



| POWER CLEANING MACHINES

# TABLE OF CONTENTS

## **POWER CLEANING MACHINES – MADE IN GERMANY**

Cutting-edge technology and an extensive product range	4-5
Unique technologies	6-7

## **SCRUBBER DRYERS**

TURNADO 35	8-9
TURNADO 38	10-11
TURNADO 45	12-13
TURNADO 55 / 55 SV	14-15
TURNADO 55 PRO	16-17
VARIOTECH 82 PRO	18-19
FS 112	20-21

# TABLE OF CONTENTS

## **SWEEPERS AND VACUUM SWEEPERS**

KM 68 & KM 88	22-23
KS 90 PRO	24
KS 110 VARIO PRO	25

<b>EQUIPMENT VARIANTS</b>	26-27
---------------------------	-------

<b>MAINTENANCE AND SERVICING</b>	28-29
----------------------------------	-------

<b>GENERAL INFORMATION</b>	30-31
----------------------------	-------

## CUTTING-EDGE TECHNOLOGY

High efficiency

The efficient VERMOP cleaning machines not only reduce cleaning times and therefore working times, but their sustainable functionality also ensures they are environmentally friendly. Almost all the machines are made from durable stainless steel. The suction bars mounted directly behind the scrubbing unit and the specifically designed wiping and suction lips that adapt perfectly to the floor texture and surface guarantee that even large areas dry very quickly.

The floors are immediately safe to walk on, with no risk of slipping, which makes them ideal for use in hospitals, for example. They also clean corners and recessed areas very close to the edges. This eliminates the need for time-consuming wiping after cleaning, the use of a second cleaner is therefore not required. The width of the suction bars is the same as the machine width, thus the cleaning machine can easily move through doors and recessed areas.

## EXTENSIVE PRODUCT RANGE

For individual solutions

VERMOP offers a range of specific additional modules with innovative solutions to meet the specific demands of professional cleaning. The patented TURNADO® technology has a flexible brush head that rotates continuously through 360°, and is perfect for efficient cleaning in any direction and in reverse.

The patented VARIOTECH® technology features a wing arm that extends independently beyond the width of the cleaning machine and adapts to changing surface profiles. Inaccessible areas, such as recesses and under shelving or handrails and narrow passages can therefore be cleaned as effectively as large areas.



All VERMOP cleaning machines operate cordlessly on battery power for up to approx. 4 hours. The QUICK-CHANGE® principle enables rapid and easy battery changes in our cleaning systems to thus ensure longer operating times. Our cleaning machines use fresh water with a tank capacity of up to 150 litres. The cleaning agents are added to the water tanks as required. Operators can also regulate the drive speed and water application to adjust the consumption of water and cleaning agent as required. The BLUE-SAVE® function reduces the noise pollution to a comfortable level. Our specialists from our in-house sales

representatives can provide information on all the functions of the model variants on site and also demonstrate the appropriate cleaning machines for your requirements. We can also offer sustainable maintenance and service packages. For example, all spare parts remain available up to ten years after production.

## TURNADO

technology



Depending on the system used, the scrubbing and suction head including suction bar can be rotated by 200° to the left and right or up to 360° continuously.

This enables the operator to clean in any direction, even when reversing, i.e. full functionality in all directions. This feature can significantly reduce cleaning time and considerably increase efficiency.

The TURNADO® technology enables cleaning close to edges, working in corners and niches and narrow passages.

## VARIOTECH

technology



Our patented VARIOTECH® technology opens up a new dimension in machine floor cleaning in terms of flexibility and economy.

This technology enables the working width of the scrubbing and suction units to automatically adapt to changing surface profiles during operation.

Operators can therefore use the same machine to clean narrow passages and then revert to the full working width for large areas.

The manual cleaning of normally inaccessible areas, such as in recessed areas or under superstructures, is therefore reduced to a minimum, which saves both time and money.

The share in personnel of the total cleaning costs is up to 90%, and the variable working width of the VARIOTECH® technology for scrubbing and suction can reduce the total costs by up to 30%.

## QUICK-CHANGE

technology



The QUICK-CHANGE® principle enables the quick and easy battery replacement on our cleaning machines and thus ensures longer operating times.

QUICK-CHANGE® battery quick-change system-simple and time-saving

1. Hook the mobile quick-change trolley onto the device
2. Pull out the removable battery drawer
3. Unhook the trolley and attach the new battery
4. Insert the new battery draw into the machine

Your cleaning machine is then 'charged' in a matter of minutes! The machine is immediately ready for use again. The QUICK-CHANGE® principle enables highly flexible operating times and even round-the-clock operation. This both increases the hourly cleaning rate of your cleaning machine per day and productivity.

## BLUE-SAVE

technology



The BLUE-SAVE® function saves resources and protects the environment at the press of a button. Full machine functionality is not generally required at full power during cleaning, which not only protects the environment, but also your purse. When BLUE-SAVE is activated, certain functions that are not required at full power will be executed at a lower power level at the press of a button.

