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HOSE & RUBBER COMPANY

CUSTOM ENGINEERING
MEDICAL PRODUCT CATALOG

Presented by:



**HI-TECH
MEDICAL®**

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HOSE & RUBBER COMPANY

Amazon Hose is a supplier for Hi-Tech Medical. They are a manufacturer of helix-reinforced, smooth-interior medical hose assemblies. With over 20 years experience, they take great pride in partnering with us and our ability to deliver solutions that benefit them by providing outstanding customer service and quality to match.

GLOBAL ENGINEERING

Hi-Tech Medical maintains a strong commitment to collaborate with your product development team to create innovative solutions specific to your needs. Their unique manufacturing process and access to just about any raw material available allows them to collaborate and develop new or custom projects.

QUALITY

Hi-Tech Medical facilities carry ISO 9001, ISO 13485, ISO 14001, and OSHAS 18001 certifications to ensure your products are consistently meeting the high quality demands of the medical industry.

Our products are commonly found in the following applications and devices:

CPAP
Laser Smoke Evacuation
Anesthesia
Therapeutic Equipment
Dental Equipment
Surgery & Respiratory Care
Bioengineering Equipment Veterinary
Surgery & Respiratory Care Emergency
Vehicle Equipment Conduit
Environmental Suits
PAPR
Ventilation
Humidification
Cystic Fibrosis Therapy

Feature Icons



ULTRA-FLEXIBLE



LIGHTWEIGHT



CHEMICAL RESISTANT



ETHYLENE OXIDE



AUTOCLAVABLE

Cuff Options



INTEGRAL



MOLDED



SCREW ON
END FITTING



INTEGRAL CUFF

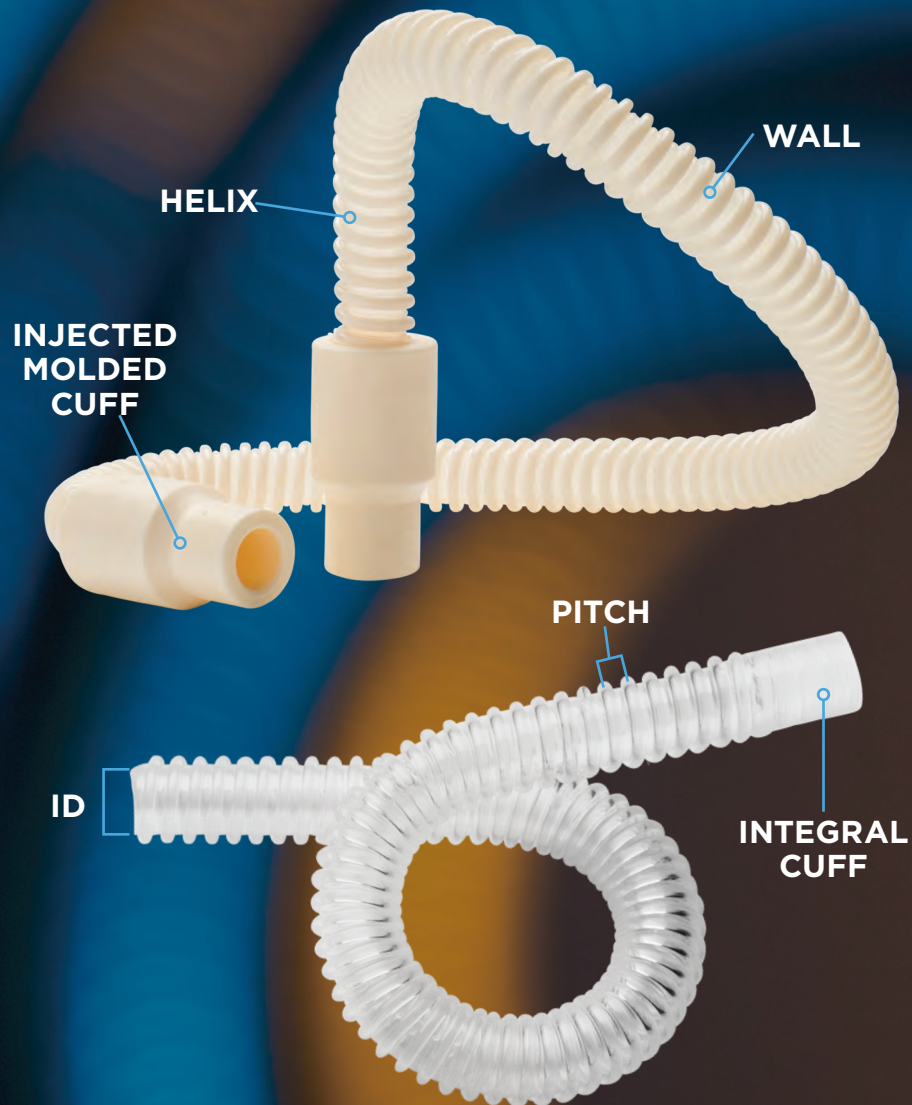


SILICONE CUFF



OVERMOLDED CUFF

Terminology



INTEGRAL CUFF — One or both ends of our hose can be formed to create a cost effective end fitting. Can be done in a variety of lengths. ID of the cuff must match that of the hose.

