

HOSES FOR AGRICULTURAL EQUIPMENT & APPLICATIONS

YOUR SPECIALIST FOR HOSES IN AGRICULTURE

Flexible hoses have been associated with a number of applications and machinery for the agricultural industry. The Schauenburg Hose Technology Group is serving the agricultural industry since many years, providing solutions for both, end use applications and machinery (OEMs).

In the following pages you will find our most popular solutions for the key applications in the agricultural industry. If you require more details on a product, or are not sure of which product to select, our sales team will be happy to assist you.

SLURRY SPREADING

No fertilizer, no yield. In order to keep the nutrient content in the soil at a stable level and thus ensure good and even plant growth, fertilisation is essential. Following years of development and experience gained with our cooperation with OEMs specialised in the slurry application, we can supply you with complete sets of hoses for dribble bars and trailing shoes.



MONOFLEX EXTRA AGRI



Properties and Applications

Light duty hose for slurry distribution systems and dribble bars, highly flexible even at very low temperatures. Made of UV resistant material to prevent degradation on long term exposure to sunlight. The smooth internal surface allows for high flow rate and the smooth external surface allows an easy installation on dribble bar systems

Structure

Soft-PVC, green with rigid PVC helix, white

Temperature Resistance

-40°C up to +50°C

MONOFLEX SAF



Properties and Applications

Light duty corrugated hose for slurry distribution systems and dribble bars, super elastic. Corrugated surface and thinner wall allows good flexibility even at low temperatures

Structure

Soft-PVC, green transparent with rigid PVC helix, white

Temperature Resistance

-25°C up to +50°C

MONOFLEX RIGIDE AGRI



Properties and Applications

Light duty, rigid end hose for dribble bars in slurry distribution systems. Due to its structure and materials used, the hose will remain straight, ensuring a defined distance between the discharge lines

Structure

Rigid-PVC, green with rigid PVC helix, white

Temperature Resistance

-5°C up to +60°C

FLEXACIER® STD



Properties and Applications

Medium duty and flexible suction and delivery hose with with galvanized spring steel wire to provide flexibility with a combination of good vacuum and pressure resistance, smooth inner bore and outer surface, ideal for slurry injector systems

Structure

Soft-PVC, transparent with galvanized spring steel wire

Temperature Resistance

-5°C up to +65°C

APDatec 144



Properties and Applications

Medium duty hose with NBR blended cold flexibility resistant material allowing for operation at extreme low temperatures and an increased resistance to chemicals. Smooth surface for easy installation, ideal as filler hose on slurry tank systems or as supply hose to slurry dribble bars

Structure

PVC-NBR compound, silver with rigid PVC helix, white

Temperature Resistance

-40°C up to +60°C

Optional

With reinforced, external spiral for increased abrasion protection when dragging

VIDAFLEX EXTRA



Properties and Applications

Super elastic medium duty suction hose for filling slurry tanks and supplying dribble bar system of slurry discs injectors. The corrugated surface allows increased flexibility even in low temperature conditions and ease when dragging

Structure

Soft-PVC, blue with rigid PVC helix, white, with red wearstrip cover

Temperature Resistance

-40°C up to +50°C

VIDASPIR S



Properties and Applications

Heavy duty suction hose for filling slurry tanks, ideal solution where increased vacuum resistance is needed, e.g. for suction of thicker slurry. Smooth bore for increased flow rate and smooth outer surface for easy installation

Structure

Soft PVC, grey reinforced with rigid PVC helix, white

Temperature Resistance

-25°C up to +50°C

Optional

Medium duty, super elastic

Agroflat Drag PU



Properties and Applications

Polyether-Polyurethane (PU) layflat designed for umbilical drag hose systems and all types of slurry. PU wall allows for extreme abrasion resistance, up to 10x more than the standard PVC/NBR layflats. Polyester woven jacket reinforcement provides extra tensile and tear strength to the hose when dragged over a length of 1000m on the field, while being full with slurry, supporting also the weight of the couplings