Examples:

- Reduced water quantity for environmentally friendly cleaning
- Reduced drive speed for lower power consumption and longer battery run time
- Reduced suction power for lower noise levels and lower power consumption
- Reduced use of chemicals for environmentally friendly cleaning

This results in less wear, longer maintenance cycles, lower consumption of cleaning agents and fresh water, and a longer machine service life.

# TURNADO 35

Agile, light, quiet: a scrubber dryer with a fast-charging, high-performance lithium-ion battery, rotating brush head and TURNADO roller technology. If the mop is continuously dipped into the same, already dirty water, the soiling on the floor is merely constantly redistributed. However, the TURNADO 35 uses fresh water for every centimetre to make cleaning never so easy and so much fun.



## EQUIPMENT FEATURES

- Roller brush diameter 96 mm
- 2-tank system
- Variable contact pressure
- Battery and integrated charging unit incl. battery type, maintenance-free
- Transport wheels
- Suction bar, straight

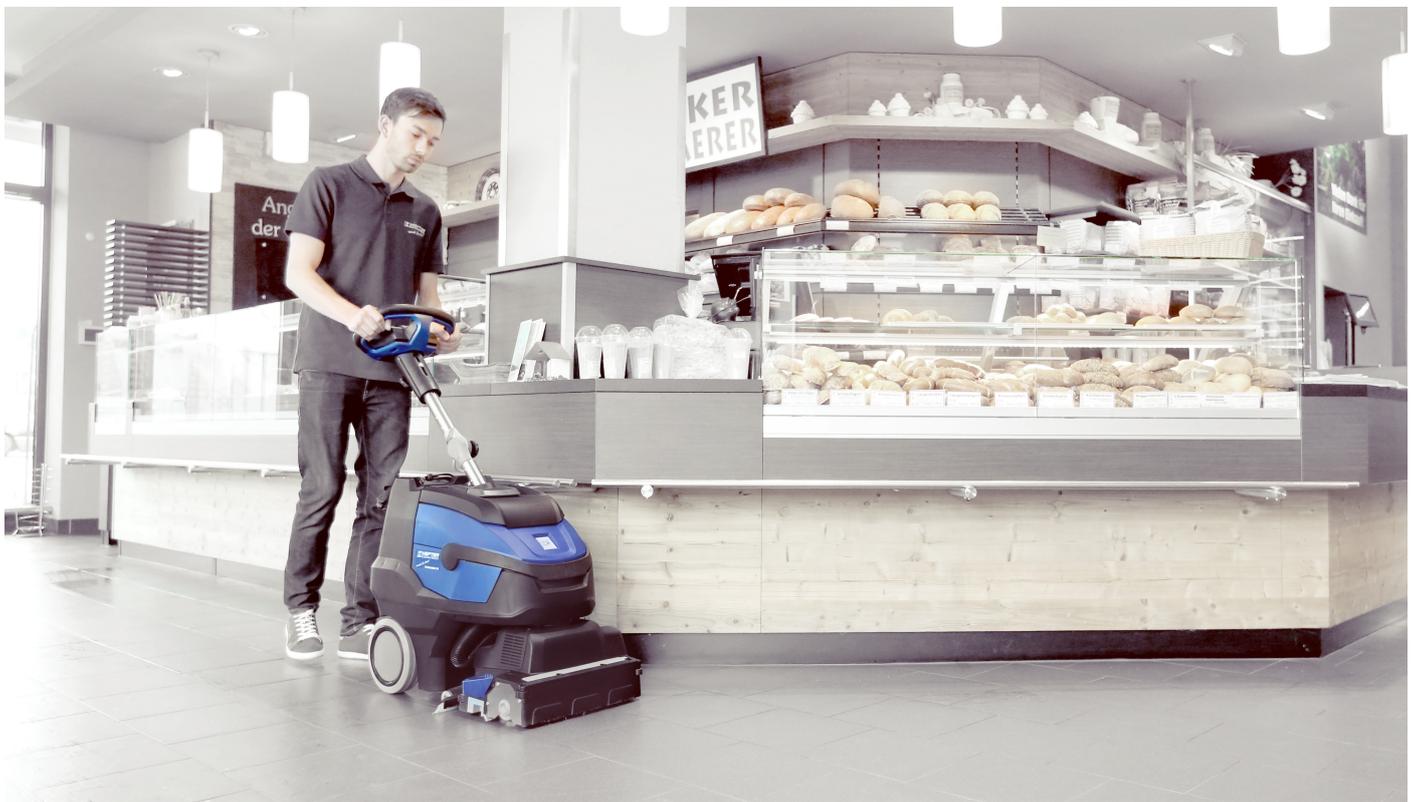
## IDEAL FOR CLEANING

- Smaller retail spaces
- Kitchens
- Narrow and obstructed storage spaces
- Motor vehicle workshops
- Hotel / office entrance areas
- Sales areas and showrooms
- Changing rooms and restroom facilities and many more

