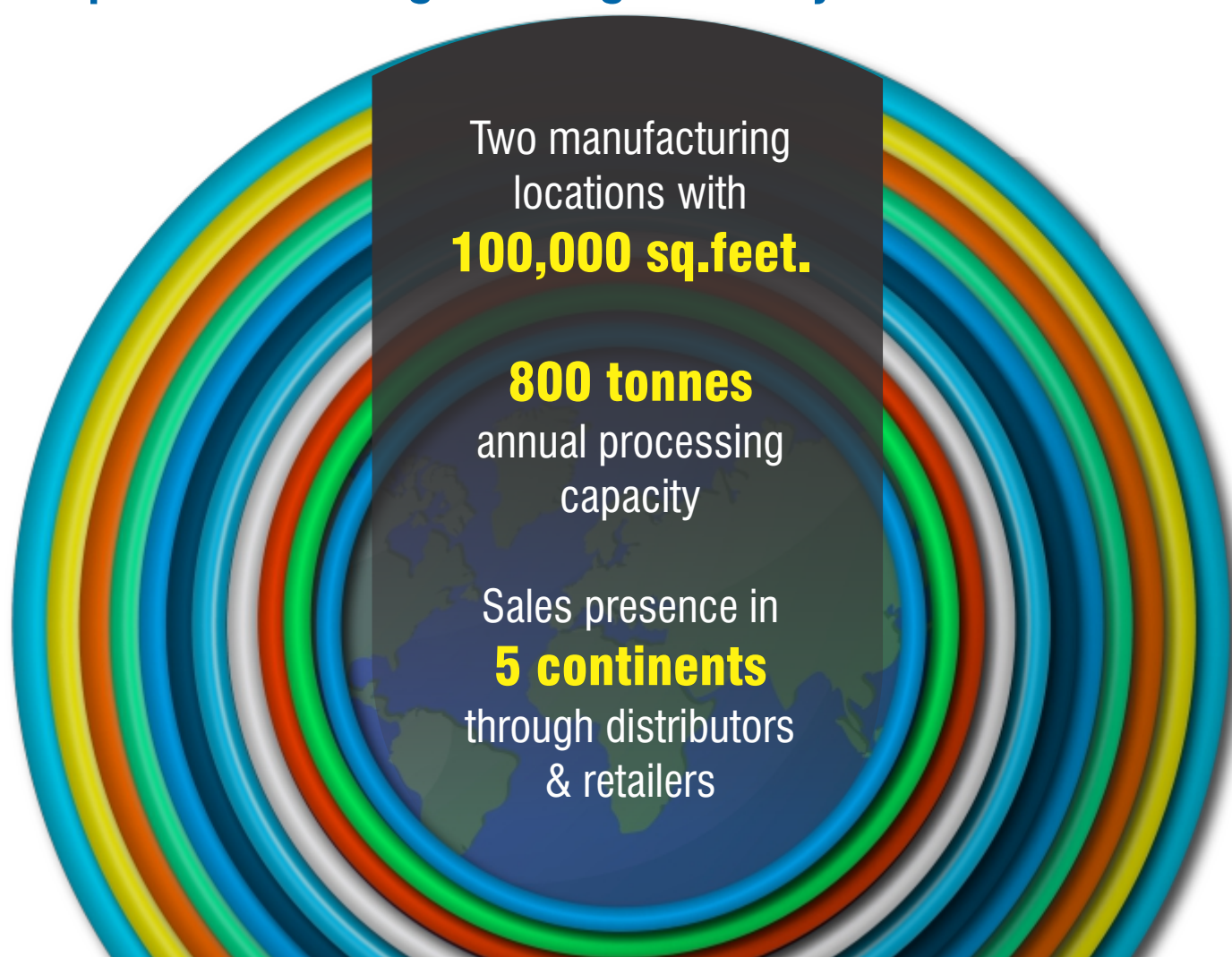


About **Laminar**

- **Leading supplier of pneumatic & hydraulic products** in India with operations across sales & distribution, manufacturing, value added services & projects
- **India's largest manufacturer** of low pressure thermoplastic tubing & hoses
- **20+ years of market experience** in pneumatics & hydraulics
- **ISO & IATF certified processes**
- Associated with **diverse OEMs, global brands & distribution houses**

