

HOSES FOR WOOD- WORKING

HOSES FOR WOODWORKING

To meet the growing need for efficient dust and wood chip extraction in increasingly powerful machines and systems, our wide hose range provides optimal solutions for all applications in the woodworking industry, from light dust to abrasive materials. This selection includes the SMARTFLEX® -Series, a perfect all-rounder with antistatic, flame retardant, hydrolysis and microbe resistant features, alongside the more economical and eco-friendly ECO-Series, catering to applications from woodworking machines to CNC machining centers.

SMARTFLEX®-SERIES

The SMARTFLEX®-Series is a genuine all-rounder solution that combines four elementary properties:



Microbe Resistant

Microbes are microorganisms that occur when materials are in contact with organic substances like soil, grass, wood and more. Standard polyurethane hoses will be attacked by microbes, the plastic become brittle. A combination of heat and moisture accelerates this process and finally the plastic will be decomposed. Our SMARTFLEX®-Series is made of polyether polyurethane which is resistant to microbes.



Hydrolysis Resistant

Moisture as well as humidity could be present in wooden particles or environment. Hydrolysis is the splitting of a chemical compound by reaction with water. Standard polyurethane hoses in the market are not hydrolysis resistant. The result is a decrease of the mechanical characteristics and an irreversible breakdown of the material. Our SMARTFLEX®-Series is made of polyether polyurethane, which is resistant to hydrolysis.



Flame Retardant (according to DIN 4102 B1)

Flame retardancy is crucial in the German (and Central European) woodworking industry due to combustible wood dust and particles. Our SMARTFLEX®-Series is DIN 4102 B1 and BGI 739-2 certified by independent testing institute, and compliant to UL 94 V-0.



Permanently Antistatic (R<10⁹ Ohm)

Wooden dust and particles could form an explosive mixture when combined with air. To avoid ignition hazards resulting from electrostatic charges our SMARTFLEX®-Series is permanently antistatic (R<10⁹ Ohm) according to ISO 8031, conform to TRGS 727 and ATEX 2014/34/EU.

Available in standard lengths of 10m or 15m | Temperature range from -40°C up to +100°C (short term up to +125°C)



microbe resistant



hydrolysis resistant



food grade



grounding wire



permanently antistatic



high temperature



flame retardant



abrasion resistant



very smooth inside

SMARTFLEX®-SERIES

WOOD DUST

Light, flexible hoses, particularly suitable for installation in woodworking machines, due to very small bending radius.

Features

Flame retardant, permanently antistatic (R<10⁹ Ohm), hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction

TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature

-40°C up to 100°C, short term up to 125°C

Norms

Flame retardant according to DIN 4102 B1

SMARTFLEX® 0.4



Applications

Light weight, very flexible and compressible PU hose for aspiration and suction of dust and small particles in woodworking applications (wall thickness 0.4mm).

SMARTFLEX® 0.6



Applications

Light weight, flexible and compressible PU hose for aspiration and suction of dust and small particles in woodworking applications (wall thickness 0.6mm).

WOOD PARTICLES

Medium weight hoses with wall thickness 0.7 and 1.0mm for improved abrasion resistance, smooth bore, for use on mobile or stationary extraction systems, in woodworking machines.

Features

Flame retardant, permanently antistatic (R<10⁹ Ohm), hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction

TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature

-40°C up to 100°C, short term up to 125°C

Norms

Flame retardant according to DIN 4102 B1

SMARTFLEX® 0.7



Applications

Medium weight and flexible PU hose with smooth bore for extraction or transport of abrasive material like shavings (wall thickness 0.7mm).

SMARTFLEX® 1.0



Applications

Medium weight and flexible PU hose with smooth bore for extraction or transport of abrasive material like shavings (wall thickness 1.0mm).

WOOD CHIPS & SPLINTERS

Heavy weight hoses with wall thickness 1.4 and 2.0mm for superior abrasion resistance, smooth bore, for transporting rough and highly abrasive materials (for example in saw-mills).

