# How are schools preparing for the future? 

Like this.

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Flötotto has been at school for 50 years. And keeps on learning every day.


## 4 One of 21 million.

Flötotto - heard of it before? That might be because our ergonomic, contoured seats from 1952 put their stamp on and changed the image of classrooms and student workplaces like no other. We are now writing the next chapter of precisely that history.


6 Taking everyone to school.

## 1906

Heinrich Flötotto founds a cabinet maker's shop in Gütersloh.

## 1952

Flötotto patents
the contoured seat.
It is sold more than
21 million times.


Writing history.

## 1972

The modular profile system made of beechwood sets standards in German apartments.

## 1980

Even back then, the functionality of the school furniture was the hook in advertising campaigns.

## 2008

Flötotto honours its roots and develops the new PRO school chair in cooperation with Konstantin Grcic. The focus is on active, dynamic sitting.
and architects, exemplary
school facilities were created that correspond to modern school and educational concepts.

## 1969

The student's workplace "Optimal revolutionises at-home learning.

8 Our furniture is like clothing. It doesn't just have to suit the room, it also has to suit the person.


Konstantin Grcic, the designer
of our PRO chair, sums it up:
"Good design becomes part of the person. Like a piece of clothing. That's what is so fascinating."

Those who know us, know that Flötotto stands for precisely this claim. Furniture designed and made for people. Furniture that supports ergonomics and ease of use like a tailored suit. Where should that be self-evident? At school, for instance.

10 Why architects, users, purchasers and even the fire safety officers agree on our PRO chairs.

Our PRO chairs immediately stand out visually.
They have won international design awards for good reason. But they are impressive for far more reasons.

PRO chairs are available in every imaginable size, colour and shape: with a variety of seat shells, frames and cushion fabrics for the widest possible range of design options.Coral Red

Kiwi Green
Aqua Blue
Warm Grey
Graphite Black
Granite Grey
Snow White


Size for any agePutting up on tables
6kg LightweightRecyclable seat shellFire safety pursuant to DIN 4102-1
PRO-MATIC - 3D seat mechanism

- Seat cushion/full cushion


## Row connector

## Our PRO family:



## 12 Why it is healthy to become active while sitting.

|  | Sitting straight | $360^{\circ}$ sitting | Elbows when sitting straight | Straddling | Sitting sideways |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | + The highly curved, S-shaped backrest offers optimal lumbar support. This actively supports the spine in the lower back. <br> + The flexible backrest and the oscillating seat (similar to sitting on a ball) intuitively activate movements. These movements result in a switch between tightening and relaxing the more than 400 muscles, which naturally trains the core. Benefit: Discs and muscles are better supplied with blood and nutrients. Active and dynamic sitting is promoted intuitively! | + The Flötotto seat shell is almost completely circular and offers freedom of movement in every direction ( $360^{\circ}$ sitting). <br> + Every sitting position is possible: <br> + Sitting straight (e.g. for focused, <br> temporary instruction phases) <br> + Sitting sideways (e.g. when working while looking at mobile board systems or for communicative group work) <br> Straddling (e.g. for sitting in a circle and discussion rounds) <br> + In contrast to conventional school chairs, the seat shell is rounded down significantly on all sides. <br> + That means: No localised or surface pressure on the thighs, instead optimal blood circulation! Optimal blood circulation guarantees a constant supply of oxygen to the brain. The result: Students stay alert longer and can better concentrate on and follow the lesson - success in class and motivation increase! | + The narrow backrest provides optimal, temporary support fo the upper body and results in the necessary relaxation of the pelvis (iliac crest support). <br> + Elbows can swing backward freely Rotational movements on the seat are particularly easy and arms can move pass the backrest without the backrest getting in the way. Benefit: maximum freedom of movement for the arms! | + A tapered backrest provides comfortable freedom of leg movement and optimum blood circulation <br> Rounded, soft edges optimally adjust to the body. <br> The arched backrest doesn't cut into you when resting your arms <br> + This makes the backrest a comfortable armrest. | + The highly curved, S-shaped backrest offers optimum upper body support when sitting sideways. <br> + In contrast to conventional school chairs, the seat shell is rounded down significantly on all sides. That means: No localised or surface pressure circulation even when sitting side <br> The arched backrest doesn't cut into you when resting your arms! This makes the backrest a comfortable armrest. |
|  | - Doesn't support the back at all! People often sit with their backs arched like a cat. "Hanging" posture results in passive behaviour and thinking. The result: Students are physically and mentally "tired" and no longer actively follow the lesson Muscular imbalances are the result! | - Nearly all conventional school chairs on the market attempt to provide the user the most support possible. The seat is extremely curved on the sides and the backrest is highly contoured on both sides. This creates a "racer's seat" that should fit like a glove. <br> - That means: No freedom of movement for the user = sitting statically! <br> - Sitting sideways results in painful localised stress points on the thighs The result: Blood congestion! Legs begin to "tingle" and fall asleep. | - A wide and expansive backrest restricts freedom of elbow movement! <br> - The user is forced to sit in the same position because their elbows are "locked in place". The result: restricted freedom of movement and static sitting results in muscular imbalances. | - Backrest barely tapered because it is usually very wide. <br> - Sharp edge cut into the arms and cause hazardous blood congestion. Painful when resting arms on the backrest because the backrest is straight (sharp-edged). The arms rest on the narrowest and pointiest edge! | - Straight backrests cause the upper body to "tilt to the side". <br> - Sitting sideways results in painful localised stress points on the thighs. The result: Blood congestion! Legs begin to "tingle" and fall asleep. - Painful when resting arms on the backrest because the backrest is straight (sharp-edged). The arms rest on the narrowest and pointiest edge! |



## 16 We think the C frame isn't just

 the best when on the table.That should be obvious, one would think. When chairs are put up for the cleaning crew, many damage the tabletop, which is frustrating. The C frame in the Flötotto PRO series is equipped with a tabletop guard

In addition, it has an extremely robust seat shell which allows for ergonomic, $360^{\circ}$ sitting. The C frame is available in six sizes in accordance with DIN EN 1729 - from size two to dance with DIN seven. The colour code on the frame makes
it easier to match it with the sizes and simpliit easier to match it with the sizes and simp
fies variable use at changing locations. $\rightarrow$ You can find all ergonomic benefits on pages 12 and 13 .

