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## **Gliders and casters: adding value to furniture.**

A place to take a seat offers peace, calm and comfort – chairs themselves, however, are continually in motion. They are pushed, stacked, rotated, tilted and repositioned; they slide, roll and glide across the floor. What is more, they have to do all this as safely as possible – quietly and without damaging the floor in the process. To make sure that this continues to work well over the long term, furniture needs to be fitted with the right floor gliders or floor casters. The right choice will depend on various factors. Apart from the design of the furniture and the makeup of the floor, these factors include functional requirements such as preventing the furniture from tipping or the ability to link chairs in rows. So, there are quite a few things to be said for and about gliders and casters – hence this brochure. It presents the multitude of options, materials and variants available, providing you with the kind of expert guidance you need in order to choose the right product for the right situation.





**Adding value over the long term**

The right floor glider will increase the functionality of a piece of furniture and will integrate harmoniously into the design.

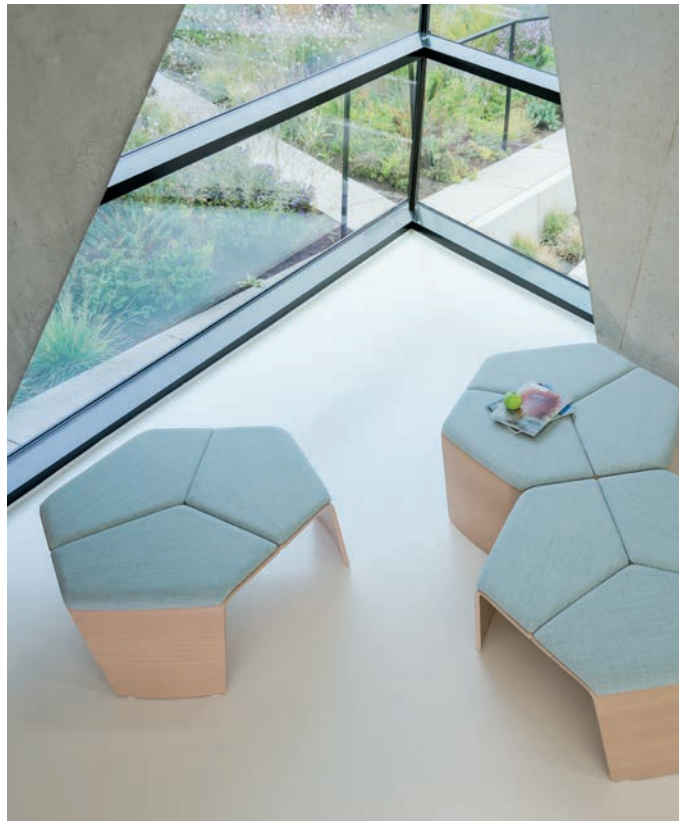


### Hard or soft – the floor decides.

Floor surfaces can be distinguished based on their hardness and compressive resistance into hard and soft. For a hard floor such as marble or parquet, soft gliders are generally a better choice as they will not scratch the floor and will cause less noise – the key concept here being noise abatement. A problem here is the potential for the gliders rubbing and leaving streaks on the floor surface. By contrast, hard gliders and casters should be used on soft floors in order to ensure optimal gliding and rolling properties. However, there is a risk of denting in these cases as particularly the modern, elastic synthetic floor surfaces are very sensitive to pressure.

Additional problems such as streaks or scratching result from factors such as improperly laid floors, the type of coating and seal, improper cleaning or the floor care product used. In these cases, selecting the right glider can generally help to solve or mitigate any problems.

Please do have a look at the important comments on page 27.



