

## Hoses for the agricultural industry

Hoses and connector systems for demanding applications in the agricultural industry

# Your competent partner for applications 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 little overview of the wide range

of our products in the agricultural sector. The following applications are just a small part of the possible uses for Masterflex, Novoplast Schlauchtechnik and Matzen & Timm brand hoses:

**Potato harvesters** **Silo filling**  
**Machine components**  
Plant protection devices  
**Seed transport** **Drilling machines**  
Grain transport or conveying **Grain mills**  
**Animal feed**  
Fertiliser application **Pneumatic brake systems**  
**Seeders** **Harvesters**  
Mobile mixing systems **Baling presses**  
**Grain transport in silos**  
**Milking machines** **Tyre inflation systems**  
**Seed preparation**  
**Fodder manufacturing**

Is your application missing?  
Contact us for information about additional product solutions.

 +49 209 97077 - 9889

 [sales.masterflex@masterflexgroup.com](mailto:sales.masterflex@masterflexgroup.com)



# Hoses and connector systems for the agricultural industry



## Why 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 brands **Masterflex, Novoplast Schlauchtechnik and Matzen & Timm**, makes high-tech hoses and connector systems of high-performance plastics and meshes. We offer standard products as well as product solutions customised to your specific needs.

## What are the benefits of polyurethane hoses and other high-quality materials from the Masterflex Group?

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

### Some advantages of the materials at a glance:

- The **wear resistance and shelf** life of polyurethane is 3-4 times higher than those of most soft PVC materials. That means a reduction in maintenance costs due to longer service intervals for machines.
- Very **good flexibility** and **low weight** as well as **cold resistance** down to  $-40^{\circ}\text{C}$  are characteristic for polyurethane hoses. That permits **simple handling** even **at the lowest** temperatures.
- The absolutely **smooth inner surface** makes it easy to clean hoses.
- Our standard polyurethane hoses are **microbe-resistant, permanently anti-static and have low flammability according to DIN 4102-B1**. That makes them a reliable, safe solution for extreme conditions.
- Polyamide or polyester mesh hoses have good **temperature resistance**, which means they are **versatile in application** at either high or low temperatures.

We can provide high-quality hoses and connector systems for nearly every industry, whether you need standard solutions or would like us to develop custom solutions for your specific needs.

Get in touch with us!



# Our Products - Masterflex

## Master-PUR L Trivolution



PU suction and conveying hose, very flexible, surface resistance < 109 ohms, antistatic, microbe-resistant, low flammability

### Applications

- Highly flexible spiral hose for the suction/transport of wear-causing solids, gaseous and liquid media, such as grain, seed, fertilisers, dust, powder
- Protective hoses against mechanical stress
- Grain mills
- Silo filling, drying

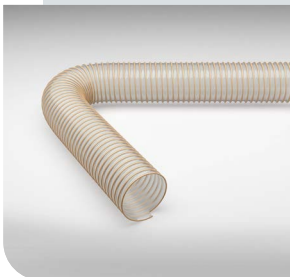
### Available in:

DN 25 - DN 500  
Colour: transparent  
Storage lengths: 10m/15m, depending on DN  
Finished lengths: up to 25m, depending on DN

### Temperature range

-40 °C to +90 °C  
briefly up to +125°C

## Master-PUR H MHR



PU suction and conveying hose, medium weight, good flexibility, microbial and hydrolysis resistance

### Applications

- Highly flexible spiral hose for the suction/transport of wear-causing solids, gaseous and liquid media, such as grain, seed, fertilisers, dust, powder
- Suction and conveying hose for wear-causing solids for which high microbial and hydrolysis resistance is required

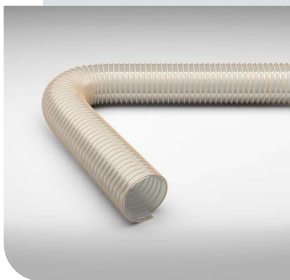
### Available upon request in:

DN 16 - DN 500  
Colour: transparent  
Finished lengths up to 15m, depending on DN

### Temperature range

-40 °C to +90 °C  
briefly up to +125°C

## Master-PUR Performance



PU suction and conveying hose, extremely wear/vacuum-resistant, absolutely smooth interior, antistatic, <math>10^9</math> ohms, microberesistant

### Applications

- Transport hose for problematic materials, e.g. sand, gravel, grain, granulates, as well as for transshipment/conveyor systems
- Wherever easy-to-clean surfaces are required
- Suction/conveying hose for extremely abrasive solids, liquid and gaseous media
- Conveying hose for silo systems, seed machines, mills etc.

