

design made in germany

Wilkhahn

FS-Line.

21 range



FS-Line model 211/8
Frame bright chromium-plated

Design:
Klaus Franck, Werner Sauer





The FS-Line. An idea moves the world.

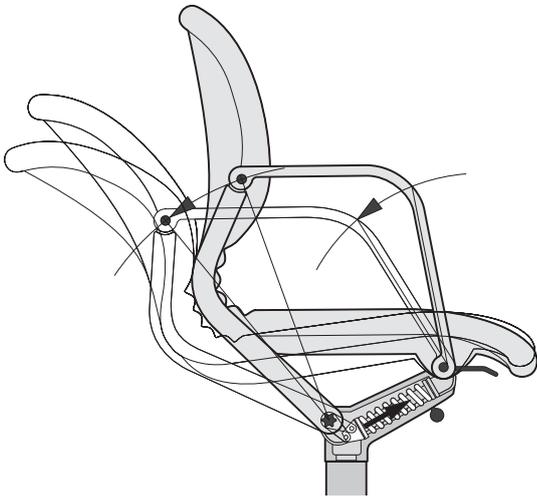
A European office worker in the 21st century is likely to spend some 60,000 hours of his or her life sitting at the office desk, although the human organism is first and foremost made for changes in posture. Spine, muscles, metabolism and circulation... – all need one thing: movement.

A completely new kind of sitting concept, allowing automatically correct adjustment to changes in posture and the promotion of our natural inclination towards movement, became a passion with Klaus Franck and Werner Sauer. Based on ergonomic studies of movement, they developed an office chair using the motto "sitting without a driving licence" which, until today, has continued to make dynamic sitting a principle of unrivalled perfection and simplicity: the FS-Line, which incorporates both their initials.

The concept is both ingenious and simple: a highly flexible, one-piece seat shell is suspended between two swing arms and a swivel axis which is located towards the front of the chair. The patented automatic synchro-adjustment mechanism controls the swing arms and therefore the seat/backrest angle of the shell in such a way that the seat platform, backrest and armrests follow coordinated movements with great exactness. The seat shell adjusts to different body shapes and sizes like a second, supporting "skin", and automatically follows any change in posture. This also causes the height, the inclination of the pad and the length of the armrests to change synchronously with coordinated movements.

The concept of the FS-Line – winner of numerous prizes – is regarded as a model of excellence of the most simple and effective realization of dynamic sitting, of a perfect synthesis of form and function. Regardless of their height or weight, more than 2.8 million people throughout the world are moved by the FS-Line. Day in day out, week in week out, year in year out.

The FS-Line. Sit with ease.



Three swivel axes are designed to allow the seat, backrest and armrests to follow any movement and change in posture.

For sitting up straight, lounging or stretching out: the ingenious combination of a flexible structure and an elastic shell provides support and adjustment in any sitting position – and the mechanism is infinitely variable and fully automatic.

Sitting-related illnesses have become the most frequent occupational disease – in spite of the fact that “ergonomic” office chairs have been developed for some thirty years. In line with the belief that “a lot helps a lot”, an array of levers, knobs and mechanisms are supposed to guarantee individual adjustment to the human body and a “correct” sitting position. The result: daily practice reveals that most chairs are incorrectly adjusted or not adjusted at all. What is more: this serves to exacerbate lack of exercise as every adjustment operation is an obstacle to change in posture, which all ergonomists postulate. This “adjustment craze” apparently leads to a dead-end that is both costly and painful.

The FS-Line is, however, quite different as it promotes movement: a spacious, supporting seat shell which allows different sitting positions and adjusts to the individual with high flexibility, and an aesthetically pleasing, minimalist frame structure comprising swing arms, compact automatic synchro-adjustment, a pedestal and a five-star base. Adjust your preferred seat height by engaging the lever, and only once do you need to adjust the tension of the backrest to your individual weight – then leave everything else to the FS-Line.

Today, this simplicity is more important than ever before: innovative forms of organization such as desksharing, project work and telework require product concepts which are self-explanatory and function with the smallest amount of adjustment, and where the potential for wear and tear has been kept to a minimum.

All individual components are designed for maximum functionality and longevity and with great attention to detail.