#### Hard floors

Characteristics:

- High load capacity
- Limited sound absorption
- Limited footfall dampening
- Limited elasticity
- Limited glide resistance

Examples:

- Cement, concrete
- Stone (limestone, sandstone, marble, granite, synthetic or natural stone)
- Ceramic floor surfaces (wet- or dry-pressed ceramic tile)
- Earthenware slabs
- Synthetic resin tile floors
- Melted asphalt
- Wood, parquet, laminate





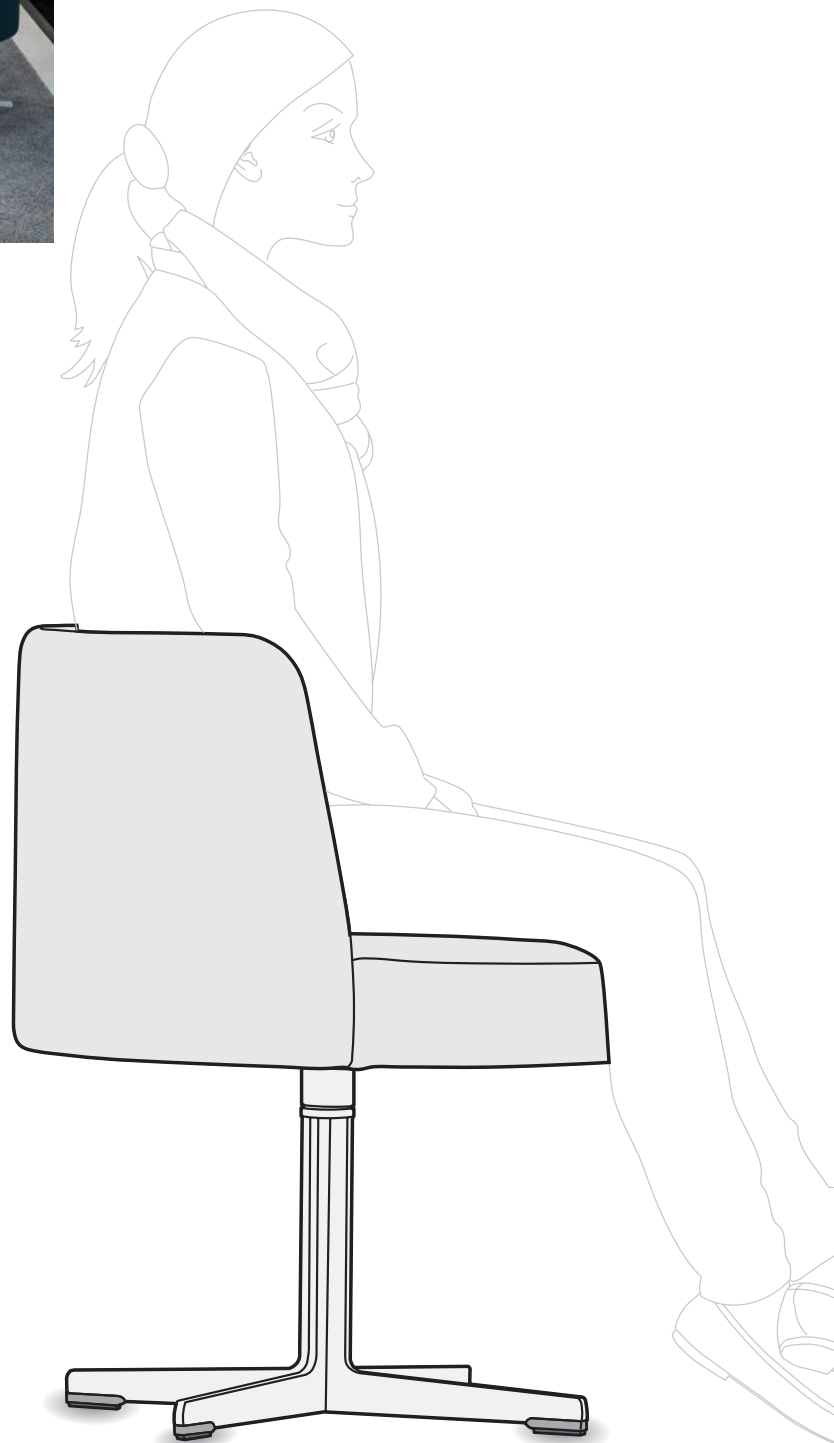
#### Soft floors

Characteristics:

- Sensitivity
- Softness
- High level of sound absorption
- High level of footfall dampening
- High level of elasticity
- High level of glide resistance

Examples:

- Elastic floor surfaces (PVC, rubber coverings, linoleum, cork)
- Textile coverings





If a stool is bearing a weight of 100 kg, it means 25 kg of weight per foot. If the chair is tipped, the weight may even be up to 50 kg per foot.





