing plate, armrest slider, armrest flap, toothed track, clip, covers, sliding seat, five-prong base, back frame, upholstery shell, mechanism

Polyamide (PA6/PA6.6)

Properties: The flash point of the material lies at 400 °C. The ignition temperature lies at 450 °C. Thermal decomposition occurs when the part is subjected to a temperature of 350 °C.

Recycling: Yes – the parts can be recycled.

System parts: Castors, glides, backrest support cover, slideway

Steel parts

Properties: The parts are of very high strength with regard to breakage, traction, torsion and bending. The level of strength is higher or lower, depending on the quality grade. The parts are corrosionresistant after electroplating. Thermal decomposition occurs when the part is subjected to a temperature of 1100 °C.

Recycling: Yes – the parts can be recycled.

System parts: Bolts, springs, washers, screws, armrest traverse, upholstery sheet metal, guide plate

Steel parts – coated (resin)

Properties: The parts are of very high strength with regard to breakage, traction, torsion and bending. The level of strength is higher or lower, depending on the quality grade. The parts are corrosionresistant after electroplating. Epoxy resin powder is used to coat the parts. Thermal decomposition occurs when the part is subjected to a temperature of 1100 °C.

Recycling: Yes – the parts can be recycled.

System parts: Coat hanger, screws, washers, height column, spacers, counterweight, backframe, fixing bar, cover plate, mechanism

Aluminium (pressure die casting) coated and polished

Properties: The alloy corresponds to the DIN 1706 standard. Aluminium die casting has a high level of strength, is easily shaped and offers several finishing methods. There are different polishing levels as well as different epoxy resin powder coatings in an extensive range of colours.

Recycling: Yes – the parts can be recycled.

System parts: Mechanism, five-prong base, armrest support, back support

PUR foam

Properties: All PUR foam parts (polyurethane) in versions made of cold cured foam or integral foam are produced without any CFCs and are created by means of a polyaddition reaction of isocyanate and polyether polyol. This results in cellular material with elastic properties. Thermal decomposition takes place at a temperature of over 180 °C, and the ignition temperature is between 315 °C and 370 °C.

Recycling: Yes, the parts can be sent for either materials or thermal recycling.

System parts: Armrest cushion, seat cushion, back cushion, lumbar support cushion

Polyoxymethylene (POM)

Properties: The flash point of the material lies at 370 °C. The ignition temperature lies at 400 °C. Thermal decomposition occurs when the part is subjected to a temperature of 220 °C.

Recycling: Yes – the parts can be recycled.

System parts: Slot nut, guide component, pressure fitting

Acrylonitrile-Butadiene-Styrene (ABS)

Properties: The flash point is not applicable. The ignition temperature lies at 330 °C. Thermal decomposition occurs when the part is subjected to a temperature of 300–320 °C.

Recycling: Yes – the parts can be recycled.

System parts: Armrest cap, cap

Polypropylene (PP)

Properties: The flash point is not applicable. The ignition temperature lies at 330 °C. Thermal decomposition occurs when the part is subjected to a temperature of 300–320 °C.

Recycling: Yes – the parts can be recycled.

System parts: Flat strip

Polyester (PES)

Properties: Polyester fibers are flame-retardant. The bands comply with the Californian TB117 fire safety norm. Cutaneous tolerance of the material is good.

Recycling: Yes, when dry the adhesive can be processed along with the glued materials to produce filling material.

System parts: Lumbar support cover

Cover materials

Properties: Detailed information on the composition of materials can be found on the respective fabric and leather cards.

Recycling: Yes – some of the unblended cover fabrics made from natural fibers can be returned to the suppliers. There, the covers are shredded and reused to produce new fabric. Cover fabrics made from synthetic materials can be recycled. The methods used to tan and dye the leather covers allow them to be composted without problem.

System parts: Cloth and leather covers, woven polyester

Additional information – connections

Reflex is made from a large number of single parts. The parts are all mechanically joined (= can be dismounted, detached). These plug-in and screw connections allow the different types of material to be separated when the chair is dismantled.