Structure

Polyether-Polyurethane (PU), bright orange with high tensile strength wovern jacket

Temperature Resistance

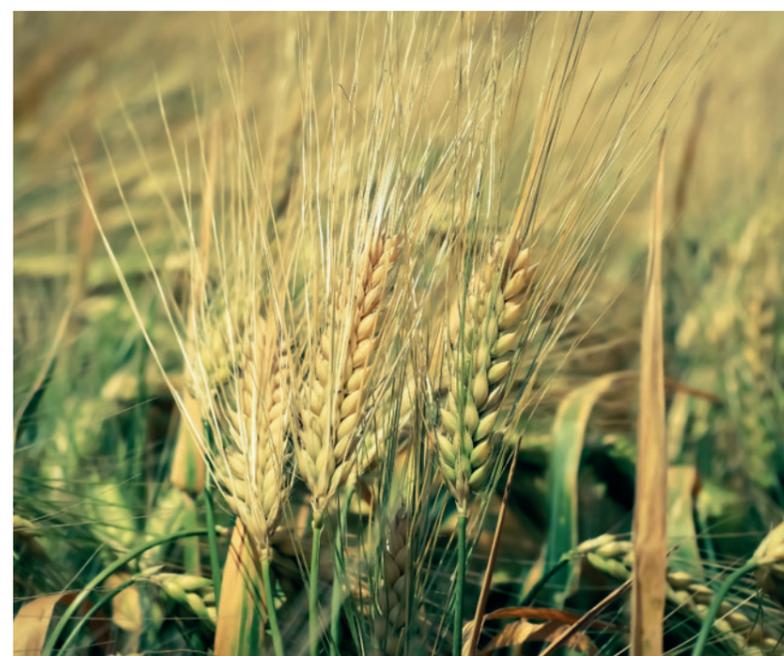
-50°C up to +75°C

Optional

With PVC-NBR wall

SEEDING

We offer an extensive range of highly abrasion resistant Polyether-Polyurethane (PU) hoses, also with antistatic or electrically conductive material for conveying seed through pneumatic seed drill machines. Alternatively, we can offer more economical solutions with PVC-based hoses - using advanced compounds blended with nitrile rubber (NBR), or with abrasion resistant inner layer made of Polyurethane. We also offer particularly light hoses made of Thermoplastic Polyolefin (TPO) or steel wire reinforced PVC hoses for gravity systems



SMOOTHFLEX PU C IND



Properties and Applications
Light weight and very flexible hose for seed drill machines for transfer of grains, abrasion resistant, microbe- and hydrolysis resistant, with smooth inner bore for maximal flow rate, outer convolution allows bore to stay in shape even when bent

Structure
Polyether-Polyurethane, transparent, with rigid PVC helix, black

Temperature Resistance
- 30°C up to + 80°C

Optional
With 1.0 mm wall or copper braid for grounding

FLEXADUX® P 7 L PU EL



Properties and Applications
Medium weight and flexible PU hose with a 0.7 mm wall thickness, eclectically conductive ($R \leq 10^4$ Ohm). Smooth bore, with very good abrasion, microbe and hydrolysis resistance. Recommended for Industry 4.0 seed spreaders as the electrical charges created during the transfer of the seeds are electrically dissipated and will not harm electronic sensors or controllers

Structure
Polyether-Polyurethane, black with spring steel wire

Temperature Resistance
- 40°C up to +100°C

Optional
With 1.4 mm wall thickness

APDatec 120



Properties and Applications
Light duty PVC hose with PU inner liner of up to 1 mm thickness. The hose combines the vacuum resistance of a PVC suction hose with the abrasion resistance of a PU hose, smooth inner bore for maximal flow rate and good abrasion resistance

Structure
PVC transparent, with a Polyester-Polyurethane inner liner and rigid PVC helix