**Stable and resilient – defining characteristics.**

If a stool is bearing a weight of 100 kg, it means 25 kg of weight per foot. If the chair is tipped, the weight may even be up to 50 kg per foot applied to a very small area. The larger the contact area with the floor, the better the pressure is distributed across the floor. For example, with a standard floor contact area of 16 mm in diameter, the weight will be 12.4 kg per cm<sup>2</sup>, while a diameter of 22 mm will reduce the weight to 6.6 kg per cm<sup>2</sup>. A good glider will therefore offer a high level of durability and stability, will show little abrasion and will be able to smoothly adjust small irregularities in the floor surface.



## Shape and material – these are what counts.

Gliders consist of one element fitted to the leg and a gliding surface. Depending on the design and function, these may consist of one or several components. The gliding surface is the point of contact between the chair and the floor and can therefore be of decisive importance. It is important for the edges of the gliding surface to be rounded, to lie flush and to have a slightly convex design to avoid extreme pressure points. Various materials are used for the gliding surface itself: felt, metal or plastic – depending on the desired gliding property.

### Glider assembly



**One-piece gliders**  
made of PA, PE, PP – e.g. for fox, tool

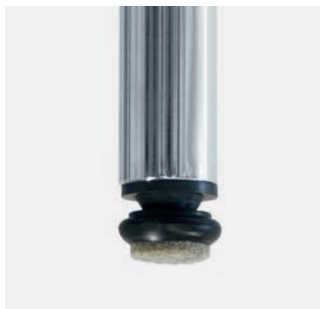


**Two-piece gliders**  
with fixed gliding surface made of PA and Teflon – e.g. for hero, linos



**Two-piece “QuickClick” gliders**  
with exchangeable gliding surface (optional) – e.g. for fina, first class

### Glide surface materials



**Felt**  
possesses special sound dampening characteristics as well as being capable of compensating for unevenness in the floor and providing a soft surface to protect the floor covering.

A disadvantage of this material lies in the fact that it wears out, requires regular cleaning and needs to be replaced periodically.

We reduce the cost associated with this by using only high-quality and therefore durable wool and industrial felts.



**Metal**  
ensures by its hardness the best gliding characteristics for carpeted floors and old hardwood parquet.

A disadvantage of this material lies in the fact that it has a tendency to develop surface rust.

We solve this problem by using only rust-proof metals or stainless steel.



**Plastic**  
offers various glider properties, from almost resistance-free gliding to anti-slip characteristics. It is therefore a general purpose material.

A drawback of this material: the wear due to friction of simple plastics may cause streaks on the floor surface.

We counteract this by using only high-quality PA, PE, POM or PTFE (Teflon-like).



**Pleasant room settings:**

In open spaces with hard flooring  
dampening is especially important.





#### **Options and functions – for every situation.**

Different spaces impose different requirements. We therefore offer gliders with the appropriate additional functions. For example, additional floor grip thanks to anti-slip gliders which provide a secure stand even on smooth surfaces. Or our stacking protection; or integrated row linking, indispensable for major event venues. And there are times when particular adaptability is called for: Our special jointed gliders adjust automatically on floors that are uneven or have a slight incline, thus ensuring that the feet on the furniture always lie flush even on a difficult floor surface.

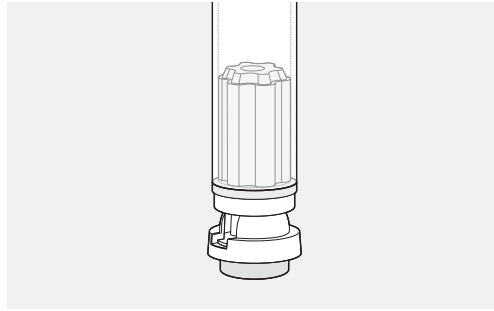
#### **Giders with special glide surfaces**