## PRO CHAIR C frame

+ Ergonomically contoured seat shell for active, dynamic sitting
+ Available in 6 DIN EN sizes (size 2-7)
+ Freely oscillating frame simulates sitting on a ball
+ Durable handle with size marking
+ Tabletop guard prevents damage to the tabletops
+ 10-year guarantee on the seat shell
+ Optionally available in a flame retardant version
(in accordance with B1)



18 Why the C frame is growing more and more popular.

Seat heights in accordance with DIN EN 1729


## 20 A whole class at eye level.

 Impossible? No, it's not!Children grow. Especially at school, they sometimes surpass themselves. That requires a chair that fits any size. The PRO Plusminus, with a 51 cm seat heigh and a flexible foot rest, simulates the DIN EN 1729 sizes 2, 3, 4 and 5. The height can be easily adjusted with a single hand movement, without tools.

Elementary school classes in particular profit from the flexible chair that grows with the child. So do learning groups that span across everal grades. Who else is happy about it? Teachers, because they don't have to bend down as deeply as before.


PRO CHAIR Plusminus

+ Footrest, adjustable to 4 settings, for multi-grade lessons
+ Precise positioning without tools
+ Narrow construction allows for chair circles in small spaces
+ Stackable
+ Can be placed on tables




Sandard universal glider: conventional hard
Lors (inolumel
You are welome to oontatat $\mathbf{u}$ reagrding

## 22 PRO CHAIR Plusminus

What people who use it say:

"Whoever is responsible for procuring school furniture is familiar with the problem. Particularly in the elementary school segment, we deal with a variety of chair and table sizes that, at times, are too small or too large. With the PRO Plusminus foot rest chair, however, I am investing in a single chair that always fits."
And the best thing is, our PRO CHAIR Plusminus only needs one table height.

Karl-Heinz Becker, Procurement Department

24 This is what learning at eye level looks like.


## 26 Why students instantly learn their way around the chair.

No chair allows for as much flexibility as a swivel chair. Because they grow with the requirements: seamless, easy, at any time.

Students who aren't used to it yet don't need longer than a day in our experience. After that, they love the freedom that only a swivel chair makes possible. The frame for the swivel chair is available in three sizes. The 4 is available only in polished aluminium; sizes 5 and 6 are also in polished aluminium; sizes 5 and 6 are also
available in black plastic. And there are 6 differavailable in black plastic
$\rightarrow$ You can find all ergonomic benefits on pages 12 and 13 .
$\rightarrow$ Yuu can find all of the intormation about the 30 seat
mechanism
$\rightarrow$ You can find details atco on page 31 .
You can find details about casters and gliders on page 29 .

PRO CHAIR swivel chair

+ Dynamic and ergonomic sitting
$+3 D$ seating mechanism optionally available
+ Armrests optionally available
+ Writing tablet optionally available
+ For big and small
+ Optimal teacher's chair with seat cushion
+ Gas pressure springs with different heights (up to counter height) available
+ Frame also available in seat shell colours
+ Height-adjustable foot ring
+ 5 casters, load-dependent braking
+ Seamless height adjustment



## 28 PRO STOOL swivel stool

The swivel chair's little brother that can easily keep up with its big brother when it comes to function and flexibility.

The special contours of the seat animates the user to actively change positions.

The frame for the swivel stool is only available in size 6. It is available in the polished aluminium, powdered aluminium and black plastic designs.

PRO STOOL swivel stool

+ Height-adjustable foot ring
+ Seamless height adjustment
+ Optimal for natural sciences rooms
+ Frame also available in seat shell colour
+ 5 casters, load-dependent braking
+ Also available as a 4-legged stool (stackable)


Seat heights:

|  | Polyamide base |  | Aluminium base |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Glider | Caster | Glider | Caster |
| Size 30 | 29-39 cm | 32-42 cm | $31-40 \mathrm{~cm}$ | 34-43 cm |
| Size $4 \bullet$ | 29-39 cm | $32-42 \mathrm{~cm}$ | $31-40 \mathrm{~cm}$ | $34-43 \mathrm{~cm}$ |
| * Size 5 | 21-48 cm | $38-51 \mathrm{~cm}$ | $37-50 \mathrm{~cm}$ | $40-53 \mathrm{~cm}$ |
| * Size $6 \bullet$ | $21-48 \mathrm{~cm}$ | $38-51 \mathrm{~cm}$ | $37-50 \mathrm{~cm}$ | $40-53 \mathrm{~cm}$ |
| * Counter size | 52-75 cm | $55-78 \mathrm{~cm}$ | $53-76 \mathrm{~cm}$ | $56-79 \mathrm{~cm}$ |

PRO-MATIC ( (3D-seat mechanism) +2.7 cm .
Seat cushion for size 6 and counter height +1.7 cm .
er size $3,4,5$ optional gas pressure spring with only 220 N available (standard 320 N ).



Reference projects $\rightarrow p .36,04$

30 No one has to remain seated on this chair.

The PRO chair with
PRO-MATIC technology.

## 32 What people who use it say:

"As a teacher, I place value on switching between instruction and group phases during class. We need chairs that support both: Flexibility and (!) concentration. What it noticeable about the PRO CHAIR is how straight, actively and dynamically the children sit on the chair, without arching their backs.

They intuitively place their elbows on the backrest when the focal point in the room changes. A phenomenon that excites me: when discussing conflicts, we sit in a circle, but backwards on the chair. That way, everyone has a protective shield in front of them. This makes it easier to discuss and solve problems."

