



Quality Tools for Smart Cleaning



PRODUCT ASSORTMENT 2016

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2016

INNOVATION, EFFICIENCY & UNGER PROFESSIONAL QUALITY

FOR REAL PROFESSIONALS

Since more than 50 years, **UNGER** has gained considerable international reputation as leading manufacturer of professional cleaning and maintenance tools. In the process, our principles have always been innovation, first-class quality and customer-oriented development. At the same time, we have continuously expanded and advanced our product range in various areas. All **UNGER** systems are designed on the basis of effective, ergonomic and thorough work performance. Professional cleaning contractors in more than 80 countries around the world trust in **UNGER** quality, and in the fact that they receive the proper tools for the variety of cleaning requirements. It is our goal to help you save time and money, while achieving even better results. In addition to high quality standards and innovative product development, we maintain a sophisticated customer service that is always at your disposal for quick delivery and quick solutions to your requirements.



THE PREMIUM IN CLASSIC WINDOW CLEANING

ErgoTec® NINJA is our premium range of sophisticated tools. Every product within **ErgoTec® NINJA** family is loaded with features to help you achieve outstanding results with minimum effort; high quality materials for each component have been carefully selected to ensure the best performance. 🔍

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🔍 p. 28



THE MOST EFFICIENT DI PURE WATER SYSTEM EVER!
nLite® HydroPower DI Filters exceed the highest requirements to efficiency, workflow organisation and comfort. They are part of the **nLite®** Cleaning System that offers practical solutions to professionals'.

🔍 p. 22

Info:



HiFlo[®]
nLite[®]

EVOLUTIONARY WATER FED POLE TECHNOLOGY

Our latest developments such as the pioneering **HiFlo nLite[®]** Water Fed Poles is the most advanced glass cleaning tools of all times. With high tech design and multitude of useful features, **nLite[®]** is engineered to minimize fatigue and make it a pleasure to use the system, even when working at heights of up to 20 m.



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S-plus

GREATER RESULTS – WITH LESS EFFORT!

For some time Squeegee users all around the world have been 'Dog Earring' their channels to improve performance and reduce detailing. Curved ends support the rubber at the edges for improved cleaning close to frame.



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STINGRAY →

NEW

STINGRAY – THE MOST EFFICIENT INDOOR CLEANING TOOL EVER

Introducing the revolutionary **UNGER Stingray**, the most efficient indoor cleaning tool ever. It cleans windows up to 25 % faster and uses up to 39 % less chemical than traditional methods.



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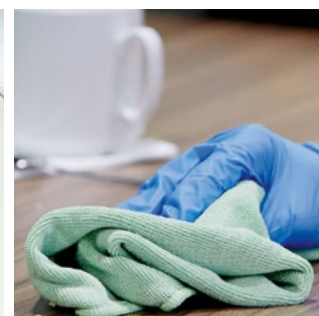
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QUALITY OF UNGER PRODUCTS

-  **PREMIUM**
Top of the range product, loaded with features
-  **BEST**
High on features bestseller
-  **BETTER**
Standard version
-  **GOOD**
Basic version. Good value option.



p. XXX **Quick Product Finder**



p. XXX **Further Information**

100 % Customer Satisfaction Guarantee

At **UNGER**, we aim to stand apart from the rest thanks to our special "Yes We Can!" service spirit. We love what we do and as proof of that, we promise to deliver a 100 % Customer Satisfaction Guarantee on every product and service we offer. This ensures that every **UNGER** product you purchase meets your high standards – or you can return it for a replacement or refund. We have been manufacturing cleaning products and systems since 1964. In that time we've learned a lot about what makes great tools. Plus, we listen to your feedback – all of it. You can count on everything we offer to be highly functional and provided with an exceptional service level at all times. Which means you can't go wrong with products from **UNGER**, this is our promise to you... or you get your money back.





Professional Window Cleaning

Delivering expert solutions and high quality service for over 50 years

UNGER is driven to continually develop new products that offer real value to cleaning professionals. All products are customer-oriented developed and approved by customers, before going to the market. The past more than 50 years have been filled with major milestones, many of which you will find in this catalogue.

MARKET LEADER UNGER has gained considerable international reputation as leading manufacturer of professional cleaning and maintenance tools. Cleaning contractors in more than 80 countries around the world trust in **UNGER** quality.

Every **UNGER** product is designed with end user safety, comfort and efficiency in mind.

UNGER BRAND STANDS FOR

- INNOVATION
- QUALITY
- SERVICE

WINDOW CLEANING

PURE WATER CLEANING SYSTEM



Applied with water fed pole system such as **HiFlo nLite®**, **PURE WATER** water is the most efficient efficient way of cleaning at heights of up to 20 m safely from the ground. What's more, it requires no chemicals or drying the glass – saving time and money!

TYPICAL APPLICATIONS: Residential or commercial window cleaning, large areas of glass, building facades, vehicles, signs and solar panels.

TRADITIONAL WINDOW CLEANING



Traditional handheld tools, designed to meet the demands of the professional window cleaning industry (see page 34).

TYPICAL APPLICATIONS: Suitable for cleaning most types of outdoor and indoor glass and windows.

INDOOR WINDOW CLEANING



Innovative and effective tools, designed to meet the demands of general cleaners for quick and efficient indoor window cleaning (see page 60).

TYPICAL APPLICATIONS: Suitable for cleaning indoor glass, windows, mirrors and many other types of surfaces. Perfect for hard to reach areas and safe cleaning of surfaces at heights of up to 10 m.

WINDOW CLEANING > PURE WATER SYSTEM

Cleaning with Pure Water

WHAT IS PURE WATER ?

It's water in its purest form, physically processed to remove the minerals that would otherwise lead to limescale spots and streaks.

Such impurities are referred to as **TDS** (total dissolved solids) and are measured in **ppm** (parts per million).

The water is considered 100 % demineralised (pure) when TDS is 0 ppm.

ADVANTAGES



SAFETY

- **UNGER** Pole Systems allow to clean at heights of up to 20 m safely from the ground
- No need to use dangerous ladders or hire expensive equipment

LABOUR EFFICIENCY

- One step cleaning – no need to dry windows
- Large areas can be cleaned faster than using traditional methods

ECONOMIC BENEFITS

- Improved safety helps to reduce insurance cost
- Greater efficiency means more work can be done in the same time
- No need to use expensive chemicals – good for environment, operator and client!

WHY USE PURE WATER FOR CLEANING?

Because it's pure it offers superior cleaning power and results without the need for chemicals, leaving glass and surfaces spot and streak free - saving time, effort and money.

Applied with a water fed pole system, such as **UNGER HiFlo nLite®**, pure water is a fast, safe and effective method of cleaning, especially at height.

TYPICAL APPLICATIONS



WINDOW AND FACADE CLEANING:

- Fast and effective method – great results!
- Easy access to hard to reach areas

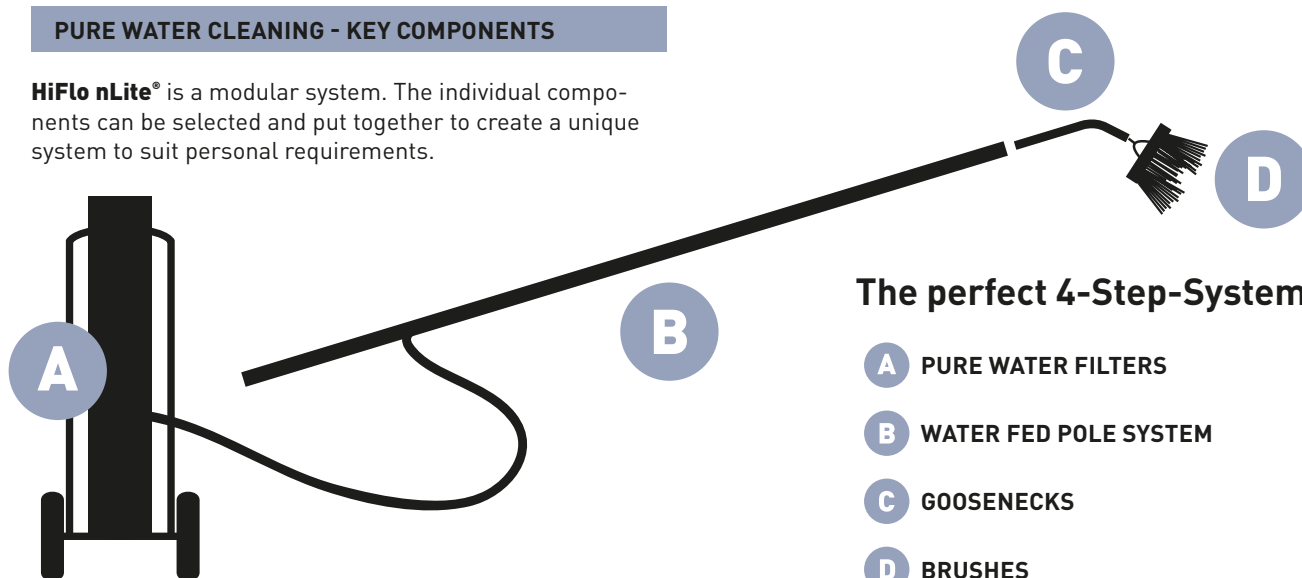


PV- AND SOLAR PANEL CLEANING:

- Regular cleaning prevents build up of dirt for greater energy output
- Solar yield can be increased significantly!
- Cleaning with 100 % pure water leaves no streaks or detergent residue

PURE WATER CLEANING - KEY COMPONENTS

HiFlo nLite® is a modular system. The individual components can be selected and put together to create a unique system to suit personal requirements.



The perfect 4-Step-System:

- A PURE WATER FILTERS**
- B WATER FED POLE SYSTEM**
- C GOOSENECKS**
- D BRUSHES**

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A



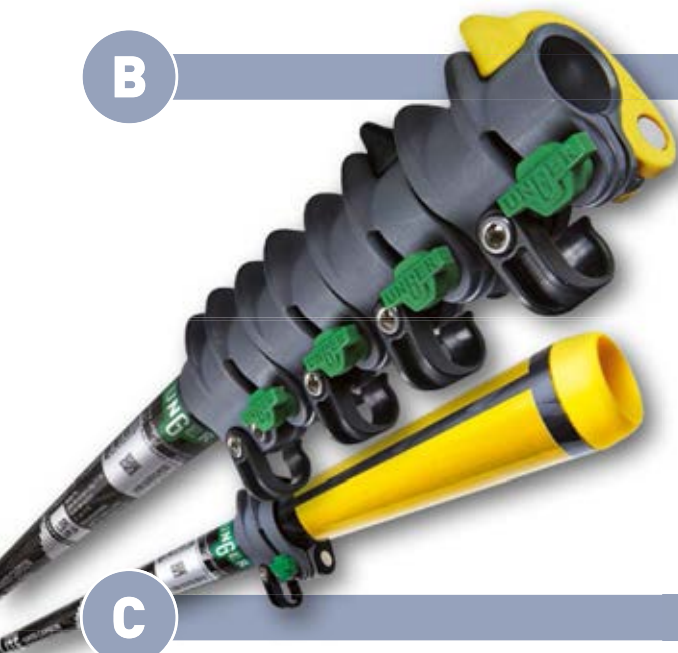
PURE WATER FILTERS

There are 2 recognised methods of pure water production in the window cleaning industry - Reverse Osmosis and Deionisation.

The **UNGER** range includes filters utilising either of these methods - turn to page 21 for more information.

 p. 21

B



WATER FED POLE SYSTEMS

Light, modular and easy to use. Our **HiFlo nLite®** System sets a new benchmark in professional cleaning technology.

Suitable for cleaning of glass and building facades, stainless steel, solar panels, signage and vehicles, the innovative system includes everything you need to clean at heights of up to 20 m (65 ft) high safely from the ground.

 p. 10

C



GOOSENECKS (ANGLE ADAPTERS)

Strong and light carbon fibre goosenecks allow the **nLite®** Brush to be screwed directly on to the gooseneck and then quickly fitted to the water fed pole to achieve any working angle.

 p. 16

D



BRUSHES

Superlight Brushes feature high quality polyester or natural bristles designed to get into the smallest corner and help with scrubbing actions. With up to 12 different Jet locations and choice of sizes, there is a perfect Brush to help you overcome any cleaning challenge.

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WINDOW CLEANING > WATER FED POLE SYSTEM

Evolutionary Pole Technology for Professionals

- Innovative engineering
- Ease of use
- Adaptability

Suitable for cleaning of glass and building facades, stainless steel, solar panels, signage and vehicles, the innovative system includes everything you need to clean at heights of up to 20 m (65 ft) high safely from the ground.

Depending on the type of material, the four section **HiFlo nLite®** Master Pole has an extended length of up to 6.63 m (22 ft)*, but greater heights can be easily reached and cleaned by adding two-section Extension Poles to the base of the Master Pole.

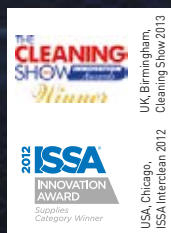
Each extension adds a further 3.41 m (11 ft) of extended length or 3 m (10 ft) on selected materials.

Add up to 4 Extension Poles to a Master Pole to reach the required height.

The number of Extension Poles that can be added depends on the pole material – see our Pole Selection Guide overleaf for details.

Crucially, the Extension Poles don't add anything to the width, grip and feel of the Pole which always measures 35 mm in diameter – an optimum size that fits easily into the hands of the professional for quick and comfortable cleaning.

Light, modular and easy to use, our **HiFlo nLite®** System sets a new benchmark in professional cleaning technology.



TOMORROW'S
CLEANING
AWARDS 2015
FINALIST



* Master Pole length vary depending on pole material

Perfection in every detail

CLAMPS

Easy and fast handed operation. Convenient **UNGER** Logo shaped screw for adjusting the tension of the clamp without tools. Yellow clamps identify the next modular component to prevent unintentional separation. Every clamp features removable Hose Clips for securing the Hose along the length of the Pole to avoid tangling and improve safety.



HOSE MANAGEMENT

The Hose management system focuses on user safety and convenience – fit the hose inside of the pole or secure it along the length of the pole, using removable hose clips. Whichever option you choose, the hose is kept under control to eliminate any potential safety risks.



ENDCAP



Made of durable plastic with rubber insert, the Endcap prevents accidental damage to the end of the pole. Features side aperture for hose.

Pole Materials

With 6 grades of material to choose from, the **HiFlo nLite®** range provides the perfect balance between weight and rigidity. See more details on next pages.

	UHiM	ULTRA HiMODULUS CARBON
	HiM	HiMODULUS CARBON
	CAR	CARBON
	HYB	HYBRID
	GLA	GLASS FIBRE
	ALU	ALU

i HiFlo nLite® ONLINE CONFIGURATOR

Build your personal
HiFlo nLite® System at
www.ungerglobal.com



Rigidity of Pole Materials

The highest professional cleaning standards are even easier to achieve with an **HiFlo nLite®** Pole System thanks to its perfect balance between weight and rigidity. Pole sets on

the opposite page are recommended for comfortable and efficient work at specific maximum heights – based on the ultimate pole material strength, rigidity and weight.

THE MOST RIGID WATER FED POLE ON EARTH!

Having set an industry gold standard with our **HiFlo nLite®** professional water fed pole range, we've challenged ourselves to build the stiffest, most rigid water fed pole in the world! In 2014 we launched our **Ultra HiMod Carbon Fibre Pole** –

the stiffest, most rigid water fed pole in the world, made using a complex combination of carefully selected ultra rigid premium carbon fibres to achieve an unrivalled **LDR of 74.4**. Ultimate strength of material: **760 GPa, 110 MSI**.

LDR EXPLAINED

The **Length Deflection Ratio (LDR)** has been developed by the **UNGER** Research and Development Team to provide a quantifiable way of measuring the perfect balance between length and rigidity of water fed poles.

The LDR formula accurately measures the deflection (or the rigidity) of the pole when fully extended, with a 2 kg weight attached to the centre of the pole. This simulates the average force applied to the pole in operation.

Complete specifications, including **LDR value** for measuring pole rigidity, are printed on every **HiFlo nLite®** Pole.

The resulting number reflects the rigidity of the pole: **the higher the LDR number – the greater the rigidity** (or stiffness) of the pole.

$$\text{LDR} = \frac{\text{overall length}^3}{\text{deflection} \times 7^2}$$

GREATER LDR VALUE = GREATER RIGIDITY!

GRADING SYSTEM – ULTIMATE STRENGTH OF MATERIAL

ULTRA HIMODULUS CARBON FIBRE:	760 GPa	HYBRID (Glass Fibre/Carbon Composite):	96 GPa
HIMODULUS CARBON FIBRE:	360 GPa	GLASS FIBRE:	70 GPa
CARBON FIBRE:	210 GPa	ALUMINIUM:	30 GPa

GPa (gigapascal) is a measurement unit of material stiffness.

CARBON FIBRE POLE STRUCTURE

LENGTHWISE FIBRES: Provide the strength and rigidity needed in the lengthwise direction.

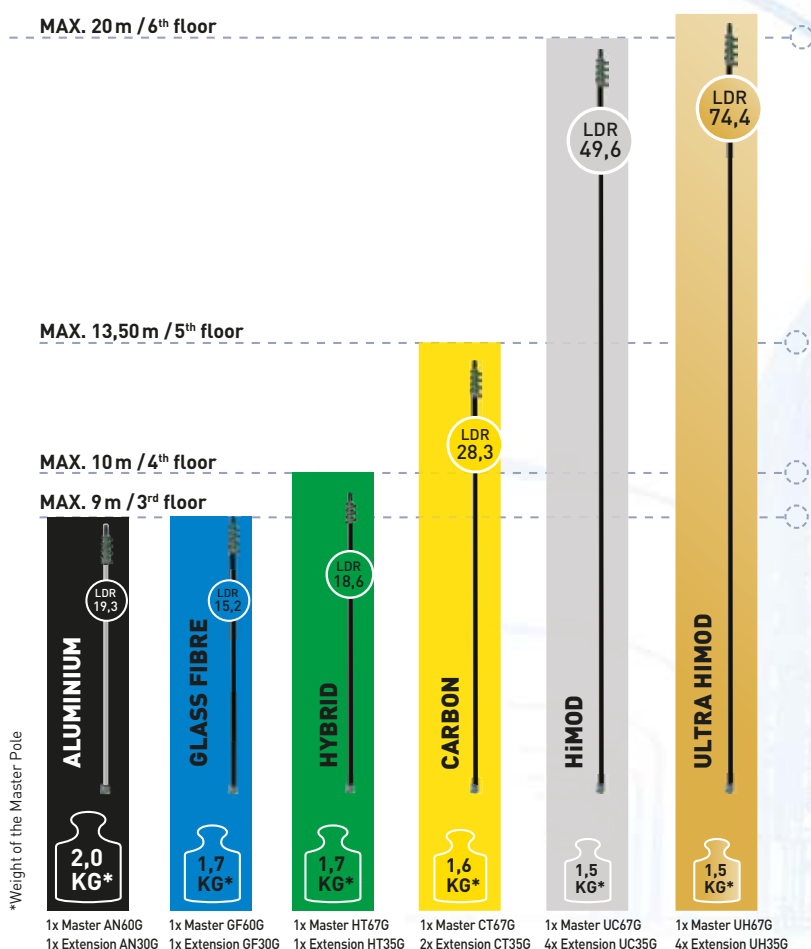
CROSSWISE FIBRES: Secure the tube structure to protect the lengthwise layers of carbon from splitting, thus facilitating a low rate of deflection even when the pole is fully extended.

SURFACE: The woven structure with a special resin reinforces the pole surface, making it incredibly hard, scratch and wear resistant.

Pole Selection Guide

Greater heights require poles with greater rigidity and lower weight for optimal performance. When selecting the pole, also consider duration of the job – the longer you work, using a lighter pole can help reduce fatigue. All heights shown in the guide below are **maximum recommended working heights** for specific pole material.

Recommended pole sets below provide the perfect balance between weight and rigidity for working at specific heights.



INFO

- Remember that you can always reduce pole length to work at a lower height by removing the Extension Poles or collapsing the sections!
- Please consider local safety regulations on maximum working height permitted, as well as any restrictions on working at height due to adverse weather conditions.
- Your Approved **UNGER** Dealer can provide further advice on pole selection, with optimal rigidity, to meet your personal requirements and needs.

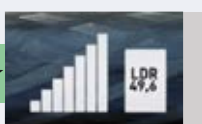
WINDOW CLEANING > WATER FED POLE SYSTEM > TELE MOD & TELESCOPIC POLES

B

HiFlo nLite® WATER FED TELE MOD POLE SYSTEM



ULTRA HIMOD



HIMOD CARBON



CARBON



HYBRID



GLASS FIBRE



ALU



B

HiFlo Advance WATER FED TELESCOPIC POLES

A perfect choice for professional window cleaning, these quality poles are great value and reliable. Choose from carbon or glass fibre, extending to various lengths – from 2.80 m to 16 m.