Exception: The PU soft foam padding of the armrests is foamed together with its shell.

Additional information – material identification

The larger parts made of Polypropylene (PP), Polyamide (PA), Polyoxymethylene (POM) and Acrylonitrile-Butadiene-Styrene (ABS) are marked with the respective material identification code for recycling.

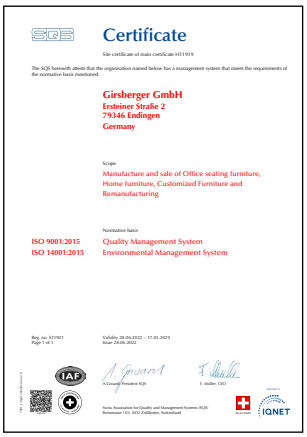
Certificates

Quality

Girsberger has extremely high quality assurance standards and is certified according to DIN EN ISO 9001.

Environment

Since 2007, Girsberger has operated an environmental management system certified to the EN ISO 14001 standard, which obliges us to continually improve our environmental performance. All materials used for the Camiro model series can be sorted into material types and recycled.


Certificate

Girsberger GmbH
Ersteiner Straße 2
79346 Endingen
Germany

Scope
Manufacture and sale of Office seating furniture, Home furniture, Customized Furniture and Remanufacturing

Normative basis
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System


Certificate

Girsberger AG
Bernstrasse 78
4922 Bützberg
Switzerland

Scope
Manufacture and sale of Office seating furniture, Home furniture, Customized Furniture, Remanufacturing and wood trade

Normative basis
ISO 9001:2015 Quality Management System
ISO 14001:2015 Environmental Management System

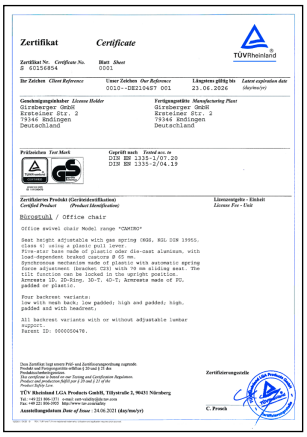
Functionality and safety

The design of the products in the Camiro model series conforms with the following standards:
EN 1335
EN 16139
NPR 1813

The safety of the Camiro product series has been tested and confirmed by TÜV LGA with the issue of the GS («safety approved») certificate.

Moreover, TÜV LGA has issued its «ergonomics approved» and LGA «tested for hazardous substances» certificates for the Camiro.

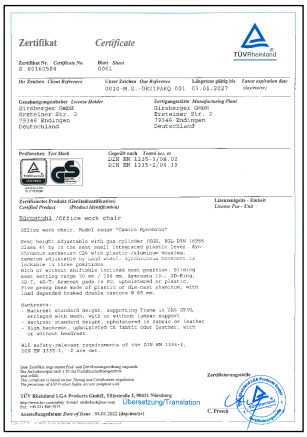
The «Quality Office» certificate from the BSO Verband (German association of office, seating and commercial furniture companies) and the Verwaltungs-Berufsgenossenschaft (German provider of statutory accident insurance) attests to the above-average quality of the Camiro model series.


Zertifikat / Certificate

TÜVRheinland

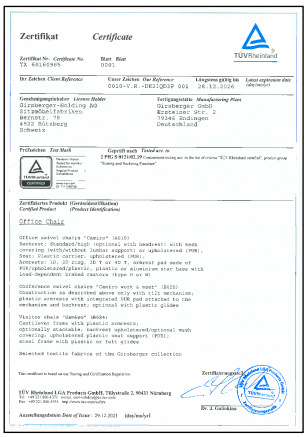
Bürodrehstuhl / Office chair

Übersetzung/Translation


Zertifikat / Certificate

TÜVRheinland

Bürodrehstuhl / Office work chair


Zertifikat / Certificate

TÜVRheinland

Office Chair

Design

In 2015, Girsberger won the red dot award for the design of the Camiro work&meet chair.

reddot award 2015
winner

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