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$\qquad$


## 34 Great, isn't it?

36 Our formula for school chairs for a new generation.


38 A classic.

## Popular because of they way they stack.

No one can be cleaned up as easily as our skid chair. Up to eight of these timeless classic chairs can be stacked and comfortably stowed, including stack protection. With a stacker truck, even 16 or 32 chairs. The tray and the endless series connectors are also practical. Optional armrest, seat or full cushion, colour powder-coated or with chrome frame.
$\xrightarrow[\rightarrow \text { You can find all ergonomic benefits on pages } 12 \text { and } 13 .]{\rightarrow \text { Inf: The skid frame is also available as a bar stool with }}$
$\rightarrow$ Info: The skid frame is also avaiable a a a bar stool

PRO CHAIR skid base

+ Stackable up to eight chairs
+ Incl. stack protection
+ Available in sizes 4, 5 and 6


## Optional:

+ With practical storage basket
+ Endless series connectors
+ Armrest
+ Seat cushion
+ Writing shelf



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\text { conventional had had tloors } \\
\text { linoleun) }
\end{array} \\
& \begin{array}{c}
\text { Hyper gider. } \\
\text { Carpet, hard floors } \\
\hline
\end{array}
\end{aligned}
$$

## 40 For multi-stackers.



## 42 Why these quadrupeds tread softly.

Particularly in a cafeteria or canteen, it makes a huge difference whether or not chairs con tribute toward noise reduction. That's exactly what the four-legged frame from PRO does.

This soft-stepper is stackable and can be connected in endless series. Also available with tray and swivelling writing tablet which makes it easy to set up seating areas with a small workspace. The tablet is unique because it isn't workspace. The tablet is unicting and always fits
$\rightarrow$ You can find all ergonomic benefits on pages 12 and 13 .

PRO CHAIR four-legged frame

+ Stackable, up to 8 chairs
+ Incl. stack protection
+ Multi-purpose chair
+ Available in sizes 3 and 6


## Optional:

+ With practical storage basket
+ Endless series connectors
+ Armrest
+ Seat cushion
+ Writing shel

PRO CHAIR four-legged frame with casters

+ Optimum seminar chair
+ Flexibly arrangeable using casters
+ With practical tray
+ Optionally with swivelling writing tablet
+ Seat cushion, optional

The four-legged chair with casters is an all-rounder for continuing education rooms, teachers' and seminar rooms, that allows for flexible arrangements for groups.

Dynamic sitting is the basis of our chair collection. The swivelling writing tablet easily adjusts to the respective sitting position


44 It's so easy to get
the seminar rolling

44 It's so easy to get
the seminar rolling.



## 46 Life isn't a wish list?

## With our FLEX TABLE it is.

A table has to suit the learning situation, not the other way around. We firmly believe that. That's why the FLEX TABLE fulfils any wish. The braked casters allow the tables to be shifted easily and without a lot of noise.

We avoided the usual metal frame and invested into a 28 mm multiplex tabletop with an HPL coating. It guarantees extreme durability, even if the tables regularly bump against each other. It also allows for every imaginable table shape like the ten design variants (p. 49), which provide examples. The FLEX TABLE can also be customised to nearly any dimension upon request.

## FLEX TABLE

+ Complete legroom/inclusion
+ No metal frame
+ Stability and durability due to the extremely strong multiplex tabeltop
+ Low-noise when moved and touch
+ Flexibility due to castors
(with stop function)
+ Available in different heights (size 2-7) available
+ Material boxes incl. rails as supplement
+ Chair suspension possible
+ Storage basket possible
+ Acoustic absorber available
+ Communication traffic light available




## Table leg colours

Coral Red
Kiwi Green

- Aqua Blue

Warm Grey
Graphite Black

- Granite Grey

Table heights in accordance with DIN EN 1729
(2) 53 cm
5 71 cm
(3) 59 cm
(6) 76 cm
(4) 64 cm
82 cm

## 48 The table makes the group.



The FLEX TABLE isn't just available as a square, semicircular and trapezoid model, but also as amorphous shapes which particularly promotes group work in teams consisting of multiple grades.

FLEX TABLE designs.

$\rightarrow$ Product details of all tables can be found on p. 150 .

## 50 FLEX TABLE five sided table

Sometimes less is more. This also applies to our five sided tables. It is missing one corner This is how almost infinite combinations and positioning possibilities are achieved. Whether as a single table, a 2 -seater, 3 -seater, 4 -seate or larger group formations to circular or oval conference situations; whenever the five sided table format is used, multifunctional, flexible learning is possible.

Typical FLEX TABLE: Through the castor (with stop function) the tables can be moved easily and quietly. We avoided the usual metal frame and invested into a 28 mm multiplex tabletop with an HPL coating. It guarantees extreme durability, even if the tables regularly bump against each other.
$\rightarrow$ LLEX TABLE five sided table under license of Einrichtwerk.

## FLEX TABLE five sided table

+ Complete legroom/inclusion
+ No metal frame
+ Stability and durability due to the extra strong multiplex top
+ Low-noise when moved and touch
+ Flexibility due to two roller (with stop function)
+ Available in different heights (size 2-7) available
+ Material boxes incl. rails as supplement
+ Chair suspension, storage basket possible as an addition
+ Acoustic absorber possible
+ Communication traffic light available
+ Stackable up to four tables


## Table sizes:

S 73: $72.9 \times 67.5 \mathrm{~cm}$
M 85: $85.3 \times 72.9 \mathrm{~cm}$
L 100: $99.9 \times 85.3 \mathrm{~cm}$
73 and 85 can be combined, as can 85 and 100: The long side of the smaller table top corresponds to the short side of the next table top.

For a wheelchair, for example, the 85 format can be combined with the 73 format

$\rightarrow$ All tables are available in heights $2-7$ according to DIN ENiT29
Product details of all tables can be found on p. 152 .


Legroom/inclusion
Width of various wheelchairs in cm Power wheelchair: 72 cm
Standard/folding wheelchair: 65-72 cm
Street wheelchair: 77 cm
Wheelchair for disabled sports: $85-100 \mathrm{~cm}$
Children's wheelchair according
to constitution: 46-57 cm
(Source: nullbarriere.de)


54 You have so many options.



Workpacesi in rows

$\qquad$

Pl $\square \square$


## 58 FLEX UP

The FLEX UP is a teacher's podium, the height of which can be seamlessly adjusted. It is equipped with a practical tray made of metal. The cable for a laptop can be coiled up and stored there so it isn't a tripping hazard.

Thanks to the casters, the FLEX UP follows you exactly where you need support.

