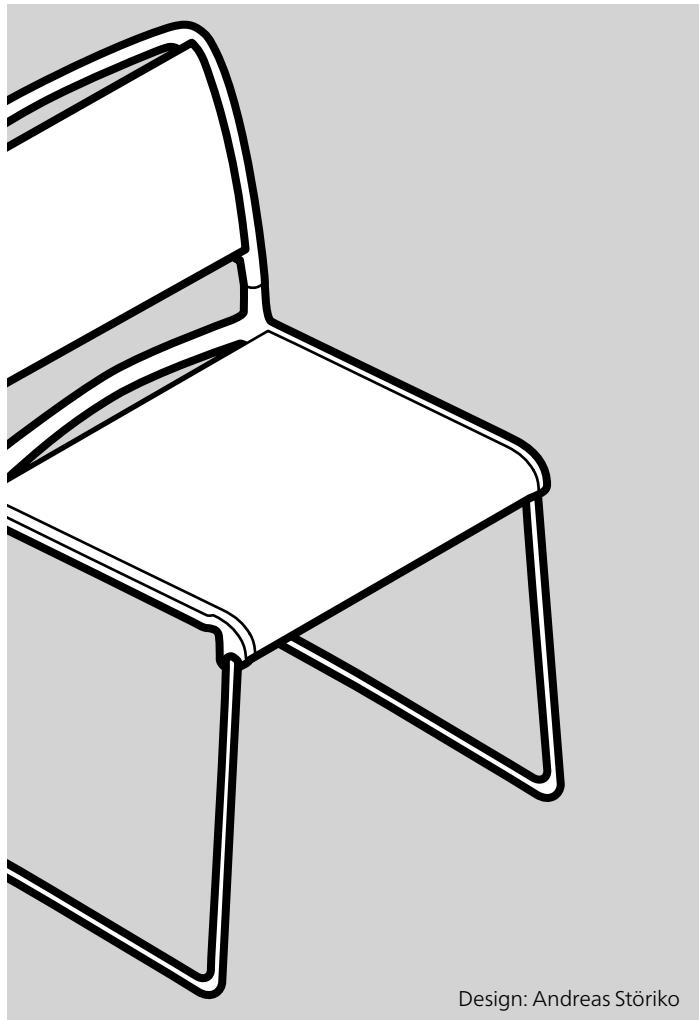


# Aline chairs. 230 range. Technical details.

Wilkhahn



## Function

Stylish and coherently designed, multi-purpose furnishing range for meetings, consultations and seminars, in showrooms and event spaces, areas for breaks, lounges and bistros, as well as libraries, internet cafés or a home office.

## Multi-purpose chair

Light, transparent, stackable multi-purpose chair for meetings, consultations, seminars and large-scale events. Very compact, form-fit stacking, with each chair adding only  $\frac{3}{4}$ " to the height of the stack due to self-engaging, covered seat and back frames (total height of 15 stacked chairs is  $41\frac{3}{4}$ "). Weight 11.24 lb only (without armrests), 11.91 lb with armrests. Model 233 only weighs 13 lb (without armrests) or 13.7 lb (with armrests).

Multi-purpose chair, optionally with seat cushion, available as a stackable or a non-stackable version. The stackable types have extra bumpers and can be stacked extremely compactly and in a form-fit manner.

## Counter/bar height stool

Stylish and transparent bar stool with backrest and footrest bar, optionally with seat cushion.

## Task chairs and visitor chairs

Simple, transparent visitor task chairs and height-adjustable office task chairs for meetings and consultations, Internet cafés, showrooms and hot desking spaces.

## Chairs

### Frame

#### Multi-purpose chair

Multi-purpose chair: Skid base in round steel tubing,  $\frac{1}{2}$ " in diameter, bright chrome plated. The skid base supports the front seat frame and integrates with the backrest frame at the rear.

On request, with additional glides in black polyamide for soft floors, optionally with extra felt.

Please note for models 233/1, 233/2: When ordering inline connectors model 238, multi-purpose glides are automatically applied, optionally with additional felt for floors that are sensitive to scratching (e.g. stone, parquet). Inline connectors are not possible in model 231.