- POM, PTFE, Teflon or anti-slip glide surface

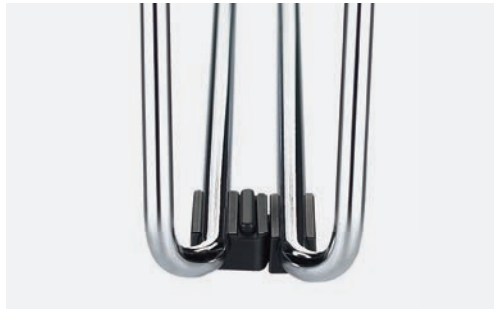
#### **Special feature gliders**

- Jointed glider
- Shell glider
- Adjustable glider
- Noise dampening glider
- Glider with stacking protection
- Glider with tilting protection
- Glider with tipping and stacking protection
- Glider with row linking devices





**Noise dampening gliders**  
Soundless and gentle: undesirable vibrations may be absorbed completely – thanks to an elastic vibration damper which is put over the glider inlay and inserted in the tube.



**Gliders with integrated row linking for large venues**  
Simple linking and disconnecting of the glider-integrated row-linking device. Shown here on the linos model with a metal sled-base frame.



**Glider with integrated stacking protection**  
for safe and precise stacking. Shown here in plastic on the models first line (left) and tool 2 (1330/A).



Polyamide gliders with integrated **anti-slip gliding surface** for non-skid, secure stand of the modular seating elements of our series banc (left).



**Quick and easy: the QuickClick system.**

One option we offer for various chairs is a system in which the glide surface can be replaced easily and quickly via the QuickClick system. This is particularly beneficial in the case of wearable components such as felt glide surfaces. Also, when the gliders are used on different floor surfaces, there is no need to replace the entire glider. This system is even available in a noise abating version: allowing delicate round tube chairs to glide gently and soundlessly across the floor.

This QuickClick system is available in two versions: “ultrasoft” consists of high-quality wool felt – this inlay protects and cares for all highly sensitive surfaces. Here the material was joined directly during the dead-mould casting with the plastic additive without using any adhesives.

“Hyper” consists of high-quality, Teflon-like PTFE-plastic. This glider inlay is perfect for all elastic floors.

Thanks to its outstandingly low wear due to friction and its splendid gliding properties, it is also suitable for deployment on a wide variety of different floor types.



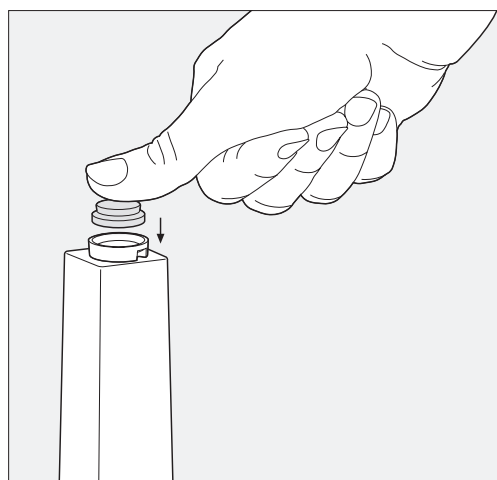
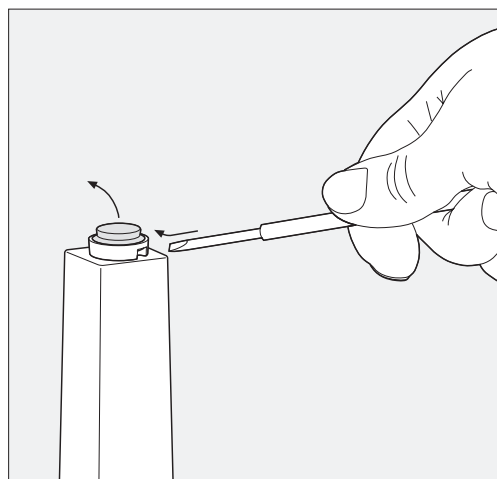


#### **QuickClick**

Shown here with the "ultrasoft" insert made from high-quality wool felt.