## SPECIFIC ADVANTAGES

- Brush head can be rotated by +/- 200°
- Highly manoeuvrable and effective, ideal for overlapping areas
- The brush is always at right angles to the direction of travel
- The suction bar reliably collects the water in every curve
- Including powerful lithium-ion battery, totally maintenance-free
- Fast charging (fully charged in 3 hours, half charged in 1 hour)  
Saves resources and extends battery run time by up to 50%
- 40% reduction in the noise level with eco mode
- Compact design
- Can be moved away from the wall at a 90° angle
- No protruding devices, easy handling





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**350 mm**
- Working width suction bar  
**450 mm**
- Dimensions (LxWxH)  
**930 x 420 x 1100 mm**
- Fresh water tank volume  
**12 l**
- Dirty water tank volume  
**12 l**
- Empty weight  
(incl. lithium-ion battery)  
**36 kg**

### WORK-PERFORMANCE

- Brush contact pressure  
**150 g / cm<sup>2</sup>**
- Brush rotation speed  
**700-1500 rpm**
- Max. cleaning rate  
**1400 m<sup>2</sup> / hr**
- Max. water application  
**0.3-0.85 l / min**
- Noise level  
**65 dB**

### MOTOR OUTPUT

- Input power  
**500 Watt**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**25.2 V**
- Battery capacity  
**22 Ah**
- Frequency  
**50-60 Hz**

## TURNADO 38

The TURNADO 38 is the perfect size for inaccessible spaces that are hard to clean. The slimline design of this machine guarantees outstanding cleaning results on narrow or overlapping areas. This design and the 38 cm-wide disc brush also makes the TURNADO 38 highly manoeuvrable. It also exploits the advantages of large scrubber dryers: fresh water is applied for every centimetre of cleaning, the floor is cleaned with the same high brush pressure and the dirty water is immediately extracted. The theoretical cleaning rate of the TURNADO 38 is approx. 1,200 m<sup>2</sup> / hr and, with the optional connection to the VERMOP ONE software solution, operators can monitor when the machine is achieving this level of performance at any time.



### EQUIPMENT FEATURES

- 2-tank system
- Ergonomic control panel (adjustable inclination)
- Disc brush diameter 38 cm
- Tool-free brush replacement
- Integrated charging unit

### IDEAL FOR CLEANING

- Smaller retail spaces and kitchens
- Narrow and obstructed storage spaces
- Motor vehicle workshops
- Hotel / office entrance areas
- Sales areas and showrooms
- Changing rooms and restroom facilities and many more

### SPECIFIC ADVANTAGES

- Simple operation and care
- Flexible and manoeuvrable
- Consistently high brush pressure
- Highly compact design
- Easy access for servicing





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**380 mm**
- Working width suction bar  
**460 mm**
- Dimensions (LxWxH)  
**850 x 500 x 1030 mm**
- Ground clearance  
**630 mm**
- Fresh water tank volume  
**15 l**
- Dirty water tank volume  
**23 l**
- Empty weight  
(incl. gel / LiFePO4 battery)  
**62 kg / 47 kg**

### WORK-PERFORMANCE

- Theoretical cleaning rate  
**1200 m<sup>2</sup>/hr**
- Brush contact pressure  
**0.4 N / cm<sup>2</sup>**
- Noise level  
**71 dB**
- Max. water application  
**1.4 l / min**

### MOTOR OUTPUT

- Brush motor  
**250 Watt**
- Suction motor  
**300 Watt**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**24 V**
- Battery capacity  
(gel / LiFePO4)  
**25 Ah / 30 Ah**
- Working time  
per battery charge  
**max. 1 hr**

## TURNADO 45

The TURNADO 45 is the big brother of our TURNADO 35 model. The TURNADO 45 is also equipped with a powerful and fast-charging lithium-ion battery, but with twice the capacity. With a working width of 45 cm, it therefore offers an even higher hourly cleaning rate. The TURNADO 45 naturally also uses our TURNADO brush head, which can rotate by +/- 200°.