FLEX UP

+ Height-adjustable teacher and presentation table
+ Space for cables and triple socket
+ Tray for books
+ Cable management using clamps
+ Comfortable release to adjust
the height
+ Braked casters
+ Can be flexibly moved around the room




## 60 FOLD TABLE The little storage wonder.

A table that is child's play to operate. With just wo hand movements, the release can be and the FOLD TABLE can simply be folded togethe and folded up and put to one side. This way you gain more free space and floor space than you can imagine. Thanks to the castors (with stop function), the FOLD TABLE can be quickly can be quickly moved to new locations. Flexible handling without much effort.

FOLD TABLE

+ Folding tabletop
+ Invisible release mechanism
+ Space-saving and easy to stow
+ Can be inserted into each other
+ Durable due to the robust metal frame
+ Stability due to the multiplex tabletop with an HPL coating



## 62 Can a table be sustainable?

Yes, if it is timelessly appealing and unbreakable.

The investment in an educational facility has to be well thought out. It has to take severa factors into account. In our opinion, one of the most important is: it has to be sustainable. What happens if furniture wears out quickly, no longer looks good or even has to be replaced? That's why we developed the A-TABLE

Its surface is made of an extremely strong multiplex tabletop with an HPL coating like those on kitchen countertops. That makes it so robust and durable in comparison to tables with an ABS or hipboard tabletop that even if they constantly bump against each other, the edge will not fall off, guaranteed. That means, it is and remains beautiful, especially if it is completely monochromatic.

## A-TABLE

+ Freedom for the knees and legs makes it easier to get in and out from the side
+ Durable due to the robust metal frame
+ Extremely strong multiplex tabletop with an HPL coating
+ Chair suspension mount optional
+ Front legs with levelling feet
+ In different heights (size 3-6) available



## 64 The most important thing

 is a good table.

## It is no longer enough, to put tables and chairs in rooms.

Interview with Frederik Flötotto, CEO Flötotto Einrichtungssysteme GmbH. The interview was conducted by Thomas Laqua

## Mr. Flötotto where did you just come from?

I got back from the Czech Republic this morning. We put a new furniture production factory into operation a few months ago. In addition to furniture for learning, and everything that entails, we also manufacture products for customised we also manufacture products for custom interior solution in the education sector.
In contrast to Germany, the proportion of female In contrast to Germany, the proportion of fer
colleagues, at approx. 80 percent, is very colleagues, at approx. 80 percent, is very
high there which is positively reflected in the high there which is positively reflected in the
extremely low error rate. With the new production extremely low error rate. With the new production
line, we are supplementing our final assembly, line, we are supplementing our final assembly,
quality control and logistics departments here quality control and logistics departments here
in Gütersloh. This proximity and dependency in Gütersloh. This proximity and dependency
is, of course, highly beneficial to us considering is, of course, highly beneficial to us considering
the global interruptions in supply chains we are currently experiencing.

Scientific findings, flexibility and combinability with respect to function and layout are topics we pursue in our daily work.

## In the 50s and 60s, FLÖTOTTO developed

 pioneering school furniture, like the contouredseat school chair which was sold more than 21 million times. Where does FLÖTOTTO stand today?Yes, you are right about that. I get asked about that a lot. But we don't rest on our past laurels. Ergonomic design, high finishing quality and durable, haptically pleasant materials are still
the primary focus of our product development. They also demonstrate our responsible use of the resources we use. But we want much more. Scientific findings, flexibility and combinability with respect to function and layout are topics we pursue in our daily work. This creates the necessary investment security for our customers who, today, often don't know how they will be using our durable furniture in five, ten or more years. Particularly the framework conditions and processes in which we work on the contentrelated aspects of products and furnishing concepts relevant to the users have completely changed. The speed at which the requirements of education which we have to meet change is no longer comparable to the 50 s or 60 s.

Society in Germany has acted against the interests of children and youths in many areas in the past few decades.

What do you mean by that?
If we consider the climate crisis, the loss of biodiversity, demographic changes, digitalisation and other challenges, we realise that society and other challenges, we realise that society children and youths in many areas in the past few decades. The young generation justifiably wants a safe and worthwhile future on this planet. What we offer them, as a starting point for a start to the most self-determined life possible, is a world that is marked by volatility, insecurity, complexity and ambiguity. Every pupil should, of course,
be offered a stable academic foundation during their educational career appropriate to their individual potential. But that alone is no longer enough to be fit for the future.

Simply conveying and
assessing testable knowledge can no longer be the core purpose of school.

## What else is part of this fundamental set

 of tools?In addition to the ability to read, write and do arithmetic, it also includes data-related and digital literacy, physical and mental health as well as social and emotional skills. However the ability to resiliently adapt to changes is becoming increasingly important. Children and youths should be able to learn to autonomously navigate unfamiliar terrain and find their way in a sensible and responsible manner instead of simply following a set of instructions or orders from their instructors. Simply conveying and assessing testable knowledge can no longer be the core purpose of school. It will become more and more about training children and youths to think critically about the information available all around them by being able to categorise and assess it. Our target should be schools that prepare pupils for "life-long learning" with joy and curiosity. Otto Herz calls it: "Learn in life, live in learning." It will depend more and more on how content is taught in schools and not on what exactly is learned in detail.

## That sounds like a school revolution

 Can you explain it in more detail?To me, school is a place that makes success possible and doesn't document failure." This quote is also from Otto Herz and makes the point quite well. Today, FLÖTOTTO is a relevant developmen partner of school authorities and is in close, daily contact with the responsible teachers at the respective schools. Together, we set up flexible, age-appropriate educational spaces for a closeknit communal life between learners and teachers. The living and learning rooms we have developed improve learning successes and, in the best case scenario, together with the architecture, will also have a positive impact on the immediate vicinity around the school. I also sense, during my visits, that in many cases, schools often do more organising for the teaching of classes and less frequently something for learning.


Upholstered furniture fom the Active collection

Is school then a simulation of a reality that no longer exists?