#### **Easy to swap**

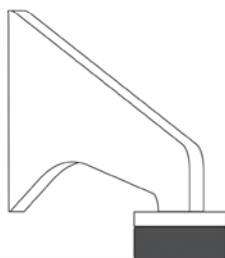
Using a small screwdriver, QuickClicks are easy to swap – making it possible to adapt gliders to different floor conditions.





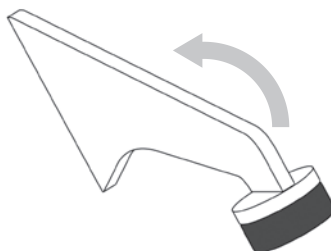
### Integrated transport casters

Sturdy plastic gliders integrated into the feet of the pivot series provide a solid stand. When the table is slightly tilted, the gliders serve as smooth-running casters, and the table may be moved single-handedly.



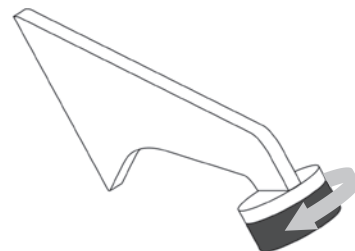
#### Standing

When the caster has horizontal contact with the floor, it is locked. The table may not be moved.



#### Tilting

When the table is tilted, the caster touches the floor only at one point. The caster is no longer locked.



#### Moving

Now, the caster can turn freely, the table may be moved easily.



#### basic

Standard glider with plastic gliding surface.



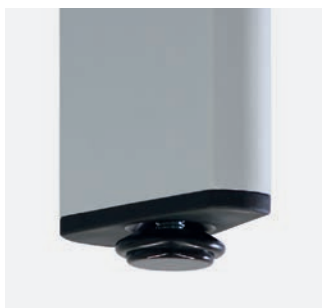
#### fina conference

Chromed adjustable glider with plastic gliding surface, height-adjustable by 10 mm.



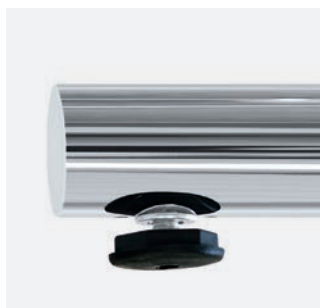
#### 4less, 4last, 4sure

Adjustable plastic glider



#### state

Height adjustable QuickClick glider with plastic surface.



#### sleight

Height adjustable plastic glider.



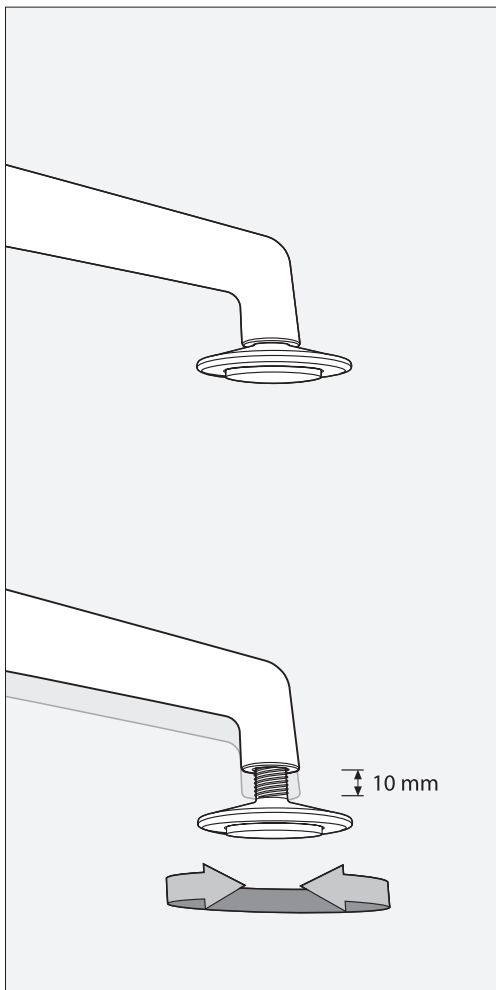
#### cross

Height adjustable plastic glider.