We produce enough tubing annually to circle the earth



LAMINAR INDUSTRIES PRIVATE LIMITED :
D&B D-U-N-S® No. : 86-228-6390

LAMINAR TECHNOLOGIES :
D&B D-U-N-S® No. : 86-817-8530

Thermoplastic Tubing & Hose

PU, PA, PE, Anti-Spark, Recoiled Hoses,
Braided PU Hoses, Twin Tubes



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Polyurethane (PU) Tubing



The PU tubing is extruded in close tolerance with laser precision control systems to ensure dimensional reliability and compatibility. The best choice for a combination of high flexibility with strength.

Pneumatics
Medical equipment
Industrial machinery
Sleeves
Cyclic operations

Applications

Mechanical Features

- Longevity
- High flexibility
- Consistency

Technical Characteristics

Compatible fluids	Air, Other fluids based on base configuration
Maximum Working Pressure	Vacuum to 12 bar
Material	PU Ester , PU Ether (Medical & Food process applications)
Working temperature	-20°C to +70°C



3:1 SAFETY FACTOR



CLOSE TOLERANCE



HIGHLY FLEXIBLE



WIDE USE

Polyamide (PA) Tubing



Made of premium nylon 12 resin with high chemical and humidity resistance, our range of PA tubing for industrial and automotive applications is suitable for transmission of a broad range of fluids.

Pneumatics
Automotive
Railways

Applications

Mechanical Features

- Vast range of working pressures and temperatures
- Abrasion and vibration resistant
Flexible and durable
- Can be preformed into required shape

Technical Characteristics

Compatible fluids	Air, Fuel, Lubricants
Maximum Working Pressure	Vacuum to 50 bar
Material	Nylon 12 (other nylon compounds available on request)
Working temperature	-40°C to +80°C



3:1 SAFETY FACTOR



AUTOMOTIVE



MOISTURE RESISTANT



RELIABLE

PU Recoil Hose



Made from highly flexible and durable polyurethane, this recoiled hose is ideal for applications with pneumatic tools. Ease of operation and self-coiling properties with lasting memory make this the ideal choice for DIYers and professionals.

Applications

Pneumatic tools
DIY/Home Garages
Industrial cleaning
Workshops Machinery

Mechanical Features

- Long lasting coil memory
- Light-weight
- Kink resistant material
- Factory installed brass connector and spring-guard

Technical Characteristics

Compatible fluids	Compressed Air
Maximum Working Pressure	0 to 10 Bar
Material	Polyurethane (Ester)
Working temperature	-20°C to 70°C (Assembled Hose)

BAR

0 TO 10 BAR



3:1 SAFETY FACTOR



COLD WEATHER FLEXIBILITY



2 YEAR WARRANTY

Contact us

Nylon Coiled Hose



Tough, industrial & automotive grade nylon coiled hose with a lasting memory as an alternative to reels for better ergonomics and space saving. The factory - assembled hoses are equipped with a spring protection, preventing damage to the ends with prolonged use.

Pneumatic tools
DIY/ Home Garages
Lubrication
Transportation
Cabin Cleaning

Applications

Mechanical Features

- Industrial grade tough nylon material
- Compact and self-storing
- Resists most chemicals
- Factory installed brass connector and spring-guard
- Industrial & automotive grade nylon material

Technical Characteristics

Compatible fluids	Compressed air, lubricants etc.
Maximum Working Pressure	0 to 18 Bar
Material	Nylon (Polyamide)
Working temperature	-20°C to 80°C (Assembled Hose)

BAR

0 TO 10 BAR



3:1 SAFETY FACTOR



CHEMICALLY RESISTANT



2 YEAR WARRANTY

Contact us

POE & EVA Garden Recoil Hose



This hose is lightweight & strong with a propriety POE/EVA construction and a coiled design for kink-free, tangle-free and effortless handling making it fun to use. Comes with an adjustable spray nozzle for different watering applications such as gardening, car/pet washing among others.

