



# Made for strong Connections

Our unique Components in Close-up



# Berliner Seilfabrik

## Play equipment for life

This slogan means a lot to us! It defines how we work and construct playgrounds. In the 50 years that we have been dealing with playground equipment, we have built up an extensive product range with creative ideas and industry expertise. We offer unforgettable, fascinating designs for all types of play, whether indoors or outdoors.



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# Here, everything fits!

Berliner Seilfabrik's playground equipment is low-maintenance and minimises follow-up costs. That is why we offer a product guarantee of up to 15 years. We accompany our customers from the planning stage through the entire service life of our play equipment. During assembly and maintenance, you can rely on our expert staff or authorised specialist companies, which guarantees professional work. Even after years of intensive use, wear and tear does not mean the end for our robust play equipment. We can even manufacture replacement netting for our oldest rope climbing frame dating back to 1971. It is our goal to design our technically complex playground equipment in a way that doesn't compromise the function, stability and the safety of the children. Thanks to our lifelong guarantee to provide replacement parts, even after fifty years our play equipment remains enjoyable for children.

In addition to individual concepts and designs, our technical solutions make the difference, too! International patents are proof of our technological lead. Our playground equipment meets the requirements of DIN EN 1176, ASTM F1487 and CSA Z614. It is highly resilient due to the choice of materials and the dimensioning of the components. All structural elements of our Frameworx® space frame enjoy long-term protection against corrosion. It is our goal to design our technically complex playground equipment in a way that doesn't compromise the function, stability and the safety of the children. Our environmental management and quality management are ISO 14001 and ISO 9001 certified.

Indicates products and product groups in which the component shown is used.

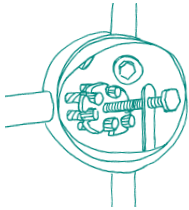




## Ball-Connector

- basic element for all Frameworkx® structures for Berliner spatial net devices to connect the tubes and nets
- equipped with the interior AstemTT® spatial net tensioning system
- securely locked via durable EPDM lenses, yet access to internal system
- maximum safety: all structurally necessary equipment components banned from the play area
- easy assembly and maintenance due to even tensioning and re-tensioning
- corrosion prevention, solvent free epoxy-polyester powder coating

+ spatial nets equip. with AstemTT® tensioning system (e.g., Univers, Greenville) • Tube Connections (e.g., Twist, Urban Design, Woodville, Greenville, Geos)



## Rope

- produced in-house in our own rope manufacturing
- stranded with max. 63 rpm
- highest rating on quality and technical specifications
- wide range of diameters, metal cross-sections and colour variations
- suitable ropes for a wide range of purposes and loads
- high abrasion resistance and colour fastness due to polyester yarn in carpet quality covered outer strands

+ Berliner Play Equipment



## Cloverleaf Ring

- fixes the crossing point of two ropes in the spatial net, without forming any entanglements
- transfers forces directly from rope to rope
- high-strength, non-corroding aluminium alloy
- enables replacement of individual rope components

+ in all spatial nets i.e.: Univers • Polygodes • Greenville







## Terranos-Clamp and its Connections

- central element for the modular combination of different climbing elements and play equipment from different product groups
- connection element for connecting ropes, chains and tubes to the posts
- continuously height-adjustable
- connection of clamp halves secured via vandalism-proof hardware
- corrosion-protected, solvent-free epoxy-polyester powder coating
- ⊕ all structures with connections to posts Ø 133 mm e. g.:  
Terranos & Terranova • CombiNation • Greenville • Woodville • Univers



## Frox

- bolted directly to the Terranos-Clamp
- connects ropes to posts without any additional mechanical elements
- quicker, more cost-efficient replacement due to two-part design of the included Frox ball
- flexible attachment of ropes in a wide range of angles possible
- ⊕ Terranos & Terranova • Greenville • HodgePodge



## Chrox

- bolted directly to the Terranos-Clamp
- used to connect ropes with chain connection to the Terranos-Clamp
- simple adjustment of the chains on site
- compensation of installation inaccuracies
- no pinch points and sharp edges in the reach of children
- ⊕ Terranos & Terranova • CombiNation • Greenville