Temperature Resistance
- 5°C up to + 60°C

Optional
With copper wire for grounding

MONOFLEX NT



Properties and Applications
Light duty PVC hose with a wall made from a PVC/NBR blend, specially designed for dry conveying of seeds and grains in primary, secondary and tertiary air seeder lines. Good flexibility even at low temperatures, and higher wear resistance compared to standard PVC hoses

Structure
PVC-NBR compound, transparent with rigid PVC helix, black

Temperature Resistance
- 40°C up to + 60°C

SERIE 3 PVC SX



Properties and Applications
Medium weight and flexible PVC ducting for seeding machines, with increased wall thickness (depending on the diameter) allows a higher wear resistance compared to standard PVC ducting hoses

Structure
Soft-PVC, transparent with rigid PVC helix, blue

Temperature Resistance
- 5°C up to +60°C

Optional
With PVC NBR compound for increased flexibility and wear resistance

VACUFLEX® VSM-SO2



Properties and Applications
Light weight and flexible self-supporting profile hose for use on secondary and tertiary lines on airseeder machines, smooth inner bore for maximal seed flow, popular in seeding systems in South Africa, Australia, New Zealand

Structure
Modified TPO (Thermoplastic Polyolefin), black

Temperature Resistance
- 50°C up to + 60°C

Optional
Electroconductive or antistatic version

FLEXACIER® LT

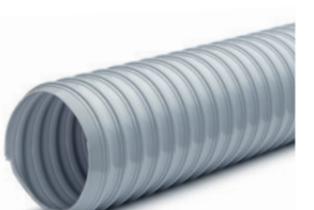


Properties and Applications
Medium duty and flexible suction and delivery hose with galvanized spring steel wire to provide increased flexibility with a combination of increased vacuum and pressure resistance, smooth inner bore and outer surface, transparent wall to monitor the transported seeds, ideal for seed distribution by gravity systems

Structure
Soft-PVC, transparent with galvanized spring steel wire

Temperature Resistance
- 15°C up to + 65°C

FLEXADUX® P 1 N light grey



Properties and Applications
Light weight and very flexible PVC ducting for the supply of air to dryers and cyclone systems in seeding and fertilizing machines

Structure
Soft-PVC, light grey with spring steel wire

Temperature Resistance
0° C up to + 70° C

SPRAYING

From backpack sprayers to boom sprayers, we have the solution for your needs with our vast range of chemical resistant hoses for pesticides. Our product range consists of high-pressure resistant hoses, to delivery hoses or ductings for boom sprayers, made of Polyurethane (TPU).



APDatec 810



Properties and Applications

Light weight, multilayer PVC pressure hose for pesticide, fungicide, fertilize solutions and mineral oils for agriculture spraying. 20 bar working pressure/ 60 bar bursting pressure

Structure

Soft-PVC, black with Polyester fabric, white

Temperature Resistance
- 20° C up to + 65° C

Optional

Version with up to 40 bar working pressure/120 bar bursting pressure

SERIE 3 PUR SN



Properties and Applications

Wall made from Ether-based Polyurethane for increased resistance to microbes, hydrolysis and chemicals. Used mainly in pulverising machines for vineyards, in black colour for increased resistance to UV

Structure

Polyether-Polyurethane, black, with rigid PVC helix, grey

Temperature Resistance
- 30° C up to + 80° C

VACUFLEX® K1H-PU



Properties and Applications

Steel wire reinforcement allows an easier bending, Ether-based Polyurethane wall of 0.5 mm for increased resistance to microbes and hydrolysis and high resistance to chemicals. Used mainly in pulverising machines for vineyards

Structure

Polyether-Polyurethane, black with Polyurethane-coated spring steel wire

Temperature Resistance
- 40° C up to + 90° C

FLEXACIER® LT PU



Properties and Applications

Polyether-Polyurethane (PU) wall provides increased chemical resistance to aggressive pesticides, in applications where vacuum resistance and flexibility are key requirements, microbe and hydrolysis resistant

Structure

Polyether-Polyurethane, transparent with galvanized spring steel wire

Temperature Resistance
-40° C up to +100° C

IRRIGATION

A large range of layflat discharge hoses for supply of water to drip irrigation systems or water-cans will ensure a spill free irrigation of your land. For lower volumes of water, we can offer standard water hoses, as well as our advanced torsion and kink free Smartflex Garden series. Our team of experts will guide you through the best solution for your application.



