



NORRES
BAGGERMAN

Better. Stronger. Together.

Durable. Efficient. Reliable.

**Hose systems for
the plastics industry.**



Innovative solutions for all application areas in the plastics industry.

Processing plastics is a complex process in which high-quality technical hoses are indispensable in all process steps in order to ensure a smooth production process.

They are used, for example, in the filling and emptying of silos and silo vehicles, in the safe and efficient transport and distribution of raw materials such as granulates, gases and powders. They also support the drying of granulates, the injection of hot air prior to processing, and the cooling of injection moulds with water or oil. They are also essential for controlling the temperature of extrusion tools with air.

In order to meet the specific requirements of plastics processing, the hoses must have special properties: flexibility, abrasion resistance, chemical resistance, resistance to extreme temperatures, and high flow rates are decisive selection criteria.

The hoses from NORRES | Baggerman have been specially developed for the demanding conditions in the plastics processing industry. Whether in mechanical engineering or in direct processing – our products stand for maximum efficiency, reliability, and durability. Thanks to the optimal combination of excellent abrasion resistance, outstanding flow properties, and high flexibility, our hoses are the ideal solution for all requirements and make a decisive contribution to the sustainable optimisation of production processes in the plastics industry.

You expect efficiency and a wide range of materials. We have both. And more.

The merger of NORRES in Gelsenkirchen and Baggerman in Roermond has resulted in the creation of NORRES | Baggerman – a global market leader in the manufacturing and technical installation of industrial hose systems. Our unique portfolio impresses with its variety of materials and application expertise. In our worldwide competence centers, we develop and supply a wide range of PVC, PU and rubber hoses, as well as suitable couplings and accessories. Thanks to this diversity, we can meet almost any requirement for a wide variety of applications.

Millions of kilometres of NORRES | Baggerman hoses are already successfully used in agriculture, the food and pharmaceutical industries, the plastics and wood processing industries, as well as in robotics, fluid technology, energy technology and mechanical, and plant engineering.

We employ more than 400 people worldwide at six production sites in Germany, Italy, Switzerland, North America, and China, as well as at 14 sales, service, and warehouse locations.

Certified quality and service worldwide.

Our customers benefit from consistently high and reliable global quality, flexible service, and fast response times – both for initial equipment and for part replacement. In addition, the quality of our manufacturing convinces both partners and customers worldwide. As a certified manufacturer according to DIN ISO 9001, we guarantee the highest quality standards. Our products comply with all relevant regulations.



Better. Stronger. Together.

We stand for strong commitment and innovative strength, which we use for the benefit of our customers.

Better.

Our customers benefit from our expertise in a variety of materials and applications, the highest quality standards, many years of experience, and excellent service. We strive for continuous improvement.

Stronger.

With production and service centers around the world, we are a reliable partner for globally active companies. We guarantee short delivery and response times.

Together.

Thanks to our combined expertise, we offer our customers outstanding and innovative solutions – because we are more successful together.



A solution for every application.

Hose applications at a glance.

1 Filling/emptying

of silos, tankers and silo vehicles

- AIRDUC® PUR 356 AS (XHD)
- NORPLAST® PUR 386
- SCIROPPPO® PU FOOD AS
- 3560 SILOCORD®/ALIM
- 5510/5517 TW couplings

2 Material transport

of granules, gases, powders (granule conveyor, vacuum conveyor, suction conveyor, dosing system, big bag filling/emptying, shredder, mill, extruder, injection moulding machine)

