Hoses for the Agricultural Industry

Hoses & Connection Systems for demanding applications in the Agricultural Industry
Your specialist partner for any application in the Agricultural Industry

As much variety as there is in the applications of the agricultural industry, the product portfolio of the Masterflex Group is just as versatile when it comes to high-tech hoses and connector systems. This brochure provides a brief overview of our wide range of products for the agricultural sector. The following applications are just a few examples of those covered by our Masterflex, Novoplast and Matzen & Timm hoses:

**Grain transport / conveying**
- Grain mills

**Sowing machines**
- Seeders
- Mobile mixing systems

**Seed transport**
- Baling presses

**Harvesters**
- Harvesters

**Grain transport in Silos**
- Seed preparation

**Milking machines**
- Potato harvesters

**Tyre inflation systems**
- Machine components

**Fodder manufacturing**
- Silo filling

**Animal feed**

Can’t find your application? Contact us directly for information on our additional product solutions!
What are the benefits of polyurethane hoses & other high-quality materials from the Masterflex Group?

When producing our hoses, we use high-quality materials which make our products longer-lasting, more flexible and more reliable than any other products available. We use polyurethane, polyamide, polyethylene, multi-layered silicone-coated polyester mesh and other high-tech plastics and fabrics.

Some advantages of these materials:
- The wear resistance and shelf-life of polyurethane is 3-4 times better than soft PVC materials. That means a real reduction in maintenance costs thanks to longer machine service intervals.
- Extreme flexibility and light-weight, as well as cold resistance down to -40 °C are characteristics of polyurethane hoses. These features enable easier handling even at extreme temperatures.
- The absolutely smooth inner surface makes the hoses much easier to clean and maintain.
- Our standard polyurethane hoses offer the unbeatable combination of the features microbe-resistant, permanently anti-static and hardly inflammable acc. to DIN 4102-B1. That makes them a reliable and safe solution for even extreme conditions.
- Polyamide or polyester mesh hoses offer extremely good temperature resistance, which means they are highly versatile in applications at either high or low temperatures.

Why choose hoses from the Masterflex Group?

Looking for a specialist in components and accessories for machines and applications in the agricultural industry?

The Masterflex Group, with its industry-renowned brands Masterflex, Novoplast Schlauchtechnik and Matzen & Timm, manufacture high-tech hoses and connections systems using high-performance plastics and fabrics. We offer leading quality standard products, as well as customised product solutions for your specific needs.

We can provide high-quality hoses and connection systems for almost every industry known - whether you need standard solutions or would like us to develop customised solutions for your specific needs, we cover it all!

Contact us today to find out how we can help you!
Whether large-area sowing machines, pneumatic single-grain seeders or add-on seeder combinations: plastic hoses play a central role in material transport from central seed containers to seed storage.

**Masterflex Group** is a long-standing partner of many well-known companies in the agricultural sector, who rely on products from Masterflex in the construction of seeders and sowers. Polyurethane spiral or smooth hoses are used especially in the material supply in the machines.

**Seed hoses made of Polyurethane**

**Polyurethane hoses for Grain Transport**

Pressure or suction conveying can transport grain from one place to another.

Especially in the collection of grain directly from the ground, flexible hoses can really show their strengths in combination with a suction pressure fan.

That’s why many system builders and mill operators base their pneumatic grain conveying systems on flexible polyurethane hose solutions from the **Masterflex Group**.

**Spiral hoses for Animal Feed**

In fodder supply, concentrated feed is often conveyed a long distance from central silos to the troughs in the stalls.

Flexible hose lines help to bridge critical sections and turns.

Many stall equipment suppliers and silo builders choose spiral hoses from the **Masterflex Group** for the transport of pourable bulk goods.
Form-Moulded hoses for Engine Air Intake

Self-propelled mowing and harvesting machines require specific solutions for air guidance and air intake in the engine compartment or in the area of cabin ventilation.

Many special vehicle manufacturers use form-moulded hoses from the Masterflex Group for exhaust return and fresh air supply.

Pneumatic functional hoses for Machine Components

In the area of feeding and milking systems, pneumatic drives and pneumatically actuated valves play an integral role. The same is true of agricultural vehicle production, where pneumatic control systems play a decisive part in the workings of many vehicle components, such as the seats.

It’s difficult to find exactly the right hoses for these types of assemblies and components - that’s why the smooth hoses from the Masterflex Group are the right solution for many system and vehicle manufacturers!

Hoses for Fertiliser Applications

Sharp-edged, abrasive fertilisers are a particular hazard for the hoses used in fertiliser applications.