That's the impression sometimes. I would like to substantiate that please: The school curricula in the individual states are still developed based on a standardised, linear model for learning progress. However, in this system, we start losing many children, starting in grade school. The current "IQB Bildungstrend 2021" [IQB Education Trend 2021] study shows that, among fourth graders, up to thirty percent do not reach the minimum requirements, depending on the competence area.
(Note from the editor: competence areas in the subject of German: "reading", "listening" and "orthography". Competence areas in the subject of mathematics: "numbers and operations", space and shape", "patterns and structures", "sizes and measuring", and "data, frequency and probability".)

And we can't simply improve this situation with more funding because the greatest challenge right now in the education sector is the lack of qualified specialists and teachers, from nursery
school to trade school. If you take the political reform projects for full-day, inclusion and support of children in challenging social situations into account, there will be a deficit of up to 158,700 trained teachers by 2030. The coronavirus catch-up program and the integration of the children from Ukraine aren't included in that calculation.

The world no longer rewards us exclusively for what we know, but for what we can do with what we know.

We no longer live in a world in which the things that are easy to teach and test can also be easily digitalised and automated. The world no longer rewards us exclusively for what we know, but for what we can do with what we know. That is why we need schools that allow for democratic negotiation processes and promote social interaction. That is often not possible in traditional classrooms with the current, minimum equipment.

## What makes room concepts from FLOTOTTO

 different?In summary: the content-related and physica quality. With the educational rooms and spaces designed by FLÖTOTTO, we want to promote human development and cooperate with school authorities and teachers to develop solutions that sensible support the learning process. We want to inspire others to act, experiment and be amazed and promote joy and community at schools.

Our new concepts for learning spaces and open learning areas support children and youths in an age-appropriate manner, from playful learning in the lower grades through to deep learning in secondary level II. That means, pupils can autonomously design their own learning process and familiarise themselves with creativity, critical thinking, cooperation and communication. We offer various coordinated learning environments that allow for a variety of working methods. Rooms that can be used in modified or different ways to support interdisciplinary pedagogy. Mobile furniture and various surface heights that allow activities to be conducted while seated or standing. Larger and smaller room constellations for various temporary settings with soft, padded modules that take the floor into account as a workspace. In cooperation with the multi-award-winning designers and education experts from wonderlabz,
we have made major strides and further developed every aspect of our so-called Flex furniture program. It will be available at the end of 2022 . The Gießen-Ost integrated comprehensive school and the boarding school and full-day high school run by the Louisenlund Foundation were our development partners and they are already furnishing the learning spaces and open learning areas in their new buildings.

fLEx: Grandstand, workplace and stairs
and learners to think more critically and creatively about the relationship between pedagogy and space to be involved in the design of their learning environment.

## How can we make schools future-proof?

We know that school principles want more autonomy and freedom to design. They want a more comprehensive authority to make decision egarding staff selection, the use of resources and the development of the organisation and lessons. Many school principles want to get away from the "hallway school" model and move toward innovative, flexible and open learning spaces. In my opinion, we have reached a point at which we should be talking about the reorganisation of schools on a socio-political level. Today, classes are motley groupings random people with a shared fate in which age and place of residence are the decisive criteria. Unfortunately talents, knowledge, skills and competences do not play a role when putting classes together If we recognise the diversity among pupils, we will promote their individual learning process at their own, personal speed and carefully and incrementally hand the responsibility for their own learning path over to them. This way we can relief the burden on the systems in schools, further develop the role of teachers and improve communal life at schools. The traditiona classrooms should open up and be combined with open learning areas. The examples of schools that have already started the process prove that and bolster my spirits.

Schools, in the best sense of the word, are organisations that learn. For the further development of schools, we require the implicit skills of the teachers.

Schools, in the best sense of the word, are organisations that learn. For the further development of schools, we require the implicit skills m the teachers. The OECD recommend not equating learning with instruction and assessment, equating learning with instruction and assessment instead, with co-construction. That means, but instead, with co-construction. That means in the teaching and learning process. The school in the teaching and learning process. The sche work together on assisting children and youths
in realising their shared goals. FLOTOTTO supports these developments with everything it has to offer.

## In summary, what do you think the

 future of education will look like?Our future, as people, is not predetermined We have control over how things develop in schools. Every child should therefore have experienced self-efficacy in school. With respect to the future, that simply means making a desirable future the standard for our actions today. Far too often, we only see things from the perspective of our experiences or our learned knowledge from the past in development projects in the education sector. We should hope for more for ourselves in the future and dream of that future.

Thank you very much for the interview.

We make intensive use of the conclusion of the affordance theory for our facility design concepts.The qualities with which we create rooms, objects and people are decisive. They are the initial impetus for teaching and learning activities and certain behaviours. Simply put: The things in a room tell us what we should do with them based on how we perceive them; hey are of a demanding nature. The ability to perceive and utilise affordances an depends on the intentions of the teachers or learners and is influenced by their individual backgrounds, social environments and cultures. We thus consciously and actively promote more the divers pedagogic practices that make explorative, interactive, playful and in-depth learning experience in schools possible. We encourage the teachers

## 72 Storage space on casters is

 what we call STORE FLEX.Why can't sideboards be furniture? That's why the STORE FLEX on casters is quickly where you need it. It easily acts as a storage space for students' material boxes as well as an intentional barrier so groups can work without bothering each other.

The multi-coloured boxes are practical and holds DIN A4-format books, workbooks and utensils. Students simply remove their box and push it nto a separate track under their FLEX TABLE. So quick, so easy.

## STORE FLEX

+ Mobile storage space
+ Can be used as a room divider
+ Countless partitioning options
+ Highly durable (body is screwed together and has a 19 mm back wall)
+ 15 different interior partitions available
+ With integrated brake function


## Boxes

+ Removable boxes
+ Two box sizes
+ Can be pushed under our tables
using a separate rail
+ Lightweight
+ Pull-out arrestor for the boxes
+ Boxes available in a variety of colours


вох 1


вох 2

74 The STORE FLEX series impresses in every compartment.

Two-compartment grid
$(\mathrm{W} 705 \times \mathrm{H} 820 \times$ D500 mm)



Three-compartment grid (W1050 $\times$ H820 $\times$ D500 mm)








SToRE FLEX9
Equiped with $8 \times$ ㅇox 1 and 6 shelves

$\stackrel{\text { SToRE FLEX }}{\text { Equiped }}$




HETER



76 Storage space without casters is what we call STORE FIX.

Not all cabinets and storage furniture has to be moved around. That's where the STORE FIX furniture comes in as it is permanently integrated into the classroom. They create a permanent space and order with an organised structure.

