

Hoses for the Agricultural Industry

Hoses & Connection Systems
for demanding applications in the Agricultural Industry

 **MASTERFLEX**

 **NOVOPLAST**
SCHLAUCHTECHNIK

 **MATZEN & TIMM**

 **MASTERFLEX GROUP**
Connecting Values

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

pneumatic brake systems

Grain mills

Sowing machines

Seed transport

Seeders

Baling presses

Mobile mixing systems

Harvesters

Fertiliser applications

Plant protection devices

Grain transport in Silos

Seed preparation

Milking machines

Potato harvesters

Tyre inflation systems

Machine components

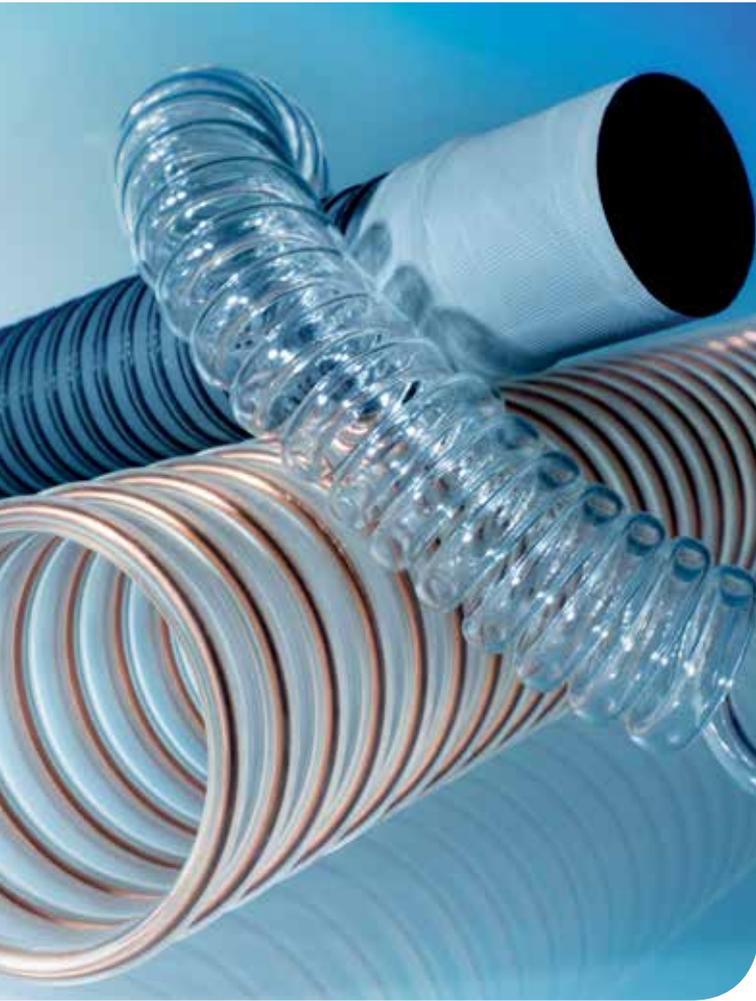
Fodder manufacturing

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.

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!

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.



Seed hoses made of Polyurethane

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.

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.

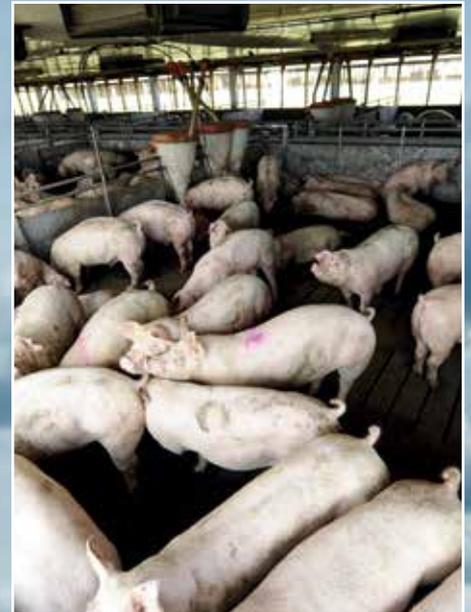
That's why many system builders and mill operators base their pneumatic grain conveying systems on flexible polyurethane hose solutions from the **Masterflex Group**.

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.



Master-PUR L Trivolution



PU suction & conveyor hose, very flexible, permanent antistatic, microbe-resistant, low flammability

NEW! antistatic + hardly inflammable + microbe-resistant.
TIP: Also available in L-F/H/HU/HX

Applications

- Highly flexible spiral hose for the suction/transport of abrasive solids, gaseous & liquid media, e.g. grain, seed, fertilisers, dust, powder
- Protective hose against mechanical stress
- Grain mills
- Silo filling, drying

Available in:

DN 25 - DN 500
Colour: transparent
Storage lengths: 10 m/15 m, depending on DN
Production lengths: up to 25 m, depending on DN
Temperature Range
-40 °C to +90 °C
peaks up to +125 °C

Master-PUR H-MHR



PU suction & conveyor hose, medium weight, good flexibility, microbial & hydrolysis resistance

Applications

- Highly flexible spiral hose for the suction/transport of abrasive solids, gaseous & liquid media, e.g. grain, seed, fertilisers, dust, powder
- Suction & conveyor hose for abrasive solids for which high microbial and hydrolysis resistance is required

Available upon request in:

DN 16 - DN 500
Colour: transparent
Production lengths up to 15 m, depending on DN
Temperature Range
-40 °C to +90 °C
peaks up to +125 °C

Master-PUR Performance



PU suction & conveyor hose, extremely abrasion/vacuum-resistant, absolutely smooth interior, permanent antistatic, microbe-resistant

Absolutely smooth, absolutely wear-resistant, absolutely flexible

Applications

- Conveying hose for silo systems, seeder machines, mill operation, etc.
- Transport hose for problematic conveyed materials such as sand, gravel, grain, fertiliser, as well as for loading/conveying systems
- Suction & conveyor hose for extremely abrasive solids, fluid and gaseous media
- Wherever easy-to-clean surfaces are needed

Available in:

DN 38 - DN 152
Colour: transparent
Storage lengths: 10 m
Production length: up to 10 m
Temperature Range
-40 °C to +90 °C
peaks up to +125 °C

Flexafit®



Neoprene®-coated polyester mesh with bronzed spring steel spiral, partly with double glass cord (depending on type), good heat & cold resistance, flexible, extremely lightweight

Applications

- Conveying hot and cold air
- For use in air conditioning and ventilation systems
- For the suction of lightweight oil mists
- Engine air intake

Available in:

DN 12 - DN 400
Colour: black
Storage lengths: 4 m
Other lengths upon request
Optionally with built-in spiral-free sleeves
Temperature Range
-40 °C to +140 °C

Flexrapid®



Silicone-coated polyester mesh, good heat & 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

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

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

- natural
- black
- blue

Available upon request in:

Special sizes and colours

Temperature Range

-40 °C to +85 °C

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



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