Applications

Gardening
Car washing
Pet washing

Mechanical Features

- Exceptional Quality
- Lightweight & Durable
- UV Resistant
- Retractable & Compact Storage
- Extremely Flexible
- Tangle Free
- Corrosion Resistant



LIGHT
WEIGHT



EASY TO
USE



FACTORY
ASSEMBLED



LEAD FREE
BRASS CONNECTORS

Contact us

Poly Braided Recoil Hose



This recoil hose combines the best mechanical properties of polyurethane with the durability of bulkier braided hoses giving unsurpassed abrasion resistance for a longer working life. Its light-weight and coil memory make it an easy hose to use while minimizing work fatigue.

Pneumatic tools
DIY/ Home garages
Industries

Applications

Mechanical Features

- Abrasion Resistant
- Flexible and easy to use
- Light-weight, excellent coil memory
- Minimizes work fatigue
- Factory installed brass connector and spring-guard

Technical Characteristics

Compatible fluids	Compressed air
Maximum Working Pressure	0 to 20 Bar
Material	Polyurethane (ester)
Working temperature	-20°C to +70°C (Assembled Hose)



0 TO 20 BAR



4:1 SAFETY FACTOR



COLD WEATHER FLEXIBILITY



2 YEAR WARRANTY

Contact us

Twin & Multi-Bonded PU Tubing & Recoil



Our twin & multi bonded tubing allows for complex pneumatic circuits to be built in a neat & efficient layout with colour coding. The special bonding process allows for a neat separation of the tubing & perfect sealing with push-in fittings.

Applications
Pneumatics
Robotics
Machine Panels

Mechanical Features

- Special heat bonding
- Maintains external diameter
- Flexible & durable



0 TO 10
BAR



3:1 SAFETY
FACTOR



MULTIPLE COLOUR
OPTIONS



SMOOTH
SEPARATION



TWIN TO MULTI-BONDED
UPTO 6) OPTIONS

Contact us

Anti-Spark PU Tubing



Anti-spark tubing in two and three layer constructions provides reliable and safe operation in environments with welding spatter. Being highly resistant to kinking and abrasion, the tubing can be used in industrial machinery with ease.

Welding Robots
Automotive
Pneumatics
Industrial Machinery

Applications

Mechanical Features

- Longevity
- High flexibility
- Consistency

Technical Characteristics

Compatible fluids	Industrial fluids , air , coolants
Maximum Working Pressure	Vacuum to 14 bar
Material	PU, Fire resistant PVC, laminated aluminium
Working temperature	-20°C to +70°C



HIGH SAFETY



WELD-RESISTANT



LONG LASTING



3 LAYERS FOR EXTRA PROTECTION

Antistatic PU Tubing



With a low resistivity across the tube wall thickness, this tubing allows for dissipation of static electricity thereby increasing safety in static discharge controlled areas.

Antistatic Packaging
Pneumatics
Electronics
Spray Painting
Electrical Converters

Applications

Mechanical Features

- Low resistivity throughout the material
- Superior longevity
- Excellent vibration absorption
- UV-resistant

Technical Characteristics

Compatible fluids	Compressed air, industrial fluids
Working Pressure	Vacuum to 10 bar
Material	Polyurethane with conductive additive (50 Shore D)
Working temperature	-20°C to +70°C



0 TO 10 BAR



3:1 SAFETY FACTOR



CHEMICALLY RESISTANT



2 YEAR WARRANTY

PU & PA Tubes EN 45545 (HL3)



Our tubing range in PU & PA for non-toxic smoke applications in railways gives excellent mechanical performance in on-board applications while meeting the stringent flammability requirements set in EN 45545.

With low smoke generation & non-toxic combustion gases, these range of tubing enhance the safety of railways in all pneumatic auxiliary systems including in air horns, vacuum toilets, pneumatic doors, pantographs among other rail applications.