FEATURES:

- Pole sections made of strong and sturdy material
- Robust and easy to operate clamp connections – quick adjustment of height

- Internal hose, including standard connector for water filter. 4 metres extra length when pole is fully extended.
- Ideal for high and narrow buildings
- Fully compatible with **HiFlo MultiLink** Goosenecks, Extensions and Brushes



HiFlo nLite® ULTRA HIMOD CARBON MASTER POLE

Telescopic Master Pole. The ultimate in rigidity, superlight pole.
Recommended for working at heights of up to 20 m /65 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 235 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
UH67G	6,63 m	1,87 m	4	1,5 kg	1

HiFlo nLite® ULTRA HIMOD CARBON EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
UH35G	3,41 m	1,91 m	2	0,7 kg	1

HiFlo nLite® HIMOD CARBON MASTER POLE

Telescopic Master Pole. The best in rigidity, superlight pole.
Recommended for working at heights of up to 20 m /65 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 180 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
UC67G	6,63 m	1,87 m	4	1,5 kg	1

HiFlo nLite® HIMOD CARBON EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
UC35G	3,41 m	1,91 m	2	0,7 kg	1

HiFlo nLite® CARBON MASTER POLE

Telescopic Master Pole. Superior rigidity, lightweight pole.
Recommended for working at heights of up to 13,50 m /43 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 100 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
CT67G	6,63 m	1,87 m	4	1,6 kg	1

HiFlo nLite® CARBON EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
CT35G	3,41 m	1,91 m	2	0,8 kg	1

HiFlo nLite® HYBRID MASTER POLE

Telescopic Master Pole. Excellent rigidity and value.
Recommended for working at heights of up to 10 m /35 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 65 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
HT67G	6,63 m	1,87 m	4	1,7 kg	1

HiFlo nLite® HYBRID EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
HT35G	3,41 m	1,91 m	2	0,9 kg	1

HiFlo nLite® GLASS FIBRE MASTER POLE

Telescopic Master Pole. Superior rigidity, lightweight pole.
Recommended for working at heights of up to 9 m /30 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 47 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
GF60G	6,00 m	1,71 m	4	1,7 kg	1
GF45G	4,50 m	1,34 m	4	1,4 kg	1

HiFlo nLite® GLASS FIBRE EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
GF30G	3,00 m	1,69 m	2	0,9 kg	1

HiFlo nLite® ALUMINIUM MASTER POLE

Telescopic Master Pole. Excellent rigidity thanks to modern construction technology.
Recommended for working at heights of up to 9 m /30 ft.
Incl. Thread Adapter and Endcap. Strength of fibre composition: 30 GPa*

Part No.	Extended	Collapsed	Sections	Weight	Pack
AN60G	6,00 m	1,71 m	4	2,0 kg	1
AN45G	4,50 m	1,34 m	4	1,6 kg	1

HiFlo nLite® ALUMINIUM EXTENSION POLE

The corresponding Telescopic Extension Pole.
Yellow visual warning area to avoid unintentional separation.

Part No.	Extended	Collapsed	Sections	Weight	Pack
AN30G	3,00 m	1,69 m	2	1,1 kg	1

*GPa (Gigapascal) is a unit is a unit of measure of material strength.

While stocks last

HiFlo Advance TELESCOPIC POLES

Durable glassfibre and long carbon fibre Poles

- Quick adjustment of height with clamps
- 4 m extra hose length when pole is fully extended
- Ready to use with HiFlo MultiLink Gooseneck System and Brushes
- Complete with internal hose and hoseslock connector

Part No.	Sections	Weight	Length	Material	Pack
FT28G	2	1,1 kg	2,80 m	Glass Fibre	1
FT40G	3	1,5 kg	4,00 m	Glass Fibre	1
FT52G	4	2,0 kg	5,20 m	Glass Fibre	1
FT70G	5	3,0 kg	7,00 m	Glass Fibre	1
FT84G	6	3,6 kg	8,40 m	Glass Fibre	1
FT5XC	9	5,7 kg	13,50 m	Carbon Fibre	1
FT6XC	9	6,6 kg	16,00 m	Carbon Fibre	1



HT67G – Hybrid



NL27A



NL11G



NLBJP

NLBJF

FTGOS

HiFlo nLite® HYBRID STARTER KIT

Contents: Pole, Rectangular Brush 27cm, Hose, Angle Adapter, 2 Pencil and 2 Fan Jets

Part No.	Extended	Collapsed	Sections	Weight	Pack
HTK14	6,63 m	1,87 m	4	1,7 kg	1

WINDOW CLEANING > WATER FED POLE SYSTEM > GOOSENECKS



C

HiFlo nLite® GOOSENECKS

Our carbon fibre gooseneck attachments will allow you to reach virtually any surface for cleaning, whilst keeping weight to a bare minimum for easier brush control. The new full-carbon fibre **nLite®** Goosenecks are made from

seamless, lightweight, super solid carbon fibre tube. The premium quality carbon fibre material is built to last, and ensures a long life and guaranteed results. Compatible with most water fed brushes featuring standard thread.

NEW

More than 25 % lighter
and 5x stronger than our
previous version!



HiFlo nLite® MULTILINK GOOSENECKS

Superlight carbon fibre goosenecks.

- Use individually or combine 2 or more to achieve any angle
- NLG20 and NLG30 include nLite® Thread Adapter for attaching the brush
- NLG15 includes adjustable plastic angle adapter

Part No.	Size	Weight	Material	Pack
NLG20	20 cm	130 g	Carbon	1
NLG30	30 cm	140 g	Carbon	1
NLG15	150 cm	390 g	Hybrid	1



C

HiFlo® GOOSENECKS

For attaching the brushes to **UNGER HiFlo** and **nLite®** Water Fed Poles. Achieve nearly every working angle or distance with various combinations of Goosenecks.

- The adjustable collar can be locked at any point through 360° creating numerous angles for hard to reach areas
- Made of robust hard anodised aluminium



HiFlo MultiLink GOOSENECKS & EXTENSION

Hard anodised aluminium angle adapter.

- Strong, with secure connection
- Brush can be locked in any position through 360° creating the perfect working angle
- Combine 2 or more to achieve your perfect angle or distance

Part No.	Size	Pack
FTMGS	Short	1
FTMGL	Long	1
FTPLS	Straight	1



HiFlo MultiLink CONE ADAPTER

Hard anodised aluminium adapter for traditional cleaning tools.

- Strong, with secure connection
- Compatible with ErgoTec® Locking Cone NCAN0 – all traditional tools can be connected to HiFlo Poles
- Fits on all MultiLink Goosenecks

Part No.	Pack
FTLCA	1



HiFlo MultiLink ADAPTER

Plastic angle adapter with screw adjustment.

- Simple to adjust
- Robust
- Compatible with all HiFlo Brushes

Part No.	Pack
FTGOS	1



HiFlo MultiLink Y-ADAPTER

Anodized aluminium adapter for using 2 tools on a Pole.

- Strong, with secure connection
- Saves time – just turn the Pole to change the tool
- Can be combined with MultiLink Goosenecks to achieve your perfect angle

Part No.	Pack
FTYAD	1

WINDOW CLEANING > WATER FED POLE SYSTEM > BRUSHES






























Quality Tools for Smart Cleaning



D

HiFlo nLite® & HiFlo BRUSHES

				WEIGHT		SIZE	BRUSH BODY			BRISTLES			JETS			
				only brush	incl. adapter/jets		Material	Format	Jet Pos.	Material	Soft/Hard	Length	Flexible	Material	Spray & Pencil	
	HiFlo nLite® BOAR BRISTLE BRUSH	NLE27 NLE40		359 g* 466 g*	403 g* 510 g*	27 cm 40 cm	plastic porous core smooth solid skin		4 8	natural boars hair	soft	8 cm*	✓	plastic	Spray & Pencil	p. 19
	HiFlo nLite® RADIUS BRUSH	NLR27 NLR40		364 g 535 g	408 g 579 g	27 cm 40 cm	plastic porous core smooth solid skin		4 8	solvent resistant synthetic bristles	medium	7,5 cm 8,5 cm	✓	plastic	Spray & Pencil	p. 19
	HiFlo nLite® SOLAR RADIUS BRUSH	NL27Y NL40Y NL60Y		364 g 535 g 872 g	408 g 579 g 916 g	27 cm 40 cm 60 cm	plastic porous core smooth solid skin		4 8 12	solvent resistant synthetic bristles	medium	7,5 cm 8,5 cm 9,5 cm	✓	plastic	Spray & Pencil	p. 19
	HiFlo nLite® RECTANGULAR BRUSH	NL27A NL40A NL60A		270 g 408 g 806 g	314 g 452 g 850 g	27 cm 40 cm 60 cm	plastic porous core smooth solid skin		4 8 10	solvent resistant synthetic bristles	medium	7,5 cm 8,5 cm 9,5 cm	✓	plastic	Spray & Pencil	p. 19
	HiFlo SOLAR BRUSH	FTSOY		–	490 g	27 cm	solid plastic		2	synthetic bristles	soft	5 cm	–	brass	Pencil	p. 20
	HiFlo RECTANGULAR BRUSH	FTS27		–	490 g	27 cm	solid plastic		2	synthetic bristles	soft	5 cm	–	brass	Pencil	p. 20
	HiFlo RADIUS BRUSH	FTR27 FBR27		–	560 g	27 cm	solid plastic		2	synthetic bristles	soft hard	5 cm	–	brass	Pencil	p. 20
	HiFlo OVAL BRUSH	FTO27 FTO40		–	450 g 690 g	27 cm 40 cm	solid plastic		2	synthetic bristles	soft	5 cm	–	brass	Pencil	p. 20
	HiFlo CARBON TEC BRUSH	CT27A CT40A		–	347 g 380 g	27 cm 40 cm	solid plastic		2	synthetic bristles	hard	5 cm	–	brass	Pencil	p. 20

* app. 10 % tolerance deviation possible with natural bristles



PURCHASING GUIDE You have to take 5 decisions:

- 1. WEIGHT:** Choose lighter brush for longer periods of work.
 - 2. SIZE:** 27 cm for standard applications; 40 cm for large areas; 60 cm for special applications, e.g. solar panel cleaning.
 - 3. BRISTLES:** Consider the type of surface and level of soiling - see brush bristle guide overleaf for details.
 - 4. SHAPE:** Rectangular - universal shape, ideal for any straight surface. Radius brush is perfect for window sills and frames.
 - 5. JETS:** Consider the size of the area and type of glass to be cleaned, as well as water pressure available - see overleaf for information on jets types and using more than 2 jets.
- ATTENTION:** Some surfaces are easily scratched. Always test brushes prior to use.

WINDOW CLEANING > WATER FED POLE SYSTEM > BRUSHES

D

HiFlo nLite® BRUSHES

HiFlo nLite® BRUSHES

Superlight **UNGER** Brushes are designed to get into the smallest corners and lift dirt from surfaces with a highly effective scrubbing action. The **HiFlo nLite®** Brush stock features cutting edge engineering and design, with a porous core and smooth solid exterior skin it offers enhanced structural stability and lighter weight than solid brush block manufacturing.



JETS

Whereas conventional brushes usually only have two jets, **HiFlo nLite®** Brushes feature up to twelve quick release jets, making it much easier to control the water flow and rinse surfaces.

JET TYPES

Pencil Jets for Hydrophilic Glass (water repelling)
Fan Jets for Hydrophobic Glass (water attracting)



Pencil Jet (NLBJP)

Fan Jet (NLBJF)



HiFlo nLite® JETS

For quick connection on nLite Brushes.

- NLBJF: Fan Jets, great for spraying water to get a constant film
- NLBJP: Pencil Jets, great for rinsing and removing dirt with pressure
- Attention: The more jets are used the more the water pressure decreases

Part No.	Info	Pack
NLBJF	1 Set = 2 Jets	1 Set
NLBJP	1 Set = 2 Jets	1 Set

BRISTLE TYPES:



NATURAL BOAR BRISTLE: Coarse to the touch, naturally split along the length, each fibre cleans the surface with its entire body, effectively removing dirt from the tiniest of crevices.



POLYESTER BRISTLES: Lightweight and highly durable, with a choice of flagged or unflagged single strands.



YELLOW POLYESTER, featured on solar brushes, will remove even stubborn dirt yet are gentle enough not to damage delicate surface of the PV-/Solar panels.

ADDING MORE JETS

Create variety of spray patterns with up to 12 locations for interchangeable, quick release Fan or Pencil Jets.

Mix and match the Jets, depending on the type and size of surface you clean, for example 2 Fan Jets and 2 Pencil Jets.

One set of Pencil Jets is included as standard with every Brush.

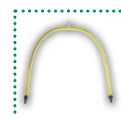
PRESSURE GUIDE

Adding more jets allows you to clean larger areas quicker and better.

The number of jets you can use depends on the level of water pressure – the higher the water pressure, the higher the number of jets you can use at one time.

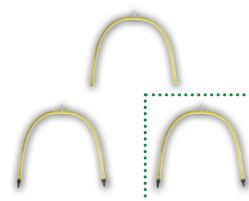
2 JETS =

Included with brush
1 x NLBJP 1 Set Pencil Jets
1 x NLHPC Hose Kit



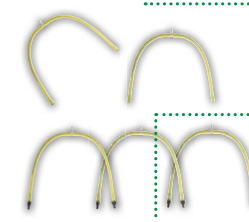
4 JETS =

Extra parts required:
1 Set of jets
2 x NLHPC Hose Kit



6 JETS =

Extra parts required:
2 Sets of jets
4 x NLHPC Hose Kit



HiFlo nLite® BRUSH CONNECTION KIT

Connects two jets to the brush.

- 2 hose pieces (each app. 29 cm) + 1 T-piece
- T-piece [Part No. 14954]

Part No.	Pack
NLHPC	1
14954	1


NLE27
NLE40


HiFlo nLite® BOAR BRISTLE BRUSH



Super light water fed brush with best cleaning power.

- Best cleaning power as bristles clean with full bristle length
- High quality boars bristles
- For glass or flat surfaces

Part No.	Size	Weight	Jet Pos.	Pack
NLE27	27 cm	403 g	4	1
NLE40	40 cm	510 g	8	1



BOARS BRISTLE

The best boars bristle had been sourced by **UNGER** specialists to produce the new **HiFlo nLite®** Boar Bristle Brushes. Coarse to the touch, naturally split along the length, each fibre cleans the surface with its entire body, effectively removing dirt from the tiniest of crevices. Individually set by hand into the body of the Brush with epoxy resin, each bundle of bristles delivers unrivalled cleaning performance, without chemicals. The colour of natural bristles might be subject to change.


NLR27
NLR40

NL27Y
NL40Y
NL60Y


HiFlo nLite® RADIUS BRUSH/SOLAR RADIUS BRUSH



Supertlight water fed brush with unflagged polyester bristles.

- Curved brush body, ideal for cleaning window sills and frames
- Variable positions for interchangeable quick release jets
- Plastic porous core brush body for lighter weight
- Yellow bristle brushes are ideal for cleaning delicate surface of solar panels

Part No.	Size	Weight	Jet Pos.	Pack
NLR27	27 cm	408 g	4	1
NLR40	40 cm	579 g	8	1
NL27Y	27 cm	408 g	4	1
NL40Y	40 cm	579 g	8	1
NL60Y	60 cm	916 g	12	1

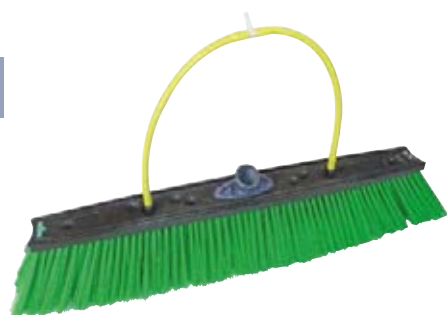
HiFlo nLite® RECTANGULAR BRUSH



Supertlight water fed brush with unflagged polyester bristles.

- Straight body brush, ideal for any surface
- Variable positions for interchangeable quick release jets
- Plastic porous core brush body for lighter weight

Part No.	Size	Weight	Jet Pos.	Pack
NL27A	27 cm	314 g	4	1
NL40A	40 cm	452 g	8	1
NL60A	60 cm	850 g	10	1


NL27A
NL40A
NL60A


HiFlo nLite® BRUSH SOCKET

Replacement socket for connection of the brush to gooseneck.

- Can be turned to change angle of the brush and arrangement of jets

Part No.	Pack
NLBRS	1

Brush Rotation

The brush stock can be switched to a new position by rotating the brush socket through 180°. Switching the position of the brush socket can change the position and angle of the bristles and jets providing greater flexibility and control when cleaning and rinsing different surfaces, angles and structures.



WINDOW CLEANING > WATER FED POLE SYSTEM > BRUSHES

D

HiFlo BRUSHES



HiFlo SOLAR BRUSH SOFT

★★

Soft, with flagged bristles.

- Specially designed for photovoltaic panels
- Highly effective in removing dirt
- Will not damage the panel surface
- Complete with hose connection

Part No.	Size	Bristles	Pack
FTSOY	27 cm	Soft	1



HiFlo RECTANGULAR BRUSH

★★

Soft, with flagged polyester bristles.

- Square edges ideal for corners
- Very strong
- Complete with hose connection

Part No.	Size	Bristles	Pack
FTS27	27 cm	Soft	1



**HiFlo CarbonTec
BRUSHES**

★★

Nylon grey monofilament bristles.

- Back made of robust solid plastic
- Complete with 1 x FTCBA and hose connection
- Available in two sizes

Part No.	Size	Bristles	Pack
CT27A	27 cm	Hard	1
CT40A	40 cm	Hard	1



HiFlo RADIUS BRUSH

★★

Soft, with flagged or hard, with unflagged polyester bristles.

- Curved body
- Ideal for sills, corners and frames
- Complete with hose connection

Part No.	Size	Bristles	Pack
FTR27	27 cm	Soft	1
FBR27	27 cm	Hard	1



HiFlo OVAL BRUSH

★★

Soft, with flagged polyester bristles.

- Very strong
- Complete with hose connection
- Available in two sizes

Part No.	Size	Bristles	Pack
FTO27	27 cm	Soft	1
FTO40	40 cm	Soft	1

A**PURE WATER FILTERS**

Choosing Your Filter System

There are 2 recognised methods of pure water production in the window cleaning industry – **Reverse Osmosis** and **Deionisation**.

The **UNGER** range includes filters utilising either of these methods. This page will help you to decide which method suits your cleaning requirements best and will deliver the highest return on your investment.

UNGER DEIONISATION (DI) HYDRO POWER



These filters utilise ion exchange resin which removes ionised salts and impurities from water, producing 100 % deionised pure water, with no waste water.

Though DI filters require a relatively low initial investment when compared to RO, frequent replacement of old resin with new is necessary for 100 % pure water production.

Mobile design and portability, with no need for power or pumps, our DI filters can be easily set up anywhere – all you need is a tap water supply.



p. 22

RECOMMENDED FOR:

- Areas with soft or medium water hardness level
- Small size filters are ideal for cleaning small to moderate size areas, as well as an entry level solution for professional cleaning
- Medium to large sizes – for frequent cleaning of large areas
- Use as final stage of water purification process, after RO membrane, to achieve 100 % pure water

UNGER REVERSE OSMOSIS (RO)



p. 30

These filters utilise a mechanical filtration process, through a semipermeable reverse osmosis membrane, which removes up to 98 % of minerals from the water. **UNGER R030** has a built-in resin filter that completes the purification process to produce 100 % pure water.

Despite its comparatively high purchase cost, RO filters require minimal maintenance and offer a cost effective way of producing a constantly high volume of pure water. Incoming water is separated into pure and waste water during the filtration process, requiring a separate drainage facility to flush away the impurities as waste water.

RECOMMENDED FOR:

- Areas with hard or very hard water level
- Constant, high volume pure water production

nLITE[®] HYDRO POWER

UNGER

THE
CLEANING
SHOW
INNOVATION
AWARDS
WINNER



DI
FILTER

WINDOW CLEANING > PURE WATER FILTERS > nLite® HYDRO POWER DI FILTER



Quality Tools for Smart Cleaning

A

THE nLite® HYDRO POWER DI SYSTEM

The Most Efficient DI Pure Water System Ever!

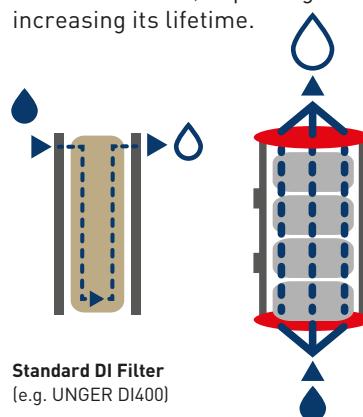
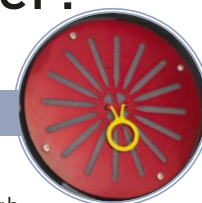
Inspired by our customers and packed with the latest patented design innovations, **nLite® HydroPower DI** Filters offer a wealth of benefits for professional window cleaners (and everyone who works or cleans with pure water).

nLite® HydroPower DI Filters exceed standard DI filter efficiency, performance, workflow and comfort thanks to these new features:

- **FloWater Technology**
- **QuickChange Resin Bags**
- **FastLock Opening**

FLOWATER TECHNOLOGY

The innovative water distribution system ensures more efficient water flow through the entire vessel, improving resin efficiency and increasing its lifetime.