Features

Flame retardant, permanently antistatic (R<10⁹ Ohm), hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction

TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature

-40°C up to 100°C, short term up to 125°C

Norms

Flame retardant according to DIN 4102 B1

SMARTFLEX® 1.4



Applications

Heavy duty and flexible PU hose with smooth bore for suction or conveying of abrasive materials like splinters or chips (wall thickness 1.4mm).

SMARTFLEX® 2.0



Applications

Very heavy duty PU ducting with smooth bore for suction or conveying of abrasive materials like rough wooden chips or splinters (wall thickness 2.0mm).

ECO-SERIES

Experience Sustainable and Economical Solutions: As pioneers in hose production we are one of the first European producers to offer our ECO-friendly hose range, uniquely combining environmental responsibility with cost efficiency. These hoses are crafted from specialized, eco-friendly compounds that match conventional prime materials in both function and effectiveness. For industrial applications with less demanding regulatory requirements, the ECO hose series provides a more budget-friendly option.

Available in diameter range 20 – 500mm | Temperature range from -40°C up to +100°C (short term up to +125°C)



WOOD DUST & PARTICLES

Particularly suitable for installation in woodworking machines, due to very small bending radius and for use on mobile or stationary extraction systems.

VACUFLEX® PU 400 C ECO



Applications
Light weight, very flexible and compressible PU hose for aspiration and suction of dust and small particles in woodworking applications (wall thickness 0.4mm).

Features
Hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

Options
Ester based Polyurethane

VACUFLEX® PU 600 C ECO



Applications
Light weight, flexible and compressible PU hose for aspiration and suction of dust and small particles in woodworking applications (wall thickness 0.6mm).

Features
Hydrolysis- & microbe resistance, excellent flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

Options
Ester based Polyurethane

VACUFLEX® PU 900 C ECO



Applications
Medium weight and flexible PU hose for extraction or transport of abrasive materials like shavings (wall thickness 0.9mm).

Features
Hydrolysis- & microbe resistance, good flexibility, good oil & petrol resistance

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

Options
Ester based Polyurethane



CNC MACHINING CENTERS & VACCUM TABLES

In the woodworking industry, proper dust extraction via hoses connected to CNC machining centers and vacuum tables is critical for safety and efficiency.

FLEXADUX® P2 CNC



Applications
CNC processing, sawing & milling, wood dust extraction, extraction systems, automation technology & robotics (wall thickness 0.65 - 0.8mm).

Features
Excellent flexibility, good abrasion resistance, good oil & petrol resistance, hydrolysis- & microbe resistance, flame retardant

Construction
TPU / Polyether-Polyurethane, uncolored, steel wire / spring steel wire / coated / PVC

Temperature
-40°C up to 100°C, short term up to 125°C

Norms
Flame retardant according to DIN 4102 / B1, discharge capability according to BGI 739-2 with spiral earthing

PU 0.6 CNC FLEXX



Applications
CNC processing, sawing & milling, wood dust extraction, extraction systems, automation technology & robotics (wall thickness 0.6mm).

Features
Excellent flexibility, good abrasion resistance, good oil & petrol resistance, hydrolysis- & microbe resistance, flame retardant

Construction
TPU / Polyether-Polyurethane, uncolored, clear, steel wire / spring steel wire / not coated / copper plated

Temperature
-40°C up to 100°C, short term up to 125°C

Norms
Flame retardant according to DIN 4102 / B1, TRBS 2153, discharge capability according to BGI 739-2 with spiral earthing

FLEXACIER® STD FOOD



Applications
Medium duty and flexible PVC suction hose with smooth bore for vacuum or pumping applications.