- AIRDUC® PUR 355 AS (HD)
- 4480 ARMOFLEX®
- NORPLAST® PVC
- 384 SCIROPPPO® AS
- NORPLAST® PUR 385 AS GRANUFLEX

3 Temperature control

with air

- AIRDUC® PUR 351 HT (MD)
- PROTAPPE® TPE 320 AS (XLD)
- AIRDUC® TPE 363 (MD)
- NEO 390 ONE
- NEO 390 TWO

4 Water cooling

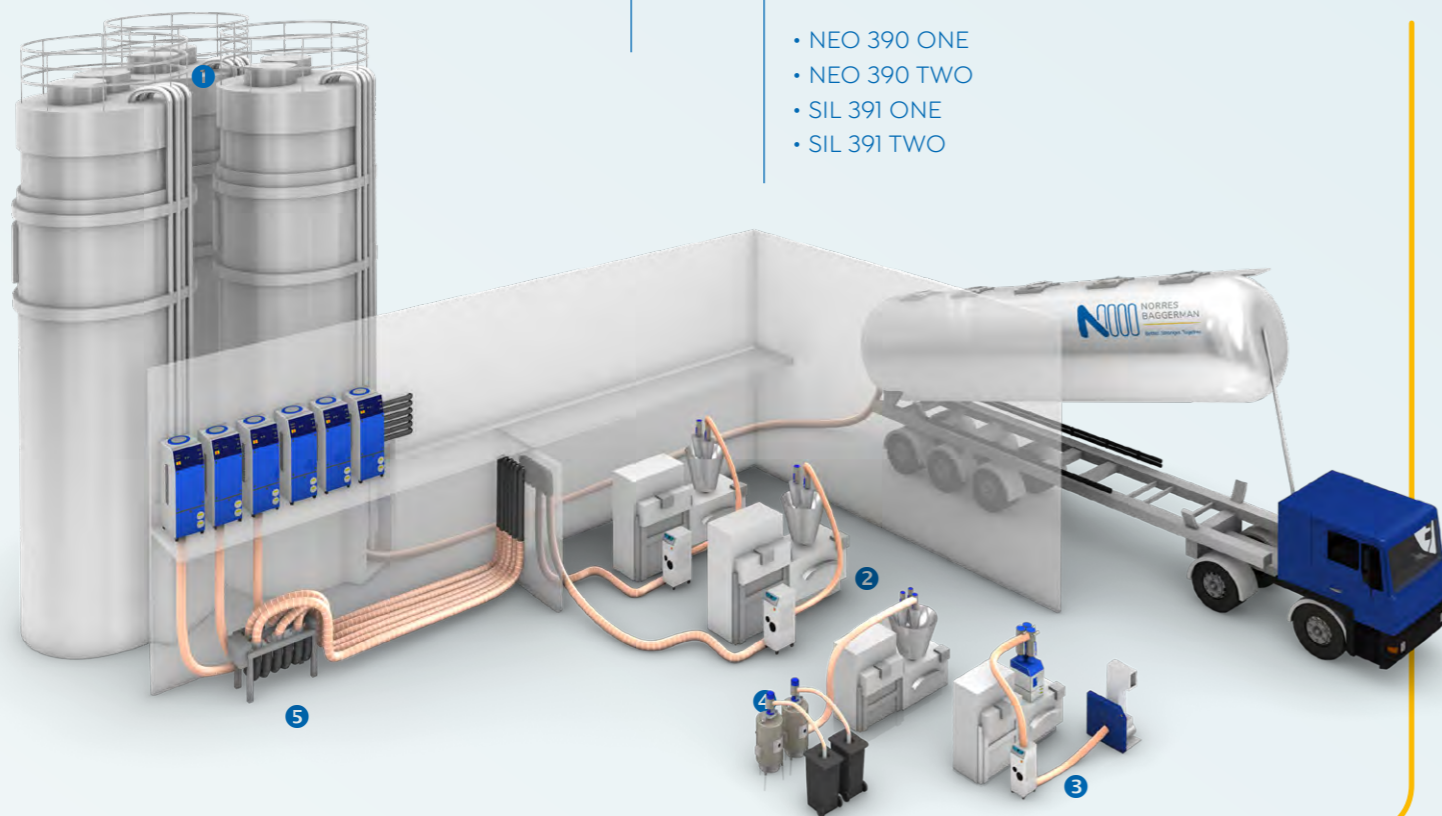
injection mould cooling, cooling water hose

- 3128 TEMPERFORM/Blue
- 3127 TEMPERFORM/Red
- 3126 CALORFORM

5 Drying

of granulates and plastics (granulate dryer, plastic dryer, hot air dryer)

- NEO 390 ONE
- NEO 390 TWO
- SIL 391 ONE
- SIL 391 TWO



NORPLAST® PUR 385 AS GRANUFLEX

Polyurethane hose:
medium weight, environmentally friendly, durable

Granuflex - the perfect solution for transporting granulates, bulk solids, powders and gases: This flexible hose has a copper wire integrated into the wall and a spiral made of hard PVC. Since it is free of soft PVC, it contributes to sustainability. The mirror-smooth interior and the high-quality premium polyurethane (Pre-PUR®) ensure exceptional abrasion resistance and a long service life – perfect for a wide range of demanding applications in the plastics industry.