**Robust and safe, even on four legs.**

Tables apply other requirements than chairs. They are generally moved less frequently, but have larger surface areas that need to be leveled. Therefore, there is a particular demand in these products for additional functions such as height adjustability, as these help compensate for floor inclines and irregularities and make the table robust and safe.



Smooth adjustment of table gliders  
from 0 to 10 mm using a metal thread.





**Rotating chair casters**  
on the models drive or too.



**Multifunctional and mobile – of tried and tested quality.**

Casters create mobility and ensure motion both for chairs and tables. For different floor surfaces, there are hard and soft casters as well as universal casters suitable for deployment on various floor types. According to DIN EN 12529 hard casters are to be used for soft floor surfaces, while soft casters are suitable for hard or elastic floors. The ideal casters will protect against abrasion and thus floor damage. We will always offer you the ideal type of casters, perfectly matched to our chair and table portfolio.



**Integrated casters for shifting**  
for moving trust, 4last, 4less.

**Lockable casters**  
on the model torino – ensuring a  
steady footing.

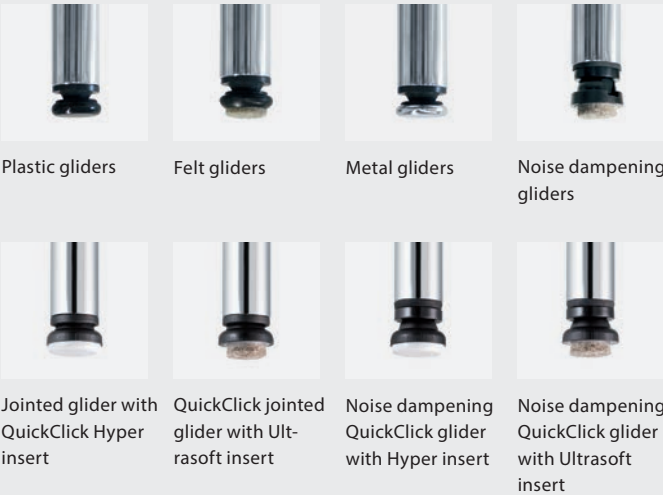


4-legged chairs

metal frames: in general

for the series: fina, first class, fox 1360, fox 1370, jump, linos, mila-noflair, milanolight, milanolounge, milanosoft, prime\*, verona

not all gliders are optionally available for all models

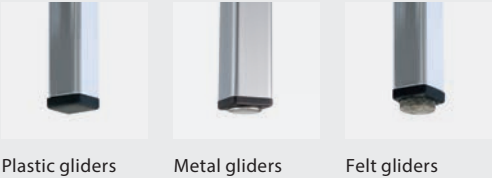


	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
Gliders						
Standard (according to pricelist)	Plastic gliders	Plastic gliders	Plastic gliders			
Optional (with extra charge)	Felt gliders	Felt gliders		Metal gliders	Felt gliders	Felt gliders
QuickClick system						
Optional (with extra charge)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)
Optional (with extra charge)	Jointed gliders QuickClick with ultrasoft-inlay (felt)	Jointed gliders QuickClick with ultrasoft-inlay (felt)			Jointed gliders QuickClick with ultrasoft-inlay (felt)	Jointed gliders QuickClick with ultrasoft-inlay (felt)
Optional (with extra charge)	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with Hyper-inlay	Noise dampening gliders QuickClick with Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay

4-legged chairs

metal frame: rectangular profile

for the series: milanoclassic, milanolight



	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
Gliders						
Standard (according to pricelist)	Plastic gliders	Plastic gliders	Plastic gliders	Plastic gliders		
Optional (with extra charge)	Felt gliders	Felt gliders			Felt gliders	Felt gliders

\* For these models a noise dampening glider is not available.



