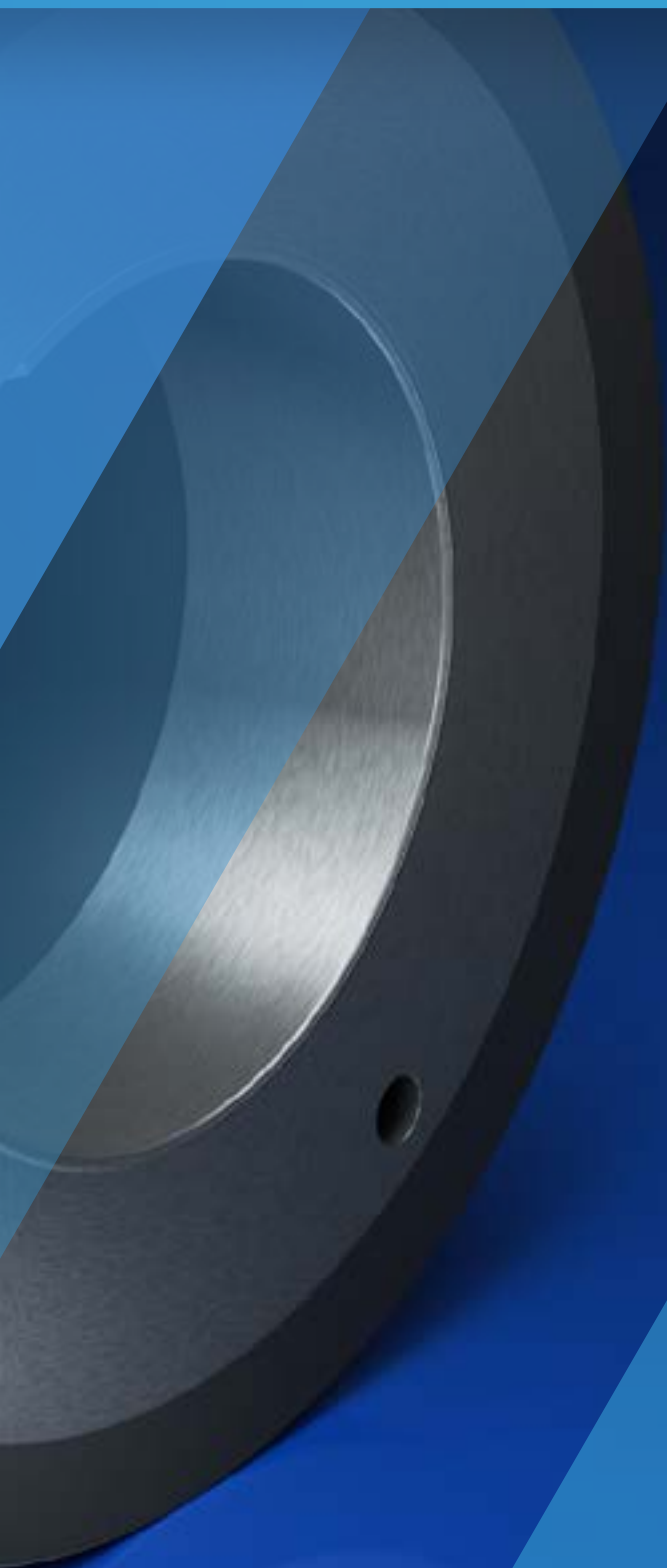


# Sleeves & Bridges



TECH SLEEVES

# Introduction of sleeves & bridges

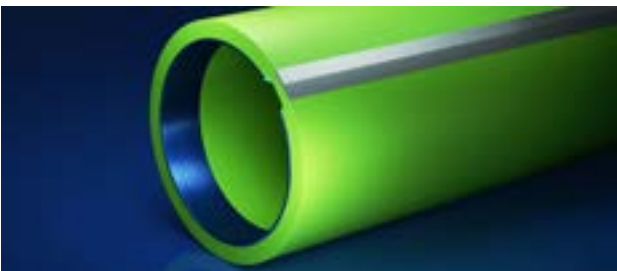


At **Tech Sleeves®**, we manufacture composite printing sleeves and bridges (adapters) for the global flexographic industry. By using the highest quality of materials, we ensure durability, consistency and dimensional stability.

The core of our sleeves and bridges are built using 2-component vinyl-ester epoxy resin combined with Spherecore and Dyneema®. This leads to an ultra-high strength composite core that guarantees form stability and ensures resistance to bouncing. **Tech Sleeves®** and **Tech Bridges®** are qualified for high printing speed of up to 800m/min, or 2,624 ft/min.

In addition to these high quality materials, Tech Sleeves® also offers additional features like sealed ends, the full inner metal ring, the metal cutting line and an outer metal ring to increase the sleeve and bridge lifetime. RFID chips and magnets can be added to both sleeves and bridges on request.