Applications

Pantographs
Pneumatic Doors
Vacuum Toilets
Air Horns
On-board
Rail Applications

Technical Characteristics

Temp. range :	(upto 100 degree celsius)
Pressure :	vacuum to 50 bar (PA) , vacuum to 10 bar (PU)

(HL3)

EN 45545 HL3
R22, R24, R25



EXCELLENT MECHANICAL
PERFORMANCE



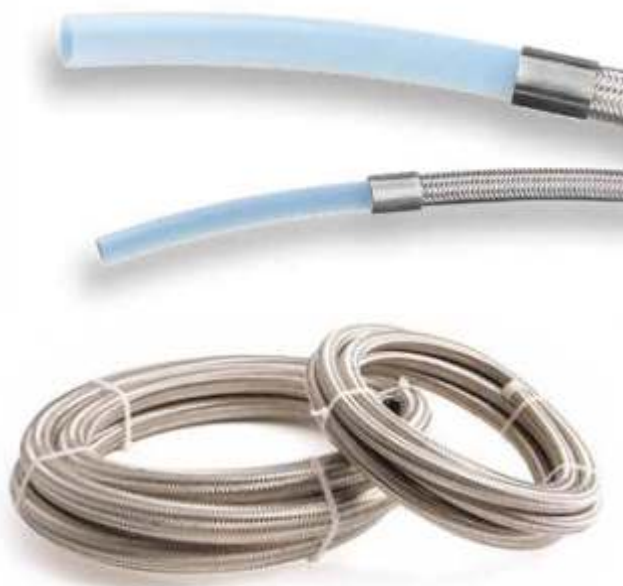
DESIGNED FOR
RAIL SYSTEMS



NON-TOXIC
SMOKE

Contact us

PTFE Tubes & Hoses



Our range of smooth PTFE tubes & hoses for aggressive chemical & temperature applications is manufactured using UL V0 & FDA 21 rated raw-material. With a low permeation & low water absorption it is suitable for high purity applications. We can also offer FEP & PFA fluoropolymer tubings for extremely demanding applications.

Applications

- Chemical Processing
- Instrumentation
- Automobile
- Aerospace
- Medical
- Oil & Gas

Features

- Compatible with all solvents & chemicals, except molten alkali
- Working temperature upto 260 °C



COLOURED
OPTIONS



SMOOTH
BORE



LARGE DIAMETER
RANGE



SPECIALISED
APPLICATIONS

Contact us

Hose Reel



Auto-retractable hose reels with powder coated steel construction and rubber, PU or braided PU hose options. Ergonomic and designed for long life with 12 point ratchet mechanism.

Applications

Automotive workshops
Industrial
Water jetting
Oil dispensing

Features

- Strong steel body and precise resolution
- Can be coupled with flexible rubber, PU or braided PU hoses
- Sturdy with swivel mounting option
- Range includes air, water, steam & oil applications

Technical Characteristics

Media	Air, Water, Oil
Working Pressure	Depending on model & hose
Working Temperature	Depending on model & hose



WIDE RANGE



STURDY



AUTO-RETRACTION

Hydraulic & Industrial Hose & Tube Assemblies



Our state-of-the-art hose crimping unit equipped with precision hose crimping machines, testing & peripheral equipments and a strong technical and quality control team has made us the preferred supplier for hose assemblies across industries ranging from railways, defence, off-highway, agri equipment & machine building. Further, with a tube bending, induction brazing and hose fitting designing and manufacturing capabilities, we have the know-how and capacity to develop customised assemblies for various applications in fluid transmission from low to high pressure.

Applications

Off-highway Equipment
Agri Equipment
Hydraulic Systems
Fluid Transmission

Our Strengths

- Hose crimpers up to 4"
- CNC controlled precision 5-axes tubing bending
- Hybrid customised assemblies with rubber hose, seamless tube & nylon preformed hose
- Testing up to 1500 bar
- Batch-tracked with laser marking



SHORT LEAD TIMES



QUALITY



EXPERT TEAM

Contact us

Preformed Nylon Hose Assemblies



Preformed nylon hose with quick connectors for use in fuel lines, cooling lines and other automotive applications. Precise & kink free bends & sturdy end connectors made of PA12 glass reinforced material.