Standard DI Filter
(e.g. UNGER DI400)

NEW
nLite® HydroPower Filter
HIGHER EFFICIENCY

SIMPLE AND EFFECTIVE HANDLING



FastLock Opening

- Easy and quick opening and locking of the filter
- Safe, self locking mechanism
- Features pressure release valve



Removable cover

- Including resin stop mechanism to prevent loose resin from leaking with outgoing water flow



TDS (Total Dissolved Solids)

- For instant measuring of the outgoing water hardness



Standard hose fittings

- Reliable quick release connectors, suitable for most hosedock type fittings commonly used on most water fed poles

QUICKCHANGE RESIN BAGS



The ingenious **QuickChange Resin Bags** allow users to speed up the resin change process by up to 10 times - simply remove the bag with expired resin and insert a new one.

The new **QuickChange Resin Bags** offer fast and easy resin replacement on the spot with minimal mess - anytime and anywhere!

- Resin change process is now as simple as changing coffee pods in a coffee machine
- No need for time-consuming emptying, rinsing and filling up of narrow filter vessels
- Each bag is made from a water-permeable material and contains a pre-proportioned amount of **UNGER** High Capacity Premium Grade Virgin Mixed Bed Resin

The nLite® HydroPower DI System



FastLock Opening
Easy & quick opening of the bottle, with pressure release valve

PP NXT Material
Enhanced material by 50 % glass fibre. Stronger, lighter and safer

QuickChange Resin Bags
Quick and easy to change on the job. No more wasted resin

FloWater Technology
Effectively distributes water flow through the resin, increasing pure water output

WINDOW CLEANING > PURE WATER FILTERS > nLite® HYDRO POWER DI FILTER



Quality Tools for Smart Cleaning

CUSTOMISED IN EVERY SIZE

Choose from 3 filter sizes depending on the volume of pure water required and frequency of use to maximise your return on investment.

All filters are supplied complete with **QuickChange Resin Bags** and integrated **TDS metre** to monitor the incoming and outgoing water hardness.



DI12x
Contains 1 **QuickChange ResinBag** (6 l)



DI24x
Contains 2 **QuickChange ResinBags** (12 l)

DI48x
Contains
4 **QuickChange ResinBags** (24 l)



nLite® HydroPower DI FILTER

Part No.	Base	Height	Resin Bags	Wheels	Cart	
DI48T	30×31 cm	116 cm	4 (24 l)	-	-	
DI48C				-	✓	
DI24T	30×31 cm	59 cm	2 (12 l)	-	-	
DI24W				✓	-	
DI24C				-	✓	
DI12T	30×31 cm	35 cm	1 (6 l)	-	-	
DI12W				✓	-	

FILTER PERFORMANCE

WATER HARDNESS

Filter productivity depends on several factors, such as filter size, water pressure, temperature and most importantly the level of water hardness.

Water hardness is measured in ppm (parts per million) and varies by geographical area.

The table below provides guidance on the expected **nLite® HydroPower DI** Filter performance, before the resin is spent and has to be replaced.



Small (nLite® HydroPower DI12...)

Water Hardness*	Output in l
Soft	> 1.570
Medium	470 – 1.570
Hard	260 – 470
Very Hard	< 260



Medium (nLite® HydroPower DI24...)

Water Hardness*	Output in l
Soft	> 3.140
Medium	1.130 – 3.140
Hard	670 – 1.130
Very Hard	< 670



Large (nLite® HydroPower DI48...)

Water Hardness*	Output in l
Soft	> 6.360
Medium	2.450 – 6.360
Hard	1.490 – 2.450
Very Hard	< 1.490

*Water Hardness:

Soft	< 100 ppm
Medium	100 – 250 ppm
Hard	250 – 400 ppm
Very Hard	> 400 ppm

All values based on 10 ppm as maximum for Pure Water quality.

ECO FLO - OPTIMIZES THE WATER FLOW

Depending on the pressure of the incoming water supply, using the **HydroPower EcoFlo** insert allows you to restrict the water flow to an optimum level of between 120 – 150 L per hour, which is ideal for regular glass cleaning.

Optimising the water flow in this way allows you to use less pure water, extending the lifetime and performance of a single resin refill in the **nLite® HydroPower DI** Filters by at least 20 %, without compromising the quality of your work.

- Automatically reduces the water flow – see table:
- Fits any industry standard valves
- Can be fitted, removed or replaced inside the water flow valve in seconds – simple
- Supplied as standard with all **nLite® HydroPower DI** Filters, regardless of size
- Replacement can be ordered at: www.ungerglobal.com/ecoflo

PRESSURE GUIDE

Bar	Pure Water Output at the brush with EcoFlo and with nLite® Pole Hose, 25 m
6	180 L/hour
5	150 L/hour
4	120 L/hour
3	Do not use EcoFlo!

WINDOW CLEANING > PURE WATER FILTERS > nLite® HYDRO POWER DI KITS



STARTER KIT

nLite® HydroPower DI STARTER KIT

Content:	
DI12T	nLite® HydroPower DI 6l (incl. TDS Meter + Resin)
AN60G	nLite® Alu Master Pole 6 m
FTG0S	HiFlo MultiLink Angle Adapter
NLR27*	nLite® Radius Brush 27 cm
NL20G	nLite® Hose 20 m

Part No.	Pack
DIK12	1

*Colour might be subject to change



ADVANCED KIT

nLite® HydroPower DI ADVANCED KIT

Content:	
DI24W	nLite® HydroPower DI 12l (incl. TDS Meter + Resin + Wheels)
GF60G	nLite® Glass Fibre Master Pole 6 m
FTG0S	HiFlo MultiLink Angle Adapter
NLR27*	nLite® Radius Brush 27 cm
NL20G	nLite® Hose 20 m

Part No.	Pack
DIK24	1

*Colour might be subject to change



PROFESSIONAL KIT

nLite® HydroPower DI PROFESSIONAL KIT

Content:	
DI48C	nLite® HydroPower DI 24l (incl. TDS Meter + Resin + Cart)
CT67G	nLite® Carbon Fibre Master Pole 6.63 m
CT35G	nLite® Carbon Fibre Extension Pole 3.41 m
NLG20	nLite® MultiLink Angle Adapter 20 cm
NLR27*	nLite® Radius Brush 27 cm
NL25G	nLite® Hose 25 m

Part No.	Pack
DIK48	1

*Colour might be subject to change



QuickChange Resin Bags for nLite® HydroPower Filters

The ingenious **QuickChange** Resin Bags allow users to speed up the resin change process by up to 10 times - simply remove the bag with expired resin and insert a new one.

The new **QuickChange** Resin Bags offer fast and easy resin replacement on the spot with minimal mess - anytime and anywhere!

QuickChange RESIN BAGS 6 L

Bag is made from a water-permeable material.

- For nLite® HydroPower DI Filters
- Contains a pre-portioned amount of UNGER High Capacity Premium Grade Virgin Mixed Bed resin
- Simply remove the bag with expired resin and insert a new one

Part No.	Info	Pack	
DIB61	1 bag (6 l) in air tight bucket	1	
DIB64	4 bags (24 l) in air tight bucket	1	



Premium Grade Virgin Mixed Bed Resin

**High capacity virgin mixed bed ion exchange resin
for total de-ionisation and purification of water.**

**Immediately produces 100 % pure water
for streak free glass cleaning.**

Suitable for use in:

- Refillable DI cartridges
- DI pressure vessels
- Filters for Pure Water Window Cleaning

PREMIUM GRADE VIRGIN MIXED BED RESIN

Available in 25 L plastic bag or a re-sealable bucket.

- Ideal for all UNGER HiFlo DI cartridges and nLite® HydroPower DI Filters
- Immediately produces 100 % pure water for streak free glass cleaning
- Suitable for use in refillable DI cartridges, DI pressure vessels or filters for pure water window cleaning

Part No.	Product	Pack	
DIB25	Bag 25 l	1	
DIP25	Bucket 25 l	1	



DIP25



DIB25

WINDOW CLEANING > PURE WATER FILTERS >
nLite® HYDRO POWER RO XXL



THE NEW nLite® HYDRO POWER RO XXL SYSTEM

- Fully integrated trailer system with reverse osmosis filter and 750 l water tank
- Total flexibility for producing and transporting 100 % pure water for water fed pole cleaning!

MOBILITY:

Suitable for vehicles with towing capacity of 1.350 kg. High capacity baffled tank integrated into lightweight chassis for easy towing. DOT road specification, single axle, integrated lights and indicators with brake assist. Supplied with European standard coupling, jockey wheel and manual parking brake. Conforms to EU regulations.



SAFETY:



The multi-chamber tank design with low centre of gravity is designed to maximise stability during transportation. Also includes Auto Shut Off features, activated during water production mode when the tank becomes full and during use when the TDS of the outgoing water measures 5 ppm (can be changed to lower or higher number).

FLEXIBILITY:



The flow rates for Wash modes can be adjusted anytime at the digital control panel. This allows the operator(s) to choose more or less powerful flow rates to suit the cleaning job, saving and conserving water when less intense water flow is needed. You can also switch between Wash and Rinse modes at the touch of a button using the wireless remote control.

PROTECTION:



Optional protection cover for the hose reels. Robust truck tarpaulin that can be fixed on the new fixing point at the trailer frame.

- Maximum tank volume: 750 l, capacity: 650 l pure water
- 1 or 2 man operation via 2 stainless steel hose reels and 2 x 12V (10 bar, 150 psi) pumps
- 2 high quality 100m hoses for optimal reach
- Pure water output – up to 250 l per hour per person
- Digital controller monitors water flow, pressure and battery power
- Control water flow manually or by wireless remote control (max. reach 100m in open area)
- 3 stage water purification production with dedicated 12V (10 bar, 150 psi) pump. (Carbon Pre-filter, RO Membrane and nLite® HydroPower DI Filter Polisher)
- Integrated TDS meter
- High capacity 12 Volt Gel battery offers 'all day' operation before requiring recharge
- Maintenance free 210 amp hour Gel battery with mains charger supplied
- Optional: Protection cover available for hose reels.

nLite® HydroPower RO XXL TRAILER

Part No.	
TRLR1	
18845 (Protection Cover)	

**WINDOW CLEANING > PURE WATER FILTERS >
HiFlo RO FILTER**



R030G



R030C



R060S

A

REVERSE OSMOSIS FILTERS (RO)

Perfect for constant, high capacity, pure water production. Easy Operation: No switch, “Plug & Play”.

The physical reverse osmosis process removes approx. 98 % of minerals from the water.
The built-in resin filter completes the purification process to produce 100 % pure water.

HiFlo RO FILTER

- Automatic pump control with dry run protection for added safety
- Pure water output improved to 60 % at 350 l/hr
- Built in resin filter ensures 100 % water purity
- Economic way of pure water production for general cleaning purposes
- Built in TDS meter monitors water and resin quality
- Includes robust trolley frame for complete mobility
- Weight app. 50 kg
- No control valves or covers that could accidentally be adjusted
- R030C: includes Carbon Pre-Filter against chlorine in the water (lasts app. 100.000 l at 2 ppm chlorine)

HiFlo HIGH PERFORMANCE RO FILTER

→ All the great features of R030C and more!

- Double Membrane for extended water output (more than 700 l/h)
- Extra high power pump to support high water flow
- Big Pre-Filter, optimal security for the membranes
- Big Carbon Pre-Filter (instead of resin polisher) to save membranes from chlorine
- Ideal for two workers with no loss of water capacity or one worker with increased performance
- Perfect for solar cleaning – more water on the panel, better rinsing and cleaning
- Carbon filter lasts app. 200.000 litres at 2 ppm chlorine

HiFlo RO FILTER

Part No.	Product	Pack	
R030G	Mobile RO Filter	1	
R030C	Mobile RO Filter “Chlorine”	1	

HiFlo RO HIGH PERFORMANCE FILTER

Part No.	Pack	
R060S	1	

WINDOW CLEANING > WATER FED POLES > ACCESSORIES



HiFlo nLite® HOSE

Durable hose for water supply from water filter to the Brush.
– Complete with standard hose connector for water supply

Part No.	Length	Pack	
NL11G	11 m	1	
NL20G	20 m	1	
NL25G	25 m	1	



HiFlo nLite® HOSE EXTENSION KIT

Adapters for connection of 2 hoses into one.

- Includes 2 x Hose End Pieces, 1 x Quick Connector
- Insert the Hose End Pieces into each hose and connect using the Quick Connector

Part No.	Pack	
NLQUI	1	



HiFlo nLite® TOOL ADAPTER

Plastic adapter for attaching tools on HiFlo nLite® poles.
– FTTHR: Thread adapter for attaching brushes on the pole
– HFNLC: Locking cone adapter for attaching traditional window cleaning tools

Part No.	Pack	
FTTHR	1	
HFNLC	1	



HiFlo nLite® ENDCAP

Durable plastic cap prevents accidental damage to the pole.

- Insert into base section and secure by closing the clamp
- Features aperture for hose
- Fits Master and Extension Poles

Part No.	Pack	
TMECP	1	



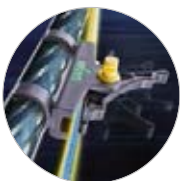
Example
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HiFlo nLite® BAG

For storage, protection and transportation of a complete HiFlo nLite® Kit.

- Made from solid nylon material
- Can be carried in hand or over shoulder
- Fits 5 or more poles, 2 brushes, 1 gooseneck, 1 hose
- Pocket for spare jets and small pieces

Part No.	Pack	
NLBA1	1	



Universal Velcro Straps for Ø 20–70 mm poles



nLite® Clips for Ø 35 mm poles

HiFlo Control

The On/Off Switch for instant water flow control at the pole.

- Fits onto the base sections of the pole
- Hose fits inside the switch, under the lever
- Adjust or shut off the water flow completely with one quick lever motion
- Fits any poles Ø 20–70mm
- Fits hoses external Ø 8 and 9mm

Part No.	Info	Pack	
TM00V	Complete with nLite® Clips + Velcro Straps	1	
TM00N	Clips for fitting to Ø 35 mm nLite® pole	1	
TM00T	Universal Velcro Straps	1	

WINDOW CLEANING > PURE WATER FILTERS > ACCESSORIES



Quality Tools for Smart Cleaning



While stocks last

HiFlo HOSE REEL

High quality reel with solid aluminium frame for keeping your hose under control.

- Ready assembled and easy to operate; easy to maneuver on all terrains
- Powder coated hard wearing frame; stable wide frame construction
- Wheeled for mobility without lifting
- Weight - 6.5 kg. Size - 40 x 40 x 90 cm. Reel diameter - 41 cm
- Includes 2 standard male hose connectors

Part No.	Pack
PHR40	1



PH50Y



PH10Y

HiFlo HOSE SET

PH50Y

- 2 x Female QR hose connectors

PH10Y

- 1 x Male hose fitting
- 1 x Female QR hose connectors

Part No.	Size	Ø Inner	Pack
PH50Y	50 m	13 mm	1
PH10Y	100 m	5 mm	1



HiFlo SOAP DISPENSER

The professional solution for severely soiled glass surfaces.

- Fits to every pure water filter. Connect after filter unit!
- Just fix with a belt
- No electricity needed, water driven pump
- Rate of additive: 0,3 % to 2 %
- Water pressure: 0,2-8 bar (2,9-120 PSI)
- Flowrate: 20-2.500 l/h (5,3-660 gal/h)
- Size: 56 x 18,5 cm (22" x 7,72")
- Weight: 1,8 kg (4 pound)
- Standard coupling 3/4"
- Complete incl. Connection Kit

Part No.	Pack
HCD25	1



HiFlo SOAP DISPENSER

For adding cleaning liquid to pure water flow, after the filter unit.

- Perfect for lifting stubborn dirt and greasy residue from heavily soiled surfaces
- Simple connection to standard garden hose
- Easy to refill and adjust concentration

Part No.	Pack
HCDEU	1



HiFlo TDS-METRE

Handheld Total Dissolved Solids (TDS) meter for measuring water hardness.

- Measures water hardness instantly in ppm (parts per million).
- Battery powered
- Includes protective leather pouch

Part No.	Pack
ROTDS	1

WINDOW CLEANING >

TRADITIONAL WINDOW CLEANING

All **UNGER** products are expertly designed to meet the high demands of the Professional Window Cleaning Industry.

Innovation and ergonomics are always at the forefront of our research and product development to enable professionals to work faster, more efficiently and above all safely.

Today our range includes wide selection of traditional, handheld tools and accessories, built to last and withstand continuous use, day after day.

From the traditional washer and squeegee to the latest microfiber pads for indoor cleaning – we have a solution to any cleaning challenge. What's more, all of our tools can be fitted to **UNGER** telescopic pole, allowing you to clean at heights of up to 10 m safely from the ground.

Look out for the **ErgoTec®** Locking Cone symbol, identifying products that can be locked securely on the pole with a quick-release button preventing falling off or spinning.



PREMIUM

Top of the range product, loaded with features



BEST

High on features bestseller



BETTER

Standard version



GOOD

Basic version. Good value option

SECURE FIT POLE



PUSH ON / SCREW ON

These tools can be pushed on and screwed onto the ACME thread of the **UNGER** Cone to ensure tight and secure fit. The grooves on the **UNGER** Cone prevent the tools from twisting during work.



PUSH ON AND CLICK TO LOCK IN PLACE

All tools with a slot in the handle and "LOCK" inscribed on it, securely lock into the **ErgoTec®** Locking Cone. Eliminating twisting or dropping during work the **ErgoTec®** Locking Cone is a standard feature on all **OptiLoc** and **TelePlus** poles.



Professional Window Cleaning



SQUEEGEES



p. 37

UNGER squeegees feature comfortable handles, high quality rubber and special locking mechanism for quick and easy change of the channel.

ErgoTec® NINJA, ErgoTec®, ErgoTec® SwivelLoc, S-Channel Plus, Pro, VisaVersa®, GC, UniTec, UniTec Light



WASHERS



p. 42

UNGER washers are available in a choice of materials with different features and absorbency, as well as various T-Bar designs.

ErgoTec® NINJA, ErgoTec®, Alu, Swivel, UniTec, MicroStrip, Monsoon, Original, Pad



TELESCOPIC POLES



p. 46

Lightweight, yet durable telescopic pole in various lengths put everything within arm's reach. Clean at heights of up to 10 m safely from the ground, without ladders.

OptiLoc, TelePlus, UniTec



SCRAPERS



p. 50

UNGER scrapers are perfect for removing stubborn dirt and glue residue. With various designs, safety features and blade sizes, there is an option to suit any budget and task.

ErgoTec® NINJA, ErgoTec®, ProTrim, Trim



ACCESSORIES



p. 54

Our extensive range includes everything to build up a professional kit – from waterproof gloves, belts and pouches to specialist detergents, buckets and cloth.



ErgoTec® NINJA SQUEEGEE

The ultimate performance



Available in 2 working angles:

30° & 40°

Available sizes:

20 cm – 105 cm

Ergonomic bi-component swivel handle with TriLoc mechanism for secure hold of the channel and with new Lock-Function. Extruded Aircraft Aluminium T6 channel will not bend or break. Complete with Soft Rubber.

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ErgoTec® NINJA SCRAPER



**Practical Holster
for the Belt**



UNGER proudly presents the new **ErgoTec® NINJA Scraper System**. Meet the first 2-in-1 scraper featuring the latest **UNGER** innovation – a solid, rust resistant steel angle change mechanism that enables two working angles – 0° and 30°.

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ErgoTec® NINJA WASHER

Makes tough jobs a lot easier



Strong yet lightweight hard anodised aluminium T-Bar with 180° swivel and with new Lock-Function. Highly absorbent sleeve with 2 abrasive side pads features built-in rows of scrubbing fibres.

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ErgoTec® NINJA BUCKET ON A BELT



Fits all **UNGER** squeegees. Holds 2 squeegees, 1 washer and 1 scraper. Suitable for left or right handed work. Clip lock for quick fitting to any belt.

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ErgoTec® NINJA MICRO WIPE

High performance microfibre cloth



Made of highly absorbent, lint free microfibre with 4 scrubbing corners for removing stubborn dirt or hanging the cloth on the pole for easy spot and corner cleaning at height. Machine washable up to 500 times. Available in 3 sizes.

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WINDOW CLEANING > TRADITIONAL WINDOW CLEANING SQUEEGEES



































Quality Tools for Smart Cleaning

SQUEEGEES



PRODUCT OVERVIEW

Use the guide below to compare various models of **UNGER** Squeegees and identify the right one for your cleaning tasks and budget.