The slender, ergonomically designed seat shell in hardwearing, through-dyed polypropylene has firm upholstery in air-permeable polyurethane with a detachable cover. It is mounted and secured by means of integral steel bandings.

The flexible armrests in high-performance polypropylene provide a comfortable support and adjust fully automatically in height, inclination and length, depending on movement and the seat/backrest angle of the shell.

The distinctive swing armrests in die-cast aluminium follow the line of the backrest. They combine high-performance stability with a curved, dynamic appearance which marks the unmistakable silhouette of the FS-Line.

By means of two steel springs, the easily accessible, patented auto-synchro adjustment mechanism allows the counter-pressure of the backrest to be regulated individually by means of a handwheel, so that the chair can be adjusted to the user's weight within seconds.

Last but not least, the slender five-star base in die-cast aluminium provides stability in any position. The key design features are the finely coordinated radii and a high-grade finish.



If you have a good look at this office chair you will not find anything superfluous: the seat shell, swivel mechanism and five-star base assemblies stand for pure industrial design. Form, function and quality are reduced to essentials, and combine to create a standard of dynamic sitting that has remained unequalled to date. No more and no less.



The FS-Line. A real all-rounder.

The FS-Line has been designed as a broad product family for furnishing all areas within a company. After all, healthy sitting should not be reserved for certain work processes and levels of hierarchy. As an additional spin-off, this also serves to underline the recognizability factor in terms of coherent corporate design.

The clear, well thought-out concept of individual assemblies allows the same components to be incorporated in different types of chairs. For example, the seat shells of the swivel chairs and the cantilever chairs are identical. This creates a harmonious appearance and the clear system of components helps facility management with their calculations – for example, for standby furniture units or for storing spare parts.

The model groups offer different backrest heights, as well as different frame versions: as a task chair, conference chair or cantilever chair. A wide selection of surface finishes and upholstery materials combines a coherent appearance with fine differentiation according to functional areas of application and concepts of organization and design.



FS 211/8



FS 218/81



FS 220/8



FS 213/8



FS 212/5

FS 211–213

The compact 211–213 models, with the typical, rounded seat shell, are at home in work, conference and training environments.



FS 218/91



FS 219/51

FS 218–219

The spacious 218 and 219 models, with the angular design of the fully upholstered seat shells, are suitable for management and conference environments with a more prestigious character.



FS 220/9



FS 220/5

FS 220

The FS 220, the top model group, stands for the ultimate in comfort and the highest level of prestige. The main features are the upholstery body comprising a tubular steel frame, with a mesh covering and moulded in foam; the luxurious finish of the covers; fully upholstered armrests and high-quality materials.

The FS in an office and a seminar environment.

Office and administration work has undergone rapid changes due to modern information and communication technologies. Teamwork and project work have replaced rigid organizational structures. Today, work processes are dominated by dynamics, versatility and efficiency: the morning starts with a brief team meeting at the workplace, followed by two hours of concentrated work and a changeover into a project group, and ends with a two-hour training session in the late afternoon...

FS office chairs are really in their element with such a schedule – or perhaps one should say, their users are. Sit down and off you go, without having to waste a single moment thinking about the chair. What a delight to see that healthy sitting and clear design can combine with such ease.





Particularly in a training environment, relaxed sitting is one of the prerequisites for enabling participants to concentrate on what they are learning. The coherent, understated design of the FS cantilever models also ensures a harmonious, visual atmosphere.

The cantilever chair is available in a stackable version for versatile training and seminar applications.





The FS in a manager's office and a conference room.

In an environment where prestige is a natural expression of style and approach, the decisive factor is not thinking in terms of quantity, but appropriateness. In such a situation, these spacious, fully upholstered swivel chairs, conference chairs and cantilever models are the right option across the board.

The fact that both management and employees can find suitable models in the FS-Line does not only promote the health of the entire staff, but it also stands for a corporate culture which, in spite of differentiation, serves to underline common interests – not to forget the positive effect it may have on the work climate.

Wherever and however you use the FS-Line, its minimalist, understated design will merge with interior design concepts in a natural and harmonious manner.

Time invested in meetings and conferences has increased rapidly, particularly in the case of management. It is therefore even more important to combine design quality and ergonomic comfort.