OneFlat 18 A



Properties and Applications

Light weight layflat hose fully assembled with Storz-couplings with wire protected by rubber-sleeve for dewatering applications and transfer of water in agricultural installations

Structure

Soft-PVC, white with woven Polyester fabric, white

Temperature Resistance
- 20° C up to + 65° C

Optional

Without Storz Couplings or with EPDM Rubber lining

Oneflat L & M



Properties and Applications

Single or double layer PVC layflats, light duty version (4 bar WP / 12 bar BP) or medium duty version (7 bar WP / 21 bar BP). Ideal for water discharge or water conduits in rip irrigation systems, without any toxic additives

Structure

Soft-PVC, blue with Polyester fabric, white

Temperature Resistance
- 20° C up to + 65° C

AGROFLAT



Properties and Applications

Heavy duty layflat hose made of NBR PVC compound with high tensile strength. Ideal for irrigation, especially with water guns, due to resistance to hammer effects during operation. 16 bar working pressure / 42 bar bursting pressure

Structure

NBR-PVC compound, black vulcanized on a woven Polyester jacket, white

Temperature Resistance
- 30° C up to + 80° C

Smartflex SMT Comfort – Yellow Edition



Properties and Applications

Premium garden hose for irrigation, featuring advanced SMT anti-torsion fabric, preventing knots and kinks, recommended for overhead hose carriage/trolley watering systems for greenhouses

Structure

5-layer Soft-PVC hose with Polyester fabric, yellow with green and silver stripes

Temperature Resistance
- 20° C up to + 65° C

Optional

In orange / silver oder green colour and featuring soft touch surface, also available with integrated GEKA couplings

PleXus Classic



Properties and Applications

Standard duty garden hose, for irrigation and cleaning applications

Structure

Soft-PVC, yellow with green stripe and cross-braided Polyester fabric, white

Temperature Resistance
- 20° C up to + 65° C

Optional

With integrated GEKA couplings

ALLROUNDER & FARM EQUIPMENT

Agriculture applications are not limited to slurry spreading, seeding and irrigation. Here you can find our hose references for a number of applications that range from general purpose to specific like cable protection, ventilation, cleaning applications and many more.



SERIE 3 PVC S (UL 94 V-0)



Properties and Applications
Light weight PVC hose that can be used for several application in agricultural machinery, including spraying, seed machines, air exhaust of silos, fumes or duct, cable protection and discharging of liquids without pressure, flame retardant wall according to UL 94 V-0 norm

Structure
Soft-PVC, grey with rigid-PVC helix, grey

Temperature Resistance
- 5 °C up to + 60 °C

FLEXADUX® P2 A 1000 L



Properties and Applications
Light weight PVC hose for ventilation in livestock farming or replenishing of carbon dioxide and air circulation in closed areas where air exchange is required, also suitable for drying and heating of tents or mobile constructions

Structure
PVC-coated polyester fabric, grey with spring steel wire

Temperature Resistance
- 30° C up to + 80° C (short-term up to + 100° C)

Optional
Heavy version and flame retardant version according to NFP 92503-M1

VACUFLEX® K1H-TPR



Properties and Applications
Air intake hose for tractors, ventilation hose at higher temperatures, also available with overmolded cuffs for direct fitting to air intake

Structure
TPR (Thermoplastic rubber), black with Polypropylen-coated spring steel wire

Temperature Resistance
- 40° C to + 135° C (short term up to + 150° C)