			BUDGET	HANDLE		SWIVEL	CHANNEL			RUBBER*					
				Material	Fits to Locking Cone	Tension adjustment	Fitting	Sizes	Material	Type	Soft	Hard	Fitting		
		ErgoTec® NINJA	The ultimate high performance squeegee, featuring TriLoc mechanism for reliable hold of channel and freely adjustable and lockable swivel head. Available in 30° and 40° angle-version.		2k (Plastic with rubber insert)		Metal screw needs coin or screw-driver	TriLoc: clip press & release	20 – 105 cm	T6 Aluminium	Molded	✓	–	Side Clips on Ninja Channel	p. 38
		ErgoTec® Karbon	Super light, hand-crafted carbon fibre handle. 18 % lighter than bicomponent ErgoTec® squeegee handle.		Carbon fibre		–	S-Spring: press & release	–	–	–	–	–	Press S-Spring	p. 39
		ErgoTec®	Stainless steel squeegee with bi-component handle. Advanced ergonomic design for comfortable use every day. Quick and simple channel change.		2k (Plastic with rubber insert)		–	S-Spring: press & release	15 – 55 cm	Stainless Steel	Molded	✓	✓	Press S-Spring	p. 39
		ErgoTec® SwivelLoc	Swivel squeegee head, freely adjustable and lockable – a problem solver for hard-to-reach areas. Available in 2 head angles – straight and 30° version, ideal for working at height.		2k (Plastic with rubber insert)		Plastic screw turn 0° position fixable with button	0° screwed plate 30° S-Spring	only handle 0° / 30°	Stainless Steel	Only handle	–	–	0°: screw off plate 30° press S-Spring	p. 39
		S	Solid, stainless steel squeegee with rubber coated handle. S-Spring for easy & quick channel and rubber change.		Metal + Rubber sleeve		–	S-Spring: press & release	15 – 55 cm	Stainless Steel	Molded	✓	✓	Press S-Spring	p. 39
		Pro	Standard Squeegee for daily work. Clip for easy & quick channel and rubber change. Rubber sleeve for comfortable grip.		Metal + Rubber sleeve		–	Clip lock easy release	15 – 55 cm	Stainless Steel	Molded	✓	✓	Open clip	p. 39
		Visa-Versa®	Squeegee and washer in one tool. Great time saving choice for cleaning at height – no need to change the tool!		Plastic Finger grooves		–	S-Spring: press & release	15 – 55 cm	Stainless Steel	Molded	✓	✓	Press S-Spring	p. 39
		GC	Classic style brass squeegee. Sturdy and durable.		Brass		–	Screwed Plate needs screwdriver	25 – 55 cm	Brass	Extruded	✓	–	Screw off plate	p. 41
		UniTec	Basic metal squeegee. Quick channel release.		Metal		–	Squeezed by button	25 – 45 cm	Stainless Steel	Extruded	✓	–	Turn button	p. 41
		UniTec Light	Lightweight squeegee for glass or flat surfaces, ideal for household use.		Plastic		–	Channel hold by handle	30 cm	Aluminium	Extruded	✓	–	Fixed to channel	p. 41

* Soft and Hard Rubber are interchangeable and available to order separately.



PURCHASING GUIDE

You have to take 5 decisions:

- BUDGET:** How long do you work, how big is the area, how many extra features do you need?
- HANDLE:** Weight, Feature, Ergonomics
- SWIVEL FUNCTION:** Do you need to reach hard to reach areas? Do you work with telescopic poles?
- CHANNEL:** How big is the surface to be cleaned? How important is a quick channel change?
- RUBBER:** Soft or hard rubber? Professional quality or is standard quality enough?



This product securely locks on ErgoTec® Locking cone.



This product fits on **UNGER** Poles without safety locking mechanism.

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > SQUEEGEES



ERGOTEC® NINJA

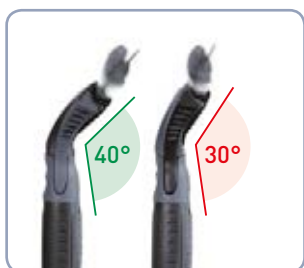
ErgoTec® NINJA WINDOW SQUEEGEE



Complete with NINJA Channel and professional Soft Rubber.

- Ergonomic handle with 180° swivel
- The centre position can be locked by pressing the lock button
- Handle with TriLoc mechanism for secure hold of the channel
- Extruded Aircraft Aluminum T6 Channel: will not bend or break
- Fits securely to pole with Locking Cone

Part No.	Angle	Size	Rubber	Pack
EN300	40°	30 cm	Soft	5
EN350	40°	35 cm	Soft	5
EN450	40°	45 cm	Soft	5
E3300	30°	30 cm	Soft	5
E3350	30°	35 cm	Soft	5
E3450	30°	45 cm	Soft	5



Choose between 40° and 30° head angle versions



The center position can be locked by pressing the lock button



Locking Mechanism to secure the swivel head in center position



New and improved end clip mechanism



ErgoTec® NINJA SQUEEGEE CHANNELS



Complete with soft rubber and SmartClip end clips.

- Extruded Aircraft Aluminum T6 Channel: will not bend or break
- Perfect pressure distribution
- Fast and easy rubber change

Part No.	Size	Rubber	Pack
AC200	20 cm	Soft	5
AC250	25 cm	Soft	5
AC300	30 cm	Soft	5
AC350	35 cm	Soft	5
AC450	45 cm	Soft	5
AC550	55 cm	Soft	5
AC650	65 cm	Soft	5
AC750	75 cm	Soft	5
AC920	92 cm	Soft	5
AC105	105 cm	Soft	5



ErgoTec® NINJA HANDLE



- Ergonomic swivel handle with 180° swivel
- TriLoc mechanism for secure hold of the channel
- Fits securely to pole with Locking Cone

Part No.	Angle	Pack
EN000	40°	5
E3000	30°	5

i RUBBER INFO



SOFT

- Shore hardness: 53 ± 2
- Ideal for colder temperatures
- Adjusts better to uneven surfaces

HARD

- Shore hardness: 60 ± 2
- Ideal for warmer temperatures
- Ideal for large, smooth surfaces



ErgoTec® SWIVEL LOC HANDLE



Swivel squeegee head, freely adjustable and lockable.

Problem solver for hard-to-reach places.

- Advanced ergonomic bi-component handle for comfortable use
- Available in two head angles: 0° and 30°
- Compatible with S-Channel
- Fits securely to pole with Locking Cone

Part No.	Version	Pack
LS000	0°	5
LA000	30°	5

ErgoTec® CARBON HANDLE



The lightest professional squeegee handle.

- 18 % lighter than bi-component ErgoTec® squeegee handle
- Premium materials: Handle: Carbon fibre T700, 7 layers;
- S-Spring: High value stainless steel 1.4310
- Anti-slip coating for reliable grip
- Compatible with S-Channel and S-Channel Plus

Part No.	Pack
UCH00	1

ErgoTec® SQUEEGEE



Stainless steel squeegee with bi-component handle.

- Advanced ergonomic handle design for comfortable use
- Quick and simple channel change
- Fits securely to pole with Locking Cone

Part No.	Size	Rubber	Pack
ES250	25 cm	Soft	10
ES350	35 cm	Soft	10
ES450	45 cm	Soft	10
ES550	55 cm	Soft	10
ES25H	25 cm	Hard	10
ES35H	35 cm	Hard	10
ES45H	45 cm	Hard	10
ES55H	55 cm	Hard	10
ETG00		Handle	10
ETX00	+2,5 cm	Handle XL	10

S SQUEEGEE



Stainless steel squeegee with rubber coated handle.

- Solid handle design
- Quick and simple channel change with S-Spring
- Fits on telescopic pole

Part No.	Size	Rubber	Pack
SE250	25 cm	Soft	10
SE350	35 cm	Soft	10
SE450	45 cm	Soft	10
SE25H	25 cm	Hard	10
SE35H	35 cm	Hard	10
SE45H	45 cm	Hard	10
SG000		Handle	10

VisaVersa®



Squeegee and washer in one tool. Complete with S-Channel, Original Sleeve and professional Soft-Rubber.

- Time saving performance without changing tool
- Fits securely to pole with Locking Cone for extra safety

Part No.	Size	Rubber	Material	Pack
VP250	25 cm	Soft	Blended fabric*	10
VP350	35 cm	Soft	Blended fabric*	10
VP450	45 cm	Soft	Blended fabric*	10

Pro SQUEEGEE



Stainless steel squeegee with rubber coated handle.

- Solid handle design
- Quick release clip for fast and easy channel change
- Fits on telescopic pole

Part No.	Size	Rubber	Pack
PR250	25 cm	Soft	10
PR350	35 cm	Soft	10
PR450	45 cm	Soft	10
PR000		Handle	10

* Support material: 100 % polyethylene; Fibres: 100 % polyacrylic

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > SQUEEGEE RUBBER & CHANNELS



Pro SQUEEGEE RUBBER

25 rubbers per storage box. Professional quality.

- Highly durable and efficient
- Sharp edges enable thorough wiping for superior finish
- Sturdy plastic storage box keeps rubbers clean and straight

Part No.	Size	Rubber	Pack
RP300	30 cm	Soft	25
RP350	35 cm	Soft	25
RP450	45 cm	Soft	25
RP30H	30 cm	Hard	25
RP35H	35 cm	Hard	25
RP45H	45 cm	Hard	25



Pro SQUEEGEE RUBBER

10 rubbers per bag. Professional quality.

- Highly durable and efficient
- Sharp edges enable thorough wiping for superior finish

Part No. Soft	Part No. Hard	Size	Pack
RR200	RR20H	20 cm	10
RR250	RR25H	25 cm	10
RR300	RR30H	30 cm	10
RR350	RR35H	35 cm	10
RR400	RR40H	40 cm	10
RR450	RR45H	45 cm	10
RR500	RR50H	50 cm	10
RR550	RR55H	55 cm	10
RR600	RR60H	60 cm	10
RR650	RR65H	65 cm	10
RR750	RR75H	75 cm	10
RR920	RR92H	92 cm	10
RR990	RR99H	106 cm	10



RUBBER INFO

Soft

- Shore hardness: 53 ± 2
- Ideal for colder temperatures
- Adjusts better to uneven surfaces

Hard

- Shore hardness: 60 ± 2
- Ideal for warmer temperatures
- Ideal for large, smooth surfaces



Standard



S-CHANNEL PLUS

Stainless steel channel with variable positioning options.

Complete with soft rubber.

- Curved ends support the rubber at the edges for improved cleaning close to frame
- Strong and durable
- Easy change of rubber
- Fits on ErgoTec®, S- and Pro-squeegees

Part No.	Size	Rubber	Pack
UC300	30 cm	Soft	10
UC350	35 cm	Soft	10
UC450	45 cm	Soft	10



S CHANNEL

Stainless steel channel with variable positioning options.

Complete with soft and hard rubber.

- Strong and durable
- Easy change of rubber
- Fits on ErgoTec®, S- and Pro-squeegees

Part No.	Size	Rubber	Pack
NE250	25 cm	Soft	10
NE300	30 cm	Soft	10
NE350	35 cm	Soft	10
NE450	45 cm	Soft	10
NE550	55 cm	Soft	10
NE15H	15 cm	Hard	10
NE25H	25 cm	Hard	10
NE30H	30 cm	Hard	10
NE35H	35 cm	Hard	10
NE45H	45 cm	Hard	10
NE55H	55 cm	Hard	10



GC BRASS SQUEEGEE



Classic style brass handle.
Brass channels, complete with soft rubber.

- Sturdy and durable
- Firm channel fit with screws
- Fits on telescopic pole

Part No.	Size	Rubber	Pack
GS000		Brass Handle	10
GC250	25 cm	Brass Channel	10
GC300	30 cm	Brass Channel	10
GC350	35 cm	Brass Channel	10
GC450	45 cm	Brass Channel	10
GC550	55 cm	Brass Channel	10



HIGHWAY RUBBER



Cut to fit 15 m rubber roll. Household quality.

- Convenient and practical
- Good value deal
- Cardboard box with easy rubber access

Part No.	Size	Pack
HIXXL	15 m	10



Plastic Clips

For improved hold of rubber in the channel. Available in solid plastic or brass.

- Effectively tensions and secures squeegee rubber
- Detachable one at a time
- Practical sturdy storage box

Part No.	Info	Pack
PCLIP	Plastic Clips 40/Box	10
MCLIP	Brass Clips 100/Box	1



UniTec SQUEEGEE



Convenient metal squeegee, good value.

- Sturdy
- Firm channel fit with screws
- Fits on telescopic pole

Part No.	Size	Info	Pack
OW250	25 cm	Complete	10
OW350	35 cm	Complete	10
OW450	45 cm	Complete	10
OG000		Handle	10



Ergo HANDLE EXTENSION

Additional 14 cm reach for cleaning glass.

- Offers additional reach for safer cleaning without ladders
- Fits to all cone tools

Part No.	Size	Pack
HH000	14 cm	10



UniTec SQUEEGEE LIGHT



Extra light squeegee for glass or flat surfaces in household area.

- Lightweight design for comfortable use
- Ideal for smooth surfaces
- Fits on telescopic pole

Part No.	Size	Info	Pack
US300	30 cm	Complete	10



LASO

Belt fastening safety tool to secure a squeegee.

- Prevents squeegee from dropping
- Flexible and solid, with inner cord made from kevlar
- Secure hold

Part No.	Size	Pack
SL010	55 cm	10

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > WASHERS

WASHERS



PRODUCT OVERVIEW

Use the guide below to compare various models of **UNGER** washers and sleeves and identify the right one for your cleaning tasks and budget.

T-BARS

	BUDGET	HANDLE		SWIVEL FUNCTION		T-BAR				
		Material	Fits to Locking Cone	Swivel Head	Tension adjustment	Material	Weight	Available Sizes	Function	
ErgoTec® NINJA	***	Plastic with rubber insert		✓	Screw	Aluminium	Very light	25 – 75 cm	Swivel head	p. 44
ErgoTec®	***	Plastic with rubber insert		–	–	Plastic	Light	25 – 45 cm	Water wells	p. 44
Alu	**	Plastic		–	–	Aluminium	Very light	15 – 55 cm	Low weight	p. 44
Swivel	**	Plastic		✓	Knob	Aluminium	Very light	35 – 45 cm	Swivel head	p. 44
UniTec	*	Plastic		–	–	Plastic	Light	25 – 45 cm	Water wells	p. 44

SLEEVES

	BUDGET	MATERIAL	FEATURES	AVAILABLE SIZES	CLOSING	SCRUB PAD	
ErgoTec® NINJA	***	100 % polyamide* 70 % polyacrylic** 20 % polyethylene** 10 % polyamide**	Superb water absorption and scrubbing action	25 – 75 cm	Velcro	2 x	p. 45
MicroStrip	***	100 % polyamide* 100 % polyethylene**	High water retention - up to 6 times its own weight	25 – 55 cm	Velcro	1 x	p. 45
Monsoon	***	100 % polyamide* 70 % polyacrylic** 20 % polyethylene** 10 % polyamide**	High water retention	15 – 55 cm	Velcro	1 x	p. 45
Original	**	100 % polyethylene* 100 % polyacrylic**	Good cleaning power	25 – 55 cm	Velcro	1 x	p. 45
Pad	**	100 % polyethylene* 80 % polyacrylic** 20 % polyethylene**	Removes tough dirt	35 + 45 cm	Velcro	–	p. 45
UniTec	*	100 % polyester*/**	Standard cleaning power	25 – 45 cm	Snap fasteners	–	p. 45

* Support material
** Fibres

ERGOTEC® NINJA



The center position can be locked by pressing the lock button



Swivel function: Perfect for polework and hard-to-reach-areas

ErgoTec® NINJA WINDOW WASHER



Complete with NINJA Washer T-Bar and highly absorbent sleeve with Microfibre.

- Ultimate cleaning performance. Sleeve is machine washable up to 500 times
- Sleeve with rows of scrubbing fibres and 2 abrasive side pads
- Strong yet lightweight hard anodised aluminium T-Bar with 180° swivel function
- Fits securely to pole with Locking Cone

Part No.	Size	Material	Pack
NA350	35 cm	Blended fabric*	5
NA450	45 cm	Blended fabric*	5

StripWasher® PAD STRIP PAC



Complete washer with blended fabric sleeve and scrub pad strip.

- Removes tough dirt
- Sleeve with scrub pad is machine washable up to 500 times
- Lightweight plastic T-Bar with water wells fits securely to pole

Part No.	Size	Material	Pack
RC350	35 cm	Scrub Pad + Fabric**	10
RC450	45 cm	Scrub Pad + Fabric**	10

* Support material: 100 % polyamide; Fibres: 70 % polyacrylic, 20 % polyethylene, 10 % polyamide
 ** Support material: 100 % polyethylene; Fibres: 80 % polyacrylic, 20 % polyethylene



StripWasher® MICROSTRIP PAC



Complete washer with highly absorbent microfibre sleeve.

- Superior cleaning power
- Sleeve with side scrub pad is machine washable up to 500 times
- Lightweight plastic T-Bar with water wells fits securely to pole

Part No.	Size	Material	Pack
NC350	35 cm	Microfibre***	10
NC450	45 cm	Microfibre***	10



StripWasher® MONSOON STRIP PAC



Complete washer with blended, extra long fibre sleeve.

- Excellent cleaning power
- Sleeve with side scrub pad is machine washable up to 500 times
- Lightweight plastic T-Bar with water wells fits securely to pole

Part No.	Size	Material	Pack
MC350	35 cm	Blended fabric*	10
MC450	45 cm	Blended fabric*	10



StripWasher® ORIGINAL STRIP PAC



Complete washer with blended fabric sleeve.

- Good cleaning power
- Sleeve is machine washable up to 500 times
- Lightweight plastic T-Bar with water wells fits securely to pole

Part No.	Size	Material	Pack
WC250	25 cm	Blended fabric****	10
WC350	35 cm	Blended fabric****	10
WC450	45 cm	Blended fabric****	10

*** Support material: 100 % polyamide; Fibres: 100 % polyethylene
 **** Support material: 100 % polyethylene; Fibres: 100 % polyacrylic

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > WASHER T-BARS

ERGOtec® NINJA



ErgoTec® NINJA T-BAR



Durable, lightweight hard anodized aluminium T-Bar.

- Ergonomic bi-component handle with 180° swivel and lock function
- Superior performance without causing excessive strain on arms and shoulders
- Fits securely to pole with Locking Cone

Part No.	Size	Pack	
NI250	25 cm	5	
NI350	35 cm	5	
NI450	45 cm	5	
NI550	55 cm	5	
NI750	75 cm	5	



StripWasher® ErgoTec® T-BAR



Durable plastic T-Bar with ergonomic bi-component handle.

- Ergonomic bi-component handle
- Water wells for increased water retention
- Fits securely to pole with Locking Cone

Part No.	Size	Pack	
EH250	25 cm	10	
EH350	35 cm	10	
EH450	45 cm	10	



StripWasher® ALU T-BAR



Lightweight solid aluminium T-Bar with plastic handle.

- Finger grooves on the handle for secure grip
- Fits securely to pole with Locking Cone

Part No.	Size	Pack	
AT150	15 cm	10	
AT250	25 cm	10	
AT350	35 cm	25	
AT450	45 cm	25	
AT550	55 cm	10	



StripWasher® SWIVEL T-BAR



Lightweight aluminium T-bar with adjustable head and plastic handle.

- Angle adjustable to 7 positions with set screw
- Fits securely to pole with Locking Cone

Part No.	Size	Pack	
SV350	35 cm	5	
SV450	45 cm	5	



StripWasher® UniTec T-BAR



Lightweight monolithic plastic T-Bar.

- Water wells for increased water retention
- Fits securely to pole with Locking Cone

Part No.	Size	Pack	
OE250	25 cm	10	
OE350	35 cm	10	
OE450	45 cm	10	

WASHER SLEEVES



Quality Tools for Smart Cleaning



StripWasher® ORIGINAL SLEEVE ★★

Blended fabric standard sleeve with Velcro fastener.
 – Good cleaning power
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
WS250	25 cm	Blended fabric*	10
WS350	35 cm	Blended fabric*	10
WS450	45 cm	Blended fabric*	10
WS550	55 cm	Blended fabric*	10

StripWasher® PAD SLEEVE ★★

Blended fabric standard sleeve with scrub pad strip and Velcro fastener.
 – Time efficient cleaning of heavily soiled surfaces
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
RS350	35 cm	Scrub Pad + Fabric**	10
RS450	45 cm	Scrub Pad + Fabric**	10

* Support material: 100 % polyethylene; Fibres: 100 % polyacrylic
 ** Support material: 100 % polyethylene; Fibres: 80 % polyacrylic, 20 % polyethylene

ErgoTec® NINJA WASHER SLEEVE ★★★

Blended fabric sleeve with 2 abrasive side pads and velcro fastener.
 – Ultimate cleaning performance
 – With rows of scrubbing fibres for effective removal of stubborn dirt
 – High water retention
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
NJ250	25 cm	Blended fabric***	5
NJ350	35 cm	Blended fabric***	5
NJ450	45 cm	Blended fabric***	5
NJ550	55 cm	Blended fabric***	5
NJ750	75 cm	Blended fabric***	5

StripWasher® MICRO SLEEVE ★★★

Microfibre sleeve with scrub pad and Velcro fastener.
 – Superior cleaning power
 – High water retention – up to 6 times its own weight
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
NS250	25 cm	Microfibre****	10
NS350	35 cm	Microfibre****	10
NS450	45 cm	Microfibre****	10
NS550	55 cm	Microfibre****	10

StripWasher® MONSOON SLEEVE ★★★

Blended fabric sleeve with extra long fibres, scrub pad and Velcro fastener.
 – Excellent cleaning power
 – High water retention
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
MS150	15 cm	Blended fabric***	10
MS250	25 cm	Blended fabric***	10
MS350	35 cm	Blended fabric***	10
MS450	45 cm	Blended fabric***	10
MS550	55 cm	Blended fabric***	10

StripWasher® UniTec SLEEVE ★

Synthetic fibre washer sleeve with snap fasteners.
 – Good cleaning power
 – Good value deal
 – Machine washable up to 500 times

Part No.	Size	Material	Pack
ON250	25 cm	Polyester*****	10
ON350	35 cm	Polyester*****	10
ON450	45 cm	Polyester*****	10

*** Support material: 100 % polyamide; Fibres: 70 % polyacrylic, 20 % polyethylene, 10 % polyamide
 **** Support material: 100 % polyamide; Fibres: 100 % polyethylene
 ***** Support material/Fibres: 100 % polyester

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > TELESCOPIC POLE SYSTEM



TELESCOPIC POLE SYSTEM

The UNGER Telescopic Pole System puts everything within arm's reach.