The multi-coloured material boxes are practical and holds DIN A4-format books, workbooks and utensils. Students simply remove their box and push it onto a separate track under their FLEX TABLE.
$\rightarrow$ The STORE FIX mate

## STORE FIX

+ Stationary storage space
+ With shelves
+ Material boxes can be integrated
+ Classic material cabinet
+ Lockable
+ $270^{\circ}$ object hinge

$\underset{\substack{\text { STORE FIX } \\ \text { with oors }}}{ }$



$$
\begin{aligned}
& \text { SToRE EIX4 } \\
& \text { without doors }
\end{aligned}
$$


$\underset{\substack{\text { STORE FIX } \\ \text { interiot view }}}{\substack{\text {. } \\ \hline}}$
Guipeod with $18 \times$ x $8 \times x$
and 8 sheves


$$
\begin{aligned}
& \text { without doors } \\
& \text { Sheffequiment: } \\
& \text { with theneveves }
\end{aligned}
$$

Cabinet heights: H850 / 1920 mm
Usable interior depth: 430 mm
You can find more models under www. floetotto. de Reference projects $\rightarrow$ p. 64
Tech. Data Sheet $\rightarrow$. 166

STORE EXX 10
without doors

| Shelf equipment: |
| :---: |
| with 8 sheveves |



## 78 Whichever angle you look at it.

## Our MOVING BOARDS are pretty impressive.

## Ruling lines for chalk surfaces





Note:
Chalkbo halkboard and whiteboard
Chalkboard and whi
made of magnetic
enamelled steel she enamelled steel sheeting


| Wall rail <br> + lies extremely flat against the wall <br> + can be endlessly expanded <br> + covered, integrated clamping oller for paper/posters |
| :---: |
| Boards <br> + both sides can be used <br> + lightweight (with standard <br> dimensions, $1 \times 1 \mathrm{~m}$, only 3 kg ) <br> + safety fitting |


| Available colours |
| :--- |
| for chalk surfaces |

Anthracite
Blue
Green


Available colours
for whiteboards
White

+ Mobile board system
+ Boards are lightweight
+ Hard foam core is as light as a feather
+ Can be easily hung into the rail system
+ Safety fitting (jostle-proof)
+ Several different surfaces
+ Both sides of the board can be used
+ Thanks to the special fitting, boards can be hung up on any side
+ Whiteboard surface made of enamelled steel sheeting = 25-year guarantee

Our response to digitalisation: The classic pylon board was replaced by a large, digital smart board long ago. That doesn't mean however, that boards are out. The just have to be completely reinvented. That's exactly what we did. The MOVING BOARDS are avail able as wall boards, pinboards, whiteboards and projection boards. Since children are meant to hang them up and take them down we made it lighter, but we didn't skimp on quality.


## 82 Simply to the point.

Sometimes, you have to get to the bottom of things. In a group, sitting together on the floor That requires a place to sit. The Flötotto Dot seat cushions unite simplicity and design. They are inspired by traditional cushions but the shape and comfort has been updated. They are as durable and user-friendly as the rest of Flötotto's products.

Whether indoors or outdoors, the Dot seat cushions are perfect for the most intensive use and maximum strain in everyday use. They are water-resistant, extremely tempera ture-resistant and completely fireproof. They are also completely stable under UVA light and hold their shape and colour throughout their entire service life. They are easy to clean.

## DOT

+ UV resistant
+ Recyclable
+ Easy to clean and disinfect
+ Flame retardant
+ Easy to transport with a trolley
+ Water-repellent
+ Suitable for indoor and outdoor use

RedFlamingo Pi
Flamingo Pink
0
Beige
0
Orange


## 84 This is how safe your hallways can be.



Differentiated learning encounters many schools with major spatial challenges. Not the "how? but the "where?" is the crucial question. We have taken a look at the often generous space in the corridors and developed a solution for precisely this purpose. Corridors offer valuable space for meetings, breaks and for learning. Our STEEL furniture is firmly bolted to the floor, so that important escape and rescue routes remain free. In addition, they are non-flammable. The hard-wearing, finely textured powder coating is pard-wearing, finely textured powder coating is is versatile as a workplace for individual, partner is versatile as a workplace for individual, partne
and group work for concentrated work outside and group work for concentrated work outside
the classroom, or as a place for discussions with the classroom, or as a place for discussions with eachers and parents; as a recreation room for breaks or free periods; STEEL can even be used in the hallway.

## STEEL

+ Creates additional learning spaces
+ Non-combustible
+ Robust surface
+ Free escape routes, as furniture is firmly anchored to the floor + Rounded edges

STEEL versions:


Bench with backrest
Dimensions: 443 T 388 B96/116/136 cm
Bench
Dimenions: H43 T38 B98/116/36 cm



## 88 This is how differentiation

 succeeds.

| Colouring | 94 |
| :--- | :--- |
| Discussing | 102 |
| Eating | $92,106,108,109$ |
| Gathering | 40,44 |
| Learning | $24,34,36,44,52,56,64$ |
| Making music | 98 |
| Managing | 102 |
| Painting | 94 |
| Planning | 96,102 |
| Playing | 100 |
| Presenting | $40,44,59,61$ |
| Taking a break | $86,92,100,105,106,108$ |
| Waiting | $101,104,105,106$ |
| Working | $44,84,86,97,102$ |
|  |  |



## 94 So good ideas are put

 on the table.


## 98 A joy before the very

 first note is played.