### Available in:

DN 38 - DN 152  
Colour: transparent  
Storage lengths: 10m  
Finished length: up to 10m

### Temperature range

-40 °C to +90 °C  
briefly up to +125°C





## Our Products - Matzen & Timm

### Flexrapid®



Silicone-coated polyester mesh, good heat and cold resistance, very lightweight, good ozone resistance

#### Applications

- Conveying hot and cold air
- For installation in turbocharger systems
- For use in air conditioning and ventilation systems
- For installation in cooling systems

#### Available in:

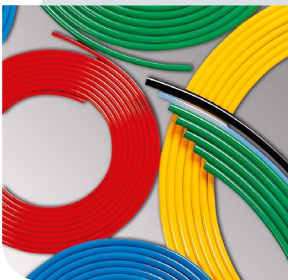
DN 10 - DN 152  
Colour: blue, black, red  
Standard side length: 100 & 150 mm  
Other lengths upon request

#### Temperature range

-60 °C to +180 °C

## Our Products - Novoplast Schlauchtechnik

### Polyamide pneumatic hoses



PA pneumatic hose, low weight, 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  
Color: natural, black, blue

#### Available upon request in:

Special sizes and colours

#### Temperature range

-40 °C to +90 °C

### 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
- Conveyor and transport systems (round belts)

#### Available in:

Outer-Ø: 4,0 to 16,0 mm  
Color: natural, black, blue

#### Available upon request in:

Special sizes and colours

#### Temperature range

-40 °C to +85 °C

### LD-PE (polyethylene) hoses



Low weight, physiologically harmless, material is food-safe, high chemical resistance, cost-effective pricing, hydrolysis and microbial resistance

#### Applications

- Pneumatic applications
- Conveying of fluid media such as water

#### Available in:

Outer-Ø: 4,0 to 16,0 mm  
Color: natural, black, blue

#### Available upon request in:

Special sizes and colours

#### Temperature range

-40 °C to +85 °C



## Seed hoses made of polyurethane

Whether large-area sowing machines, pneumatic single-grain seeders or add-on seeder combination:

plastic hoses play a central role in material transport from central seed containers to seed storage.

**Masterflex Group** partners with well-known companies in agricultural technology who rely on products from Masterflex in the construction of new seeders and sowers. Polyurethane spiral or smooth hoses are particularly used in material supply to the machine

## Polyurethane hoses for grain transport

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

In particular in picking up grain directly from the ground, flexible hoses can really show their strengths in combination with a suction pressure fan.

Many system builders and mill operators thus 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 trough in stalls.

Flexible hose lines help to bridge critical sections and turns.

Many stall equippers and silo builders choose spiral hoses from the **Masterflex Group** for the transport of pourable bulk goods.





## Moulded hoses for engine air intake

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

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



## Pneumatic functional hoses for machine components

In the area of feed and milking systems, pneumatic drives and pneumatically actuated valves play a large part. The same is true of agricultural vehicle production, where pneumatic control systems play a decisive part in the working of many vehicle components, such as the seat.

For just the right hoses for this type of assembly and components, smooth hoses from the **Masterflex Group** are the right solution for many system and vehicle builders.



## Hoses for fertiliser application

Sharp-edged fertilisers are a particular hazard for the hoses used in fertiliser application.

Here, polyurethane hoses from the **Masterflex Group** score points with significantly longer service life in comparison with hose solutions made of other materials.







Subject to errors and technical changes



Masterflex SE  
Willy-Brandt-Allee 300  
45891 Gelsenkirchen  
Germany  
Tel. +49 209 97077-0  
Fax +49 209 97077-33  
[www.masterflex.de](http://www.masterflex.de)  
[info.masterflex@masterflexgroup.de](mailto:info.masterflex@masterflexgroup.de)  
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