## 4-legged chairs

## metal frames: stacking vertically

for the series: fox 1014, 1030, tool2

not all gliders are optionally available  
for all models



Plastic gliders



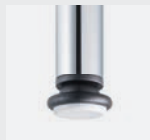
Plastic gliders



Jointed glider with  
metal gliding  
surface



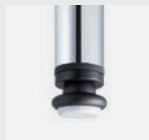
Jointed glider with  
felt gliding  
surface



Jointed QuickClick  
glider with Hyper  
insert



Jointed QuickClick  
glider with  
Ultrasoft insert



Noise dampening  
QuickClick glider  
with Hyper insert



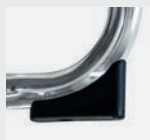
Noise dampening  
QuickClick glider  
with Ultrasoft  
insert

	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
<b>Gliders</b>						
Standard (according to pricelist)		Plastic gliders	Plastic gliders			
Optional (with extra charge)	Felt jointed gliders	Felt jointed gliders		Metal jointed gliders	Felt jointed gliders	Felt jointed gliders
<b>QuickClick system</b>						
Optional (with extra charge)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)
Optional (with extra charge)	Jointed gliders QuickClick with ultrasoft-inlay (felt)	Jointed gliders QuickClick with ultrasoft-inlay (felt)			Jointed gliders QuickClick with ultrasoft-inlay (felt)	Jointed gliders QuickClick with ultrasoft-inlay (felt)
Optional (with extra charge)	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with Hyper-inlay	Noise dampening gliders QuickClick with Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay	Noise dampening gliders QuickClick with ultrasoft- / Hyper-inlay

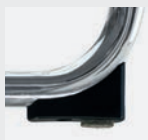
## Cantilever

## metal frame

for the series: fox 1018, fox 1018/A,  
fox 1023, fox 1026, fina, plaza,  
spira.sit, verona, ray



Plastic gliders



Felt gliders

	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
<b>Gliders</b>						
Standard (according to pricelist)				Without gliders		
Optional (with extra charge)	Plastic gliders	Felt gliders	Plastic gliders		Felt gliders	Felt gliders



## 4-legged chairs

## wooden frames

for the series: buena nova,  
fina club, fina wood, opus, range,  
sonato, sonus III, taceo, window



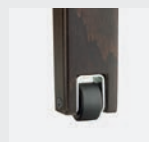
Plastic gliders



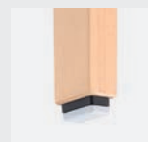
Felt gliders



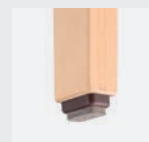
Metal gliders



Casters in front legs,  
hard and soft



QuickClick glider  
with Hyper insert



QuickClick glider  
with Ultrasoft insert

	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
<b>Gliders</b>						
Standard (according to pricelist)	Plastic gliders	Plastic gliders	Plastic gliders			
Optional (with extra charge)	Plastic gliders noise dampening	Plastic gliders noise dampening	Plastic gliders noise dampening			
Optional per model (with extra charge)	Felt gliders	Felt gliders	Felt gliders	Metal gliders	Felt gliders	Felt gliders
Optional per model (with extra charge)	Casters in front legs	Casters in front legs	Casters in front legs	Casters in front legs	Casters in front legs	Casters in front legs
Optional per model (with extra charge)	Jointed glider with plastic gliding surface	Jointed glider with plastic gliding surface	Jointed glider with plastic gliding surface	Jointed glider with plastic gliding surface	Jointed glider with plastic gliding surface	Jointed glider with plastic gliding surface
Optional per model (with extra charge)				Jointed glider with metal gliding surface		
Optional per model (with extra charge)	Jointed glider with felt gliding surface	Jointed glider with felt gliding surface				
<b>QuickClick system</b>						
Optional (with extra charge)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)	Jointed gliders QuickClick with Hyper-inlay (PTFE, Teflon-like)
Optional (with extra charge)	Jointed gliders QuickClick with ultrasoft-inlay (felt)				Jointed gliders QuickClick with ultrasoft-inlay (felt)	Jointed gliders QuickClick with ultrasoft-inlay (felt)
Optional (with extra charge)	Noise dampening QuickClick glider with Hyper insert (PTFE, Teflon-like)	Noise dampening QuickClick glider with Hyper insert (PTFE, Teflon-like)		Noise dampening QuickClick glider with Hyper insert (PTFE, Teflon-like)	Noise dampening QuickClick glider with Hyper insert (PTFE, Teflon-like)	
Optional (with extra charge)	Noise dampening QuickClick glider with Ultrasoft insert (felt)	Noise dampening QuickClick glider with Ultrasoft insert (felt)			Noise dampening QuickClick glider with Ultrasoft insert (felt)	
Optional (with extra charge)	QuickClick glider with Hyper insert (PTFE, Teflon-like)	QuickClick glider with Hyper insert (PTFE, Teflon-like)		QuickClick glider with Hyper insert (PTFE, Teflon-like)	QuickClick glider with Hyper insert (PTFE, Teflon-like)	
Optional (with extra charge)	QuickClick glider with Ultrasoft insert	QuickClick glider with Ultrasoft insert			QuickClick glider with Ultrasoft insert	