Telescopic poles in various lengths and with ergonomic handles allow for secure operation from the ground – without ladder – and in addition save time and money.

OptiLoc

- 2 or 3 section telescopic pole
- Available in 9 different lengths
- Reach in excess of 9 m (30 ft)
(max. pole length 9 m (30 ft) + body height)
- **ErgoTec®** Locking Cone included

TelePlus System

- Extendable modular telescopic pole
- 2 or 3 section poles
- Extensions 1,25 m (4 ft) or 2,00 m (6,5 ft) – simply attach
- Reach in excess of 10 m (32 ft)
(max. pole length 10 m (32 ft) + body height)
- **ErgoTec®** Locking Cone included

UniTec

- 2 section telescopic pole
- Available in 3 different lengths
- Interior lock, twist right or left for locking
- Reach in excess of 4 m (13 ft)
(max. pole length 4 m (13 ft) + body height)



AVOID WORKING ON LADDERS

- **UNGER** telescopic poles allow you to work safely reaching up to 10 m height, while standing on the ground
- The **UNGER ErgoTec®** Locking Cone ensures safer operation, since the tools lock in place and cannot drop
- Most accidents with ladders are caused by wrong handling, and not their damage
- Always check whether cleaning from the ground is a safe option. If not, discuss safe alternatives and corresponding costs with your client
- Always insist on safe working conditions. Do not risk your life just because the client does not accept certain services!
- Always choose the safest way. Ladders should not automatically be first choice simply due to convenience
- Ladders become extremely unsafe under certain conditions: Rain makes the ground slippery; uneven ground or contaminations can result in tilting, or even falling

TelePlus System

OptiLoc



2 sections

3 sections/
Plus 3

4 sections/
Plus 4

5 sections/
Plus 5



UniTec



WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > TELESCOPIC POLE SYSTEM

For distributors:
Pack Unit 10. Select 10 poles
from this page.



OptiLoc POLE, 2 SECTIONS

Telescopic pole with ErgoTec® Locking Cone.

Part No.	Size	
EZ120	1,25 m	
EZ250	2,50 m	
EZ300	3,00 m	
EZ400	4,00 m	
EZ500	5,00 m	
EZ600	6,00 m	

OptiLoc POLE, 3 SECTIONS

Telescopic pole with ErgoTec® Locking Cone.

Part No.	Size	
ED180	1,85 m	
ED370	3,75 m	
ED450	4,50 m	
ED600	6,00 m	
ED750	7,50 m	
ED900	9,00 m	



TelePlus POLE, 1,25 m SECTIONS

Modular Telescopic pole with ErgoTec® Locking Cone.

Part No.	Size	Sections	
TZ250	2,50 m	2	
TD370	3,70 m	3	
TV500	5,00 m	4	
TF620	6,20 m	5	



TelePlus POLE, 2,00 m SECTIONS

Modular Telescopic pole with ErgoTec® Locking Cone.

Part No.	Size	Sections	
TZ400	4,00 m	2	
TD600	6,00 m	3	
TV800	8,00 m	4	
TF100	10,00 m	5	



UniTec POLE, 2 SECTIONS

Telescopic pole with standard nylon cone.

Part No.	Size	
OS210	2,00 m	
OS250	3,00 m	
OS260	4,00 m	



TelePlus3 EXTENSION

Extension for 2 section poles. Ø 29 mm

Part No.	Size	
T3120	1,25 m	
T3200	2,00 m	



TelePlus4 EXTENSION

Extension for 3 section poles. Ø 33 mm

Part No.	Size	
T4120	1,25 m	
T4200	2,00 m	



TelePlus5 EXTENSION

Extension for 4 section poles. Ø 37 mm

Part No.	Size	
T5120	1,25 m	
T5200	2,00 m	



ONE STAGE POLE, 1 SECTION

With ErgoTec® Locking cone. Ø 21 mm

Part No.	Size	
HH240	60 cm	

ADAPTERS & MAINTENANCE



Quality Tools for Smart Cleaning



ANGLE JOINTS

Freely adjustable angle allows access to hard-to-reach places.

- Available in sturdy zinc version or lightweight plastic version
- Fits to telescopic pole

Part No.	Version	Pack
CJA00	Zinc	5
CJN00	Plastic	5



TOOL HOLDER

Ideal for paint rollers, scrapers and other tools with handle.

- Enables safe operation from the ground with secure tool handle lock
- Adjustable angle that locks securely via bolt with nut
- Fits to telescopic pole

Part No.	Pack
PBR00	5



THREAD ADAPTER 1/2"

With 1/2" thread. Fits conventional brooms.

- Adapter is inserted into pole and locks in place via stand spring

Part No.	Pack
BE000	5



BULB CHANGER

For changing round light bulbs in high access areas without ladders. Rubber coated spring steel fingers.

- Enables safer and faster bulb change from the ground
- Fits to telescopic pole

Part No.	Pack
BS010	5



ErgoTec® LOCKING CONE

Securely locks tools on the telescopic pole.

- Compatible with all UNGER systems
- Quick and easy tool change via release button

Part No.	Pack
NCA00	5



FLOOD SUCKER

For changing flat light bulbs in high access areas without ladders. With suction cups.

- Enables safer and faster bulb change from the ground
- Fits to telescopic pole

Part No.	Pack
FS000	5



CONE

For attaching or screwing on tools.

- Cone is inserted into pole and locks in place via stand spring

Part No.	Pack
NCA00	5



FIXI-SYSTEM

Innovative cleaning system, ideal for cleaning large and high surfaces such as boats and vehicles.

- Firmly retains sponge, cloth, by tightening the locking collar
- Fits on telescopic pole
- Stiff bristle brush effectively removes stubborn dirt

Part No.	Version	Pack
FIXI0	Clamp	5
HBR00	Brush	5
SP010	Sponge	10

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > GLASS SCRAPERS



UNGER SCRAPERS

UNGER offers scrapers and blades for all needs. The **GLASS SCRAPERS** provide an extra sharp carbon steel blade with two sharp edges. Perfect to remove stickers, paint etc. from glass.

These blades are available either as robust carbon steel blade or a high-quality, and flexible stainless steel blade.

The **SURFACE SCRAPERS** provide extra solid, reversible sharp/blunt blades. The sharp edge is ideal for removing stubborn objects such as stickers or paint, while the blunt side is great at removing heavy-duty dirt.

i UNGER PREMIUM GLASS SCRAPER BLADES STAINLESS STEEL

- **Longer lasting:** Dual sided stainless steel blades. Extremely rust resistant. Designed with a specific flexibility to resist blade edge breaks and chips
- **Designed for speed and ease of use:**
UNGER's new 440A stainless steel blades are fabricated specifically for superior cutting and removal of unwanted debris on glass. Each blade receives a precise honing process, creating a perfect cutting angle that is razor sharp and consistent, enhancing the speed and effectiveness of every scraper pass
- **Usage:** Ideal for daily site glass clean up: paint, decals, tape, heavy soil/debris and construction clean up

i UNGER CARBON STEEL BLADES

- Made of extra-sharp carbon steel and each blade is 4-way sharpened
- Two sharp sides for twice the wear on selected scraper blades
- Both sides lacquered for longer rust protection
- Individual wrapping in wax paper helps to protect blades from rusting and sticking together
- Safely packed and stored in convenient plastic dispenser. Blades remain dry and always available in safe dispenser

Practical Holster
for the Belt



ERGOTEC® NINJA



Available in 2 sizes:
10 cm 15 cm



Switch the angle of the scraper head
from 0 to 30° at the touch of a button!



Safer and easier blade change –
push slider release lock to access
and change blade



Scraper includes removable
protective blade cover



Practical Holster & Scraper Comb

ErgoTec® NINJA SCRAPER

The world's first 2-in-1 scraper for professional window cleaning.

- The angle of the scraper head can be switched from straight to 30°
- Safer and easier blade change
- Fits securely to poles with Locking Cone
- Includes UNGER Premium Glass Scraper Blade Stainless Steel

Part No.	Blade	Pack	
EN100	10 cm	5	
EN150	15 cm	5	

ErgoTec® NINJA COMBO [SCRAPER + HOLSTER]

Part No.	Blade	Pack	
ENH10	10 cm	5	
ENH15	15 cm	5	

ErgoTec® NINJA HOLSTER

Made of durable solid plastic, the Holster is built to withstand frequent contact with sharp blades thanks to its integrated stainless steel strike plate.

- Fits to most standard tool belts
- Fits the scraper with or without protective cap

Part No.	Compatible	Pack
HT150	Fits 10 cm and 15 cm scraper	5

PREMIUM GLASS SCRAPER BLADES STAINLESS STEEL

Part No.	Blade	Info	Pack	
ENB10	10 cm	1 case = 25 blades	10 cases	
ENB15	15 cm	1 case = 25 blades	10 cases	

Also fits ErgoTec®, ProTrim and Trim scrapers

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > GLASS SCRAPERS



ErgoTec® SAFETY SCRAPER

Ergonomic scraper with safety mechanism.

Spare blades: SRB10, SRB20, SRBDB.

- Reversible blade with sharp edges
- Made of metal with rubber grip, sturdy and durable
- Retractable blade for safety

Part No.	Size	Info	Pack
SR03K	4 cm	20 in a box	20
SR04K	4 cm	50 in a display box	50

SAFETY SCRAPER

**

Convenient scraper with safety mechanism.

Spare blades: SRB10, SRB20, SRBDB.

- Reversible blade with sharp edges
- Made of metal, sturdy and durable
- Retractable blade for safety

Part No.	Size	Info	Pack
SR20K	4 cm	20 in a box	20
SR50K	4 cm	50 in a display box	50



ErgoTec® GLASS SCRAPER

Large surface blade with ergonomic bi-component handle.

Spare blades: TR100 (10 cm), TR150 (15 cm).

- Reversible sharp/blunt blade
- Simple slide blade change, with protective cap for safety
- Fits securely to pole with Locking Cone

Part No.	Size	Info	Pack
EG100	10 cm	Packed in display box	10
EG150	15 cm	Packed in display box	10



MINI SCRAPER

*

Handy plastic scraper with special locking mechanism.

- Extremely handy - fits anywhere!
- Reversible blade for safety

Part No.	Size	Info	Pack
STMIN	4 cm	In plastic bucket	100



PROTRIM 10

The convenient lightweight scraper for every day.

Spare blades: TR100, KL100.

- Convenient and compact
- Retractable blade for safety
- Blade replacement and cleaning at push of a button

Part No.	Size	Info	Pack
TX100	10 cm	Packed in display box	10



TRIM 10+1

**

Glass scraper in stainless steel holder. In practical plastic box, with 10 blades.

Spare blades: TR100, KL100.

- Strong stainless steel
- Fits in UNGER squeegee handles for telescopic poles
- Folding mechanism for safety

Part No.	Size	Info	Pack
TM100	10 cm	1 case = 1 holder+10 blades	10 cases
TH100	10 cm	1 Box = 25 holder in bundles of 5	25

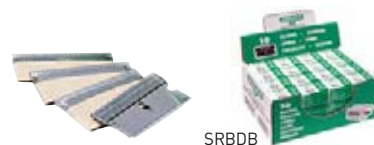


CARBON GLASS SCRAPER BLADES 10/15 cm

Carbon blades with reversible sharp edges.

For TX100, EG100, EG150, TM100, EN100, EN150.

Part No.	Size	Info	Pack
KL100	10 cm	1 Box = 250 loose blades	1 Box
TR100	10 cm	1 case = 25 blades	10 cases
TR150	15 cm	1 case = 25 blades	10 cases



CARBON GLASS SCRAPER BLADES 4 cm

For SR03K, SR04K, SR20K, SR50K, STMIN.

- Single edge razor blade with aluminium holder
- Easy to replace
- SRBDB includes dispenser with tray for old blades

Part No.	Size	Info	Pack
SRB10	4 cm	1 box = 100 blades	1 Box
SRB20	4 cm	1 box = 250 blades	1 Box
SRBDB	4 cm	1 box = 10 blades in dispenser	48 Box

SURFACE SCRAPERS



Quality Tools for Smart Cleaning



ErgoTec® SCRAPER

Ergonomic surface scraper with bi-component handle.

Spare blades: RB100.

- Advanced ergonomic handle design for comfortable use
- Angled, heavy metal head with reversible sharp/blunt edge blade

Part No.	Size	Pack
SH000	10 cm	10



→ EXPERT TIPS

- Check if glass is scratch-resistant and suitable for scraper use. Unsuitable for use – e.g. Plexiglas, crown glass, solar glass, safety glass (ESG). Follow the manufacturer's care instructions
- Perform a scrape test in advance on an inconspicuous section
- Before starting work, check the glass for damage and report it, if necessary
- Check the blade for damage and change it, if necessary, or reverse it
- The surface to be scraped should always be wet
- It is best to use a release agent, e.g. „UNGER's Liquid“
- Always scrape in one direction! Never pull the scraper back – scratch risk!
- After scraping, check if adhesive or stucco residues are stuck to blade. If necessary, change or reverse blade

ATTENTION! UNGER blades are razor-sharp.
Always handle with greatest care.



ErgoTec® LONGHANDLE SCRAPER

The surface scraper with extra power with bi-component handle.

Spare blades: RB100.

- 25 cm long handle for extra reach and power
- Reversible sharp/blunt blade
- Blade protection cap for safety

Part No.	Size	Pack
SH250	10 cm	10

STAINLESS STEEL BLADES FOR SURFACES

Reversible sharp/blunt edge stainless steel blade.
For SH000, SH250

- Sharp edge for scraping off paint, stickers, etc.
- Blunt side for removing cement and stucco
- Compact dispenser stores new and used blades
- Blades easily slide in and out of dispenser

Part No.	Size	Info	Pack
RB100	10 cm	1 dispenser = 10 blades	10 disp



WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > GLASS CLOTHS

WINDOW MICROFIBRE CLOTH SYSTEM



CLEANING WITH MICROFIBRE

Microfibre is highly efficient in removing dirt, oils, embedded soils and bacteria from surfaces without chemicals due to its slightly abrasive fibre texture. When used dry the statically charged fibre attracts and holds dust in place, unlike cotton or paper cloths.

Highly absorbent microfibre requires less water and chemicals for effective cleaning, allowing a reduction in water and harsh chemical consumption.

Microfibre is hard wearing and reusable generating less waste for landfill disposal than cotton or paper disposable cloths.



MICROWIPE LITE



Microfibre Cloth with great value.

- Fabric weight: 300 g/m²
- Super soft, easy to use low friction material
- Overlock stitch along the edges ensures shape retention
- Machine washable up to 200 times

Part No.	Size	Material	Pack
MF40E	40 x 40 cm	Microfibre*	10
MF60E	60 x 80 cm	Microfibre*	10



CHAMOIS

Professional quality sheepskin chamois.

- Excellent for glass cleaning
- Quality checked by hand

Part No.	Size	Material	Pack
FS450	ca. 0,4 m ²	Sheepskin	5
FS550	ca. 0,5 m ²	Sheepskin	5



ErgoTec® NINJA MICROWIPE



Best in Class premium Microfibre cloth.

- Fabric weight: 400 g/m²
- Double sided - coarse for cleaning and smooth for polishing
- With 4 scrubbing corners for removing stubborn dirt
- Pocket corners for hanging the cloth on the pole for detailing at height
- Reinforced overlock stitch along the edges ensures shape retention
- Machine washable up to 500 times

Part No.	Size	Info	Material	Pack
MN40H	40 x 40 cm	Standard size	Microfibre*	5
MN55H	55 x 55 cm	Medium size	Microfibre*	5
MN60H	80 x 60 cm	Extra size	Microfibre*	5



MICROWIPE



The "Original" microfibre cloth.

- Fabric weight: 350 g/m²
- Double sided - coarse for cleaning and smooth for polishing
- Overlock stitch along the edges ensures shape retention
- Machine washable up to 500 times

Part No.	Size	Info	Material	Pack
MF40L	40 x 40 cm	Standard size	Microfibre*	10
MF60L	60 x 80 cm	Extra size	Microfibre*	5



SCRIM

For polishing and spot cleaning of glass surfaces.

- Robust and durable
- Generous size for large surface
- Versatile best seller

Part No.	Size	Material	Pack
SCRM1	92 x 92 cm	100 % Linen	10

* 70 % polyester, 30 % polyamide

PROTECTIVE GLOVES



Quality Tools for Smart Cleaning

PROTECTIVE GLOVES



NEOPRENE GLOVES

Choose from 2 designs of neoprene gloves to protect your hands from cold. **UNGER** Gloves may feel slightly smaller than your usual gloves size so we recommend to use the size guide charts on the right for perfect fit. Alternatively, you can order the Gloves in one size larger than you usually would.

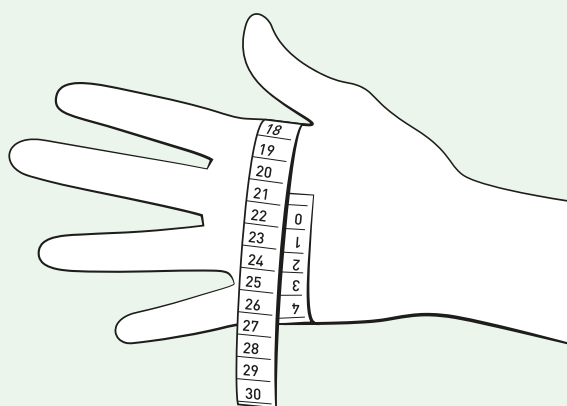
POLE GLOVES

Design for all-year round protection, our Poles Gloves will help you avoid discomfort when working with poles in hot weather.



IDENTIFY YOUR GLOVE SIZE:

Measure the circumference of your hand at the widest point, right under the knuckles, excluding thumb. Check our size guide charts on the right to identify your glove size.



ErgoTec® NEOPRENE GLOVES

★★★

Protective gloves against cold, made of 3 mm thick textile neoprene.

- Tear resistant stitching and glue seal along seams for durability
- Knuckle inserts and flexible curved shape for ultra comfort
- Non slip palm with screened-on silicone for secure grip
- Adjustable Velcro wrist strap

Part No.	Size	Hand circumference	Material	Pack	
GLO2S	S (7)	18 – 19 cm	Neoprene, textile	5	
GLO2L	L (8)	20 – 21 cm	Neoprene, textile	5	
GLO2X	XL (9)	22 – 23 cm	Neoprene, textile	5	
GLO2Z	XXL (10)	24 – 25 cm	Neoprene, textile	5	



NEOPRENE GLOVES

★★

Protective gloves against cold. Rubber Neoprene.

- Tear resistant stitching and glue seal along seams for durability
- Soft and comfortable on inside
- Non slip palm for secure grip
- Adjustable Velcro wrist strap

Part No.	Size	Hand circumference	Material	Pack	
GLOV1	S (7)	18 – 19 cm	Neoprene, rubberized	10	
GLOV2	L (8)	20 – 21 cm	Neoprene, rubberized	10	
GLOV3	XL (9)	22 – 23 cm	Neoprene, rubberized	10	
GLOV4	XXL (10)	24 – 25 cm	Neoprene, rubberized	10	

While stocks last



POLE GLOVES

★★★

Premium quality gloves for all-year-round protection.

- Ergonomic design for full hand movement and pole control
- Non-slip textured reinforcement panels on palm and fingers
- Teflon coated fabric for superior water resistance, with triple seams
- Adjustable velcro wrist strap with hook and loop for secure fitting
- Webbing loop for added ease while putting glove on

Part No.	Size	Hand circumference	Material	Pack	
GLOC1	S (8)	19 – 21 cm	Blended fabric*	5	
GLOC2	L (9)	22 – 23 cm	Blended fabric*	5	
GLOC3	XL (10)	23 – 24 cm	Blended fabric*	5	
GLOC4	XXL (11)	24 – 26 cm	Blended fabric*	5	

* Palm: 50 % polyester, 50 % polyethylene; Back of the hand: 50 % nylon, 50 % polyethylene

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > BELTS, POUCHES



ErgoTec® BELT

Solid belt for carrying tool holders. 4 eyes, padding, quick release.

Part No.	Size	Material	Pack
BSTBT	80 – 130 cm	nylon	1



ErgoTec® POUCH

3 compartments. Dry and damp cloths can be stored separately. Front pocket with flap and Velcro fastener.

