

Ideas out of experience!

# MEIER-BRAKENBERG

## High-pressure cleaner

mobile and stationary  
frequency controlled



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Cold water

**MBH 1260  
kompakt**

# High-pressure cleaner

## Mobile



The compact high-pressure cleaner convinces with easy handling and 1260 l/h washing performance. Versatile use for machine cleaning, in milking parlours or for cleaning stables. Motor and pump are protected by a stainless steel cover. The long handle allows comfortable pushing.

### In brief:

- Very manoeuvrable and compact, easy handling
- Lance holders for safe lance placement
- 3 cylinder plunger piston pump for long life cycle
- Operation with up to 40 °C hot water (optionally up to 80 °C)

### MBH 1260 k

Water output	1260 l/h
Working pressure	140 bar
E-Motor	5,5 kW
Rotational speed	1450 U/min
Standard weight	68 kg
Length x width x height/handle 960 x 550 x 1260 mm	
Standard equipment: 10 m hose, gun with fast coupling, flat jet lance, circulation pump, stainless steel cover, water filter	



Cold water

## MBH 1500 kompakt



The all-rounder combines the advantages of a light and manoeuvrable chassis with higher water output. The high handle ensures ergonomic pushing, lances are placed securely in the standard lance holder during manoeuvring. 1,500 l/h make the device the best choice for cleaning machines, stables or yards.

### In brief:

- Combines very good manoeuvrability with high water output
- Versatile use
- Chassis and cover made of stainless steel
- Crank shaft drive with ceramic pistons
- Solid rubber wheels (never flat)

### MBH 1500

Water output	1500 l/h
Working pressure	120 bar
E-Motor	6,2 kW
Rotational speed	1.450 U/min
Standard weight	70 kg
Length x width x height/handle 960 x 550 x 1260 mm	
Standard equipment: 10 m hose, gun with fast coupling, flat jet lance, circulation pump, stainless steel cover, water filter	

Cold water

## MBH 1800



The all-rounder with 1,800 l/h water output is ideal for cleaning in any area of livestock farming or machine cleaning. High water output and easy handling at the same time make the device suitable for any purpose. High impact force and high water output quickly dissolve and wash away stubborn dirt. A good solution for piglet production units with narrow farrowing pens.

### In brief:

- Versatile use
- Aluminium chassis with stainless steel cover
- Large volume plunger piston pump with only 950 rpm - for long life cycle
- Removable hose drum for car transportation

### MBH 1800

Water output	1800 l/h
Working pressure	140 bar
E-Motor	8,5 kW
Rotational speed	950 U/min
Standard weight	119 kg
Length x width x height/handle 1090 x 590 x 1260 mm	
Standard equipment: 20 m hose, gun with fast coupling, flat jet lance, circulation pump, stainless steel cover, water filter	

Cold water

## MBH 2400



The flagship with 2,400 l/h water output stands for extremely high washing performance which is of benefit mainly for large-area pig and poultry houses. Doubling the water output halves the cleaning time. The automatic start-stop option has an integrated soft start which is of advantage for the life cycle and protects the power supply system.

### In brief:

- High water output for effective cleaning
- Hose drum for up to 120 m available
- Large volume plunger piston pump for long life cycle
- Large, ball bearing mounted solid rubber wheels - easy to push and never flat

### MBH 2400

Water output	2400 l/h
Working pressure	140 bar
E-Motor	11 kW
Rotational speed	1450 U/min
Standard weight	121 kg
Length x width x height/handle 1090 x 590 x 1260 mm	
<b>Standard equipment:</b> 20 m hose, gun with fast coupling, flat jet lance, circulation pump, stainless steel cover, water filter	

Frequency controlled

## MBH 3000 flex



This top device has a water output of up to 3,000 l/h at 130 bar. Thanks to frequency control the rotational speed adjusts to the requested water output. That way several users can work simultaneously, e.g. inside the farrowing pen or one operator uses the entire water volume to clean large areas. There is also a variety of options for simplex or multiplex operation when cleaning machines.