Applications

Off-highway Equipment
 Agri Equipment
 Hydraulic Systems
 Fluid Transmission

Mechanical Features

- Ready to fit as per specification
- Quick connectors with sturdy design
- Kink free
- Preformed with steam
- Compatible with fuel & other automotive fluids

Technical Characteristics

Compatible fluids	Fuel, Air, Coolant
Material	PA12 (Hose), PA12 GF (Fittings)
Working Pressure	5-7 bar
Working temperature	-30°C to +120°C



PRE-FORMED



KINK FREE BENDS



HUMIDITY & CHEMICAL RESISTANT

Contact us



In-line Ball Valves

This range of ball valves is suitable for many industrial applications where the fluid carried and working temperatures require PTFE seals.

Pneumatics
Industrial
Automotive
MRO

Applications

Features

- Excellent resistance to high pressure and temperature constraints
- Full flow fluid passage
- Silicone free in order to meet specific application requirements such as in automotive processes
- Offers high quality and value

Technical Characteristics

Fluid	Compressed air, Gas, Water, Oil and all fluids suitable with constituent materials
Working Temperature	-20°C to + 130°C
Working Pressure	upto 30 bar



BRASS BODY



FULL FLOW



STURDY CONSTRUCTION

Air Blowgun & Blowgun Kits



This pistol grip, air blowgun is made of durable, shock-resistance materials while being ergonomic and light-weight. It offers a leak proof operation with superior internal seals. The ¼ " brass inlet has an anti-crack thread for longer service life. Can be supplied as kits with coiled hose, quick connectors, kink guards & couplers as a ready to use assembly.

Applications

Workspace cleaning
Cabin cleaning
Machining

Mechanical Features

- Durable, shock resistant materials
- Sturdy grip
- Volume enhancing nozzle
- ¼" brass inlet

Technical Characteristics

Compatible fluids	Compressed air
Maximum Working Pressure	0 to 10 Bar
Recommended Hose	Polyurethane , Poly braided



INDUSTRIAL
GRADE



NYLON GLASS
REINFORCED BODY



100% LEAK &
FLOW TESTED



COMFORTABLE
USE

Pneumatic Push-in-Fitting



Pneumatic push-in fittings for perfect sealing with thermoplastic tubing. Simple and easy installation of pneumatic connections allowing for quick connection and disconnection. In various combinations of straight, elbow & tee connectors.

Pneumatics
Industrial
Automotive
MRO

Applications

Mechanical Features

- Nickel plated brass & sturdy polymer construction
- Perfect sealing with plastic tubing
- Full flow

Technical Characteristics

Fluid	Air, Vacuum
Working pressure	0 to 10 bar
Negative pressure	-29.5 in Hg
Max pressure	15 bar
Working temperature	0°C to +60°C
Applicable tube	Polyurethane & Nylon



EASY TO USE



STRONG GRIP



QUICK

Contact us

Quick Release Couplers



Our range of quick release couplers for pneumatic & hydraulic applications allow for versatility in use. The couplers are available in a wide range of profiles, sizes & materials to suit different applications. The coupler can also be supplied as an assembly with a recoiled or straight hose as a ready to use kit.

Applications

Industrial
Food and chemical
processing
Water and coolant lines
Pneumatic tools
Mobile Equipment

Features

- Carbon steel, brass or stainless steel bodies
- Hardened steel to be wear resistant
- Spill free connection & disconnection
- Minimum pressure drop
- Special seals available on request

Technical Characteristics

Media	Air, Gases, Hydraulic oil
Body	Carbon steel, Brass, Stainless Steel
Working Temperature	Based on model
Working Pressure	Based on model



ERGONOMIC



LONG LASTING



QUICK

Contact us