

# REFERENCE

## M24 SLEEVE BOLT SPECIAL ROTATING PIECE

## Play and climbing nets

### PROJECT DATA

#### Short description

Special bolt for fastening climbing nets to the main structure of a wide variety of climbing frames

#### System element details

M24 sleeve bolt for ropes to feed through and for fastening to main structures

1,500 units (annual requirement for standard climbing nets)

#### Technical parameters

Sleeve bolt for fastening climbing nets

Chromium nickel steel 1.4301

M24 male thread with coating

Through hole to hold the rope

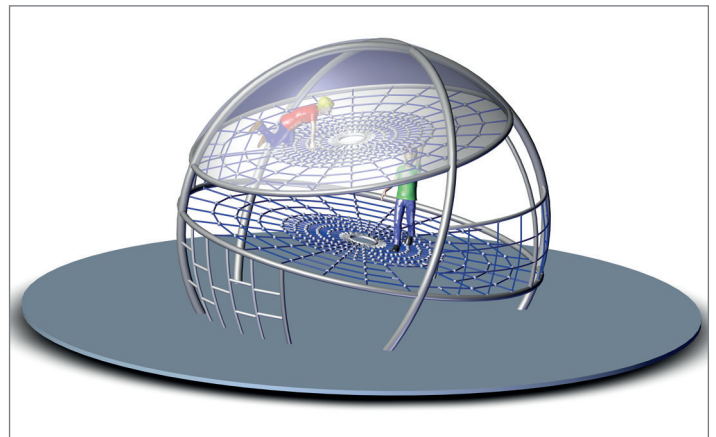
All edges feature curves

Bolt head with 30 mm width across flat

Screw length: 30 mm

#### Country, year

Germany, 2019–2020



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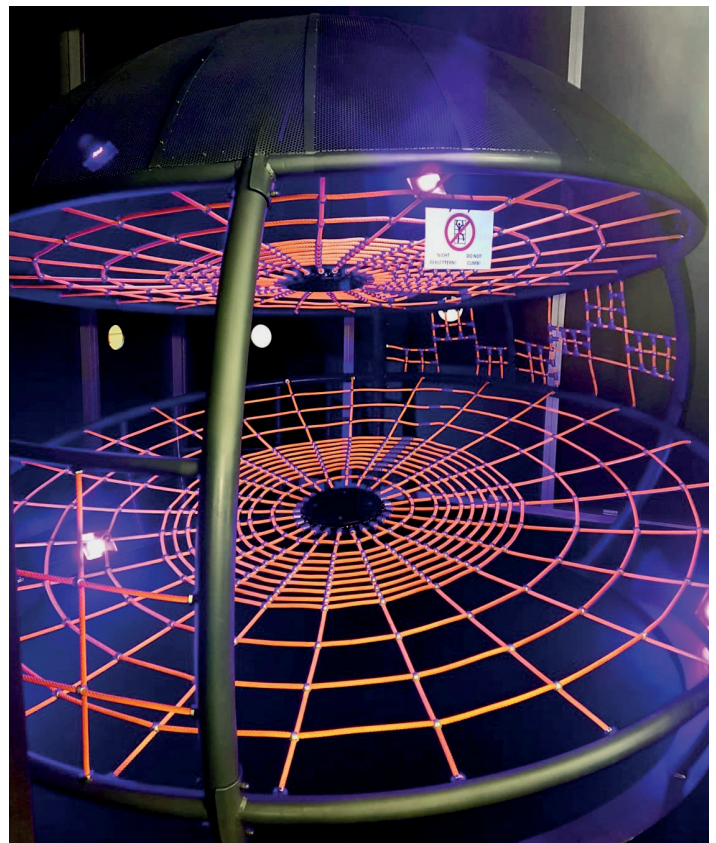
### PROJECT DESCRIPTION

Net climbers and climbing frames are primarily used in schools, preschools and public spaces. Mürmann Gewindetechnik GmbH was commissioned to manufacture sleeve bolts for rope nets. Special sleeve bolts were designed to fasten the rope nets to the main structure. The component was optimised in close cooperation with the partner. These sleeve bolts were used in the partner's Climbing Moon product, for example. The Climbing Moon is 3 m in height and 3.6 m in diameter. The drop from the top net to the lower one is 1.65 m. The entire net structure lights up under UV light.

### SOLUTION

Functional, safe, removable screw sleeve for single cables to feed through and for fastening into welded-on threaded sleeves on the main structure.

Can be removed and safe reuse is guaranteed thanks to special thread locker with 360° polyamide coating.



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