Leadership and decision-making require a high degree of perceptive faculty and mental flexibility. This is enhanced by openness, based on partnership, and changes in physical posture – when sitting or changing over to the lectern.



FS – forever new.

It is one thing to develop an ingenious product concept, but quite another to fill it with life again and again. This applies to us as manufacturers and also to our customers and users. What a bonus that the FS-Line was designed from the very beginning to be able to keep pace with changes in the business world: concerning new colour schemes, the development of additional functional features for particular areas of application or purely and simply for the purpose of removing natural signs of wear and tear.

The modular structure of the concept, and easy repair and maintenance ensure that any chair can be updated with the minimum amount of effort at any time. And that has been the case for many years.

That is why the FS-Line has not only become a coveted classic, but it also sets standards for "sustainable" product design of the highest degree: the longevity of high-quality materials, the innovative sitting concept and timeless design guarantee a long service life for FS models for decades to come. This makes economic sense, conserves valuable resources and provides us with customers who are willing to remain loyal to the FS-Line throughout their professional life.



Like the seat shell and the armrests, the upholstery body may also be exchanged separately if it has become unsightly after many years of intensive use.



Four seat shell colours and the extensive Wilkhahn collection of upholstery materials allow innovative colour and design concepts for existing chairs at only a fraction of the new price.

"FS – forever new" means more than repair, refurbishing and adapting to new requirements: within a model group, the backrest height may also be changed at any time together with the seat shell.



In conjunction with a new seat shell, even height-adjustable armrests and a lumbar support may be retrofitted to meet individual international standards.

Clogged swivel castors, worn-out gas lifts or any mechanical parts which have accumulated grime and become stiff may, of course, be serviced or exchanged equally easily.

Maintenance or repair is carried out either by our in-house Service Department or by qualified staff on site.

Design-Klassiker

Elke Trappschuh

Der Bürodrehstuhl
von Klaus Franck
und Werner Sauer



Verlag form

The FS-Line was the first office chair range in the world to have a monograph devoted to it in the reputed publication series "Design Classics". This well-illustrated book traces the history of its development and the global success of this range.

Awards

Philadelphia Museum of Art, 1984 · Design Promotion Association, Tokyo · Deutsche Leistungsschau, Tokyo 1985 · Züricher Kunstgewerbemuseum, 1984 · Design, Schönheit + Nutzen, Moscow 1986 · Ergodesign, Montreux 1986 · Sonderausstellung if India 88, New Delhi 1988 · Design "Made in Germany", Taiwan 1988 · M.I.T.I. Award, Tokyo 1985 (Ministry of International Trade and Industry) · World Design Exposition, Nagoya (Japan) 1989 · M.I.T.I. Award "G"-Mark (Good Design), Tokyo 1989 · Designed in Germany, Los Angeles 1990 · Designed in Germany, Ausstellng Rat für Formgebung, Hong Kong und Mexico 1991/1992 · Technogerma Seoul 91 "Made in Germany" · Historische Büroausstellung EIMU, Milan 1991 · Design und Humanisierung für die Informationsverarbeitung, Berlin 1985 · Design Center, Stuttgart 1981, 1982, 1984, "Deutsche Auswahl" · Haus Industrieform, Essen 1984, 1986, "Produktfamilie mit dem höchsten Designwert" · Gute Industrieform, Hanover, 1986, 1987, 1988 · "Made in Germany", LGA Baden-Württemberg, Stuttgart 1985 · Office Design, Orgatec Cologne 1988 "Design-Auswahl 89", Design Center, Stuttgart 1989 · Gute Industrieform, Hanover 1989 (models 220) · Haus Industrieform, Essen 1988, 1989 (models 220) · Sitzklassiker von A-Z, Design Zentrum Nordrhein-Westfalen, Essen 1990 · Retrospektive Design Center, Stuttgart 1991 · Design Zentrum Nordrhein-Westfalen, Essen, "TOP TEN", 1991 · Design Center Stuttgart, "Design in Deutschland", 1992 · "Formwende" 1991 (exhibition in the new German "Länder") · Design Positionen Deutschland 1992 und Ausstellung in Mexico 1994 · "G-Mark", Special Prize for Long-Selling Good Design Products, Ministry of International Trade and Industry (M.I.T.I.), 1996

FS-Line. 21 range

Function

Swivel chairs with automatic synchro-adjustment: the seat and backrest tilt adjust automatically to the seating position of the user. When leaning back, the backrest tension increases according to the need for additional support. Infinitely variable tension adjustment for the user. Forward work position lockable by engaging lever. Encapsulated gas lift for infinitely variable adjustment of seat height.