Features
Good flexibility, crush-resistant, high vacuum resistance, smooth outside, smooth inside, phthalate-free

Construction
Soft-PVC, transparent with galvanized steel wire

Temperature
-20°C up to 65°C

Norms
Approved for Food contact according to EC 1935/2004 and EU 10/2011 A,B,C

COMPLEMENTARY HOSES FOR WOODWORKING

Boost your woodworking efficiency and maintain a clean workspace with our selection of complementary hoses, designed for optimal dust collection and tool integration.



DUST & PARTICLES

Light weight PU wall hoses with smooth bore, very flexible and abrasion resistant.

LIMBERFLEXX PU



Applications
Professional hose for industrial vacuum cleaners and dust removal equipment.

Features
Light and flexible Polyurethane hose featuring an improved bending fatigue and tensile strength. Compatible with all common cuffs and connection parts and available in lengths up to 100m

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

Temperature
-40°C to 100°C, short term up to 125°C

SERIE 3 PUR S MHR AS



Applications
Light weight and flexible PU hose with smooth bore, for suction of dust and light abrasive particle, with antistatic wall to prevent sparks and clogging from static electricity.

Features
Light weight, good flexibility and abrasion resistance, good tensile strength, ultimate elongation

Construction
Polyether-Polyurethane with antistatic wall, transparent with rigid PVC helix, black

Temperature
-30°C up to 80°C

SMOOTHFLEXX PU IND



Applications
Designed for light suction and transport of abrasive particles, granules, waste and dust in the plastic, wood and construction industries and in agriculture.

Features
Light weight, good flexibility, good abrasion resistance, very smooth inside, corrugated outside

Construction
TPU / Polyester-Polyurethane, uncolored, clear, plastic spiral / hard PVC

Temperature
-30°C up to 80°C

Options
With copper wire for grounding, with 1.0mm or 1.4mm wall thickness, hydrolysis- & microbe resistance

COMPLEMENTARY HOSES FOR WOODWORKING



LIGHTER PARTICLES

TPO and PVC hoses for DIY applications – a good alternative to PU hoses for the extraction of lighter particles.

VSM-S01



Applications
Vacuum cleaner, industrial vacuum cleaner, cleaning, dust extraction.

Features
Excellent flexibility, very good low-temperature flexibility, corrugated outside, smooth inside, crush-resistant, good flexibility restoring force after compression or bending, excellent mechanical properties, especially for higher tensile forces

Construction
TPO, grey, profile helix / solid profile helix

Temperature
-50°C up to 60°C

Options
Also available in aniststatic according to DIN 53482 - $\leq 10^{10}$ Ohm - or electroconductive $\leq 10^6$ Ohm versions

VACUFLEX® K1H



Applications
Professional hose for industrial vacuum cleaners and dust removal equipment.

Features
Light weight, good flexibility, good chemical resistance, hydrolysis- & microbe resistance, ultra light and extremely flexible, good mechanical strength

Construction
PVC, black / jet black (similar RAL 9005), steel wire / spring steel wire / coated / PVC

Temperature
-10°C up to 70°C

Options
With Polyurethane wall, hydrolysis- & microbe resistant

SERIE 3 PVC S UL 94 V0



Applications
Medium weight and flexible PVC-hose for suction of dust and small particles, smooth bore, hose wall flame retardant compliant to UL 94 V0.

Features
Medium weight, good flexibility, very smooth inside, corrugated outside, good ozone- & UV-resistance

Construction
PVC / soft PVC, grey / dusty grey (similar RAL 7037), opaque, plastic spiral / hard PVC

Temperature
-5°C up to 60°C

Norms
Compliant to UL 94 V0

Options
Industrial version with non UL 94 V0 compliance

PELLET HOSES & DRYING

Hoses are essential for the efficient handling of pellets, particularly in systems where temperature resistance and material integrity are paramount, such as the conveyance of wood pellets in high-temperature heating systems.



APDatec 122



Applications
Pellet transport, granulate conveying, furniture production, extraction systems, dosing.