### EQUIPMENT FEATURES

- Roller brush diameter 96 mm
- 2-tank system
- Variable contact pressure
- Battery and integrated charging unit incl. battery type, maintenance-free
- Transport wheels
- Suction bar, straight

### IDEAL FOR CLEANING

- Medium-sized retail areas
- Kitchens
- Narrow and obstructed storage spaces
- Motor vehicle workshops
- Sales and retail areas, i.e. bakeries
- Changing rooms and restroom facilities

### SPECIFIC ADVANTAGES

- Brush head can be rotated by +/- 200°
- Highly manoeuvrable, therefore efficient and high-performance
- The suction bar absorbs the water in every curve and even when reversing
- Fresh water indicator
- Dirty water tank with drain hose
- Transport drive mode
- Powerful lithium-ion battery, maintenance-free
- Battery run time approx. 2-3 hrs
- Fast-charging (fully charged in 3 hours, half charged in 1 hour) Intermediate charging at any time as required
- 40% reduction in the noise level with eco mode
- Extremely easy handling
- Compact design, no protruding devices





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**450 mm**
- Working width suction bar  
**550 mm**
- Dimensions (LxWxH)  
**970 x 530 x 1115 mm**
- Fresh water tank volume  
**22 l**
- Dirty water tank volume  
**22 l**
- Empty weight  
(incl. lithium-ion battery)  
**48 kg**

### WORK-PERFORMANCE

- Max. cleaning rate  
**1800 m<sup>2</sup>/hr**
- Max. water application  
**0.4-1.4 l / min**
- Brush contact pressure  
**150 g / cm<sup>2</sup>**
- Brush rotation speed  
**650-1000 rpm**
- Noise level  
**67dB**

### MOTOR OUTPUT

- Input power  
**550 Watt**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**25.2 V**
- Battery capacity  
**44 Ah**
- Frequency  
**50-60 Hz**

## TURNADO 55 / TURNADO 55 SV

This patented scrubber dryer significantly reduces cleaning time. Inaccessible areas that would normally have to be reworked manually, e.g. corners and recessed areas, can now also be cleaned mechanically. The scrubbing and suction head of the TURNADO® 55 can be rotated by up to 400° to ensure identical cleaning results in both main and secondary areas. The SV swimming pool version, with a 360° rotating scrubbing and suction head, is also optimised for use in acidic, chlorinated environments.



### EQUIPMENT FEATURES

- Plastic tank
- Ergonomic control panel (adjustable height and inclination)
- 400° rotating scrubbing and suction head (T55)
- 360° rotating scrubbing and suction head (T55 SV)
- Stainless steel rims, wheel bearings and softer rubber on the rear wheels of the T55 SV

### IDEAL FOR CLEANING

- Retail spaces, sales areas, showrooms and supermarkets
- Warehouses, production halls, workshops
- T55 SV: designed specifically for swimming pools incl. changing rooms, shower rooms, etc.
- This all-rounder machine can be used practically anywhere

### SPECIFIC ADVANTAGES

- The rotating suction and scrubbing head reduces the manual reworking of problematic surfaces
- Easy detection of corners, niches and recessed areas
- Cleaning under superstructures such as work tables, shelving, etc.
- Long working time with the large tank capacity
- Easy operation
- Compact design
- Highly manoeuvrable
- 10-year warranty on the stainless steel chassis
- Durable plastic tank





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**550 mm**
- Working width suction  
**680 mm**
- Dimensions (LxWxH)  
**920 x 408 x 1150 mm**
- Clearance width  
**670 mm**
- Tank volume  
fresh and dirty water  
**per 45 l**
- Empty weight  
(incl. gel / LiFePO4 battery)  
**178 kg / 172 kg**

### WORK-PERFORMANCE

- Theoretical cleaning rate  
**2475 m<sup>2</sup> / hr**
- Max. water application  
**approx. 3.5 l / min**
- Max. drive speed  
**4.5 km / hr**
- Noise level  
**75 dB**
- Noise level  
BLUE-SAVE® function  
**69 dB**
- Brush contact pressure  
**2.2 N / cm<sup>2</sup>**
- Pad contact pressure  
**0.5 N / cm<sup>2</sup>**

### MOTOR OUTPUT

- Brush motor  
**2 x 190 Watt**
- Suction motor  
**500 Watt**
- Drive motor  
**110 Watt**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**24 V**
- Battery capacity  
(gel / LiFePO4)  
**105 Ah / 100 Ah**
- Working time  
per battery  
**up to 2.5 hrs**

## TURNADO 55 PRO

This patented scrubber dryer significantly reduces cleaning time. Inaccessible areas that would normally have to be reworked manually, e.g. corners and recessed areas, can now also be cleaned mechanically. The scrubbing and suction head of the TURNADO® 55 can be rotated by up to 360° to ensure identical cleaning results in both main and secondary areas. The scrubbing and suction head always rotates automatically in the direction of travel, even when reversing the machine.



