



**AIR Industries**

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**Nederman**

IMPROVING YOUR WORKSPACE



## **Composite working**

**Safeguarding health and production  
in composite industries**



### **Improved health conditions and a clean environment**

All surplus material from cutting, grinding, and polishing is extracted immediately with our on-tool extraction solutions. Dust and particles are collected and safely stored for convenient disposal and the air is filtered before being released into your premises or the atmosphere.

### **Rationalized work and improved ergonomics**

Pressurized air, electricity and vacuum supplies are readily available. Swing arms offer optimal convenience when installed over wide working areas using on-tool extraction. No more tripping over tangled hoses and cables on the workshop floor.

### **Improved safety**

Safety comes first. To safeguard personnel, and plant, we divide your system into safety zones and secure the installation with backlash valves, blast plates, etc.

### **Less wear on equipment**

Damage to machinery and malfunctions are caused by mechanical wear, dirt, and dust. With our solutions no supply systems are left on the floor to be damaged and our vacuum cleaning systems keep your production lines and premises clean and tidy.

### **Assured product quality and finish**

A clean production environment is essential for the quality and finish of the product. The smallest particle of dust can have devastating consequences. Smooth, dust-free surfaces are decisive for achieving maximum adhesion when joining components made of composites. This is an area where no compromises can be tolerated when producing aircraft parts, for example, or propellers for wind turbines.

That is why the world's leading car and boat manufacturers buy equipment from Nederman to ensure the best results.

## Working in Composite:

# Improve work conditions, optimize uptime and safeguard production

Products made of composite materials are increasing strongly in number and include everything from simple features to advanced components. When these materials are cut, milled, machined or polished, they release dust, particles and fibres.



The particles are often small enough to enter human lungs or, especially when the material is fibreglass, penetrate the skin and cause an eczema-like reaction. Lubricants and fluids used in the production of composite materials also generate organic substances and gases that are dangerous when inhaled.

### **Eliminate the risks right at the source**

The most effective way of minimizing risks is to extract them immediately at source when the material is being processed and the substances causing the risks arise. In most companies, these systems are critical for the entire production process. Operational stops entail health risks but also affect product quality.

### **Improved uptime is pure profit**

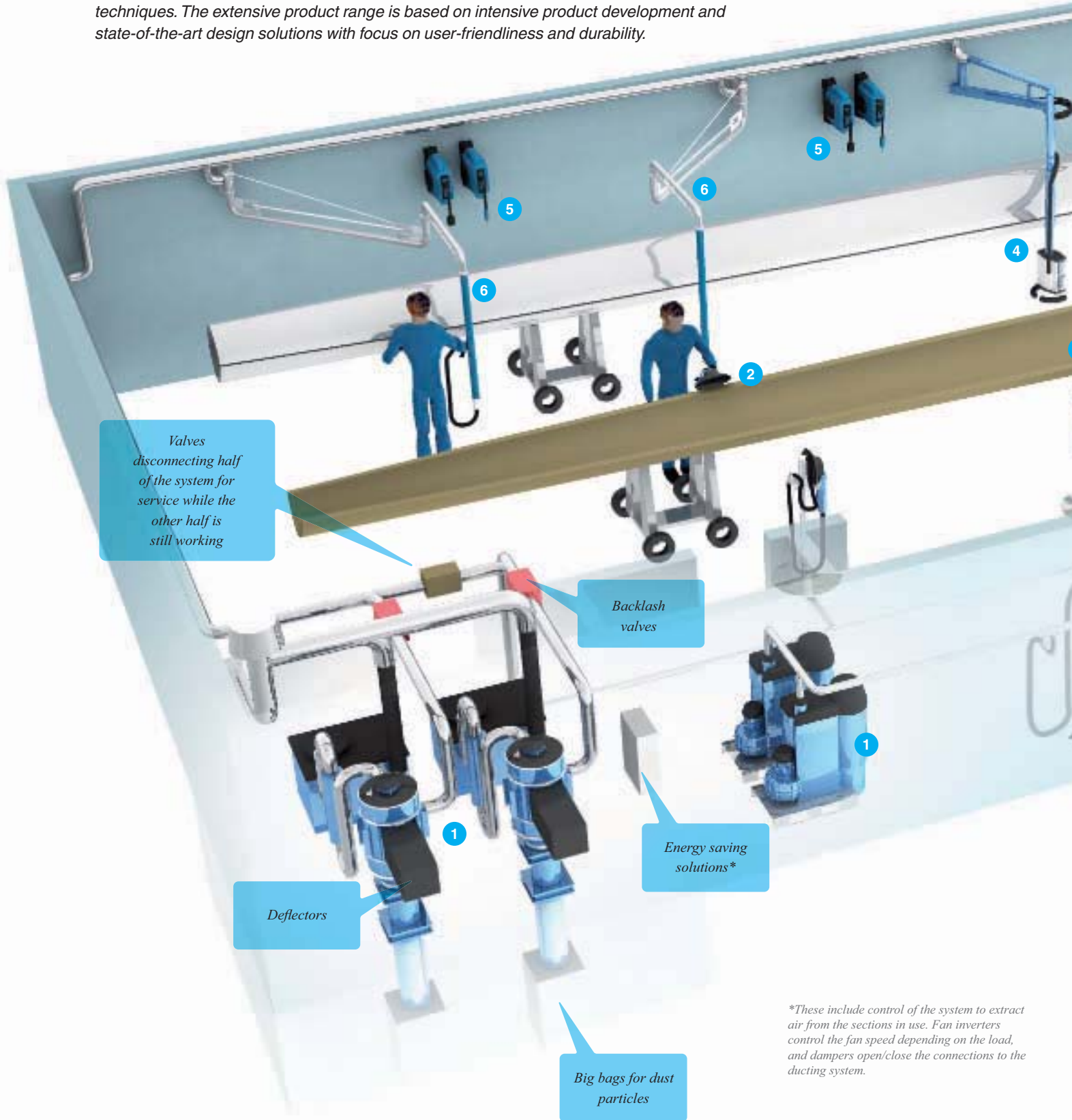
Production downtime can prove highly expensive. Components used in aircraft or wind turbines, for example, must have zero faults or the consequences will be disastrous.