Optional
Flame-retardant according to UL 94 V-0

FLEXADUX® PU 1.4 ECO



Properties and Applications
Medium weight and flexible Polyether-Polyurethane ducting with smooth inner surface. The ideal solution for a number of applications in agricultural industry, including animal feeding, grain suction, tea and tobacco processing. Hydrolysis and microbe resistant for increased resistance in humid environments

Structure
Polyether-Polyurethane, transparent with spring steel wire

Temperature Resistance
- 40° C up to + 100° C (short term up to + 125° C)

Optional
With wall thickness of 0.7 | 2.0 | 2.5 mm

APDatec 10



Properties and Applications
Light duty, multipurpose PVC suction and delivery hose for a number of applications, including pumping, irrigation dewatering, slurry tanks etc

Structure
Soft-PVC, green transparent with rigid PVC helix, white

Temperature Resistance
- 5° C up to + 60° C

Optional
Green or yellow transparent or clear wall, also as food grade version according the EU 10/2011

OnePressGermany 258



Properties and Applications
Flexible and robust compressed air hose with highly tear-resistant fabric, smooth core and cover for easy connection or pressing, resistant against mineral oil containing compressed air, kink and abrasion-resistant, weather-resistant with excellent low temperature flexibility, also suitable for rough operating conditions in the field and in industrial applications

Structure
Styrene Butadiene Rubber (SBR), yellow with blue stripe, with polyester fabric, white

Temperature Resistance
- 20° C up to + 100° C

Optional
Black color with orange stripe without or with fully integrated Euro couplings or in oil resistant version

APDatec 81



Properties and Applications
Multi-layer PVC pressure hose with highly tear-resistant polyester fabric, available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings

Structure
PVC, transparent with Polyester fabric, white

Temperature Resistance
- 20°C up to + 65°C

Optional
With transparent colored wall

APDatec 840



Properties and Applications
Flexible single layer hose made of Soft-PVC for a number of applications including seeding machines, fertilisers or sprayers. Can also be used as a level hose for storage tanks or for light pressure applications. Available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings

Structure
Soft-PVC, transparent

Temperature Resistance
- 20° C up to + 65° C

Optional
Transparent colored wall or in oil resistant version

ACCESSORIES

Accessories to connect your hose to your equipment - directly from our stock. Additionally, we can offer customised solutions for ready to fit hoses coming overmolded with connection cuffs, couplings or other accessories.



WATER HOSE ACCESSORIES



Large selection of couplings and clamps, fittings, connectors, water guns and accessories to connect hoses to your systems

PROTECTION SPIRALS



Protection spiral against abrasion, for bundling of cables, hydraulic and other sensitive hoses

CUSTOMISED SOLUTIONS



Customised solutions can be provided with overmoulded or screwed on cuffs for direct fitting of the hoses on the machinery

BINDING TUBES



Binding tubes for fixing branches in vineyards, greenhouses etc. The very elastic material does not cut into plants, it „grows“ with them and still creates a stable connection with the plant. Weatherproof, gentle on plants, economical, practical, extremely durable, UV-resistant

IBC CONTAINER ACCESSORIES

Whether standard click locks or claw couplings or ball valves or outlet spigots. We have an extensive range of accessories for IBC adapters