### EQUIPMENT FEATURES

- Particularly hygienic and easy-to-clean stainless steel tank
- Continuously rotating suction and scrubbing head
- Ergonomic control panel (adjustable height and inclination)

### IDEAL FOR CLEANING

- Hygiene-sensitive areas
- Hospitals, retirement and care homes
- Retail spaces, sales areas, showrooms and bakeries

### SPECIFIC ADVANTAGES

- The rotating suction and scrubbing head can be rotated through 360° to reduce the manual reworking of problematic surfaces
- Easy detection of corners, niches and recessed areas
- Cleaning under superstructures such as work tables, shelving, etc.
- Long working time with the large tank capacity
- Easy operation
- Compact design
- Highly manoeuvrable
- 10-year warranty on the stainless steel chassis
- Larger capacity with the membrane wall tank





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**550 mm**
- Working width suction  
**680 mm**
- Dimensions (LxWxH)  
**920 x 408 x 1150 mm**
- Tank volume  
fresh and dirty water  
**per 50 l**
- Empty weight  
(incl. gel / LiFePO4 battery)  
**172 kg / 167 kg**

### WORK-PERFORMANCE

- Theoretical cleaning rate  
**2475 m<sup>2</sup> / hr**
- Max. water application  
**approx. 3.5 l / min**
- Max. drive speed  
**4.5 km / hr**
- Noise level  
**75 dB**
- Noise level  
BLUE-SAVE® function  
**69 dB**
- Brush contact pressure  
**2.2 N / cm<sup>2</sup>**
- Pad contact pressure  
**0.5 N / cm<sup>2</sup>**

### MOTOR OUTPUT

- Brush motor  
**2 x 190 Watt**
- Suction motor  
**500 Watt**
- Drive motor  
**110 Watt**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**24 V**
- Battery capacity  
(gel / LiFePO4)  
**105 Ah / 100 Ah**
- Working time  
per battery  
**up to 2.5 hrs**

# VARIOTECH 82 PRO

The VARIOTECH 82 PRO is our largest walk-behind scrubber dryer and features our unique VARIO-TECH technology on the cleaning wing. This is positioned at the touch of a button and the brush head can also be raised and lowered electrically. A working width of 82 cm is achieved with the wing extended. When pressed, the wing (e.g. when hitting an obstacle) retracts up to a working width of 66 cm. After driving round an obstacle, a return system ensures that the wing returns to its original working width.



## EQUIPMENT FEATURES

- Fully automated raising and lowering of the scrubber-suction head
- Equipped with VARIOTECH cleaning wings (66-82 cm)
- Electronic fresh water reserve indicator
- Horn alert
- QUICK-CHANGE® battery replacement system

## IDEAL FOR CLEANING

- Large areas over 3,500 m, e.g.:
- Warehouses, production areas
  - Large supermarkets or cash & carry markets
  - Exhibition halls

## SPECIFIC ADVANTAGES

- Reduction of manual reworking with the continuous action of the scrubbing and suction units
- Particularly effective for cleaning close to edges with the flexible VARIOTECH brush wings
- Slimline design and therefore highly manoeuvrable despite the machine size
- User-friendly handling
- Large tank volume of 100 l fresh or dirty water
- 10-year warranty on the stainless steel chassis





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**660-820 mm**
- Working width suction bar  
**760-980 mm**
- Dimensions (LxWxH)  
**1030 x 535 x 1130 mm**
- Membrane tank volume  
(fresh and dirty water)  
**100 l**
- Empty weight  
incl. battery  
**320 kg**

### WORK-PERFORMANCE

- Theoretical cleaning rate  
**3690 m<sup>2</sup> / hr**
- Cleaning wing control  
**electrical**
- Lifting mechanism of  
scrubber-suction head  
**electrical**
- Max. water application  
**8.9 l / min**
- Max. drive speed  
**5 km / hr**
- Noise level  
**72 dB or 69 dB**  
(with BLUE-SAVE®  
function)
- Brush/pad  
contact pressure  
**1.7 N / 0.4 N / cm<sup>2</sup>n**

### MOTOR OUTPUT

- Brush motor  
**500 W**
- Suction motor  
**500 W**
- Drive motor  
**400 W**

### BATTERY

- Charging voltage  
**220-240 V**
- Battery voltage  
**24 V**
- Battery capacity (gel)  
**180 Ah**

## FS 112

With a theoretical cleaning rate of nearly 9,000 m<sup>2</sup> / hr, the FS 112 ride-on machine is the largest scrubber dryer in our product range. This machine is a perfect combination of the two patented VAR-IOTECH and TURNADO technologies. This maximises versatility and mobility in mechanical floor cleaning.



### EQUIPMENT FEATURES

- Fully automated raising and lowering of the scrubber-suction head
- Electrical control of the cleaning wings
- Horn alert
- QUICK-CHANGE® battery replacement system
- One-button start-stop system

### IDEAL FOR CLEANING

- Large storage areas and production halls
- Industrial bakeries and shopping and logistics centres
- Spaces and areas in large hospitals etc.