Features
Good flexibility, smooth inside, corrugated outside, good chemical resistance, with copper wire for grounding, phthalate-free

Construction
PVC / soft PVC, uncolored, clear, plastic spiral / hard PVC

Temperature
-5°C up to 60°C

APDatec 120



Applications
Pellet transport, granulate conveying, extraction systems, conveying of abrasive media, powder conveying & -coating.

Features
Good flexibility, very smooth inside, corrugated outside, very good chemical resistance, abrasion resistance, with copper wire for grounding

Construction
PVC / soft PVC, PU inner layer, uncolored, clear, plastic spiral / hard PVC

Temperature
-5°C up to 60°C

FLEXADUX® HT PU 1.4



Applications
Abrasion resistant PU ducting, with an enhanced focus on high-temperature resilience ensuring efficient and safe transfer of wood pellets, even under elevated operating temperatures (wall thickness 1.4 mm).

Features
Medium weight, very good flexibility, very good temperature resistance, very good abrasion resistance, smooth inside

Construction
TPU / Polyester-Polyurethane, uncolored, translucent, steel wire / iron wire / not coated / copper plated

Temperature
-40°C up to 145°C, short term up to 165°C

FLEXADUX® SIL II



Applications
Light weight and flexible Silicone hose for suction of hot air and gases or for drying purposes.

Features
Light weight, excellent flexibility, very good temperature resistance, particularly small bending radius (r < d), good chemical resistance

Construction
Silicone coated glass-fabric, double-ply, red-brown

Temperature
-70°C up to 250°C, short term up to 300°C

Options
SIL I: One ply silicone

PELLET HOSES & DRYING



VACUUM LIFTING SYSTEMS

Hoses are crucial components in vacuum lifting systems, facilitating the lifting and movement of materials, and are characterized by key elements such as good compression, resistance to deformation and flexibility.

VACULIFT



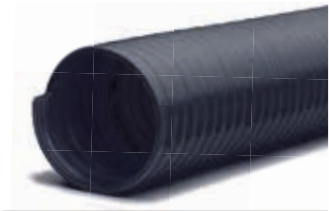
Applications
Hose for vacuum lifting applications, air tight, compressible, customized lengths.

Features
Highly compactable, single layer hose for vacuum lifting applications, compressible 3:1, available in diameters 80mm - 305mm, lengths of up to 4m

Construction
Neoprene coated glass fibre wall with a copper coated steel wire and acrylic overlayer

Temperature
-20°C up to 135°C

VACUFLEX® K2 PVC



Applications
Suitable for vacuum delivery hose in vacuum lifting systems.

Features
Double walled, robust and highly flexible hose due to the air chamber, wear, step and tear resistant with excellent flow characteristics

Construction
PVC with double wall, black color with PVC coated spring steel wire

Temperature
-10°C up to 70°C

Options
K2 PU UL: With Polyurethane wall and flame retardant

SERIE 3 PVC SX NT



Applications
Full plastic hose for vacuum lifting systems connecting the vacuum station to the lift hose, light and highly flexible.

Features
Medium weight, good flexibility, very smooth inside, corrugated outside

Construction
PVC / soft PVC, black, plastic spiral / hard PVC

Temperature
-25°C up to 60°C



CLAMPS & CUFFS

Discover our wide range of accessories for secure and efficient connections of the hoses to woodworking tools and dust extraction systems.



BridgeXX 109
Bridge Clamp



Bridge Clamp with
Quick Release Lock



Hinge Bolt
Clamp



Wire Hose
Clamp



Cuffs

Bridge clamps provide even pressure across wide or uneven surfaces, essential for secure and accurate bonding in woodworking and other applications.

Wide selection of standard clamps and collars in W1-W2-W4 providing the necessary pressure to securely hold pieces together for strong and accurate joinery.

Screwable / molded cuffs made of different materials (PVC, Electro-conductive Polyurethane) that enable secure and efficient connections to woodworking tools and dust extraction systems.



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