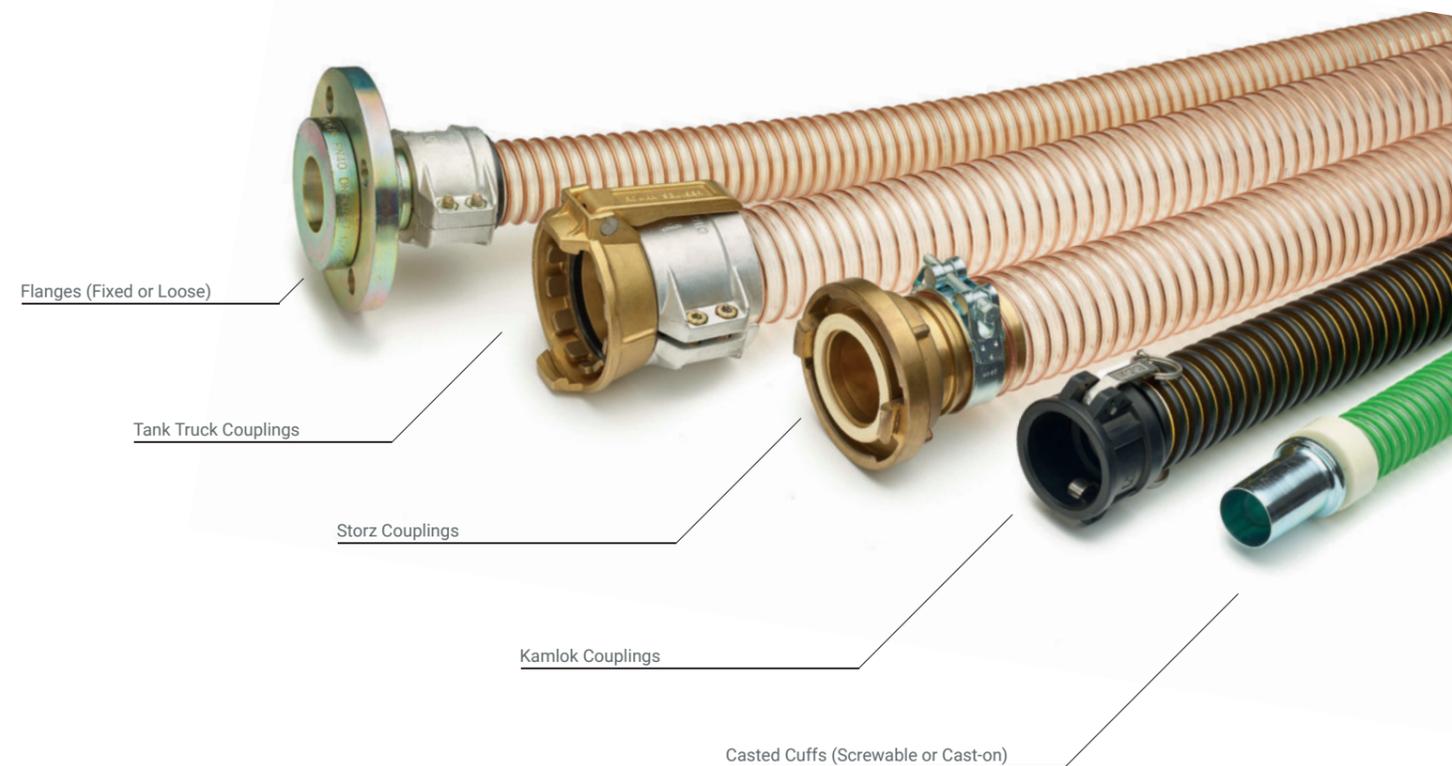
CUFFS & HOSE CLAMPS

Different cuffs, loose, screwed on or firmly welded to the hose and of course a range of different clamps to fix the hoses to the connectors



PROFESSIONAL QUICK TYPE COUPLINGS

For a quick and efficient connection without twisting and screwing and the avoidance of damage to threads caused by overtightening



Flanges (Fixed or Loose)

Tank Truck Couplings

Storz Couplings

Kamlok Couplings

Casted Cuffs (Screwable or Cast-on)



 **SCHAUENBURG**
HOSE TECHNOLOGY GROUP

The **SCHAUENBURG HOSE TECHNOLOGY** Group is one of the world's biggest and leading plastic hose manufacturers, producing high-performance hoses from virtually every thermoplastic. With production, distribution and trading facilities in Germany, France, Italy, Romania, Canada, China and the US, SCHAUENBURG Hose Technology serves customers in 74 countries around the globe.