OVERMOLDED CUFF — An injection molded end fitting overmolded directly onto the hose, providing a smooth transition from your device to the hose.

SILICONE CUFF — A silicone molded end fitting attached directly onto the hose, using silicone adhesive.

INNER DIAMETER (ID) — The diameter of the bore of the hose.

OVERALL LENGTH — The length of the hose from end-to-end, including cuffs.

HELIX — The spiral reinforcement that provides crush and kink resistance to the hose.

WALL — The thin film of plastic that spans each space in the helix.

PITCH — The center to center distance between each helix.

HOSE ONLY — A hose with no end finish.



777

Wall/Helix Materials PE

Temp. Range -30-160°F/-34-71°C

Min-Max Hose Diameter 9-50mm

Length Range 100-3660mm

Sterilization Methods ETO, Radiation

FEATURES

- » Strong, lightweight, and versatile hose for a variety of applications
- » Excellent clarity
- » Odorless
- » Smooth bore for maximum airflow and reduced sound level, a clear choice for disposable medical applications
- » Custom designs available



APPLICATIONS

CPAP, Laser Smoke Evac., Anesthesia, Therapeutic Equipment, Dental Equipment, Surgery/Respiratory Care, Bioengineering Equipment, Veterinary/Surgery and Respiratory Care, Emergency Vehicle Equipment, Conduit



Wall/Helix Materials Hytrel® or Equivalent

Temp. Range -40-275°F/-40-135°C

Min-Max Hose Diameter 9-50mm

Length Range 100-3048mm

Sterilization Methods ETO, Autoclave, Radiation

FEATURES

- » Smooth bore provides maximum airflow, corrugated exterior provides abrasion and kink resistance
- » Tough, lightweight alternative to heavy, expensive silicone hoses
- » Custom designs available



APPLICATIONS

CPAP, Anesthesia, Therapeutic Equipment,
Dental Equipment, Surgery/Respiratory
Care, Bioengineering Equipment,
Veterinary/Surgery and Respiratory Care,
Emergency Vehicle Equipment



