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

GLOBAL ENGINEERING
We maintain a strong commitment to collaborate with your product development team to create innovative solutions specific to your needs. Our unique manufacturing process and access to just about any raw material available allows us to collaborate and develop new or custom projects.

QUALITY
Our 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

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Feature Icons:
- ULTRA-FLEXIBLE
- LIGHTWEIGHT
- CHEMICAL RESISTANT
- ETHYLENE OXIDE
- AUTOCLAVABLE

Cuff Options:
- INTEGRAL CUFF
- SILICONE CUFF
- OVERMOLDED CUFF
**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.
**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
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