### In brief:

- Frequency converter ensures highest flexibility and energy efficiency
- Water jet proof frequency converter
- Equipped with one or two hose drums
- Pressure control lance for infinitely variable pressure adjustment

### MBH 3000 flex

Water output	3000 l/h
Working pressure	130 bar
E-Motor	11 kW
Rotational speed	1450 U/min
Standard weight	141 kg
Length x width x height/handle 1090 x 590 x 1260 mm	
<b>Standard equipment:</b> 20 m hose, gun with fast coupling, flat jet lance, circulation pump, stainless steel cover, water filter	

Hot water

## MBHHot 1320



The equipment of the hot water device includes a slowly running 3 cylinder plunger pump. Components are made of stainless steel and aluminium and therefore ensure long life cycle and robustness for rough everyday use. The burner runs on diesel or fuel oil. Large solid rubber wheels allow high mobility. Suitable for cleaning machines or hot water stable cleaning.

### In brief:

- 80 kW burner produces hot water of up to 90 °C with 12 l/min
- Removable 20 l fuel tank
- Folding cover made of stainless steel
- Lashing eyes and crane suspension for transportation
- Addition of cleaning agent optionally

### MBHHot 1320

Water output	1320 l/h
Working pressure	140 bar
E-Motor	5,5 kW
Rotational speed	1450 U/min
Standard weight	190 kg
Heizeinheit	80 kW
Length x width x height/handle 1200 x 700 x 1150 mm	
Standard equipment: 20 m hose, gun with fast coupling, flat jet lance, automatic start-stop, circulation pump, stainless steel cover, water filter	

Petrol run

## MBH 1800/1150 V



Petrol-run 16 kW motor makes the user independent from any infrastructure. The electric starter cares for a comfortable motor start. The device is available with 1,800 or 1,150 l/h washing performance. The high-pressure cleaner is easy to manoeuvre even on rough terrain what makes it ideal for construction sites and outposts.

### In brief:

- Motor runs on fuel, no power connection necessary thanks to integrated 20 l fuel tank
- Corrosion resistant, light chassis made of aluminium
- Large, pneumatic tyres for demanding surfaces and grounds

### MBH 1800 V/1150 V

Water output	1800 l/h	1150 l/h
Working pressure	150 bar	400 bar
Motor	16 KW	16 KW
Pump rotational speed	1450 U/min	1450 U/min
Length x width x height/handle 1060 x 650 x 1220 mm		
Standard equipment: 20 m hose, gun with fast coupling, flat jet lance, water filter		

# Performance

## in detail



High-quality materials make the high-pressure cleaner robust and durable. The 3 cylinder industrial plunger pump is crank shaft driven. The motor pump combination with quadruple bearing is connected via

the vibration reducing claw coupling. The low rotational speed guarantees a long life cycle.



*Safe placement of up to 3 lances*



*Hose guiding for clean winding and unwinding.*



*Long handle in ergonomic height for comfortable pushing for persons of any body height.*



*Easy to clean water filter. Filter cartridge can be rinsed.*



*Lance can be easily connected to gun with fast coupling system. Easy to operate gun, swivel joint between gun and hose prevents twisting of hose.*



*Large ball bearing mounted solid rubber wheels - easy to push and never flat.*

*Stainless steel hose drum for "tidy" working, removable handle, stainless steel cover to protect the device and against dirt.*



Optionally the high-pressure cleaners can be equipped with automatic start-stop (left) or circulation pump. The automatic start-stop switches the pump off after a follow-up time. A flow monitor controls the system to avoid that leakages lead to constant on and off switching.

The model with circulation pump has a star-delta on and off switch.

*Easy addition of detergents with the optionally integrated injector - ideal for foam cleaning!*



Cold water

MBHST 1260  
MBHST 1500  
MBHST 1800  
MBHST 2400

# High-pressure cleaner stationary



The stationary high-pressure cleaner stands for gain in time and comfort. The space saving high-pressure cleaner can be mounted to the wall. It is also possible to connect a mobile device to the stationary pipe system. All devices are equipped with durable industrial plunger pumps with crank shaft drive and ceramic pistons.

The pipe system and taps for tubes are planned individually to ensure fast and easy coupling. Special comfort is provided by the integrated automatic start-stop system with follow-up time and flow monitor.

## In brief:

- Work saving due to very short set-up times
- One move fast coupling
- Space saving wall mounting
- Completely made of stainless steel
- Clean appearance
- Minimal pressure loss
- Easy to assemble
- Individual design

## Stationary high-pressure cleaner

Type	MBHST1260	MBHST1500	MBHST1800	MBHST2400
Water output	1260 l/h	1500 l/h	1800 l/h	2400 l/h
Working pressure	140 bar	120 bar	140 bar	140 bar
E-Motor	5,5 kW	6,2 kW	8,5 kW	11 kW
Rotational speed	1450 rpm	1450 rpm	950 rpm	1450 rpm
(LxWxH) cm	57x39x40	72x43x44	72x43x44	72x43x44

All devices optionally available with star-delta switch or automatic start-stop.