## Tube

- used to connect tubes to posts
- can connect tubes in a wide range of angles
- ⊕ Urban Design • Woodville • Greenville • HodgePodge





# Top Tensioning Point

- enclosed tensioning system inside the central mast
- allows for even tensioning and re-tensioning
- easy installation and maintenance
- maximum safety: all structural parts inaccessible within the play area

+ central mast structures: Pentagodes



# Spreader-Bars

- a multiple of the play volume due to the spanned spatial net
- provides the Pentagode with its unique shape

+ central mast structures: Pentagodes



# Anchor-Point

- clean transition into the ground, even with artificial fall protection
- secure fixing of the ropes in a lasered stainless steel disc
- maximum safety: all technical structural parts inaccessible within the play area

+ central mast structures: Pentagodes

# Tensioning Foot

- encapsulated tensioning technology in the foundation tube
- enables even tensioning and re-tensioning
- maximum safety: all structurally necessary equipment components banned from the play area
- simple assembly and maintenance
- clean transition into the ground, even with artificial fall protection

+ central mast structures: Tetragodes, Trigodes, PentaBoo







## T-Connector

- secure interlocking connection of rope end points without damage to the rope, thanks to steel swaging
- fixation of steel swaging in the interior pocket
- high slip-resistance, secure hold of rope connections
- corrosion-resistant, recyclable aluminium alloy
- impact-resistant at any temperature, greatest security against vandalism
- no gaps, edges or openings that can injure a child's fingers

 Polygodes • Univers • Greenville • Twist & Shout



## Ballknot

- fixation of rope crossover points in the flat net using secure, interlocking Ballknots
- high slip-resistance, secure hold at the crossover point position
- corrosion-resistant recyclable aluminium alloy
- impact-resistant at any temperature, greatest security against vandalism
- no gaps, edges or openings within reach of children
- international patent application for the new version

 all planar nets • Terranos & Terranova • Geos  
all access nets • Bridges • Tunnels



## Charlotte-Connector

- patented interior fastening and tensioning system for rope ends in the tube
- fastening without hooks or visible swaging – no catch points possible
- simple exchange of pre-fabricated nets on site without additional adjustments
- compensates for inaccuracies in installation

 Twist & Shout

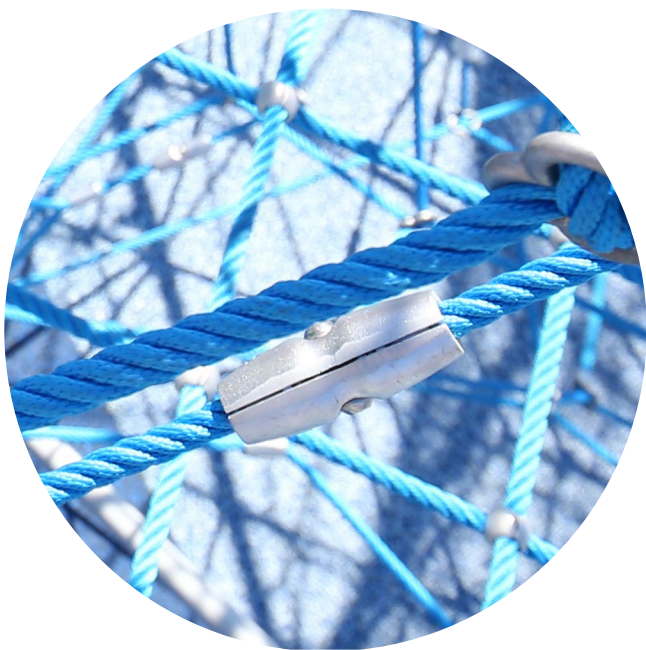




## Connecting-Clamp

- connects rope ends that converge
- guarantees replaceability of single rope sections
- consists of two halves
- fixation of steel swaging in interior pockets
- no gaps, edges or insecure openings