Part No.	Size	Material	Pack
BSPOU	30 x 37 cm	nylon	1



While stocks last

ErgoTec® BOTTLE HOLDER

Perfect for carrying along cleaning agents, soap, etc.

Part No.	Size	Material	Pack
BSBTH	10 x 18 cm	nylon	1



ErgoTec® DOUBLE HOLSTER

Strong leather holster with two loops. With snap fasteners for easy attachment to belt.

Part No.	Size	Pack
BSDHR	8 x 13 cm	1



While stocks last

ErgoTec® PERSONAL BAG

For personal items, like note pad, mobile phone, pen. Includes key hook.

Part No.	Size	Material	Pack
BSPBG	15 x 20 cm	nylon	1

ErgoTec® BELT SYSTEM



While stocks last

ErgoTec® BELT SYSTEM MASTERKIT

Complete Kit
Belt, Pouch, Personal Bag, Scraper Holster, Bottle Holder, Double Holster

Part No.	Pack
BSMKT	1



BUCKET ON A BELT

Durable plastic holder for squeegee, washer, scraper.

- Conveniently holds all important tools
- Ideal for use on ladders, indoors or in narrow spaces
- Clip lock for quick fastening

Part No.	Info	Pack	
BB010	NINJA: 1 washer, 2 squeegees, 1 scraper	5	
BB020	Classic: 1 squeegee, 1 washer, 1 scraper	5	



CANVAS APRON

Made of solid nylon with 2 large compartments for cloths, scraper, etc.

- Keeps essential tools protected
- Great for working at height
- Includes adjustable belt

Part No.	Material	Pack	
SRZ10	nylon	10	



THE BELT

Solid nylon belt for attaching bucket and other tools on a belt.

- Convenient loops for tools (squeegee, etc.)
- Clip lock for quick fastening
- Adjustable length

Part No.	Material	Pack	
UB000	polypropylene, nylon	5	



HENRY'S DOUBLEHOLSTER

Leather tool holder, two compartments. For fastening to belt.

- Convenient for holding squeegees and washers
- Extremely solid quality leather
- Fits on most belts

Part No.	Pack	
HT000	5	

WINDOW CLEANING > TRADITIONAL WINDOW CLEANING > BUCKETS, SOAP



BUCKET 28 L

Large bucket for glass cleaning.

- Holds 45 cm squeegee
- Features measuring marks and 2 drains
- Available optional accessories: lid, castors, bucket sieve

Part No.	Capacity (ltr)	Pack
QB220	28 l	5



UNGER's GEL

Window cleaning soap for direct application onto washer.

- Economic, covers large areas
- Excellent cleaning power
- Apply directly onto washer

Part No.	Capacity (ltr)	Pack
FG050	0,5 l	10



RUB OUT

Professional glass cleaner. Compact bottle with easy dispense cap.

- Removes hard water stains, rust, mineral deposits, limescale and soap residue
- Tough on stains, gentle on glass

Part No.	Capacity (ltr)	Pack
RUB20	0,5 l	12

BUCKET 18 L

Bucket for glass cleaning.

- Lightweight and easy to handle
- Metal handle with plastic enclosure
- Includes plastic holder for washer and squeegee

Part No.	Content	Info	Pack
QB120	18 ltr	Complete w/ accessories	10



QB080



QB070

ACCESSORIES FOR BUCKET 28 L

Part No.	Product	Pack
QB060	Bucket Sieve	5
QB080	Lid	5
QB070	Set of Castors (1 Set = 4 castors)	5 Sets



UNGER's LIQUID

Window cleaning soap, liquid. Concentrate. Mixing ratio 1:100.

- Economic and eco-friendly
- Excellent cleaning power
- Simply add to water

Part No.	Size	Pack
FR100	1 ltr	12
FR500	5 ltr	2



GHS/CLP MARKING

UNGER products are manufactured and marked in accordance with the CLP regulation (EG) no. 1272/2008 where applicable.

WINDOW CLEANING SETS



Quality Tools for Smart Cleaning



Illustration similar

ErgoTec® SET

★★★

Top of the range complete glass cleaning set in a solid nylon bag.

- Contains comprehensive selection of ErgoTec® and other UNGER tools
- Compact for transportation

Content

MF40L	(3x) MicroWipe Microfibre Cloth, 40 x 40 cm
ETG00	ErgoTec® Squeegee Handle
NS350	StripWasher® Micro Sleeve, 35 cm
EH350	ErgoTec® T-bar, 35 cm
SH000	ErgoTec® Scraper, 10 cm
PCLIP	Plastic Clips
RR920	Soft Rubber, 92 cm
SR03K	ErgoTec® Safety Scraper
NE250	S-Channel with Soft Rubber, 25 cm
NE350	S-Channel with Soft Rubber, 35 cm
NE450	S-Channel with Soft Rubber, 45 cm
EZ250	OptiLoc Telescopic pole, 2 sections, 2,50 m
	2x UNGER Liquid Samples

Part No.	Pack
ETSET	1



TRANSET

★★

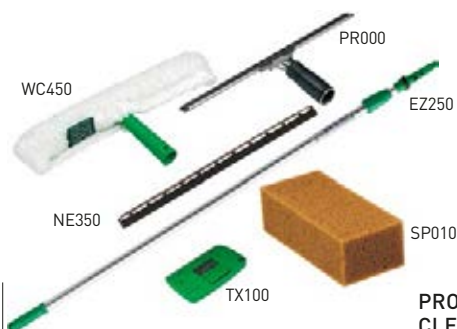
Cleaning set in convenient nylon bag.

- Contains selection of UNGER window cleaning tools
- Ideal for new starter in window cleaning
- Compact for transportation

Content

PR000	Pro-Squeegee Handle
NE250	S-Channel with Soft Rubber, 25 cm
NE350	S-Channel with Soft Rubber, 35 cm
NE450	S-Channel with Soft Rubber, 45 cm
RR920	Soft Rubber, 92 cm
WC350	StripWasher® Original Strip Pac, 35 cm
EZ250	OptiLoc Telescopic Pole, 2 sections, 2,50 m
FIX10	FIXI Clamp
HBR00	FIXI Brush
SP010	FIXI Sponge
SR20K	Safety Scraper
TX100	ProTRIM10 Scraper

Part No.	Pack
TR500	1



PRO GLASS CLEANING SET

★★

Starter kit with all essential UNGER window cleaning tools.

- Ideal for new starter in window cleaning

Content

EZ250	OptiLoc Telescopic Pole, 2 sections, 2,50 m
WC450	StripWasher® OriginalStripPac, 45 cm
WS450	StripWasher® Original Sleeve, 45 cm
PR000	Pro Squeegee Handle
NE350	S-Channel with Soft Rubber, 35 cm
NE450	S-Channel with Soft Rubber, 45 cm
RR92H	Replacement Hard Rubber, 92 cm
TX100	ProTRIM10 Scraper
SP010	Sponge for FIXI Clamp

Part No.	Pack
PWK00	1

WINDOW CLEANING SET

★★★

The practical Starter Set.

Part No.	Pack
AK013	1



ADVANCED WATERFLOW KIT FOR TELESCOPIC POLES

★★★

Content:

NL27A	nLite® Waterfed Brush 27 cm
AFAET	Thread adapter for Alu-Poles
FTG05	HiFlo Plastic angle adapter, adjustable
NL11G	nLite® Water hose 11 m, cpl. w/ connector
HCDEU	HiFlo Soap Dispenser (for UNGER Liquid)
FR100	UNGER Liquid, Cleaning Soap 1 l

Part No.	Pack
HF10G	1

INDOOR WINDOW CLEANING

NEW

STINGRAY 

The most efficient indoor cleaning tool ever.

Recent research indicates that when cleaning indoor windows, cleaning professionals face 2 key challenges – efficiency and safety. Current tools lead to time consuming issues, like re-arranging of furniture and reaching high or unusually positioned windows*. Current solutions to these issues lead to more wasted time and the risks associated with the use of ladders. Moreover, for the least experienced need for intensive staff training create additional problems. Introducing the revolutionary **UNGER Stingray**, the most efficient indoor cleaning tool ever. It cleans windows up to 25 % faster and uses up to 39 % less chemical than traditional methods.**

Inspired by the power and glide of its namesake, the **UNGER Stingray** utilized several patent pending features to overcome the challenges associated with indoor window cleaning and delivers outstanding cleaning results. From its modular pole system that allows the cleaner to easily overcome obstacles to the ideal head design which ensures the cleaning solution is always in the right spot and uses a triangular shape to maximize the surface area coverage while cleaning edges and corners.

UNGER Stingray, the solution to your indoor window cleaning needs.

*Source: Market Research – Professional Window Cleaners. Germany/UK, 2015, SR Strategy Routes

**compared to traditional spray and cloth cleaning [Source: "Interior Glass Cleaning", 16.07.15, Sabine R. Mück, Hygiene Consult Mück]

AGILE LIKE A RAY

The **UNGER Stingray** lives up to its namesake. Clean hard to reach areas and places with tremendous agility and surprising ease.



WINDOW CLEANING > INDOOR WINDOW CLEANING > STINGRAY SYSTEM



Quality Tools for Smart Cleaning

► FASTER

Speed up indoor glass cleaning up to 25 %**

- New **one step** "Apply and Clean" Technology
- New microfibre **TriPad** for simultaneous cleaning of windows & frames
- Enclosed spray nozzle design prevents over-spraying, eliminating drips, streaks and the rework associated with wet window sills
- 15 % larger pad size saves time via reduced frequency of pad change (compared to traditional pads like e.g. UNGER PHL20)

► ERGONOMIC AND SAFE

Comfortable and safe working up to 4 m

- Enclosed spray nozzle prevents inhalation of cleaning liquid
- Triangular pole shape facilitates enhanced grip for perfect control
- Stingray's weight distribution is towards the cleaning surface, so it is easy to use and minimizes back strain
- Battery powered sprayer helps to reduce operator fatigue

► TOTAL FLEXIBILITY

Mastering every challenge with a single tool

- Unique triangular **TriPad** shape makes it easy to clean corners and other hard to reach areas
- New **Easy-Click-Pole technology** – simply add on another pole extension to reach heights of up to 4 m!

► INCREDIBLE EASE-OF-USE

Professional results with minimal training

- Ready-to-use, easily replaceable pouches, pre-filled with top quality 3M Scotchgard™ professional glass cleaner
- Spray activation button on each **Easy-Click-Pole** as well as on the handheld unit – press & play!



WINDOW CLEANING > INDOOR WINDOW CLEANING > STINGRAY SYSTEM



Unrivalled efficiency offers business growth potential

The new **UNGER Stingray** system stands for excellent results even without professional window cleaning experience. Its highly intuitive design requires minimal operator training and it is suitable for most washable surfaces!

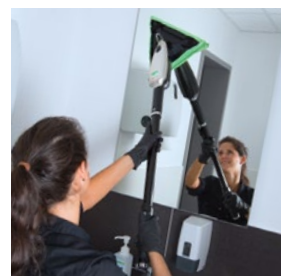
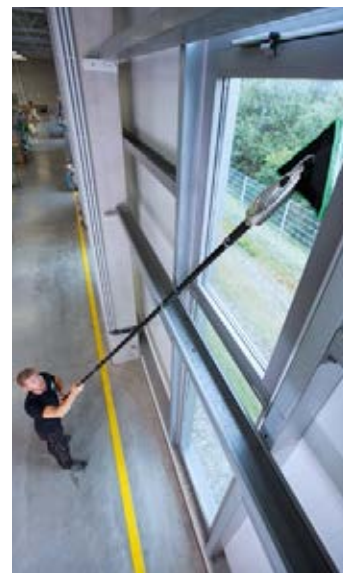
Increased productivity, greater cost efficiency and sustainability because:

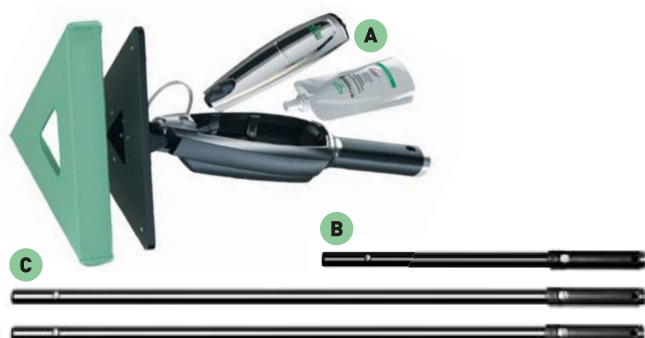
- ▶ It speeds up indoor glass cleaning by up to 25 %*
- ▶ It ensures 39 % less liquid consumption*
- ▶ Numerous ergonomic benefits improve workers' comfort and safety – less downtime and health risks!

Multitude of applications: indoor glass & windows, glass partitions, showcases, mirrors, glass refrigerator doors, elevators, washable doors & tables, etc.

Your investment will pay off within a few months!

*compared to traditional spray and cloth cleaning (Source: "Interior Glass Cleaning", 16.07.15, Sabine R. Mück, Hygiene Consult Mück)





Stingray INDOOR CLEANING KIT 330

A B C

Stingray with one short + two long Easy-Click-Poles

Including:

Stingray Handheld Unit, 1 x Stingray Cleaning Liquid Pouch, 1 x MicrofibreTriPad, 2 x AA batteries* + Easy-Click-Poles: 1 x 0,63 m + 2 x 1,24 m

Part No.	Size	Weight	Pack
SRKT3	up to 3,27 m length (extended)	1900 g (Complete System)	1

Stingray INDOOR CLEANING KIT 100

A B

Stingray with short Easy-Click-Poles

Including:

Stingray Handheld Unit, 1 x Stingray Cleaning Liquid Pouch, 1 x MicrofibreTriPad, 2 x AA batteries* + Easy-Click-Pole: 1 x 0,63 m

Part No.	Size	Weight	Pack
SRKT2	up to 1,00 m length (extended)	1200 g (Complete System)	1

Stingray INDOOR CLEANING KIT HANDHELD

A

Basic handheld unit

Including:

Stingray Handheld Unit, 1 x Stingray Cleaning Liquid Pouch, 1 x MicrofibreTriPad, 2 x AA batteries*

Part No.	Size	Weight	Pack
SRKT1	0,51 m	750 g	1



Stingray EASY-CLICK-POLE LONG

Extends the Stingray unit by 1,24 m

- Triangular shape for enhanced grip
- Light, rigid aluminium
- Including: Easy-click mechanism and spray activation button

Part No.	Size	Weight	Pack
SREXL	1,24 m	440 g	1



Stingray EASY-CLICK-POLE SHORT

Extends the Stingray unit by 0,63 m

- Triangular shape for enhanced grip
- Light, rigid aluminium
- Including: Easy-click mechanism and spray activation button

Part No.	Size	Weight	Pack
SREXS	0,63 m	270 g	1



Stingray GLASS CLEANING TRIPAD

Microfibre Cleaning Pad

- Triangle shape for perfect reach into corners
- Superb cleaning power thanks to premium microfibre
- Elastic bands for secure fit and easy assembly
- 5 pads in a box (= minimum order quantity)
- 70 % polyester, 30 % polyamide

Part No.	Size	Material	Pack
SRPD1	25 x 25 x 25 x 0,25 cm	Microfibre	5

*Powered by 2 x AA batteries lasting out approx. 6 months based on 11.000 cycles of one-second pushes

**at low to medium polluted surfaces

STINGRAY GLASS CLEANER

The perfect cleaning liquid for all glass surfaces with excellent cleaning power.

Stingray Glass Cleaner not only cleans, but also makes glass easier to clean over time. **Scotchgard™ Protection** makes it more effective than leading glass cleaners at removing fingerprints, lipstick – even permanent marker. **Stingray Glass Cleaner** is fast drying and streak free.

- Works like a heavy-duty glass cleaner without the high levels of solvent or ammonia
- Cleans and protects glass and other silica-based surfaces like uncoated granite, ceramic and porcelain
- Keeps glass looking clean longer
- **Stingray Glass Cleaner** has <0.1 % VOC
- Reduces fogging on mirrors and other glass surfaces
- Also cleans but may not protect other surfaces such as stainless steel, chrome, aluminum, plastic, acrylic glass, etc.



Stingray GLASS CLEANER

Professional Glass Cleaner powered by 3M Scotchgard™

- Easy gliding, quick drying – high efficiency
- Cleaning power up to 150 m² **
- 24 pouches (a 150 ml) in a box (= minimum order quantity)

Part No.	Content	Weight	Pack
SRL01	150 ml	270 g	24

WINDOW CLEANING > INDOOR WINDOW CLEANING > INDOOR WINDOW CLEANING SYSTEM



EFFECTIVE WINDOW CLEANING

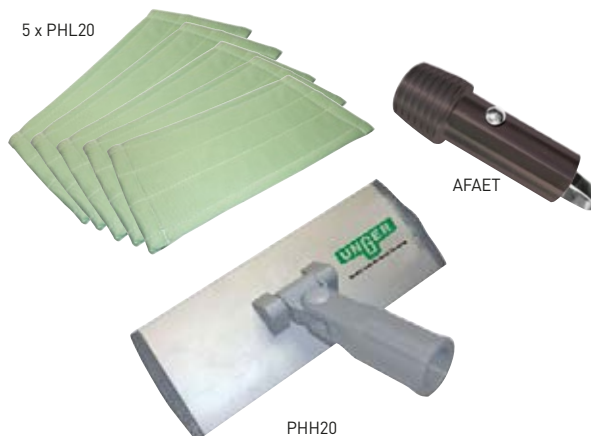
THE UNGER INDOOR WINDOW CLEANING SYSTEM

Easy to use, professional system, ideal for every day cleaning, as well as polishing of glass and mirrors. Perfect for any user without window cleaning experience. Can be used with **UNGER** aluminium poles for safe and quick cleaning of high level windows, skylights and glass balustrades.

- Combine with **UNGER** telescopic to reach heights of up to 10 m safely from the floor
- Minimum water required - no spills, no slips, no water wastage!
- Time saving one step cleaning
- No need for chemicals - save money and safer for operator and the environment!

STARTER SET

5 x PHL20



INDOOR CLEANING STARTER SET

Content:
 PHL20 (5 x) Microfibre Cleaning Pad 20 cm
 PHH20 Padholder 20 cm
 AFAET Thread adapter for Alu-Poles

Part No.	Pack
PFK20	1



MICROFIBRE CLEANING PAD

Extra smooth, easy glide microfibre pad with velcro for regular cleaning.

- Removes dust, fingerprints, grease and other light dirt from glass
- Strong velcro backing for attaching to Pad Holders PHH20 and PHD20

Part No.	Size	Material	Pack
PHL20	20 cm	Microfibre*	5



MICROFIBRE POLISH PAD

Microfibre polish pad for regular cleaning.

- Removes dust, fingerprints, grease and other light dirt from glass and mirrors
- Strong Velcro backing for attaching to Padholder PHH20 & PHD20

Part No.	Size	Material	Pack
PHP20	20 cm	Microfibre*	5



MICROFIBRE WASH PAD

Microfibre wash pad for periodic washing and heavy soil.

- 15 mm long, thick fibres easily remove tough dirt
- Strong Velcro backing for attaching to Padholder PHH20 & PHD20

Part No.	Size	Material	Pack
PHW20	20 cm	Microfibre**	5



SCRUB PAD, WHITE

Abrasive scrub pad for removing tough dirt.

- Removes stubborn dirt, ideal for outdoor cleaning
- Reliably sticks to the backing of Padholder PHH20 & PHD20

Part No.	Size	Material	Pack
OPS20	20 cm	100 % polyester	10

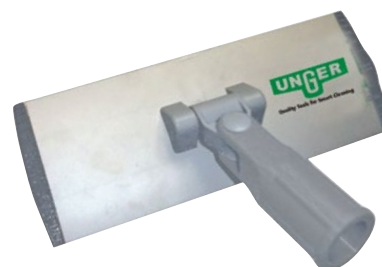


PAD HOLDER (HANDHELD)

Aluminium handheld holder for indoor cleaning pads.

- Velcro backing for attaching the pads
- Designed to enable perfect pressure application for thorough and precise cleaning
- Easy to use

Part No.	Size	Pack
PHD20	20 cm	5



PAD HOLDER

Aluminium swivel head holder for indoor cleaning pads.

- Velcro backing for attaching the pads
- Swivel function allows access to hard to reach places
- Fits securely on all UNGER poles with thread

Part No.	Size	Pack
PHH20	20 cm	5



THREAD ADAPTER FOR ALU-POLES

Anodized aluminium adapter for fitting the Padholder to aluminium poles.

- Fits into any UNGER aluminium pole with 21mm diameter – just click in
- Enables connection between aluminium poles and MultiLink Goosenecks, Extensions and Brushes

Part No.	Pack
AFAET	5

* 70 % polyester, 30 % polyamide

** 100 % polyethylene

LITTER PICKING & REACHING AIDS



NiftyNabber® GRABBER AND BAGGER SYSTEM

Perfect for eco-friendly waste removal, indoor and outdoors, in industrial or domestic environment. Durable, ergonomic and reliable **UNGER** grabbers are also perfect for easy reach and bend-free pick up of many daily objects.