Application areas	<ul style="list-style-type: none"> • conveying granules, bulk solids, powders, and gases • granule conveyor equipment, vacuum conveyors, suction conveyors, dosing systems, big bag filling/emptying, shredders, mills, extruders, injection moulding machines
Properties	<ul style="list-style-type: none"> • environmentally friendly due to the absence of soft PVC • highly abrasion-resistant (6 times better than PVC) • medium-weight • flexible • low friction due to mirror-smooth PU inner lining • very durable
Temperature range	-25 °C to 85 °C
Design, materials	<ul style="list-style-type: none"> • premium polyurethane (Pre-PUR®) • rigid PVC spiral • grounding wire • as smooth as glass on the inside (even when curved) • hose wall: premium polyurethane (Pre-PUR®)
Delivery variants	Transparent inner layer with anthracite-coloured rigid PVC spiral
Connection systems	5510/5511/5517/6202

Inner Ø	Outer Ø	Vacuum	Bending radius	Weight	Dimensions in stock	Order no.
inch/mm	mm	bar	mm	kg/m	m	
1.5 / 38	45.00	0.200	38.00	0.34	30	4609-038-000
1.57 / 40	47.00	0.200	40.00	0.35	30	4609-040-000
1.75 / 45	52.60	0.200	45.00	0.43	30	4609-045-000
2 / 51	59.00	0.200	51.00	0.52	30	4609-050-000
2.36 / 60	68.20	0.160	60.00	0.60	30	4609-060-000

Medium	
Properties Information	

AIRDUC® PUR 355 AS (HD)

Poyurethane hose: antistatic, heavy, microbe resistant

Application areas	<ul style="list-style-type: none"> conveying of bulk solids, powders, and gases granule conveyor equipment, vacuum conveyors, suction conveyors, dosing systems, big bag filling/emptying, shredders, mills, extruders, injection moulding machines
Properties	<ul style="list-style-type: none"> universal ester polyurethane hose extremely abrasion-resistant heavy duty increased pressure and vacuum resistance microbe resistant good resistance to oil, gasoline, and chemicals flame-retardant according to UL94-V2 & DIN 4102-B1 antistatic <109 Ω
Design, materials	Profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
Temperature range	-40 °C to +90 °C (briefly to +125 °C)
Wall thickness	1.4 - 1.5 mm approx.
Delivery variants	Special colours: partially coloured, completely coloured
Connection systems	5510/5511/5517/6202

Inner Ø	Outer Ø	Vacuum	Bending radius	Weight	Dimesions in stock	Order no.
inch/mm	mm	bar	mm	kg/m	m	
1.5 / 38	48.00	1.000 (1.00)	29.00	0.52	10 15 20	355-0038-0000
- / 40	50.00	1.000 (1.00)	30.00	0.54	10 15 20	355-0040-0000
1.75 / 44-45	55.00	0.915 (1.00)	33.00	0.61	15	355-0045-0000
2 / 50-51	60.00	0.825 (1.00)	35.00	0.66	5 10 15 20 25	355-0050-0000
2.36 / 60	70.00	0.685 (1.00)	40.00	0.78	5 10 15 20	355-006 0-0000

Further dimensions can be found here:

Medium	
Properties Information	

6 AIRDUC® PUR 356 AS XHD

Polyurethane hose: antistatic, super-heavy, microbe resistant

Application areas	Filling/emptying of silos, silo vehicles, tankers
Properties	<ul style="list-style-type: none"> universal ester polyurethane hose extremely abrasion-resistant super heavy-duty increased pressure and vacuum resistance microbe resistant good resistance to oil, gasoline, and chemicals antistatic <109 Ω
Design, materials	Profile hose; spring steel wire firmly embedded in wall; wall: permanently antistatic premium ester-polyurethane (Pre-PUR®)
Temperature range	-40 °C to 90 °C (short time to 125 °C)
Wall thickness	2.0 - 2.5 mm approx.
Delivery variants	Special colours: full coloured
Connection systems	5510/5511/5517/6202

Inner Ø	Outer Ø	Vacuum	Bending radius	Weight	Dimesions in stock	Order no.
inch/mm	mm	bar	mm	kg/m	m	
1.5 / 38	49.00	1.000	104.00	0.79	10 15	356-0038-0000
- / 40	51.00	1.000	109.00	0.82	10 15	356-0040-0000
1.75 / 45	56.00	1.000	129.00	0.91	10 15	356-0045-0000
- / 50	61.00	1.000	134.00	1.00	10 15	356-0050-0000
2.36 / 60	71.00	1.000	156.00	1.18	10 15	356-0060-0000

Further dimensions can be found here:

Medium	
Properties Information	

Product	3560 SILOCORD®/ALIM	3128 TEMPERFORM/BLUE	3127 TEMPERFORM/RED	NORPLAST® PUR 386 SCIROPP® PU FOOD AS
Medium Properties				
Application areas	Flexible pressure hose for filling and emptying	Extremely flexible cooling water hose	Extremely flexible cooling water hose	Abrasion-resistant suction and pressure hose
Material	Rubber (NR/SBR) Smooth interior/patterned fabric exterior, textile plies, 2 static wires	Rubber (EPDM) Smooth interior/exterior, extruded, textile plies	Rubber (EPDM) Smooth interior/exterior, extruded, textile plies	PU/PVC Smooth inside / corrugated outside, rigid PVC spiral

Product	NORPLAST® PVC 384 SCIROPP® AS	AIRDUC® PUR 351 HT (MD)	AIRDUC® TPE 363 (MD)	NEO 390 ONE
Medium Properties				
Application areas	Suction and pressure hose for material transport	Medium-weight high-temperature hose for temperature control with air	Medium-weight high-temperature hose for temperature control with air	Highly flexible hose for drying granules
Material	PVC Smooth interior/slightly corrugated exterior, rigid PVC spiral, static wire	PU Premium high-temperature polyurethane (Pre-PUR®), smooth inside / corrugated	TPE With steel spiral	TPV (Neoprene/glass fabric) Neoprene-coated glass fabric, single-layer, spring steel wire

Product	NEO 390 TWO	PROTAPE® TPE 320 AS (XLD)	SIL 391 ONE	SIL 391 TWO
Medium Properties				
Application areas	Flexible hose for drying granulates and plastics	Light-weight hose for temperature control with air	Highly flexible hose for drying granulates and plastics	Flexible hose for drying granulates and plastics
Material	TPV (Neoprene/glass fabric) Neoprene-coated glass fabric, double-layered, spring steel wire	TPE With steel spiral	Rubber Silicone-coated glass fibre fabric, single-layer, spring steel wire	Rubber Silicone-coated glass fibre fabric, double-layered, spring steel wire

Product	3126 CALORFORM	4480 ARMOFLEX®	5510/5517 Kamlok couplings	Discover more solutions for the plastics industry here!
Medium Properties				
Application areas	Very flexible cooling water hose	Flexible suction and pressure hose for material transport	Connection of the hose to the coupling stations	
Material	EPDM Smooth interior/exterior, textile plies	PVC Smooth interior/exterior, with steel spiral	Aluminium	



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Get your personalised offer!

Contact us:

Germany

NORRES Schlauchtechnik GmbH
Phone +49 209 8 00 00 0
Mail info@norres-baggerman.de

Netherlands

Baggerman BV
Phone +31 475 354 200
Mail info@norres-baggerman.nl

France

NORRES France SARL
Phone +33 3 26 35 95 41
Mail info@norres-baggerman.fr

Italy

De Bernardi S.r.l
Phone +39 02 90 39 08 21
Mail commerciale@norres-baggerman.it

GROSSO S.R.L. a socio unico

Phone +39 0332 948633
Mail info@norres-baggerman.it

Poland

NORRES Polska Sp. z o.o.
Phone +48 61 293 31 80
Mail info@norres-baggerman.pl

Romania

Baggerman BV SRL
Phone +40 774 410 411
Mail info@norres-baggerman.ro

Scandinavia

NORRES Baggerman Scandinavia
Phone +46 35 37 96 5
Mail info@norres-baggerman.se

Switzerland

Hoses4U S.A.
Phone +41 91 695 42 30
Mail info@norres-baggerman.ch

Czech Republic

NORRES Czech s.r.o.
Phone +420 555 501 901
Mail info@norres-baggerman.cz

UK

NORRES UK LTD
Phone +44 121 328 5426
Mail info@norres-baggerman.co.uk

Hungary

Triász-Tömlő Kft.
Phone +36 46 505 342
Mail sales@triasztomlo.hu

US

NORRES North America Inc.
Phone +1 574 232 9061 (Office)
+1 855 NORRES 0 (Toll free)
Mail info@norres-baggerman.us

China

**NORRES Industrial Hoses
(Shanghai) Co., Ltd.**
**NORRES Hose Technology
(Shanghai) Co., Ltd.**
Phone +86 21 400 920 8958
Mail info@norres.cn

NORRES Baggerman Group:

NORRES Schlauchtechnik GmbH

Am Stadthafen 12-16
45881 Gelsenkirchen | DE
Phone +49 209 8 00 00 0
info@norres-baggerman.de

norres-baggerman.com

Baggerman BV

Paul van Schaiklaan 2
6045 JJ Roermond | NL
Phone +31 475 354 200
info@norres-baggerman.nl