## Tables

steel frames

[illegible]



	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
<b>state, torino</b>						
Standard: adjustable gliders plastic Optional: inlay for change QuickClick felt	Adjustable gliders plastic	Adjustable gliders plastic	Adjustable gliders plastic	Adjustable gliders plastic	QuickClick felt	QuickClick felt
<b>torino 9410 Nesting table</b>						
Standard: casters hard, lockable Optional: casters soft, lockable	Soft casters	Soft casters	Soft casters	Hard casters	Soft casters	Soft casters
<b>trust</b>						
Standard: adjustable gliders plastic Optional: adjustable gliders felt Optional: integrated casters in lateral part	Adjustable gliders plastic soft casters	Adjustable gliders plastic soft casters	Adjustable gliders plastic soft casters	Adjustable gliders plastic hard casters	Adjustable gliders plastic/felt soft casters	Adjustable gliders plastic/felt soft casters
<b>3060, 3063</b>						
Standard: plastic gliders Optional: felt gliders	Plastic gliders	Plastic gliders	Plastic gliders	Plastic gliders	Felt gliders	Felt gliders
<b>6051</b>						
Standard: adjustable gliders plastic Optional: felt gliders	adjustable gliders plastic	adjustable gliders plastic	adjustable gliders plastic	adjustable gliders plastic	felt gliders	felt gliders
<b>4last, 4less</b>						
Standard: adjustable plastic glider optional: adjustable felt glider, plastic or felt levelling glider; at the front end: two integrated casters for shifting (hard or soft)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (soft)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (soft)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (soft)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (hard)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (soft)	Plastic, plastic levelling glider; at the front end: two integrated casters for shifting (soft)
<b>4sure</b>						
Standard: adjustable plastic glider	Plastic, plastic levelling glider	Plastic, plastic levelling glider	Plastic, plastic levelling glider	Plastic, plastic levelling glider	Adjustable felt glider; felt levelling glider	Adjustable felt glider; felt levelling glider

Tables

wooden frames

	Hard floors			Soft floors		
	Flagging, stone	Parquet, laminate	Hard synthetic floors	Carpet	Linoleum	Soft synthetic floors
<b>clear 3271, range, sonus III, 671, 1671, 1672, 1681, 1971, 3471</b>						
Standard: plastic gliders Optional: felt gliders, metal gliders, adjustable gliders plastic, QuickClick inlay for change	Plastic gliders	Plastic gliders	Plastic gliders	Metal gliders	Felt gliders	Felt gliders
<b>taceo</b>						
Standard: plastic gliders Optional: felt gliders, adjustable gliders plastic	Plastic gliders	Plastic gliders	Plastic gliders	Plastic gliders	Felt gliders	Felt gliders

## Important comments

This brochure informs about the right choice of gliders and casters. In particular cases, an individual consultation may be required - ideally in cooperation with the floor manufacturer. Please do consider that the floor sealing and the maintenance are important for a continuous, problem-free use of the gliders, especially in the case of soft flooring such as carpets or plastic flooring. Hence we cannot assume a warranty regarding the interaction between glider and flooring. Gliders wear out, therefore they do not underlie the general warranty, but are available as spare parts in all specifications.

## Imprint

### Photographs:

Axel Bleyer, Offenburg  
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universal



office . conference



event



cafeteria



lounge



care