**Tech Sleeves®** offers a variety of sleeves and bridges depending on the needs of the customers.



## Tech Sleeves®

Tech Sleeves® are available in 3 different versions:

## Tech Bridges®

Due to its application, Tech Bridge® is only available in our most advanced version:

Tech®

Tech® Pro+

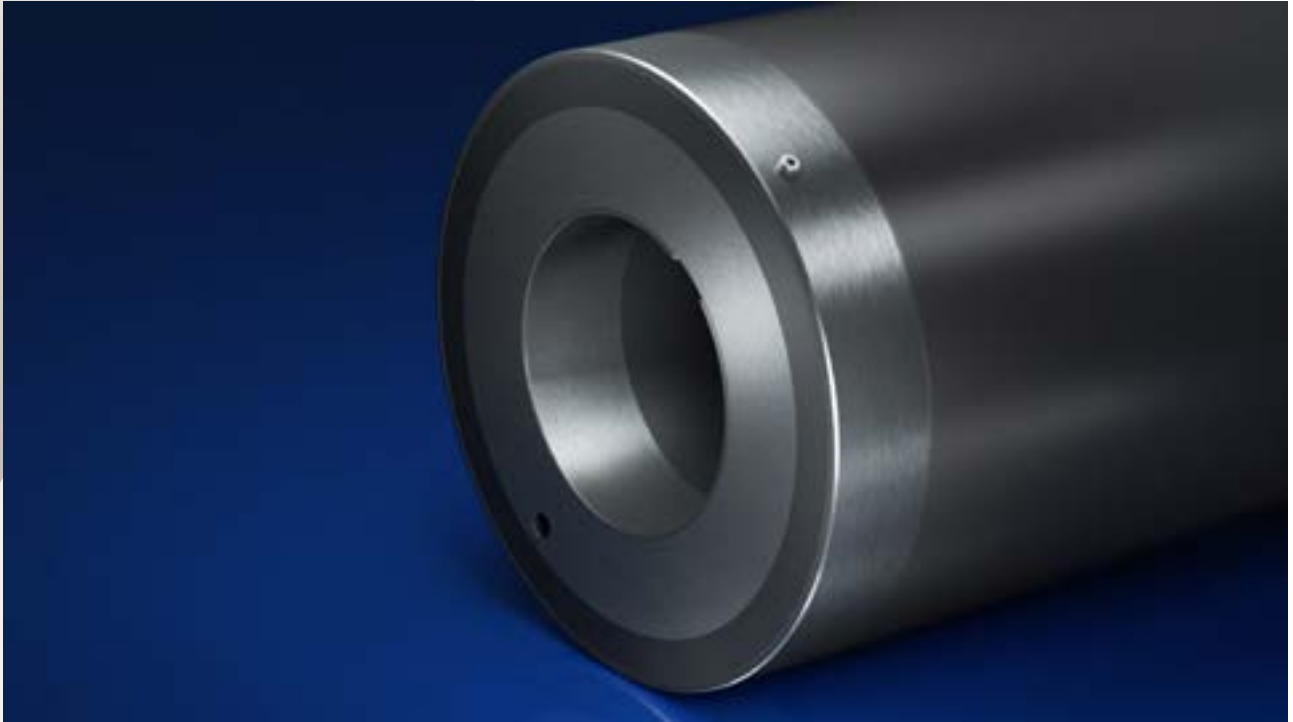
Tech®Pro

Tech® Pro+



TECH SLEEVES

# Tech Bridge® Hard



## Description

**Tech Bridge® hard** has an ultra high strength composite core complemented by a fiber-reinforced outer shell, which makes it suitable for high speed printing. It is available with a separate air connection or as air-through. Miller valves are standard for Separate Air Tech Bridges® Hard that have a minimum wall thickness of more than 25mm. This high quality Hard Coated Bridge Sleeve is suitable for all plate sleeves.

# Cross-section

- 1

**Innermost Core**

  - Flexible and expandable innermost core. (1 mm)
  - Contains Dyneema® that offers maximum strength with minimum weight.
  - Dyneema® doesn't fray and is up to 40% stronger than aramid fibers such as Kevlar®.
  - Prevents slipping of the sleeve on the mandrel.
  - Extremely durable and resistant to moisture, UV light and chemicals.
  
- 2

**Foam Layer**

  - Compressible Foam Layer. (1 mm )
  - The compressible Foam Layer has high rebound resilience and is up to 50% compressible without bulging.
  - Reduces bouncing and enables the sleeve to have a perfect fit on the mandrel.
  - Resistant to permanent deformation, good abrasion resistance from aging, weathering and cleaning solvents used for polymer plate cleaning.
  
- 3

**Techcore**

  - Stitched, Bonded and Compressed Spherecore material in various thicknesses.
  - Contains a filament fiber base which is volumized by fiberglass infused with Epoxy Vinyl-Ester-Resin.
  - Light weight with extreme high flexural strength and form stability.
  - Ultra-high-strength composite core reduces bouncing at high speed.
  
- 4

**Outer surface layer**

  - The Outer Surface Layer contains Epoxy Vinyl-ester-resin reinforced with technical filaments and polyester fleece. (2 mm.)
  - High chemical and temperature resistance with excellent tape mount and demount properties.

## Features

- Sealed ends
- Full inner metal ring

## Options

- Conductive by use of Carbon
- Air-through or separate air
- Outer metal ring incl. pin
- RFID chips and magnets

	Tech Bridge Hard	Tech® Pro+
Full Inner metal ring		•
Miller Valves *		•
Air through or Separate Air		•
Sealed Edges		•
Outer metal ring incl. pin		•

\* Miller valves are standard for separate Air Tech Bridge® Hard that have a min wall thickness of more than 25 mm