100 Comfortable sofas don't just belong in the living room.


## 102 The administration



104 School furnishings with a single theme should be possible.
And they should impress across the board.


106 The best part of school is the breaks.


108 Eating in style.



Germany

| Hans-Böckler-Realschule | Bochum |
| :--- | :--- |
| Felix-Fechenbach-Berufskolleg | Detmold |
| Studentenappartements Headquarter Dresden | Dresden |

Theodor-Fliedner-Gymnasium der
Evangelischen Kirche Rheinland
Folkwang Universität
Steinparkschulen Grund- und Mittelschulen
Stiftung Louisenlund
Michaelis Schule
Wirtschaftsgymasium St. Pauli
Universität Kassel
Feuerwehrhaus Leverkusen
Residenztheater Bayerisches Staatsschauspiel
Oskar-Maria-Graf-Gymnasium
Thomas Morus Gymnasium
Medienhaus Osterholz-Scharmbeck
Berufliche Oberschule
Junior Universität

International
Tourismusberufsschule, Villach
Aurora School, Espoo
Opinmäki School, Suurpeto
Jakomaenskole
Hong Kong Academy, Hong Kong
Malvern College, Hong Kong
International School of Aisa, Tokyo
Kalvebodskole
Mondial College, Nijmegen
Nirdwin College, Leeuwarden
Vijverhofschool, Tegelen
Haugenstua Skole, Oslo
Marjorstuen Skole, Oslo
Vilberg Ungdomskole, Eidsvoll
La Fundacio Jesuites Educació, Barcelona
Private School L’acore, Geneva
Dar Al Marefa Private School, Dubai
Sheikh Zayed Private Academy, Abu Dhabi
Westfield Shopping Centre, London

Bochum
Detmold
Dresden

## Düsseldorf

Essen
Freising
Güby
Gütersloh
Hamburg
Kassel
Leverkusen
München
Neufahrn
Oelde
Osterholz-Scharmbeck
Unterschleißheim
Wuppertal

## Austria

Finland
Finland
Helsinki
Hong Kong
Hong Kong
Japan
Kopenhagen
Netherlands
Netherlands
Netherlands
Norway
Norway
Norway
Spain
Switzerland
United Arabic Emirates
United Arabic Emirates
United Kingdom







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Skid chair ..... 132
Four-legged frame ..... 134
Four-legged chair w. castors ..... 136
Four-legged wooden frame ..... 138
Four-star wooden frame ..... 140
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126 PRO CHAIR Plusminus



128 PRO CHAIR / PRO ARMCHAIR swivel chair


| $\overline{\text { Seat cushion }}$ |  |  |
| :--- | :--- | :--- |
| $\overline{\text { Stackability details about seat cushions on page } 167 .}$ |  |  |
| Accessories |  |  |
| Fon-stackable. Can be put up with metal bracket. |  |  |
|  |  |  |

The footrest is attached and locked into place with a large knurled screw.
The ring always chrome-plated and the interior crosspiece is always black. The ring always chrome-plated and the interior crosspiece is always black
Pneumatic springs available in different heights (up to bar stool height). Pneumatic springs available in different heights (up to bar stool height).
Seat heights: $560-810 \mathrm{~mm}$ (frame with castors), $500-750 \mathrm{~mm}$ (frame with glides).




$\rightarrow$

## 132 PRO CHAIR skid chair



| Seat cushion | All details about seat cushions on page 167. |
| :---: | :---: |
| Series connector | Series connector, static or extendible, chrome-plated. Also for retroactive installation. |
| Stackability | Stackable <br> 8 chairs without seat cushions, volume: H $1.12 \mathrm{~m} \times \mathrm{W} 0.53 \mathrm{~m} \times \mathrm{D} 0.77 \mathrm{~m}$ <br> 6 chairs with seat cushions, volume: H $1.10 \mathrm{~m} \times$ W $0.53 \mathrm{~m} \times \mathrm{D} 0.83 \mathrm{~m}$ |
| Stack guard | Full-surface stack guard <br> The stack guard is included in the scope of delivery. Standard stack guard for chairs without cushions, full-surface stack guard for chairs with seat cushions to prevent impressions in the seat cushion. |
| Accessories | Tablet, tray <br> Writing tablet, MDF-coated, bracket made of 25 mm round steel pipe, tray made of wire mesh |
| Transport |  <br> Suitable for the four-legged frame and skid frame <br> Dimensions of the chair cart for 8 chairs with seat cushions: $\mathrm{H} 1.26 \mathrm{~m} \times \mathrm{W} 0.58 \mathrm{~m} \times \mathrm{D} 1.02 \mathrm{~m}$ Dimensions of the chair cart for 16 chairs without seat cushions: H $1.56 \mathrm{~m} \times \mathrm{W} 0.58 \mathrm{~m} \times \mathrm{D} 1.02 \mathrm{~m}$ Dimensions of the chair cart for 32 chairs without seat cushions: H $1.56 \mathrm{~m} \times \mathrm{W} 0.58 \mathrm{~m} \times \mathrm{D} 1.67 \mathrm{~m}$ |
| Fire protection | Seat shell available in a flame retardant (optional) version, <br> tested in accordance with DIN 4102-1 for building material class B1. <br> Test certificate no. 230008573 can be sent upon request. |
| DXF, DWG data | Data in a variety of formats for architects and planners available upon request. |
| Dimensions |  |
| 2/2 |  |

## 134 PRO CHAIR / PRO ARMCHAIR

four-legged frame


## 136 PRO CHAIR / PRO ARMCHAIR

four-legged frame with casters


## 138 PRO CHAIR / PRO ARMCHAIR

four-star wooden frame




A Felt glider (set of 4)
B Hyper glider (set of 4 )

## 140 PRO CHAIR / PRO ARMCHAIR

four-star wooden frame




## 142 PRO CHAIR / PRO ARMCHAIR

four-star aluminium frame


## 144 PRO CHAIR

skid frame, bar stool

| Seat cushion | All details about seat cushions on page 167. |
| :---: | :---: |
| Full cushion | Covered with core leather. |
| Stackability | Stackable <br> 8 bar stools without seat cushions, volume: H $1.12 \mathrm{~m} \times \mathrm{W} 0.53 \mathrm{~m} \times \mathrm{D} 0.77 \mathrm{~m}$ <br> 6 bar stools with seat cushions, volume: H $1.10 \mathrm{~m} \times \mathrm{W} 0.53 \mathrm{~m} \times \mathrm{D} 0.83 \mathrm{~m}$ |