 Univers • HodgePodge • Tunnels • planar nets



## Tube-Clamp

- well designed component for connecting rope elements to tubes of the Berliner Frameworkx®
- no dangerous edges or pinch points
- tensile load on rope extends through high-strength steel swaging

 various add-on components • Greenville • HodgePodge • Univers



## Tab & Shackle

- alternative connection of rope elements with particularly high load
- bolted and welded version
- high-strength connection between rope and tube or Terranos-Clamp through shackle bolt connection
- quick assembly by direct pressing of shackle and rope
- compact construction without crushing and pinch points
- custom manufactured for Berliner, adapted to various needs

 for special construction • Wasp Nest suspension • suspension of various connection elements







## Textile Membrane

- membrane made from high-tech fabric
- resistant against UV-light and wind loads
- dirt-repellent
- 100 % recyclable
- allows for individual printing

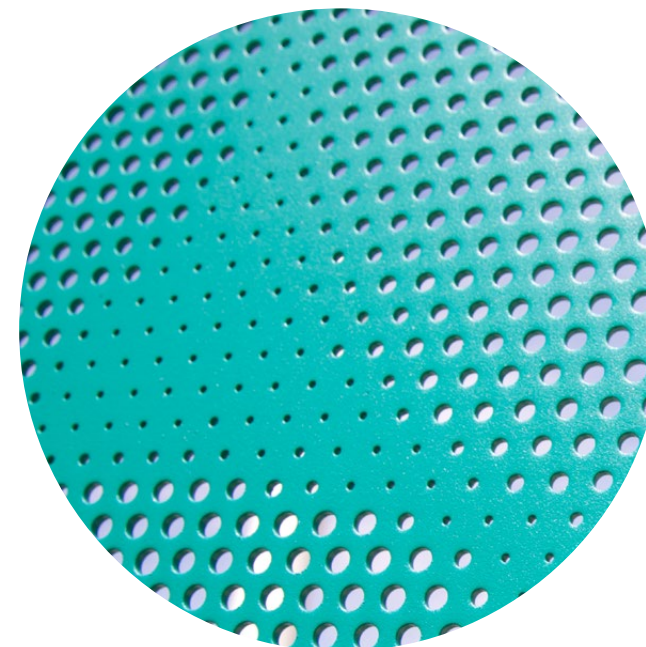
 Lunia • Leaves • LevelUp™



## Polynode

- patent-pending four-part ball clamp
- takes into account the five-degree inclination of the posts
- fixes the horizontal tubes without screws
- has four tube connections which can be sealed by rubber bungs when not in use
- allows modularity of the LevelUp play equipment
- connection for access components
- individual colour design possible

 LevelUp™



## Perforated Panels

- customisable pattern
- motif appears three-dimensional through the representation of the holes
- perforations are between 2.1 mm and 7.5 mm

 LevelUp™



# Rubber Belt and Egg-Clamp

- creates long-lasting connection between rope and rubber membrane
- abrasion-resistant belt rubber in various shapes and sizes
- durable and vandalism-proof rubber membrane due to textile reinforcement and density of the material
- excellent UV-resistance
- made of recyclable material

+ Greenville • Polygodes • Univers • Terranos & Terranova • CombiNation



# Donut

- interlocking attachment of ropes to rubber mat through predefined compression connection
- extreme durability due to predefined pressure ratios
- fixes and protects the rubber mat
- shape specially adapted to the application

+ Rubber Bridge • Chessboard Bridge








## Rubber Rocker Bearing

- heavy-duty, rubber bearing technology enclosed and protected inside the system ball
- maximum flexibility and smooth rocking experience without hard impact
- no recoil of the play structure
- vandalism-proof

 Urban Design (e.g., Beetles, Freeride, Butterfly)



## Rubber Tilt Bearing

- heavy-duty, form-fit connection of stainless-steel components inside playpoints' support
- maximum flexibility and smooth rocking experience without hard impact
- technical elements enclosed inside tubes
- no pinching points in the playing area due to rubber clamping protection

 Urban Design (e.g., Hula-Loop, Over Easy, Windrider)



## Pivot Bearing

- double-row tapered roller bearing enclosed and protected inside the central support
- smooth and quiet
- easy maintenance and replacement

 Urban Design (e.g., Disk, Eddie, Fireball)





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