### SPECIFIC ADVANTAGES

- Economical cleaning of both narrow passages and large areas using a single machine with the variable working width feature
- User-friendly handling
- Ergonomically designed control elements
- Can be used around the clock with the QUICK-CHANGE® battery replacement system
- Minimises the number of machines required
- Brush pressure can be increased
- Long working time with the large tank capacity
- Highly compact design
- 10-year warranty on the stainless steel chassis
- Cleaning even when reversing





## TECHNICAL DATA

### MACHINE DIMENSIONS

- Working width brush  
**710-1120 mm**
- Working width suction bar  
**790-1240 mm**
- Dimensions (LxWxH)  
**1730 x 760 x 1370 mm**
- Clearance width  
**830 mm**
- Tank volume  
(fresh/dirty water)  
**per 150 l**
- Empty weight  
(with 270 Ah battery)  
**680 kg**

### WORK-PERFORMANCE

- Theoretical cleaning rate  
**8960 m<sup>2</sup> / hr**
- Max. drive speed  
**8 km / hr**
- Max. water application  
**approx. 8.9 l / min**
- Cleaning noise level /  
BLUE-SAVE®  
**72/66 dB**
- Brush/pad  
contact pressure  
**2.3/0.5 N / cm<sup>2</sup>**
- Brush diameter  
**285 mm**

### MOTOR OUTPUT

- Brush motor  
**2 x 500 W**
- Suction motor  
**2 x 500 W**
- Drive motor  
**900 W**

### BATTERY

- Charging voltage:  
**220-240 V**
- Battery voltage  
**24 V**
- Capacity (main-  
tenance-free gel  
batteries)  
**270 Ah**
- Working time per  
battery (depending  
on floor surface  
and soiling)  
**approx. 2-4 hrs**

## KM 68 & KM 88

Our new walk-behind, manual KM 68 & KM 88 sweepers are ideal for small areas with dusty floors. A theoretical sweeping rate of up to 3,000 m<sup>2</sup> / hr be achieved with a working width of 68 cm (VERMOP KM 68 with one side brush) or 88 cm (VERMOP KM 88 with two side brushes).

The galvanised steel frame in both machines ensures stability, smooth operation and a long service life.

### EQUIPMENT FEATURES

- One or two side brushes
- Galvanised steel frame
- Mechanical dust extraction (KM 88 only)

### SPECIFIC ADVANTAGES

- Particularly smooth-running
- Very service-friendly
- Easy operation and handling
- Highly efficient extraction system (KM 88) and large cartridge filter (dust class M)

The special feature of our KM manual sweepers are the versatile and easy handling. The galvanised steel frame guarantees durability, and the machines are particularly

The VERMOP KM 88 also has an extremely efficient, high-performance mechanical dust extraction system. The forward movement drives a powerful fan, which sucks up the dust that is forcibly dislodged by the sweeping rollers with the air flow and separates it through a large cartridge filter (dust class M) and sweeps it up while generating exceptionally low dust levels.

### IDEAL FOR CLEANING

- Ideal for commercial operations with small, dusty areas.
- Store/warehouse entrance areas, workshops
- Small external forecourts

smooth-running. The large wheels enable the operator to negotiate even small steps and stairs.



## TECHNICAL DATA

	KM 68	KM 88
— Sweeping concept	Single roller direct-throw technology	Single roller direct-throw technology
— Side brushes	1	2
— Dimensions LxWxH (mm)	<b>approx. 970 x 680 x 440</b>	<b>approx. 970 x 690 x 440</b>
— Empty weight	<b>approx. 21 kg</b>	<b>approx. 22 kg</b>
— Sweeping roller width (mm)	<b>500</b>	<b>500</b>
— Side brush diameter (mm)	<b>350</b>	<b>350</b>
— Sweeping width (mm)	<b>680</b>	<b>880</b>
— Theoretical sweeping rate (m <sup>2</sup> / hr)	<b>2380</b>	<b>3080</b>
— Practical cleaning rate, 60% (m <sup>2</sup> / hr)	<b>1428</b>	<b>1848</b>
— Dirt container capacity (l)	<b>40 litres</b>	<b>40 litres</b>
— Filter and suction system		
Filter surface area (m <sup>2</sup> )		approx. 0.7 m
Filter class		

## KS 110 VARIO PRO

The extremely robust design of the KS 110 VARIO PRO can also handle with heavy sweeping applications. Our largest, walk-behind sweeper and vacuum cleaner impresses with its manoeuvrability and even makes light work of cleaning narrow passages with the swivelling side brushes. The large filter surface area of 2.5 m<sup>2</sup> also allows dust-free sweeping even in critical applications. The traction drive enables the efficient cleaning of even large areas. With a theoretical sweeping rate of 4,400 m<sup>2</sup> / hr, this sweeper achieves the greatest sweeping rate of our entire product range. The unique tandem roller system on the machine can clear almost any item, from dust particles to drinks cans. Two brush rollers rotate against each other to convey the sweepings into the dirt hopper using the overthrow principle.



### EQUIPMENT FEATURES

- Two side brushes
- Tandem sweeping roller system
- Integrated charging unit
- Traction drive

### IDEAL FOR CLEANING

- Ideally suited for medium and large sweeping areas
- For indoor and outdoor use
- For use in car parks, halls and large storage areas

### SPECIFIC ADVANTAGES

- Particularly easy progress with the electric traction drive
- Battery capacity of up to 2.5 hrs
- Integrated charging unit with deep discharge protection
- Suction fan interruption on wet surfaces
- Height-adjustable push bar

# KS 90 PRO

We will soon be able to offer a new battery-operated sweeper and vacuum cleaner with a working width of 90 cm.