Frame

Swivel chairs:
Die-cast aluminium 5-star base, bright chromium-plated, polished or coated. Twin wheel swivel castors in black polyamide with load-dependent braking, conforming to DIN 12529, as the standard version for carpeted floors or with a grey polyurethane soft lining for hard floors. Anti-static castors on request. Glides in black polyamide as the standard version for carpeted floors or in black polyurethane for hard floors.

Swing arms in die-cast aluminium, bright chromium-plated or coated.

Cantilever chairs:

Frame of models 212/5 and 219/51 in round steel tube, bright chromium-plated or coated. Cantilever model 212/5 also available in stackable version, frame in round steel tube, bright chromium plated.

With anti-tilt stoppers, as the standard version for carpeted floors, or with additional glides for hard floors.

Frame of model 220 in oval aluminium tube, bright chromium-plated or coated.

Seat and backrest

Model 211/1 to 213/8

Seat shell in viscoelastic polypropylene with a flexible middle

section in the colours natural white, platinum, asphalt and black.
Seat upholstery: one-piece moulded foam with cover, exchangeable.
Backrest of swivel chairs 211 and 213 optionally with integral, adjustable lumbar support.

Standard armrests in viscoelastic polypropylene, in black.
Swivel chairs also with height-adjustable armrests in black polyamide.

Model 218/81 to 219/51

Seat shell in viscoelastic polypropylene, fully upholstered and covered. Cover with integral slim cushion, leather-covered.
Armrests on chairs with fabric covers in black leather; in matching colour leather for leather covers.

Model 220/5 to 220/9

Tubular steel frame with flexible middle section, over which is stretched a latex mesh, and the whole is moulded in open-pore, polyurethane foam; with wadding underlay under cover.

Armrests in integral foam, leather-covered, in black for fabric covers; in matching colour leather for leather covers. Cover with stitched fluting, exchangeable.

Optional: cover with integral slim cushion.

Standards

FS swivel chairs conform to Office Chair Standard DIN EN 1335, ANSI/BIFMA X 5.1, BS 5459 and other international office chair standards. Depending on selected features, they meet the requirements of categories B or C of the Office Chair Standard DIN EN 1335. FS cantilever chairs conform to DIN 68878-1.

Subject to technical modifications.



Safety Test Certificate
(LGA Nuremberg)



FS swivel chairs conform to the standard "Ergonomics Approved".



EMAS
VERIFIED
ENVIRONMENTAL
MANAGEMENT
D-133-00055

Frame

5-star base and swing arms bright chromium-plated

5-star base polished aluminium, swing arms coated black

5-star base and swing arms coated black

5-star base and swing arms coated silver, satin finish

Seat and backrest

Polypropylene, natural white, platinum, asphalt and black

Polypropylene, fully upholstered and covered

Tubular steel frame with mesh, moulded in polyurethane foam and covered

Cover

Fabric

Leather

Details

Armrests in polypropylene, black

Armrests leather-covered

Height-adjustable armrests in polyamide, black

Height-adjustable lumbar support

Stackable



220/6



220/8



211/6



219/51



220/6



220/8



211/1



211/8



218/81



220/5



220/7



220/9



211/4



213/8



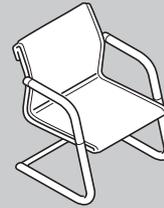
212/5



212/5



218/91



220/5



220/7



220/9

	•	•	•	•	•	•	•	•
	•	•	•		•	•	•	•
	•	•	•		•	•	•	•
	•	•	•		•	•	•	•
	•	•	•	•				
					•			
						•	•	•
	•	•	•	•	•	•	•	•
					•	•	•	•
		•	•	•				
		•			•	•	•	•
	•	•						
			•					