#### Counter and bar height stool

As for multi-purpose chair, but not stackable. Additional bright chrome plated stretchers ( $\frac{5}{8}'' \times \frac{1}{4}''$ ) that form a stable structural grid, integrating a recessed footrest bar in round steel rod.

## Task chair and visitor chair

Four-star base (visitor chair) or five-star base (task chair) in die-cast aluminium, bright chrome plated. Visitor chair with glides in black polyamide (for soft floors) or black polyurethane (for hard floors), optionally with additional felt insert. Task chair with twin wheel swivel castors in black polypropylene with load dependent braking (for soft floors) or with a soft lining (for hard floors); anti-static castors on request. Fixed height swivel pedestal with contact suppression feature (visitor chair) or additional infinitely height adjustable pedestal (task chair), bright chrome plated tube.

Subject to change.

You can find our text modules for tenders in our [media center](#)

**Seat and back**

In models 231/1, 230/2, 230/5, 230/6 seat and back frames in high-performance, glass fibre-reinforced polyamide, optionally through-dyed in black, grey or white, with resilient coated polyester membrane optionally in the same colour as the seat and back frames. In through-dyed black seat and back frames, optionally available with a two-tone cover in copper-black or silver-black. Back frame optionally without armrests or with armrests in matching material and colour. Optionally with a polypropylene seat shell and cut-foam seat cushion. Stackable types (only models 230/1 and 230/2) with glass-fibre-reinforced polyamide bumper that colour-matches the seat- and backrest frame.

Models 232/1, 232/2, 233/4, 233/6  
Seat and back frame made of high-performance glass-fibre-reinforced polyamide, optionally black or white through-dyed, optionally with or without armrests in the same material and colour. Plastic membrane made of through-dyed polyamide like the seat and back frame. Optionally with cut foam seat cushion. Stackable versions (only models 233/1 and 233/2) with glass-fibre-reinforced bumpers in the same colour as the seat and back frame. Task and visitor chairs (models 232/1, 232/2, 231/1, 231/2) optionally with cut-foam seat cushion, with cover in fluted stitching, cushioning 10 mm thick.

**Accessories****Models 237/2, 4, 5, 6**

Optionally for the multi-purpose chair: Automatically retractable in-line connectors (only models 230/1, 230/2) made of matt chrome-plated steel. In-line connectors for models 233/1, 233/2 are available only in conjunction with multi-purpose glides made of black POM for hard and soft flooring, or with felt insert for floors susceptible to scratching. Chairs with armrests can only be linked alternately with chairs without armrests. Stackable four-wheeled trolley made of black-coated steel tubing with four ball-bearing mounted castors for hard and soft flooring, two of which are lockable directional wheels.

**Standards**

Aline stackable chairs conform to the Office Chair Standard DIN EN 13761 and ANSI/BIFMA X 5.1. Aline-S currently being prepared for DIN EN 16039-L1.

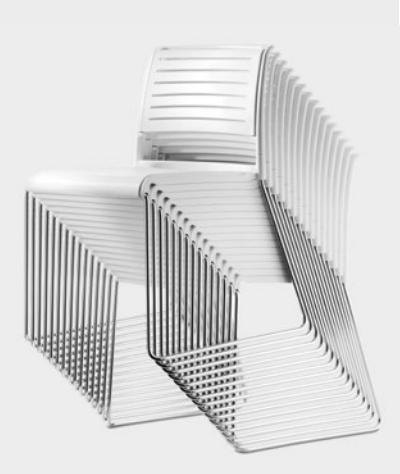


# Aline. 230 range. Product designs.

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233/1 Multipurpose chairs with seat cushion



233/1 Multipurpose chair



230/2 Multipurpose chair with armrests



233/4 Counter/bar stool



233/6 Counter/bar stool with armrests



230/1 Multipurpose chair



230/2 Multipurpose chair with armrests



230/5 Counter/bar stool



230/6 Counter/bar stool with armrests

# Aline. 230 range. Product designs.

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232/1 Task chair on castors



232/2 Task chair on castors with armrests



231/2 Visitor chair



231/2 Visitor chair with armrests

# Aline. 230 range. Upholstered types.

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233/2 Seat and backrest frame with plastic membrane