The little brother of the KS 110 VARIO PRO is scheduled to be available from late December 2024.

## TECHNICAL DATA

- Total sweeping width (2 side brushes)  
**900 – 1100 mm**
- Sweeping roller width  
**500 mm**
- Sweeping concept  
**Tandem roller system**
- Power transmission  
**Drive belt**
- Electric sweeping roller operation  
**yes**
- Dust extraction  
**yes**
- Filter surface area  
**2.5 m<sup>2</sup>**
- Filter cleaning  
**electrical**
- Air volume of the dust extraction unit  
**460 m<sup>2</sup> / hr**
- Dirt container capacity  
**75 l**
- Theoretical sweeping rate  
**4400 m<sup>2</sup> / hr**
- Total length  
**1085 mm**
- Total chassis width  
**820 mm**
- Total height  
**710 mm**
- Empty weight  
**124 kg**
- Working time (depending on floor surface, soiling)  
**2.5 hrs**
- Wet cell battery  
**2x 12V, 50 Ah**

# EQUIPMENT VARIANTS

## SMALL SCRUBBER DRYERS

(walk-behind)

**TURNADO 35** (ART. NO.: 13500000) incl.

- 22 Ah lithium-ion battery
- Integrated charging unit
- Roller brush (red)

**TURNADO 38** (ART. NO.: 1771103800) incl.

- 25 Ah gel battery
- Integrated charging unit
- Disc brush PP 0.8 mm (grey)

**TURNADO 38** (ART. NO.: 1771103801) incl.

- 30 Ah LiFePO4 battery
- Integrated charging unit
- Disc brush PP 0.8 mm (grey)

**TURNADO 45** (ART. NO.: 14500000) incl.

- 44 Ah lithium-ion battery
- Integrated charging unit
- Roller brush (red)

## ALL-ROUNDER SCRUBBER DRYERS

(walk-behind)

**TURNADO 55** (ART. NO.: 1771105500) incl.

- 105 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

**TURNADO 55** (ART. NO.: 1771105501) incl.

- 100 LiFePO4 battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

**TURNADO 55 SV** (ART. NO.: 1771105510) incl.

**swimming pool equipment**

- 105 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

**TURNADO 55 SV** (ART. NO.: 1771105511) incl.

**swimming pool equipment**

- 100 LiFePO4 battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

**TURNADO 55 PRO** (ART. NO.: 1771105550) incl.

- 105 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

**TURNADO 55 PRO** (ART. NO.: 1771105551)

- 100 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

## LARGE SCRUBBER DRYERS

(walk-behind)

---

### **VARIOTECH 82 PRO** (ART. NO.: 10064107) incl.

- 180 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

## RIDE-ON SCRUBBER DRYERS

(with driver's seat)

---

### **FS 112** (ART. NO.: 10064402) incl.

- 270 Ah gel battery
- External charging unit
- Disc brushes PP 0.8 mm (grey)
- Pad holder incl. pad (red)

### **HEAVY SOILING FS 112**

(ART. NO.: 10023868)

OPTIONAL

## MANUAL SWEEPERS

(walk-behind)

---

### **KM 68** (ART. NO.: 1772106800) incl.

- Single roller direct-throw technology
- 1 side brush

### **KM 88** (ART. NO.: 1772108800) incl.

- Single roller direct-throw technology
- Two side brushes
- Mechanical dust extraction

## SWEEPER SUCTION MACHINES

(walk-behind)

---

### **KS 90 PRO** (availability scheduled November 24) incl.

- Tandem sweeping roller system
- Two side brushes
- 50 Ah battery
- External charging unit

### **KS 110 VARIO PRO** (ART. NO.: 10064390) incl.

- Tandem sweeping roller system
- Two side brushes, variable
- 100 Ah battery
- Integrated charging unit
- Traction drive

## PREVENTIVE MAINTENANCE

TO ENSURE THAT YOUR VERMOP CLEANING SYSTEM REMAINS IN SUPERB CONDITION AT ALL TIMES

“PREVENTION IS BETTER THAN CURE” as the saying goes: similar to all machines, our VERMOP cleaning systems require regular servicing and maintenance. This is the only way to guarantee full performance and reliability. Our preventive maintenance services provide the right framework conditions to guarantee optimum service for many years to come.

Fixed price, preventive maintenance results in less machine downtime and substantially lower repair costs for you. If your maintenance costs and budget are fixed, then you have more freedom to focus on your strengths, as cleaning machine maintenance is hardly your core business.