Here, polyurethane hoses from the Masterflex Group score highly with significantly longer service life in comparison with hoses made of other materials, such as standard PVC.
<table>
<thead>
<tr>
<th>Master-PUR L Trivolution</th>
<th>PU suction &amp; conveyor hose, very flexible, permanent antistatic, microbe-resistant, low flammability</th>
<th>Applications</th>
<th>Available in:</th>
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<tbody>
<tr>
<td></td>
<td>- Highly flexible spiral hose for the suction/transport of abrasive solids, gaseous &amp; liquid media, e.g. grain, seed, fertilisers, dust, powder</td>
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<td>- Protective hose against mechanical stress</td>
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<td>- Grain mills</td>
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<td>- Silo filling, drying</td>
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<td>-40 °C to +90 °C peaks up to +125 °C</td>
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<td></td>
<td>NEW! antistatic + hardly inflammable + microbe-resistant. TIP: Also available in L-F/H/H2/HX</td>
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<tr>
<th>Master-PUR H-MHR</th>
<th>PU suction &amp; conveyor hose, medium weight, good flexibility, microbial &amp; hydrolysis resistance</th>
<th>Applications</th>
<th>Available upon request in:</th>
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<tbody>
<tr>
<td></td>
<td>- Highly flexible spiral hose for the suction/transport of abrasive solids, gaseous &amp; liquid media, e.g. grain, seed, fertilisers, dust, powder</td>
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<td>- Suction &amp; conveyor hose for abrasive solids for which high microbial and hydrolysis resistance is required</td>
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<td>-40 °C to +90 °C peaks up to +125°C</td>
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<tr>
<th>Master-PUR Performance</th>
<th>PU suction &amp; conveyor hose, extremely abrasion/vacuum-resistant, absolutely smooth interior, permanent antistatic, microbe-resistant</th>
<th>Applications</th>
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<tr>
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<td>- Conveying hose for silo systems, seeder machines, mill operation, etc.</td>
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<td>- Transport hose for problematic conveyed materials such as sand, gravel, grain, fertiliser, as well as for loading/conveying systems</td>
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<td></td>
<td>- Suction &amp; conveyor hose for extremely abrasive solids, fluid and gaseous media</td>
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<td>- Wherever easy-to-clean surfaces are needed</td>
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<tr>
<th>Flexafit*</th>
<th>Neoprene*-coated polyester mesh with bronzed spring steel spiral, partly with double glass cord (depending on type), good heat &amp; cold resistance, flexible, extremely lightweight</th>
<th>Applications</th>
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<tr>
<td></td>
<td>- Conveying hot and cold air</td>
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<td>- For use in air conditioning and ventilation systems</td>
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<td>- For the suction of lightweight oil mists</td>
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<td>- Engine air intake</td>
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<td>-40 °C to +140 °C</td>
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*NEW! antistatic + hardly inflammable + microbe-resistant. TIP: Also available in L-F/H/H2/HX |
**Polyamide Pneumatic Hoses**

PA pneumatic hose, lightweight, good temperature resistance, good pressure resistance, good chemical resistance to oil, grease, fuels, high wear resistance.

**Applications**
- Conveyor hose for abrasive media
- Feed hose for bulk seed
- Pneumatic brake lines
- Control of pneumatic valves

**Available in:**
- Outer Ø: 4.0 to 22.0 mm
- natural
- black
- blue

**Available upon request in:**
- Special sizes and colours

**Temperature Range**
-40 °C to +90 °C

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**Polyurethane Pneumatic Hoses**

PUR pneumatic hose, low weight, extremely flexible when cold, UV-resistant, high elasticity, kink-resistant, oil and grease resistant, hydrolysis and microbe-resistant variants, material FDA compliant variant.

**Applications**
- Control of pneumatic units/valves
- Conveying of abrasive materials
- Seat technology for agricultural vehicles
- Conveyer and transport systems (round belts)

**Available in:**
- Outer Ø: 4.0 to 16.0 mm
- natural
- black
- blue

**Available upon request in:**
- Special sizes and colours

**Temperature Range**
-40 °C to +85 °C

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**LD-PE (polyethylene) Hoses**

Lightweight, physiologically harmless, material is food-safe (food grade), high chemical resistance, cost-effective pricing, hydrolysis & microbial resistance.

**Applications**
- Pneumatic applications
- Conveying of fluid media such as water

**Available in:**
- Outer Ø: 4.0 to 16.0 mm
- natural
- black
- blue

**Available upon request in:**
- Special sizes and colours

**Temperature Range**
-40 °C to +85 °C