### **A competent partner**

Nederman is a leading supplier of products and systems for “extraction at source” for the composite sector. We have experience of projects carried out all over the world. Customers choose Nederman because we have the know-how, competence and resources to offer solutions that safeguard production and the end-quality of products.

# Single workplaces or complete manufacturing lines

Nederman products and systems cover the full range of low and high vacuum extraction techniques. The extensive product range is based on intensive product development and state-of-the-art design solutions with focus on user-friendliness and durability.





**Central vacuum systems**

*A full range of high and low vacuum units including filter and duct systems.*



**On-tool extraction**

*More than six hundred extraction kits for grinding, sanding and cutting tools.*



**Mobile vacuum units**

*Also available in ATEX approved models.*



**Power Box and Swing Arm**

*Rationalize work and improve ergonomics with outlets for compressed air, vacuum and electricity accessible over large working areas.*



**Cable- and hose reels**

*For air, water, gas, oil etc. Simple to operate and safe to use.*



**FilterCart**

*Mobile extraction and filter units.*



**Arms for maximum accessibility**

*The SA-G swing arms offer a reach of up to eight metres. Equipped with an integral compressed air supply.*

# Safe and sound installations are built on know-how and competence



**Accurate dimensioning is at the heart of an optimized plant. Each machine and each point must have the necessary capacity for each operation. During planning it's essential to know what type of machine is being used and if it is possible to plan in sections to increase safety and flexibility.**

## **Handling of materials with explosive risks**

Nederman has a wide experience of providing solutions for handling potential explosive materials. This is obtained, for example, by dividing a system into safety zones, and by enclosing the equipment in areas remote from explosive environments. A system can also be secured with backlash valves, blast plates, etc. Containers and bags with extracted dust particles must be handled and stored safely, which may require secure areas and alarm equipment. All of these matters require knowledge and experience.

Our specialists and sales representatives know what is necessary for creating an efficient and profitable facility. They are backed by competent teams and central resources assisting in all phases of a project, from planning and design to installation and commissioning.

**Nederman helps you all the way with a focus on safety and cost-efficiency.**

## **Nederman offers complete solutions**



- *Proprietary products based on effective technology*
- *Comprehensive product range*
- *Extensive experience of creating optimum working environment*
- *Worldwide representation*

# Composite users all over the world trust in Nederman



## **BRAZIL**

Tecsis  
John Deere

## **CHINA / RPC**

Sinoma (Baoding, Beijing)

## **CZECH REPUBLIC**

Aar Plast Litovel  
HOBAS CZ UHERSKÉ  
HRADIŠT

## **DENMARK**

Vestas/Siemens Windpower  
LM glasfiber  
EM Fiberglass  
X-Yachts  
MX Både  
Dupont Plast  
Siplast  
GT Glasfiber  
Mabré  
Bachs Composites  
Camp Let

## **FINLAND**

Bella-Veneet Oy

## **FRANCE**

Beneteau  
Jeanneau

## **GERMANY**

Airbus  
Beiersdorf  
BKT-Bücker  
Eurocopter  
HAASE-Tank  
Kunststofftechnik  
LM Glasfiber  
Powerblades  
Salzgitter AG  
Toyota F1  
Vestas  
Voith

## **INDIA**

LM Glasfiber (Bangalore)  
LM Glasfiber  
Suzlon Energy Ltd  
SE Composites Ltd  
Vestas RRB, India

## **POLAND**

Delphi Yachts  
GALEON Gdansk  
Wawraszek Bielsko-Biala

## **PORTUGAL**

MBO, Matosinhos  
Alto, Leça do Balio  
Roca, SA  
Grestel

## **RUSSIA**

HIUS, Tver

## **SWEDEN**

AB Svenska Wavin/RonaPlast  
Hallberg-Rassy  
Najad Yachts  
Applied Composites  
Koenigsegg

## **SPAIN**

Eads Casa  
Aernnova  
Gamesa Eolica  
LM Glasfiber  
Remosa  
Roblepol  
Tecnove Fiberglass  
Tubocyl  
Aries Complex  
Aresa  
Irizar  
Turmarine  
Zodiac  
Multiforma  
Protesa  
Coasa  
SK 10  
Vestas  
Acciona Windpower

## **UK**

Green Marine  
BAE Filton  
BAE Broughton  
Williams F1 racing team  
Sealine boats  
Princess yachts  
McLaren Cars  
Jaguar cars  
Aston Martin  
Landrover  
Rolls Royce  
Bentley  
K Engineering  
Shorts Brothers  
Aircelle formley Hurel Hispano  
Swift Caravans  
Autotrail  
Advanced Composites  
United Aerospace  
Lamplas  
Klargester  
Keystone Anderson Greenwood

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3P  
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LM Glasfiber  
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Hunter Marine  
Gamesa

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