NiftyNabber® BAGGER

A durable and weatherproof 180 l waste carrier that is a great multi-tasking alternative to plastic bags and the perfect companion to UNGER's super tough litter pickers.

Robust

Can be pulled across the floor, asphalt or ground due to solid plastic bottom and carry loops. Protects plastic bags from splitting.

Practical

Collapses flat and fastens with Velcro for compact storage and transportation. Can be used indoors or outdoors as a temporary waste disposal or recycling unit during the event.

Ergonomic

Allows to avoid unnecessary bending or lifting heavy bags. Always open for easy and safe access without touching litter. Made of robust material for reduced injury risk from sharp waste.

Part No.	Size	Colour	Pack	
NB300	180 l	●	1	
NB30B	180 l	●	1	



PAPER PICKER

A lightweight tool with a strong metal pin for removing debris such as paper and cans.

Ergonomic Design

No bending or back strain.

Handle design positions arm and hand in the optimal position for reaching debris.

Carbon Steel Shaft

Lightweight and rust resistant.

Strong Metal Pin

Long enough for picking up several pieces of debris at once.

Will punch through and hold even thick, aluminium cans.

Part No.	Size	Pack	
PPPP0	100 cm	10	
PINP0	Replacement Pin Plugs for Picker	10	



NiftyNabber® TRIGGER GRIP

Durable litter picker with a strong internal metal bar, a 360° fully rotating head and a highly responsive trigger grip handle. Available in 4 lengths.

Robust metal bar inside

For extra durability and grab power. Will not stretch or snap, like string mechanism on other grabbers.

Trigger Grip Handle

Responsive mechanism for greater comfort. Made with glass-reinforced plastic for increased durability.

Rubber Claws

Reliable grip even with most difficult shapes. Opens up to 13 cm wide and holds items up to 4,5 kg.

Rotating Head

Access narrow areas with 360° rotating head. Locks securely every 90°.

Aluminum Shaft

Durable and rust-resistant. Lightweight, designed to decrease fatigue.

Part No.	Size	Pack	
NT060	63 cm	5	
NT080	83 cm	5	
NT090	93 cm	5	
NT100	102 cm	5	

NiftyNabber® PRO

A heavy duty litter picker with a strong internal metal bar, powerful claws and robust steel shaft. Available in 4 lengths, including 2,50 m long reach version!

Steel Claws

Molded rubber overlay for an extra-secure grip.

Powerful hold of small or oddly shaped objects – broken glass, cigarettes or coins. Opens up to 15 cm wide.

Rugged Design

Shaft made from durable steel with rust resistant coating for dependable use over long time. Strong enough for heavy-duty work, light enough to protect from back and arm strain. Overall steel construction wears well under the rigours of every day use.

Part No.	Size	Pack	
NN400	52 cm	5	
NN900	97 cm	10	
NN140	130 cm	5	
NN960	250 cm	6	


MAINTENANCE CLEANING

Professional Tools for daily and project cleaning tasks.






Efficient, Ergonomic, Hygienic

UNGER Maintenance Cleaning tools provide simple solutions for many cleaning tasks. They help professionals to perform their job better, faster and easier.

Their ergonomic design and state of the art functionality ensure full compliance with modern cleaning requirements.

 **COLOUR CODING** Products are coded or can be coded for usage in specific area.

RECOMMENDED USAGE

-  Bathroom Cleaning
-  Wash basin and Mirror
-  Food and Bar Area
-  General Low Risk Area
-  Bespoke or Site Specific



The World of Maintenance



FLOOR CLEANING



UNGER Floor Care & Maintenance Tools provide simple solutions for many cleaning tasks. This range includes Floor Squeegees, Floor Scrapers and a Waxing System.

WaterWand
SmartColor
AquaDozer®



BATHROOM CLEANING



The **UNGER** Bathroom and Toilet Cleaning System consists of ideally matched and ergonomically designed tools with an effective flow process for highly hygienic daily and project cleaning. The System is colour coded in red to prevent bacterial cross contamination.

ErgoTec®
NiftyNabber®

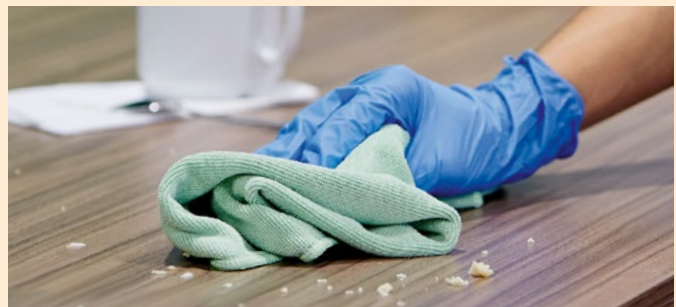


DUSTING & BRUSHES



A wide range of helpful and innovative dusting tools. Can be used as hand tools or on telescopic poles. Always work safe and quick from the ground.

StarDuster®



MICROFIBRE CLOTH SYSTEM



Five-colour system for optical coding optimises cleaning by dividing tools and areas. Matching coded tools assigned to specific cleaning areas prevent dangerous bacterial contamination.

SmartColor
MicroWipe

MAINTENANCE CLEANING > FLOOR CARE > FLOOR SQUEEGEES



SANITARY SQUEEGEE

Squeegee with twin foam rubber blade, black. ACME thread.

- Plastic body for increased hygiene
- Acid-proof, rust-proof, scratch-proof
- With splashguard

Part No.	Size	Pack	
PM45A	45 cm	10	
PM55A	55 cm	10	



SANITARY COMBI BRUSH

2 tools in one: Brush with polypropylene bristles and squeegee with twin foam rubber blade, black. ACME thread.

- Scrubber to remove dirt
- Foam rubber blade for drying floors and joints
- Very sturdy, but lightweight

Part No.	Size	Pack	
PB45A	45 cm	10	
PB55A	55 cm	10	



WaterWand STANDARD

For lighter jobs with double-lip black foam rubber.

- Great for cleaning joints
- Sturdy metal body
- For streak free floor drying

Part No.	Size	Pack	
MW450	45 cm	10	



WaterWand HEAVY DUTY RED

Reinforced version for heavy duty jobs with double-lip red foam rubber, oil and acid resistant.

- Great for cleaning joints
- Sturdy metal body
- For streak free floor drying

Part No.	Size	Pack	
HW550	55 cm	10	
HW750	75 cm	10	



WaterWand ACME THREAD INSERT

For all WaterWand squeegees.

Part No.	Pack	
FWAI0	10	



AquaDozer®

For heavy duty jobs, black EPDM rubber. Ideal for industrial environment.

- Sturdy construction
- Solid handle socket
- Optimal for industrial application

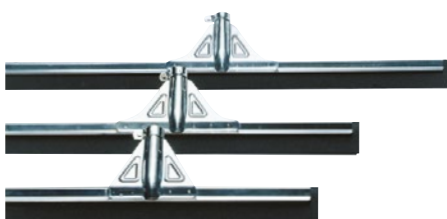
Part No.	Size	Version	Pack	
FP600	60 cm	straight	6	
FP900	90 cm	straight	6	
FP60C	60 cm	curved	6	
FP90C	90 cm	curved	6	



**AquaDozer®
SPARE RUBBER**

Black EPDM rubber, for all AquaDozer®.

Part No.	Size	Pack	
FRR60	60 cm	10	
FRR90	90 cm	10	



WaterWand HEAVY DUTY

Reinforced version for heavier jobs with double-lip black rubber.

- Great for cleaning joints
- Sturdy metal body
- For streak free floor drying

Part No.	Size	Pack	
HM450	45 cm	10	
HM550	55 cm	10	
HM750	75 cm	10	



**AquaDozer®
ACME THREAD INSERT**

For all AquaDozer®.

Part No.	Pack	
FAAI0	10	

FLOOR HANDLES



Quality Tools for Smart Cleaning

HANDLE DIAGRAM

				
	AL140	AL14A	AL14T	AL14G
AquaDozer®				
with ACME thread insert		●	●	
without thread insert			●	
WaterWand				
with ACME thread insert		●	●	
without thread insert	●			●
SANITARY & COMBI		●	●	



ProAlu 1,5° HANDLE, 3 SECTIONS KNOCKDOWN

Heavy duty handle with rigid, fluted aluminium construction.

- Aluminium, lightweight and solid
- 3 individual sections assemble into one long handle
- Optimal for WaterWand

Part No.	Size	Pack	
AL14G	1,40 m	5	



ProAlu 1,5° HANDLE

Handle with 1.5° taper socket.

- Lightweight and solid aluminium
- Handle Ø 25 mm
- Optimal Sanitary and Sanitary Combi Brush

Part No.	Size	Pack	
AL140	1,40 m	10	



ProAlu ACME

Handle with ACME threaded zinc alloy tip.

- Lightweight and solid aluminium
- Handle Ø 25 mm
- Optimal for WaterWand Squeegee

Part No.	Size	Pack	
AL14A	1,40 m	10	



ProAlu 3,0° HANDLE

Handle with 3.0° taper socket combined with ACME threaded zinc alloy tip.

- Lightweight and solid aluminium
- Handle Ø 25 mm
- Optimal for WaterWand Squeegee

Part No.	Size	Pack	
AL14T	1,40 m	10	



MOP HANDLE

For Standard Mops. 1,40 m, Ø 23 mm.

- Lightweight and solid aluminium
- Ø 23 mm, length 1,40 m
- To snap in mop holders

Part No.	Size	Pack	
MH140	1,40 m	20	

MAINTENANCE CLEANING > FLOOR CARE > MAINTENANCE TOOLS



ERGO DUST PAN

For quick and thorough waste removal.

- Ergonomic and convenient
- Dust pan opens when raised, and retains the waste
- Telescopic handle (EDTBG), can be adjusted to suit individual height

Part No.	Size	Type	Pack	
EDTBG	83 x 30 cm	Telescopic	6	
EDPBR	83 x 30 cm	Standard	6	



WonderWaxer

Complete wax applicator with 1.40 m handle.

- For applying wax to wooden floors
- Convenient operation while standing
- Swivel head, replaceable sleeve with snap fasteners

Part No.	Size	Material	Pack	
QS140	40 cm	Blended fabric*	10	

WonderWaxer REPLACEMENT SLEEVE

Part No.	Size	Material	Pack	
QS010	40 cm	Blended fabric*	10	



WONDER WAXER

The super light and flexible WonderWaxer is ideal to reach almost all floor areas. Its flexible head can be angled as required. The sleeve is replaceable and due to a special holding fixture sits firmly on the T-bar. Makes a perfect team, together with the large bucket.

* Support material: 100 % polypropylene; Fibres: 68 % polyacrylic, 32 % polyethylene

FLOOR SCRAPERS



Quality Tools for Smart Cleaning



FLOOR SCRAPER LIGHT DUTY

For light jobs, with 1.20 m ergonomic bi-component handle.

- Convenient operation while standing
- Reversible sharp/blunt edge blade

Part No.	Handle	Blade	Pack
LH120	1,20 m	10 cm	10

Stainless Steel FloorScraper Blades 10 cm – Double sided blade sharp/dull.

RB100	1 Dispenser = 10 blades	10 disp.
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FLOOR SCRAPER MEDIUM DUTY

For medium duty jobs, with 1.50 m aluminium handle.

- For industrial scraping
- Reversible sharp/blunt edge blade

Part No.	Handle	Blade	Pack
MDSC0	1,50 m	15 cm	10

FloorScraper Blades 15 cm – Double-edged blade sharp/dull.

MDSB0	1 Dispenser = 10 blades	5 disp.
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FLOOR SCRAPER HEAVY DUTY

For heavy duty jobs, with 1.50 m steel handle.

- Convenient operation while standing
- Reversible sharp/blunt edge blade

Part No.	Handle	Blade	Pack
HDSS0	1,50 m	20 cm	1

Floor Scraper Blades 20 cm – Double-edged blade sharp/dull

Part No.	Info	Pack
HDSB0	1 Dispenser = 10 blades	5 disp.



HANG UP

All-purpose tool holder. Tools are inserted from front.

Available in 2 versions (3 or 6 holders).

- Tools snap into rubber rolls in front
- Practical and ideal for quick access
- Simply attach to wall, using dowels

Part No.	Size	Info	Pack
H0350	35 cm	3 holders	5
H0700	70 cm	6 holders	5



HOLD UP

Tools are inserted from the bottom and held in place by strong rubber grips.

- Simply attach to wall, using dowels
- Equipped with small hooks on front to hang up smaller tools

Part No.	Size	Pack
HU450	45 cm	5
HU900	90 cm	5

MAINTENANCE CLEANING > FLOOR CARE > CLEANING CART



A HIGHER LEVEL OF CLEANING AND PRODUCTIVITY

An organized cleaning cart increases productivity significantly. The **SmartColor Cleaning Cart** was developed with many suggestions from users and offers many innovative features, such as the flexible clip system for hanging tools. Equip the **SmartColor Cleaning Cart** individually with our **SmartColor** cleaning equipment, such as dual bucket, mops, mopholder and microfibre cloths. Thus, you are perfectly equipped for daily cleaning challenge.



Storage Module doubles the supply space on the cart. Workers can re-supply multiple restrooms without lost time returning to the supply area.



Nothing sticks out beyond base of cart. Workers can move the cart through doorways, on/off elevators, without any tools catching on doorways, etc.



The base of the cart is designed to catch drips from cleaning tools. This allows workers to work quickly without the worry of staining clean floors.



Wheel wells improve bucket stability and hold bucket in place. Helps eliminate messy spills when the cart hits thresholds, bumps into a frame.

SmartColor CLEANING CART

Complete transportation cart including vinyl trash bag, tool clips and holders

- Drip tray: the base of the cart acts as a drip tray catching excess liquid
- Ergo Handrail: No matter which side of the cart you're on, you can push and pull with ease
- Clip System: Tools are always where they need to be, and always clipped on securely

Part No.	Content	Pack	
RRCRT	Cart complete	1	
RRMOD	Storage module	1	

Delivery time on request



DOUBLE BUCKET & MOP HOLDER



Quality Tools for Smart Cleaning



SmartColor COMBO 30 L



Complete dual bucket with press.

- Two compartments keep clean and dirty water separated
- 2 convenient handles keeps bucket straight
- Emptying via drain spout and dump spout
- Labels included for colour coding
- Complete with vertical press
- Available accessories: Adapter hose WH180, side bucket SMSBG

Part No.	Content	Colour	Pack
COMBG	30 L	●	1
COMBR	30 L	●	1



SmartColor SIDE BUCKET



Additional storage on dual bucket.

- Labels included for colour coding
- Snaps to side of UNGER SmartColor Combo 30 L COMBG or COMBR

Part No.	Colour	Pack
SMSBG	●	1



SmartColor COMBO 15 L



Compact complete dual bucket with press.

- Two compartments keep clean and dirty water separated
- Convenient handle, keeps bucket straight
- Labels included for colour coding
- Complete with vertical press
- Available accessories: Adapter hose WH180, side bucket SMSBG

Part No.	Content	Colour	Pack
COMSG	15 L	●	1
COMSR	15 L	●	1



SmartColor FLAT MOP MOPHOLDER



Swivel head mop holder with the new "no spin" design.

- UNGER mops fit securely with holding clips and can stay on during wringing
- Large surface provides more direct cleaning contact, more scrubbing pressure
- Reduces cleaning time by up to 10 % and reaches in all corners
- Folds at the push of a button, for wringing or replacing mop
- Handle socket for cones or handles with 23 and 25 mm diameter, respectively

Part No.	Size	Colour	Pack
SM40G	40 cm	●	5
SM40R	40 cm	●	5



EASY ADAPTER WATERHOSE

Heavy duty adapter hose for dual bucket.

- Fits on every standard water tap
- Allows for convenient filling of bucket on-site

Part No.	Size	Pack
WH180	180 cm	10

MAINTENANCE CLEANING > FLOOR CARE > MICROFIBRE MOPS



SmartColor MICRO MOP 15.0

Microfibre mop for severe contamination and rough floors.

- 15 mm long fibres, ideal for tiles and stone floors
- Cut microfibre for improved dirt absorption and streak-free cleaning
- Reduces bacterial contaminations up to 96 %
- Holds 6 times its own weight in water – manages large areas
- Machine washable up to 500 times
- Available in 4 colours for proper colour coding
- Fits on UNGER flat mop holder SM40G

Part No.	Size	Colour	Material	Pack
MM40R	40 cm	●	Microfibre*	5
MM40Y	40 cm	●	Microfibre*	5
MM40G	40 cm	●	Microfibre*	5
MM40B	40 cm	●	Microfibre*	5



SmartColor MICRO MOP 7.0

Microfibre mop for medium contamination and rough floors.

- 7 mm long fibres – ideal for floors with rough surface and flat joints
- Cut microfibre for improved dirt absorption and streak-free cleaning
- Reduces bacterial contaminations up to 96 %
- Holds 6 times its own weight in water – manages large areas
- Machine washable up to 500 times
- Fits on UNGER flat mop holder SM40G

Part No.	Size	Colour	Material	Pack
MD40R	40 cm	●	Microfibre*	5
MD40Y	40 cm	●	Microfibre*	5
MD40G	40 cm	●	Microfibre*	5
MD40B	40 cm	●	Microfibre*	5

NEW COLOUR



SmartColor DAMP MOP

Microfibre mop for damp cleaning of smooth floors.

- Optimal in areas that need to dry quickly
- Cleans streak-free and uniformly
- High loop density for high absorption and low moisture release
- Machine washable up to 500 times
- Fits on UNGER flat mop holder SM40G

Part No.	Size	Colour	Material	Pack
DM40R	40 cm	●	Microfibre**	5
DM40Y	40 cm	●	Microfibre**	5
DM40G	40 cm	●	Microfibre**	5
DM40B	40 cm	●	Microfibre**	5

* Support material: 100 % polyethylene; Fibres: 100 % polyester

** Support material: 100 % polyester; Fibres: 100 % polyester



SmartColor SPILL MOP 1 L

Microfibre mop for absorption of large amounts of liquid.

- 14 mm long microfibre, extra-large surface
- Absorbs up to 1 l liquid immediately
- Machine washable up to 500 times
- Fits on UNGER flat mop holder SM40G

Part No.	Size	Colour	Material	Pack
MA45R	47 x 21 cm	●	Microfibre**	5
MA45Y	47 x 21 cm	●	Microfibre**	5
MA45G	47 x 21 cm	●	Microfibre**	5
MA45B	47 x 21 cm	●	Microfibre**	5



SmartColor DAMP MOP PADHOLDER

- Swivel head – glides easily across floors
- Features Velcro backing for easy pad fitting
- Use with SmartColor DV40 Series damp mop pads

Part No.	Size	Pack
SV40G	50 cm	5



NEW COLOUR

SmartColor DAMP MOP PAD

Microfibre pad with high density looped pile for streak free results.

- Machine washable up to 500 times
- Uses less water and solution so floors dry quicker
- Attaches to PadHolder with Velcro backing
- Use with SV40G DampMop Pad Holder or any standard 40 cm pad holder

Part No.	Size	Colour	Material	Pack
DV40R	50 cm	●	Microfibre**	5
DV40Y	50 cm	●	Microfibre**	5
DV40G	50 cm	●	Microfibre**	5
DV40B	50 cm	●	Microfibre**	5

MOP HANDLES, BRUSHES, SETS



Quality Tools for Smart Cleaning



SmartColor MICROFIBRE STRING MOP

- Microfibre strings increase liquid and dirt absorption
- Looped ends provide greater floor coverage and control
- No tangling while laundering
- Faster and streak free floor drying
- Use with UNGER String Mop Holder Clip or any standard mop holder and handle
- Heavy duty weights 450 g, 32 strands; medium duty weights 310 g, 22 strands

Part No.	Colour	Quality	Material	Pack
ST30R	●	310 g	Microfibre***	5
ST30Y	●	310 g	Microfibre***	5
ST300	●	310 g	Microfibre***	5
ST30B	●	310 g	Microfibre***	5
ST45R	●	450 g	Microfibre***	5
ST45Y	●	450 g	Microfibre***	5
ST450	●	450 g	Microfibre***	5
ST45B	●	450 g	Microfibre***	5
FC02G	StringMop Holder			5



SmartColor TELEPOLE 250

Ergonomic aluminium telescopic handles.

- 2 sections, 2,50 m long. (2 x 1,25 m)
- Locks securely at individual height with screw mechanism
- Cone fits all UNGER mop holders
- Suitable for safe working at height from the ground
- Labels included for colour coding

Part No.	Size	Colour	Pack
EZ25G	1,30 – 2,50 m	●	10
EP24R	1,30 – 2,50 m	●	10



SmartColor MOPHANDLE

Lightweight aluminium mop handles.

- Mop holder snaps into place
- Solid and light, made of aluminium, with ergonomic plastic handle
- Labels included for colour coding

Part No.	Size	Ø	Colour	Pack
MH14G	1,40 m	23 mm	●	10
HH13R	1,30 m	21 mm	●	10
MS14G	1,40 m	21 mm	●	10
MS18G	1,30 – 1,80 m	25 mm	●	10



SmartColor FLOOR CLEANING SET

The convenient floor care sets.