233/1 Seat and backrest frame with plastic membrane,  
with seat cushion



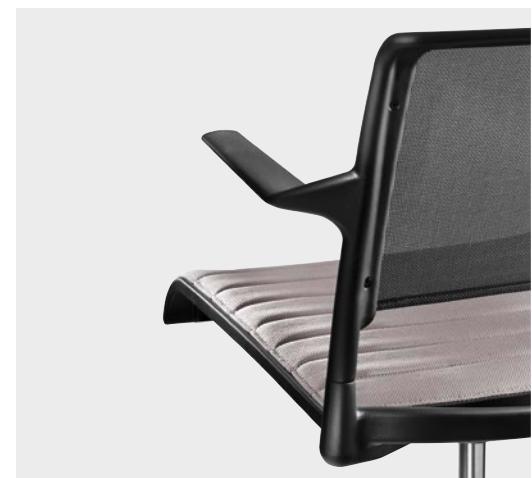
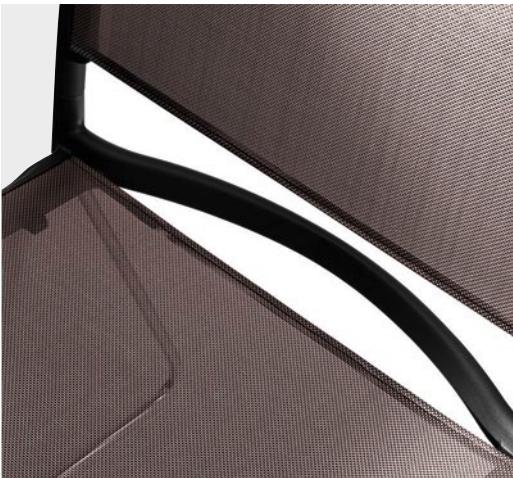
232/1 Covered seat and backrest frame



232/2 Covered backrest frame, seat cushion with  
stitched fluting

# Aline. 230 range. Colours.

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Seat and backrest frame in white or black

Polyester fabric in copper-black or silver-black,  
only when frame is black

Polyester fabric in white or black

Stitched fluting on 47/Nova cover

# Aline. 230 range. Awards / standards / certificates.

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## Awards



**Focus Energy  
Gold 2006**

## Product certificates / product standards

The stackable Aline chairs comply with the DIN EN 13761 office chair standard and ANSI/BIFMA X 5.1. Aline-S complies with DIN EN 16039-L1.



Not all certificates / standards apply to all designs.

You can find our text modules for tenders in our media center.

## Company's certificates



## Environment and product

### **Fewer materials and less space required, but comfort and ease of use enhanced**

Smart design helps cut down on the chair's weight and materials used. The highly elastic, covered seat and backrest frame with breathable back make it comfortable for anyone sitting on it. This chair is lightweight, simple and space-saving to stack, making it easy for people to handle. It cuts facility-management costs and is kinder to the environment. And of course Wilkhahn ensures that the materials and design follow its own eco-driven design criteria:

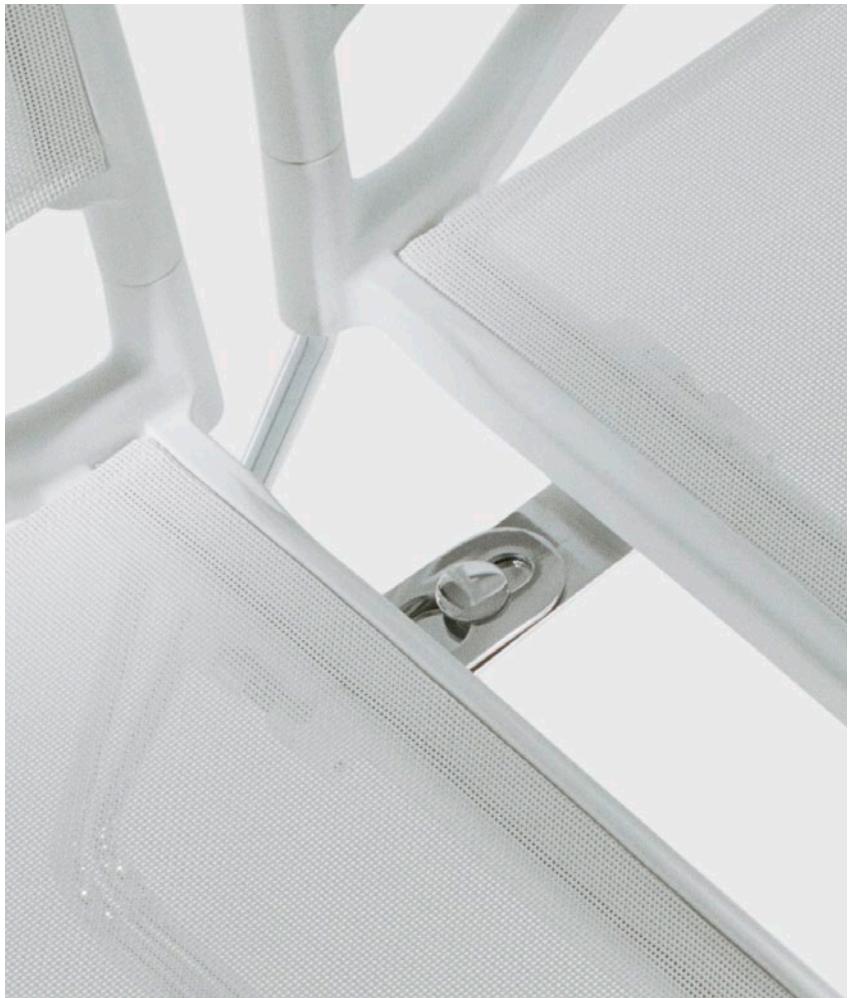
- Reducing the materials used: the Aline skid-base chair consists of just three different materials. The skid base is bright chrome-plated, making the steel tubing particularly hard-wearing; the seat and backrest frame are made of glass fibre-reinforced polyamide and the cover comes in coated polyester fabric; the optional glides are made of polyamide or polyurethane (for soft or hard floorings).
- Separation and recycling: the materials can be separated at the end of the long product lifecycle. At least 30 per cent of the steel has already been recycled and all of it can be recycled afterwards. The polyamide and polyester components are sent to be professionally recycled afterwards.
- Extending product life: the clever shape of the design protects the cover from damage. Should damage however occur after a long period of using the chair, the seat and backrest frame can be replaced.

The Aline skid-base chair is an excellent example of how, in conjunction with superb, technical materials an innovative product concept for a multipurpose chair can be economically, ecologically and socially beneficial. By saving on space and facility-management costs, energy and material costs required during production quickly pay dividends.

You can find our environmental product information in our [media center](#).

# Aline. 230 range. Accessories and other items.

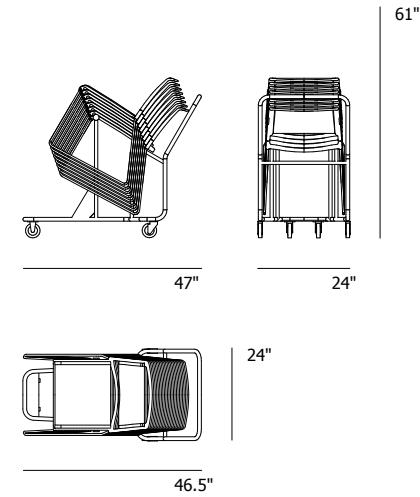
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Inline connector for models 230/1 and 230/2



Clip for seat and row numbering



Four-wheeled trolley for 16 multipurpose chairs

Further accessories not pictured:

- Sheets of self-adhesive numbers
- Inline connector for models 233/1 and 233/2
- Four-wheeled trolley for 16 multipurpose chairs with seat cushions
- Higherbackrest (total height 31.5")
- Outdoor version
- Multipurpose glides
- Glides for soft flooring
- Glides with felt insert