## OUR RANGE OF PREVENTIVE MAINTENANCE SERVICES

### OUR PREVENTIVE MAINTENANCE SERVICES OFFER NUMEROUS ADVANTAGES:

- Consistent cleaning quality
- Longer service life of the system
- Less downtime and emergency repairs and therefore reduced idle time
- Immediate help in an emergency through telephone access to technical expertise and resources
- Guaranteed response time for repairs
- Maintenance contracts at various levels up to the individually agreed maintenance concept
- Discount on fault repair costs, spare parts and travel expenses
- Manageable maintenance budget



# DESIGNED FOR PERFECTION

MAINTENANCE AGREEMENT BASED ON YOUR REQUIREMENTS

VERMOP's maintenance agreements are available at different levels. Tailored to your needs. The choice is yours. We will be happy to advise you.

\*\*\*

## PREMIUM SERVICE

- Highest priority for access to technical expertise and resources
- Response from the service department within 24 hours of the service request\*
- 3 inspection visits per year (visual inspection, servicing, inspection sticker)
- Fault repair costs including
- 10% discount on spare parts costs
- 50% travel expenses including

\*\*

## STANDARD SERVICE

- Priority for access to technical expertise and resources
- Response from the service department within 48 hours of the service request\*
- 2 inspection visits per year (visual inspection, servicing, inspection sticker)
- 10% discount on fault repair costs
- 10% discount on spare parts costs
- 20% discount on the flat-rate travel expenses

\*

## BASIC SERVICE

- Access to technical expertise and resources
- Response from the service department within 72 hours of the service request\*
- 1 inspection visit per year (visual inspection, servicing, inspection sticker)
- Fault repair and material costs charged at the current price list and the VERMOP GTCs
- 20% discount on the flat rate travel expenses

## DESIGN YOUR SERVICE

If none of the service options listed above fulfil your requirements, we will be happy to develop a tailor-made agreement for specific services to meet the highest demands.

\* Valid on working days except Saturday, Sunday and all public holidays



## STAINLESS STEEL CAN DO MORE

Our TURNADO 55, FS 112 and VARIOTECH 82 PRO machines are manufactured with a high-quality stainless steel chassis as standard. The tanks in these machines (apart from the TURNADO 55 and 55 SV) are also made of stainless steel. Why?

Stainless steel has numerous advantages in terms of microbiology, particularly in hospitals, care homes and the food industry.

Our stainless steel tanks are easy to clean and sanitise.

The machine design ensures that no water remains in the waste water pipes, thus avoiding the formation of biofilm and the proliferation of pathogens.

## THE ADVANTAGES OF STAINLESS STEEL

The following four points demonstrate the advantages of stainless steel in more detail:

### HYGIENE

Stainless steel is a non-porous material that is easy to clean, which makes it ideal for use in areas where strict hygiene regulations apply, such as hospitals, care homes and food processing plants. The smooth surface of stainless steel prevents bacteria, viruses and other pathogens from forming, which minimises the spread of infection.

### RESISTANCE TO CORROSION

Stainless steel is resistant to corrosion, and therefore retains its structural integrity even with frequent cleaning and disinfection. This is particularly important in environments with constant humid conditions, e.g. hospitals or food processing plants, which require regular cleaning with water and cleaning agents.



## APPEARANCE

Stainless steel has a smooth, shiny surface that creates a professional and hygienic environment. It conveys a clean and contemporary look that can boost the confidence of customers and employees alike.

## DURABILITY

Stainless steel is highly durable and resistant to wear and tear. The use of stainless steel in high-traffic environments such as hospitals and food processing facilities where equipment and surfaces are in frequent use, can reduce the requirement for frequent repairs and replacements. This is another reason why we offer a 10-year guarantee\* on the stainless steel chassis.

\*All warranty, guarantee and other terms and conditions are available on our homepage at: [www.vermop.com/de-de/agb](http://www.vermop.com/de-de/agb)



VERMOP ist eine Marke der FREUDENBERG Home and Cleaning Solutions. Unter dieser Marke, die bereits auf über 95 Jahre Erfahrung zurückblickt, werden qualitativ hochwertige und langlebige Reinigungsmaschinen vertrieben.

VERMOP is a brand of FREUDENBERG Home and Cleaning Solutions. This brand, which is over 95 years of experience in the cleaning industry, sells high-quality and long-lasting cleaning machines.



## POWER cleaning machines

### — Made in Germany

We manufacture or final assemble the majority of our machines in our factories in Wertheim.

### — Longlasting quality

We grant a 10-year guarantee for the chassis for machines with a stainless steel chassis.

### — Greater efficiency

With our patented TURNADO and VARIOTECH technologies and our smart QUICK-CHANGE® battery replacement system.



**VERMOP GmbH**  
Hafenstraße 16  
97877 Wertheim

Tel. +49 (0) 9342 878-800  
info@vermop.com  
www.vermop.com

Technical information and content subject to changes. We claim no liability for errors and mistakes