- Complete with mop holder and telescopic handle
- SF14G also with large dual bucket
- Perfect for professional floor care
- Select a floor mop from our wide range of products.
- Pay attention to correct colour coding

Part No.	MS18G	SM40G	COMBG	Pack
SC14G	●	●		1
SF14G	●	●	●	1



SmartColor SWIVEL BRUSH & SmartColor SWIVEL CORNER BRUSH

Narrow brush for corners and edges.

- Hard polypropylene bristles remove even severe dirt
- Labels included for colour coding
- Flat pivoting head – easy to manoeuvre, easy on the back
- Bristles are at an angle, for optimal cleaning in corners and edges
- Handle socket with thread (ACME) for UNGER cone

Part No.	Size	Pack
SB20G	20 x 8 cm	10
CB20G	22 cm	10



ERGO WALL SQUEEGEE, 35 cm

- Light twin blade foam rubber – for drying tiles and grout lines
- Streak-free cleaning
- T-bar material made of acid proof polypropylene
- Ergonomic handle, detachable – squeegee also fits on pole

Part No.	Size	Colour	Pack
EW35G	35 cm	●	10
EW35R	35 cm	●	10

*** 80 % polyester, 20 % polyamide

MAINTENANCE CLEANING > MICROFIBRE CLOTH SYSTEM > MICROFIBRE CLOTHS



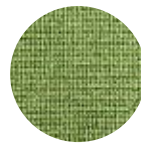
MICROFIBRE CLOTH SYSTEM

AVOID BACTERIAL CONTAMINATION!

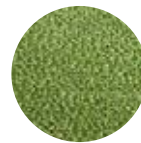
- Five-colour system for optical coding optimises cleaning by dividing tools and areas
- Matching coded tools assigned to specific cleaning areas prevent dangerous bacterial contamination
- Colour-coding facilitates the application of specific chemicals, thus protecting valuables like furniture and floor coverings

CLOTH SURFACE GUIDE

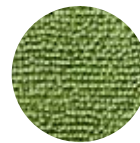
- Guidelines for choosing the right microfiber for the right task
- Optimization of your return on investment (ROI) by purchasing the best grade for your needs
- Best Quality – Microfiber available in each grade



**MICROWIPE
4000**



**MICROWIPE
2000**



**MICROWIPE
500**



**MICROWIPE
200**

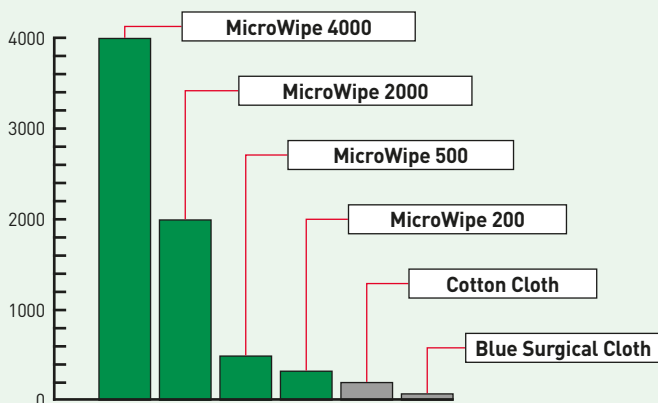


WHY A GRADING SYSTEM?

The range of cleaning products that microfiber may be used for is dictated by many qualities, including fibre thickness, length, finishing, abrasiveness, absorbency, cloth dimension, edging and quality manufacturing techniques. **UNGER** has established several

performance factors that have been tested, measured and validated by ASTM independent laboratories and other US standard industry tests. This criteria is designed to assist end users in the selection process when purchasing microfiber cloths.

DURABILITY



TEST DESCRIPTIONS

- **Durability (Wear Cycles)**** The higher the factor, the greater number of times the microfiber cloth can be moved across an abrasive surface before wearing through and degrading or developing holes
- **Scrub Factor (Abrasiveness)**** The higher the scrub factor, the better the performance of the cloth in removing dirt and bacteria from surfaces and microscopic crevices
- **Absorbency*** The higher the factor, the more liquid the cloth will absorb and hold
- **Wash Cycles** A higher number of wash cycles indicates the longevity of the cloth through machine wash and dry cycles before deteriorating

** ASTM Tests *Standard US Industry Tests

MICROFIBRE CLOTHS & SPRAYER



Quality Tools for Smart Cleaning



SmartColor MicroWipe

High quality microfibre cloth. Resistant against frequent commercial wash cycles.
Use the table below to choose the right grade to maximise the return on your investment.

Part No.	Size	Colour	Weight/m ²	Durability	Scrub Factor (Abrasive)	Absorbency	Wash Cycles	Material	Pack
4000									
MF40R	40 x 38 cm	Red	450 g	4000**	38**	1700 ml*	1500	Microfibre***	10
MF40J	40 x 38 cm	Yellow	450 g	4000**	38**	1700 ml*	1500	Microfibre***	10
MF400	40 x 38 cm	Green	450 g	4000**	38**	1700 ml*	1500	Microfibre***	10
MF40B	40 x 38 cm	Blue	450 g	4000**	38**	1700 ml*	1500	Microfibre***	10
2000									
MB40R	40 x 40 cm	Red	350 g	2000**	36**	1400 ml*	1000	Microfibre***	10
MB40J	40 x 40 cm	Yellow	350 g	2000**	36**	1400 ml*	1000	Microfibre***	10
MB400	40 x 40 cm	Green	350 g	2000**	36**	1400 ml*	1000	Microfibre***	10
MB40B	40 x 40 cm	Blue	350 g	2000**	36**	1400 ml*	1000	Microfibre***	10
500									
MC40R	40 x 40 cm	Red	300 g	500**	34**	1100 ml*	500	Microfibre***	10
MC40J	40 x 40 cm	Yellow	300 g	500**	34**	1100 ml*	500	Microfibre***	10
MC400	40 x 40 cm	Green	300 g	500**	34**	1100 ml*	500	Microfibre***	10
MC40B	40 x 40 cm	Blue	300 g	500**	34**	1100 ml*	500	Microfibre***	10
200									
ME40R	40 x 40 cm	Red	250 g	200**	39**	250 ml*	200	Microfibre***	10
ME40J	40 x 40 cm	Yellow	250 g	200**	39**	250 ml*	200	Microfibre***	10
ME400	40 x 40 cm	Green	250 g	200**	39**	250 ml*	200	Microfibre***	10
ME40B	40 x 40 cm	Blue	250 g	200**	39**	250 ml*	200	Microfibre***	10
ME40W	40 x 40 cm	White	250 g	200**	39**	250 ml*	200	Microfibre***	10

** ASTM Tests * Standard US Industry Tests, Details p. 78



SmartColor MICRO MITT HD

Perfect for cleaning countertops, wood, glass metal and paintwork.

- Thick, soft strands on one side have increased surface area for incredible absorbency and dirt pick up
- Premium grade low pile microfibre on the other side is good for dusting and polishing
- Ideal for washing cars

Part No.	Size	Material	Pack
MMIRG	22 cm	Microfibre***	5

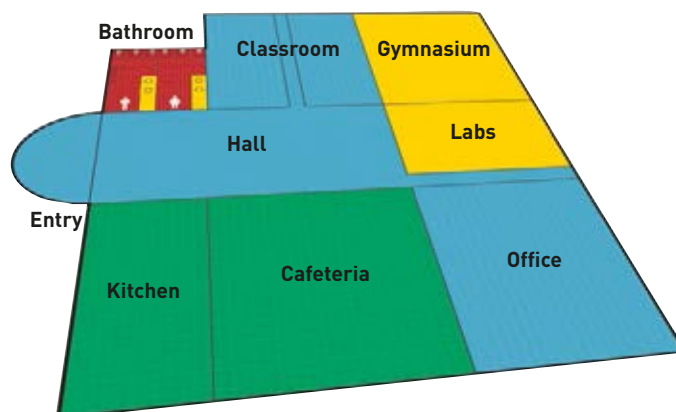


SPRAYER ON A BELT

Fits to the belt for optimum weight support.

- Flexible hose allows upside down spraying
- 1 l bottle included
- Cloth storage compartment
- Compatible with standard bottles
- Includes colour coding labels

Part No.	Content	Pack
SOABG	1 l	5



RECOMMENDED USAGE

- Red: Bathroom Cleaning
- Yellow: Wash basin and Mirror
- Green: Food and Bar Area
- Blue: General Low Risk Area
- White: Bespoke or Site Specific

*** 80 % polyester, 20 % polyamide

MAINTENANCE CLEANING > BATHROOM CLEANING > TOILET & BATHROOM CLEANING



ERGO TOILETBURSH/SWAB COMPLETE

Complete kit for professional application.

- Features 66 cm handle with 360° cleaning radius
- Replaceable brush heads or swabs available
- Swab for optimal application of cleaning products
- Hygienic, ergonomic holder is lightweight and keeps bacteria isolated
- Holder can be hand-carried or hung on cart and features a detachable base for easy emptying

Part No.	Content	Pack	
BBWHR	Brush, cpl., holder, repl. head	5	
BSWHR	Swab, cpl., holder, repl. head	5	



ErgoTec® SQUEEGEE, RED, 35 cm

Ergonomic squeegee for mirrors and smooth surfaces.

- Ergonomic bi-component handle, designed for comfortable hold
- Stainless steel S-Channel with variable positioning options
- Professional quality Soft Rubber for optimal cleaning results

Part No.	Size	Pack	
ES35R	35 cm	10	
NE350	35 cm	10	
RR350	35 cm	10	



ERGO TOILETBURSH/SWAB: HANDLE + 2 BRUSH HEADS

Ergonomic toilet brush for professional application.

- Features 66 cm handle with 360° cleaning radius
- Replaceable brush heads and swabs available
- Swab for optimal application of cleaning products

Part No.	Content	Pack	
BBCOR	2 x Brush, handle	5	
BSCOR	2 x Swab, handle	5	
BBHLR	Brush Holder	5	
BBRHR	2 x Brush heads	5	
BSRHR	2 x Swab heads	5	



StripWasher® BATHROOM 45 cm

Durable microfibre washer for cleaning of mirrors and walls.

- Superior cleaning power
- High water retention - up to 6 times its own weight, ideal for cleaning larger areas
- Machine washable up to 500 times sleeve with side scrub pad
- Lightweight plastic T-Bar with water wells

Part No.	Size	Material	Pack	
EC45R	45 cm	Microfibre*	10	
NS45R	45 cm	Microfibre*	10	



BATHROOM SANITARY BRUSH

2 tools in one: Brush with polypropylene bristles and squeegee with black twin foam rubber blade and ACME Thread.

Part No.	Size	Pack	
PB45R	45 cm	10	



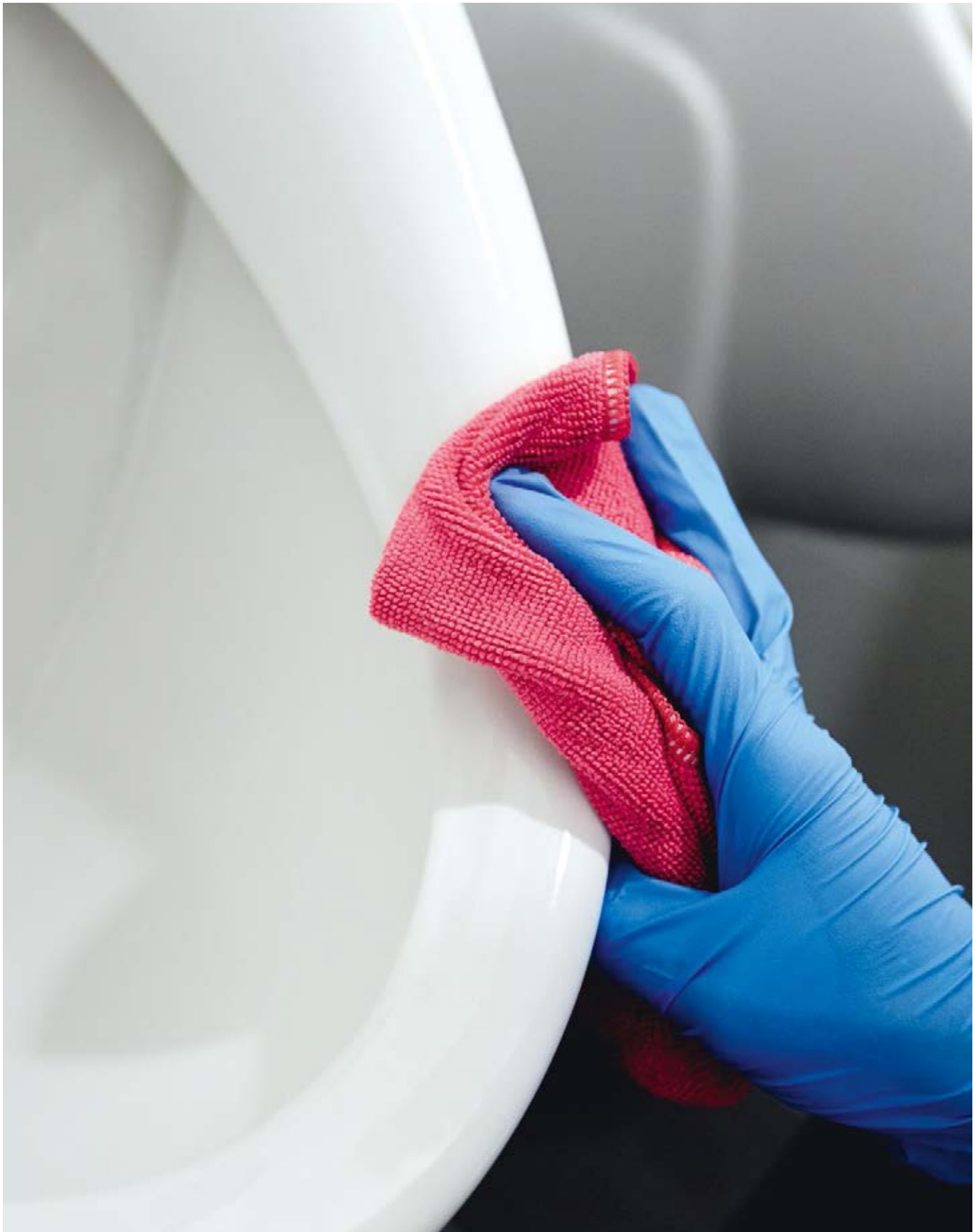
NiftyNabber® BATHROOM, 45 cm

The hygienic all-purpose grabber.

- Keeps refuse at a distance - 45 cm long handle
- Solid design made of aluminium and metal
- Powerful rubber-coated claws - for firm and precise grip of objects

Part No.	Size	Pack	
NN40R	45 cm	10	

* Support material: 100 % polyamide; Fibres: 100 % polyethylene



MAINTENANCE CLEANING > DUSTING

BRUSHES & DUSTERS



StarDuster®
COBWEB



For dusting of walls, surfaces and corners. Perfect on telescopic pole.

- Electrostatic energy attracts and holds dust
- Split-tipped soft poly fibres for effective dusting
- Fits on telescopic pole

Part No.	Size	Pack	
COBW0	20 cm	6	



StarDuster®
LAMBSWOOL



Flexible lambswool duster will not damage even most delicate surfaces.

- Natural oil in lambswool helps to remove dust with minimum effort
- Features bendable metal core for access to hard-to-reach areas
- Fits on telescopic pole

Part No.	Pack	
LWDU0	6	



StarDuster®
WALL BRUSH



Oval shape ideal for cleaning fans, walls, etc.

- Perfect for dusting rough surfaces and removing dust on flat objects
- Fits on telescopic pole

Part No.	Pack	
WALB0	5	



StarDuster®
PIPE BRUSH



Round and bendable for cleaning pipes and round surfaces.

- Perfect for dusting on curved surfaces
- Fits on telescopic pole

Part No.	Pack	
PIPE0	5	



StarDuster®
OSTRICH FEATHER



Perfect for dusting delicate surfaces such as glass, cabinets and chandeliers.

- Reaches into the smallest gaps and surface crevices
- Fits on telescopic pole

Part No.	Pack	
FEDU0	6	



RUBBER CLEANING SPONGE

Dry sponge absorbs dust particles.

- Easy to wash
- If necessary, can also be cut off
- Rubber material

Part No.	Pack	
SP060	6	

MICROFIBRE DUSTERS



Quality Tools for Smart Cleaning



StarDuster®
PRO FLAT 75



Bendable plastic duster with microfibre sleeve, ideal for narrow spaces.

- Made from strong and flexible plastic
- Microfibre sleeve is removable and machine washable
- Fits securely to pole with Locking Cone
- Including 3 disposable sleeves

Part No.	Size	Material	Pack
PFD7G	75 cm	Microfibre*	10



StarDuster®
PRO FLAT/FLEX SLEEVES

Disposable or reusable replacement microfibre sleeves.

- Effectively lift and hold the dirt
- Machine washable

Part No.	Size	Info	Material	Pack
PS50W	75 cm	Disposable Sleeve	**	1 Bag (50)
PM05W	75 cm	Microfibre Sleeve	*	1 Bag (5)



StarDuster®
PRO FLEX 75



Great for cleaning overhead, underneath furniture and around corners.

- Bends and retains shape to clean hard-to-reach areas
- Microfibre sleeve is removable and machine washable
- Fits securely to pole with Locking Cone
- Including 3 disposable sleeves

Part No.	Size	Material	Pack
PXD7G	75 cm	Microfibre*	10



StarDuster® PRO CEILING FAN



For dusting of ceiling fan blades and other flat surfaces.

- Holds dirt like a magnet with microfibre strands
- Microfibre sleeve is removable and machine washable
- Fits securely to pole with Locking Cone

Part No.	Size	Material	Pack
CEDUG	25 cm	Microfibre***	5

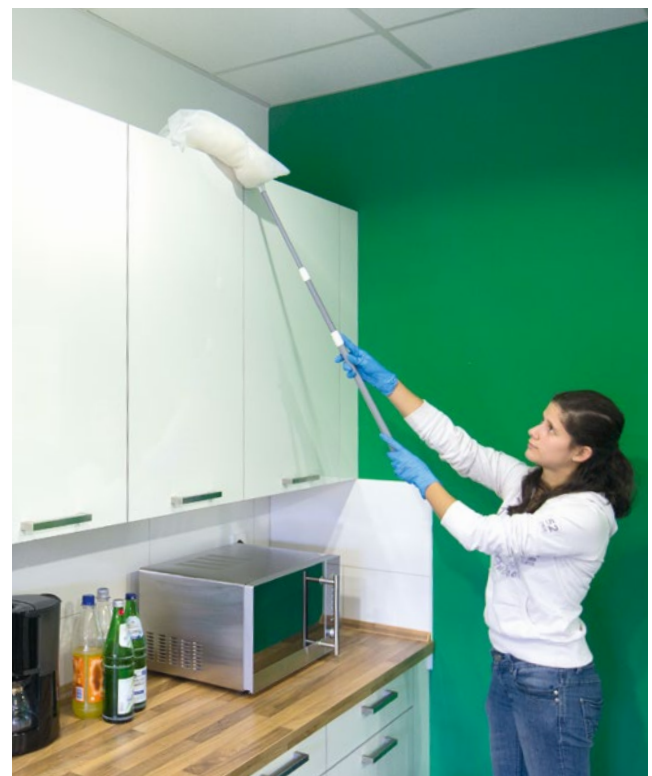


StarDuster®
PRO DUSTER

Telescopic lambswool duster with bendable head.

- Telescopic handle extends from 70 to 150 cm for dusting high objects
- Statically charged disposable sleeve grabs and retains dust
- Includes 1 disposable sleeve

Part No.	Size	Info	Pack
LWDUR	70 – 150 cm	Duster + 1 Disp. Sleeve**	10
DS10Y	46 x 18 cm	Disposable Sleeve**	1 Bag (10)
DS50Y	46 x 18 cm	Disposable Sleeve**	1 Bag (50)



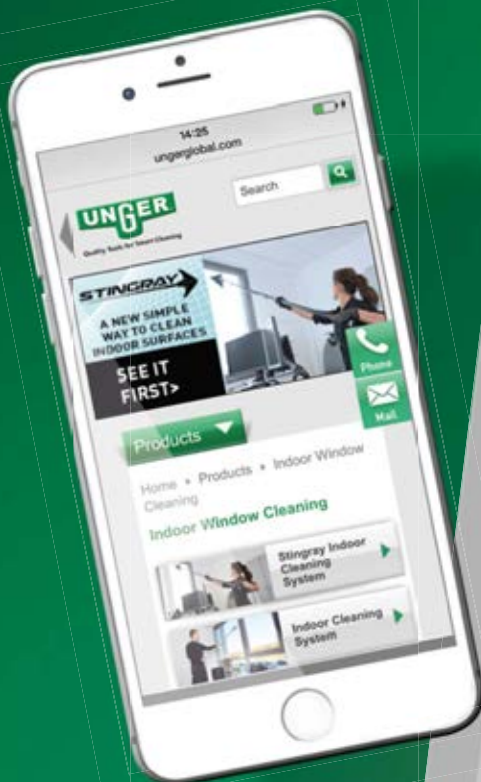
* 100 % polyester
 ** 100 % polypropylene
 *** 75 % polyester, 25 % polyamide



Quality Tools for Smart Cleaning

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