146 PRO STOOL high, medium, low


| Stackability | low is stackable. |
| :---: | :---: |
| Equipment | high and medium, optionally with back brace |
| Fire protection | Seat shell available in a flame retardant (optional) version, <br> tested in accordance with DIN 4102-1 for building material class B1. <br> Test certificate no. 230008573 can be sent upon request |
| DXF, DWG data | Data in a variety of formats for architects and planners available upon request. |
| Dimensions |  |

## 148 PRO CHAIR / PRO ARMCHAIR



product details


Felt glider

## 150 FLEX TABLE



152 FLEX TABLE five sided table S, M, L


| Recommended use | School, university, educational facilities, seminars |
| :---: | :---: |
| Models | Feet made of powder-coated steel pipe ( $\varnothing 50 \mathrm{~mm}$ ). These are fixed to the tabletop with a visible connector. At the same time, the connector <br> is used to fix our communication light and the stand absorber to the tabletop <br> We also offer the FLEX TABLE without a visible connector |
| Tabletops | Birch multiplex from sustainable cultivation PEFC (certificate registration no. TUEV-PEFC-COC-160662-012). <br> With HPL coating ( 28.6 mm ), which makes it highly durable and washable. 215 Edge open, fine sanded (edge oiled, against surcharge). |
| Table leg colours |  |
| Table height | Size 2: Table height 53 cm <br> Size 3: Table height 59 cm <br> Size 4: Table height 64 cm <br> Size 5: Table height 71 cm <br> Size 7: Table height 82 cm |
| Weight | $\begin{aligned} & \text { Size S: } 15.4 \mathrm{~kg} \\ & \text { Size M: } 17.2 \mathrm{~kg} \\ & \text { Size L: } 20.6 \mathrm{~kg} \end{aligned}$ |
| G1ider |  |
| Stackability | Max. 4 tables |
| Accessories | Chair suspension, material boxes, 3 -way socket (clampable), communication light, Stand absorber |



## 154 FIX TABLE column table

|  |  |
| :---: | :---: |
| Recommended use | School, university, educational facilities, seminars |
| Models | Feet made of powder-coated steel pipe ( $\varnothing 80 \mathrm{~mm}$ ) This is firmly fixed to the multiplex board. |
| Tabletops | Birch multiplex from sustainable cultivation PEFC (certificate registration no. TUEV-PEFC-COC-160662-012). <br> With HPL coating ( 28.6 mm ), which makes it highly durable and washable. <br> 215 Edge open, fine sanded (edge oiled, against surcharge) |
| Table leg colours | colour powder-coated |
| Table height | Column tables round/square/rectangular: 76 cm |
| Weight | Round column table D800 $=33.7 \mathrm{~kg}$ <br> Round column table D1000 $=39.1 \mathrm{~kg}$ <br> Square table $800 \times 800=36.5 \mathrm{~kg}$ <br> Square table $1000 \times 1000=43.5 \mathrm{~kg}$ <br> Rectangular table $2000 \times 800=79.2 \mathrm{~kg}$ <br> Rectangular column table $2200 \times 800=82.3 \mathrm{~kg}$ <br> Rectangular column table $2400 \times 800=85.4 \mathrm{~kg}$ |
| G1ider | Standard universal glides or felt glides, each with height compensation. |
| Stackability | Not stackable. |




| Accessories | Chair suspension, bag hook |
| :---: | :---: |
|  | B0x 3 |
|  | Inner dimension: $28 \times 32 \times 7.5 \mathrm{~cm}(W \times D \times H)$ <br> Outer dimensions: $31.5 \times 37.6 \times 7.5 \mathrm{~cm}(W \times D \times H)$ |
|  | Colour: Light grey - |
|  | Note: BOX 3 is shorter than BOX 1 and 2 and is only used for the A-TABLE For details on BOX 1 and 2, see page 166. |
| DXF, DWG data | Data in a variety of formats for architects and planners available upon request. |
| Dimensions |  |
|  |  |
| Special tabletop design | Upon request. |

158 FLEX UP
FIX UP


## 160 FOLD TABLE

DOT


| Recommended use | School, university, educational facilities, seminar rooms |
| :---: | :---: |
| Models | Foot frame made of powder-coated steel pipe ( $\varnothing 35 \mathrm{~mm}$ ). <br> The frame is permanently screwed to the tabletop ( $28,6 \mathrm{~mm}$ ) <br> Highly durable multiplex tabletop with HPL coating. |
| Tabletops | 28 mm multiplex board with HPL laminate from sustainable PEFC (certificate registration no. TUEV-PEFC-COC-160662-012) cultivation. No. TUEV-PEFC-COC-160662-012) cultivation. Raw edge, finely sanded (oiled edge, at an extra charge) |
| Table leg colours |  |
| Table height | 760 mm |
| Weight | approx. 30 kg |
| G1ider | Soft castors for hard floors, with stop function Castors diameter: 80 mm |
| Function | Folding tabletop with invisible release mechanism Can be inserted into each other to save space. |
| DXF, DWG data | Data in a variety of formats for architects and planners available upon request. |
| Dimensions | $\square$ $\begin{aligned} & \text { B } 1200 \times \text { D } 600 \times H 760 \mathrm{~mm} \\ & \text { B } 1400 \times \text { T } 700 \times H 760 \mathrm{~mm} \end{aligned}$ |
|  |  |


| $\overline{\text { Recommended use }}$ |  |
| :--- | :--- | :--- |

```
- 01 Light Grey
l
O4
*) O6 Smoke
*)
*)
```


## 162 MOVING BOARDS





166 STORE FLEX / STORE FIX



## 168 FLÖTOTTO all around the world



Design
PRO CHAIR Collection, Konstantin Grcic
A-TABLE, Claus Jakobsen
FOLD TABLE, Jouni Leino
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STEEL, Johannes Steinbauer
DOT Sitzkissen, Studio Inma Bermúdez/Sentat

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## Certification

we are certified according to DIN EN ISO 9001:2015 integrated quality management and DIN EN ISO 14001:2015 integrated environmental management.

## $|\pi| \sqrt{20}$ <br> Auszeichnungen

事
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Q 2023.

## The future of the world is decided in schools.

# A lot of people go to school． 

## Flötotto is already there．


[^0]:    Ingeborg Fröhlich, teacher

