WHITEHOUSE
FLEXIBLE TUBING LTD

STAINLESS STEEL SMOOTH BORE STRIPWOUND HOSE



STAINLESS STEEL SMOOTH BORE FLEXIBLE TUBING

Stainless Steel Smooth Bore Flexible Tubing combines the flexibility and durability of stripwound metal hose with a substantially smoother internal bore. Its reduced internal profile provides a clearer flow path, making it particularly suited to extraction, airflow and material conveyance applications.

- Smoother internal bore for improved flow
- Flexible and durable stainless steel construction
- Ideal for dust, powders, granules and swarf
- Suitable for extraction and airflow applications
- Excellent alternative to rigid pipework
- Bespoke lengths and assemblies available

*Smooth Bore Stripwound Hose is a **new product development**. If you require a size, material, or length that is not shown, please contact our sales team with your application details and we will advise on suitability and availability.*

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PRODUCT DETAILS

Product Details for Stainless Steel Smooth Bore Stripwound Hose

Whitehouse Stainless Steel Smooth Bore Flexible Tubing has been developed for applications requiring the durability and flexibility of stripwound metal hose together with an improved internal flow path.

Manufactured from a specially formed, helically wound metal strip, the reduced internal profile creates a considerably smoother passage than conventional stripwound tubing. This helps minimise internal obstruction and provides a clearer route for air and conveyed materials.

The tubing is particularly suited to extraction, airflow and material handling applications, including dust, sawdust, metal swarf, powders, granules and plastic pellets.

Its flexible metallic construction also makes it an effective alternative to rigid pipework where installations need to accommodate bends, vibration, movement, misalignment or restricted spaces.

Whitehouse can supply standard and non-standard lengths, with bespoke hose assemblies and a variety of end connections available to suit individual applications.

TECHNICAL DATA

Product	**I/D**	**O/D**	**Inside Bend**	**Weight (Kg.)**
Code	(mm)	(mm)	Radius (mm)	Per 100 Mtrs
2.1/2″	63	69	360	208
2.3/4″	70	76	388	231
2.7/8″	73	79	395	241
3″	76	82	420	251
3.1/8″	79	85	413	261
3.1/4″	83	89	421	274
3.3/8″	86	92	429	284
3.1/2″	89	95	437	294
3.5/8″	92	98	444	304
3.3/4″	95	101	452	314
3.7/8″	98	104	460	323

4″	102	108	470	337
4.1/4″	108	114	484	356
4.1/2″	114	120	501	376
4.3/4″	120	126	518	396
5″	127	133	540	419
5.1/4″	133	139	558	440
5.1/2″	140	146	575	461
6″	152	158	609	503

** Standard Coil Length 10m, if you require any other length please contact us for availability.

APPLICATIONS

Stainless Steel Smooth Bore Flexible Tubing is suitable for a wide range of industrial extraction, airflow and material conveyance applications, including:

- Industrial dust extraction
- Sawdust and wood-chip extraction
- Metal swarf and machining-chip extraction
- CNC and machine-tool extraction
- Powder transfer
- Granular material conveyance
- Plastic pellet handling
- Dry bulk material handling
- Industrial vacuum systems
- Air ducting and process ventilation
- Smoke and fume extraction
- Agricultural material handling
- OEM machinery
- Flexible connections between machinery and fixed ducting

SPECIAL FEATURES

Smoother Internal Bore
Specially developed profile provides a substantially smoother internal flow path than conventional stripwound tubing.

Improved Material Conveyance
Reduced internal profiling helps provide fewer areas where dust, powders, granules and other materials can become caught or retained.

Improved Airflow Characteristics – The smoother bore can help reduce flow disturbance in extraction, ventilation and air-

handling applications.

Durable Stainless Steel Construction
Metallic construction makes the tubing suitable for demanding industrial environments and applications involving abrasive materials.

Excellent Flexibility
Accommodates bends and routing requirements that would be difficult to achieve using rigid metallic pipework.

Bespoke Assemblies Available
Can be supplied with flanges, threaded adaptors, spigot ends, machine connections and other custom fittings.

ASSEMBLIES

Stainless Steel Smooth Bore Hose Assemblies

Whitehouse can supply Stainless Steel Smooth Bore Flexible Tubing in standard lengths or as part of a made-to-order flexible hose assembly.

Depending on the application, assemblies can incorporate suitable:

- Flanges
- Threaded end adaptors
- Plain spigot ends
- Unicone ends
- Machine connections
- Custom end fittings
- Bespoke fabricated components

For specialist or non-standard installations, customers can provide drawings or application details for review.

Bespoke Stainless Steel Smooth Bore assemblies are particularly useful where the tubing is being incorporated into extraction machinery, material-handling equipment, processing systems, industrial ducting or OEM machinery.

The combination of a smoother internal flow path, flexible stainless steel construction and suitable end connections allows complete assemblies to be produced for applications involving airflow, extraction and the conveyance of compatible powders, granules, pellets, dust, chips and other process materials.

Please contact Whitehouse with the required inside diameter, length, operating conditions and connection requirements to discuss a suitable assembly.

FAQS

Frequently Asked Questions About Stainless Steel Smooth Bore Flexible Tubing

What is Stainless Steel Smooth Bore Flexible Tubing?

Stainless Steel Smooth Bore Flexible Tubing is a specially developed stripwound flexible metal hose with a reduced internal profile.

It provides a smoother internal passage than conventional stripwound tubing while retaining flexibility and the mechanical advantages of metallic construction.

What is the main advantage of Smooth Bore Flexible Tubing?

Its main advantage is its smoother internal flow path. This can improve the passage of air and conveyed materials while reducing opportunities for particles to catch or accumulate within the hose.

How is Smooth Bore different from conventional stripwound tubing?

Smooth Bore uses a specially developed strip profile designed to create a substantially smoother internal surface, making it particularly suitable for extraction, airflow and material conveyance applications.

Is Stainless Steel Smooth Bore suitable for dust extraction?

Yes. Its smoother internal profile makes it particularly suitable for dust and particulate extraction because there are fewer pronounced internal areas where material can collect.

Can Smooth Bore Flexible Tubing be used for sawdust and wood chips?

Yes. It can be suitable for woodworking extraction systems handling sawdust and wood chips, subject to the operating conditions of the installation.

Can it be used for metal swarf?

Yes. Its metallic construction makes it particularly suited to applications involving metal chips and swarf. The exact construction should be selected according to the size, shape, temperature and abrasiveness of the material.

Is Smooth Bore suitable for powders and granules?

Yes. The smoother internal passage makes it suitable for conveying compatible powders, granules and plastic pellets where flexibility and reduced internal obstruction are important.

Can Whitehouse manufacture bespoke Smooth Bore hose assemblies?

Yes. Whitehouse can manufacture made-to-order assemblies incorporating Smooth Bore Flexible Tubing with suitable end fittings, connectors and bespoke components to meet individual application requirements.