999

Wall/Helix Materials EVA

Temp. Range -30-130°F/-34-54°C

Min-Max Hose Diameter 9-50mm

Length Range 3660mm

Sterilization Methods ETO, Radiation

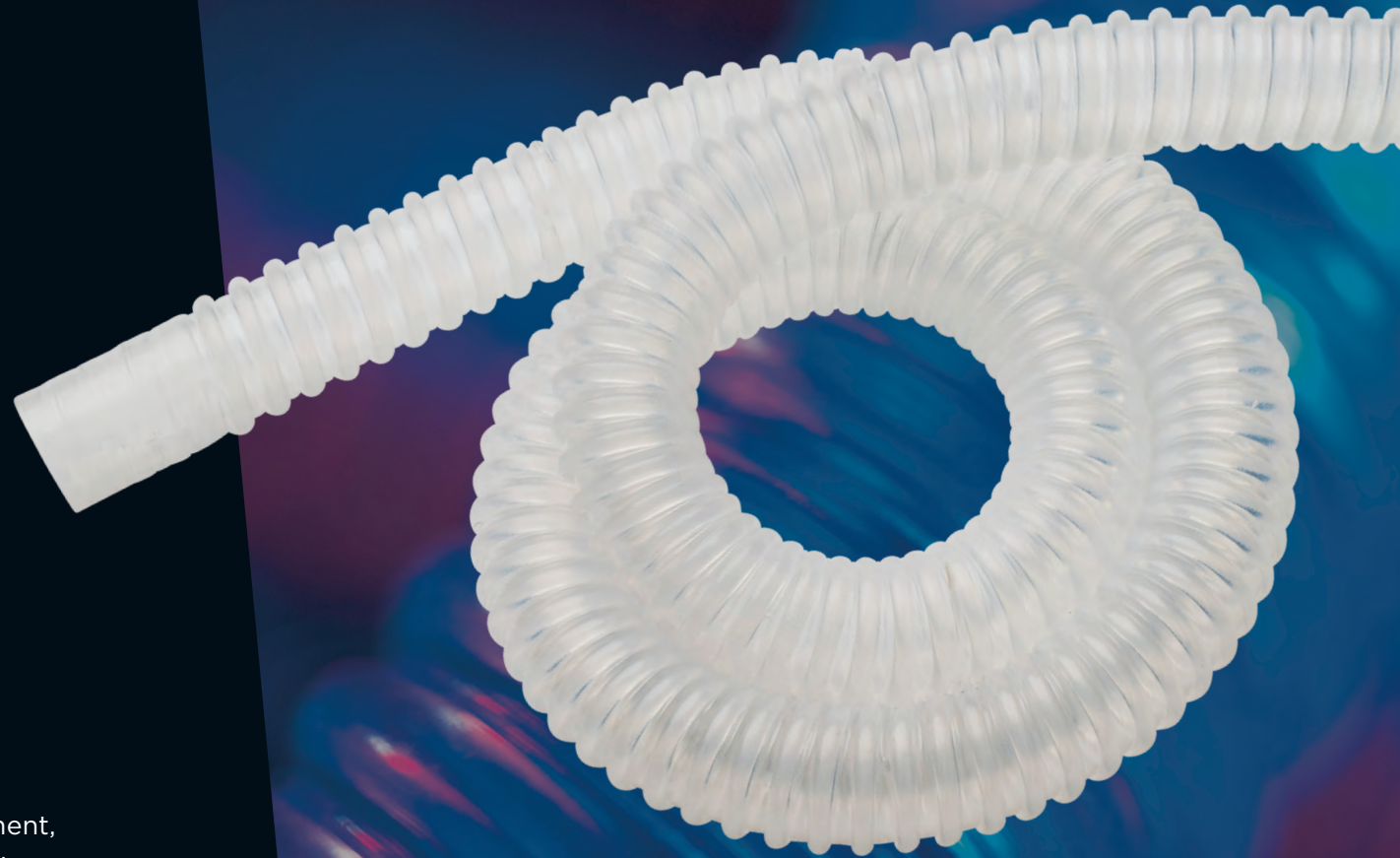
FEATURES

- » Excellent clarity
- » Smooth bore for maximum airflow and reduced sound level
- » Odorless
- » Custom designs available



APPLICATIONS

CPAP, Laser Smoke Evac., Anesthesia, Therapeutic Equipment, Dental Equipment, Surgery/Respiratory Care, Bioengineering Equipment, Veterinary/Surgery and Respiratory Care, Emergency Vehicle Equipment, Conduit



Flex-5

Wall/Helix Materials PE/PP

Temp. Range -30-160°F/-34-71°C

Min-Max Hose Diameter 19mm

Length Range 100-3048mm

Sterilization Methods ETO

FEATURES

- » Standard hose is 19mm ID with 22mm cuffs, 1.8m lengths
- » Lightweight, re-usable CPAP hose with excellent flex life
- » Smooth bore provides maximum airflow, corrugated exterior provides abrasion and kink resistance
- » Universal hose, made to fit most CPAP applications
- » Custom designs available



APPLICATIONS

CPAP

Flex-Lite

Wall/Helix Materials PE/PP

Temp. Range -30-160°F/-34-71°C

Min-Max Hose Diameter 15mm

Length Range 100-3048mm

Sterilization Methods ETO

FEATURES

- » Standard hose is 15mm ID with 22mm cuffs, 1.8m lengths
- » Ultra-light, small diameter, with excellent flex life
- » Smooth bore provides maximum airflow, corrugated exterior provides abrasion and kink resistance
- » Fits all CPAP masks and machines with 22mm connectors
- » Only intended for CPAP machines configured with 15mm hoses
- » Custom designs available



APPLICATIONS

CPAP



Embedded Wire Hose

We also have the capability of manufacturing hoses with material embedded in the helix. These can be used as signal-carrying wires or optics, or wires used to heat the interior of the hose, which is common in the CPAP industry for controlling “rainout.”

Wall/Helix Materials PE/PP

Min-Max Hose Diameter 10-22mm

Length Range 100-3048mm

FEATURES

- » Smooth bore provides maximum airflow, corrugated exterior provides abrasion and kink resistance
- » Various resistance ranges available
- » Custom designs available—can engineer wire into the helix



APPLICATIONS

CPAP, Ventilation, Humidification



Patient Interface Hose

Wall/Helix Materials Wide range of material options

Min-Max Hose Diameter 10-22mm

Length Range 101-381mm

Sterilization Methods ETO

FEATURES

- » Smooth bore provides maximum airflow, corrugated exterior provides abrasion and kink resistance
- » Various resistance ranges available
- » Construction allows flexible features and varying stretch ratios depending on materials used
- » Custom designs available



APPLICATIONS

PAP, Anesthesia, Therapeutic Equipment, Dental Equipment, Surgery/Respiratory Care, Emergency Vehicle Equipment



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ISO 9001 | ISO 14001 | OSHAS 18001

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