*Stationary pipe system, fittings, ball taps and couplings are all made of stainless steel. This is why the pipe system is extremely durable and low-wear.*



Frequency controlled

MBHSTF

# Frequency controlled pump

## Flexible and comfortable cleaning



Frequency controlled high-pressure pumps ensure best flexibility and comfort when cleaning. Connected to a stationary pipe system the users determine the water output. The frequency technology controls the rotational speed so that the pressure remains at a constant level and a varying number of users can work with different water outputs simultaneously.

Water output of up to 200 l/min can be delivered to several users. For instance, one person cleans with a lance and at a washing performance of 30 l/min while two other persons clean each with 20 l/min simultaneously.

The user determines the water output by selecting respective jet sizes, the pump then automatically adjusts the rotational speed and maintains the pressure. That

ensures maximum performance at minimum energy consumption. The device is extremely user-friendly and safe to operate due to consistent adjustments dependent on the water volume.

### In brief:

- Determine the washing performance by selecting the pressure control lance or respective jet size.
- Up to 10 users depending on requested water volumes
- Low operational costs due to frequency control
- Smooth start-up protects the power supply system
- Easy operation - the pump adjusts the rotational speed, no matter what type of device is connected
- Aluminium base frame for high-pressure pump

### Frequency controlled pump

Type	MBHSTF 3000	MBHSTF 4200	MBHSTF 6000	MBHSTF 2x4200	MBHSTF 2x6000
Water output l/h	Max. 3.000	Max. 4.200	Max. 6.000	Max. 8.400	Max. 12.000
Working pressure	150 bar	140 bar	120 bar	140 bar	120 bar
E-Motor	15 kW	18,5 kW	22 kW	2 x 18,5 kW	2 x 22 kW
(LxWxH) mm	1180x570x1650			1180x1140x1620	





# Frequency technology in practical use

Frequency converters are used for the electronic control of the rotational motor speed to save energy and to reduce wear significantly.

Frequency converters start and stop the motor smoothly and infinitely. In contrary to motors which are directly connected to the power supply there is no torque jerk or load surge so that

the entire drive train including motor, pump and pipe system as well as sealings are protected. That way the rotational speed control reduces wear significantly and the life cycle of the device is prolonged.

**Frequency control in practical use in a hatchery.**



*Two washers can clean a unit for 300 sows simultaneously with a total of 4,200 l/h.*



*Two frequency controlled high-pressure pumps which automatically regulate the selected and preset pressure (e.g. 70 bar) depending on the number of users and specific output.*

*When washing at a rate of 8,400 l/h there is sufficient water output for 7 users and working stations.*

*Machine cleaning at a contractor with 2 users and 4,200 l/h total water output.*

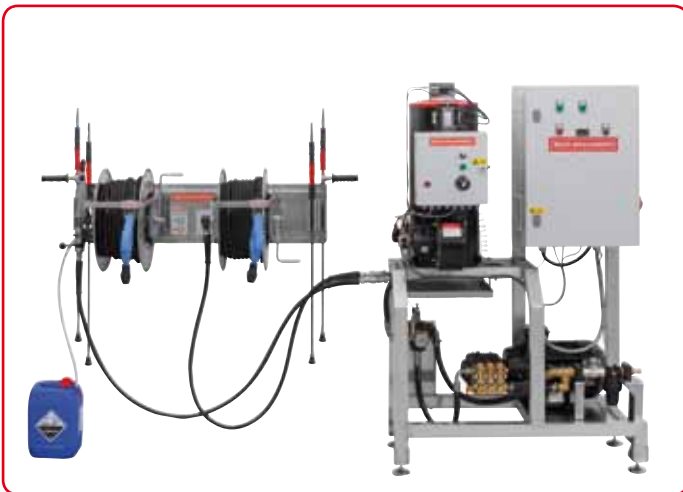


Hot water

MBHSTH

# Frequency controlled hot water station

Professional unit for machine cleaning



The hot water station captivates with versatile use and free choice of water amount, working pressure, number of users, water temperature and addition of detergents.

The frequency controlled pump delivers flexible amounts of water. Exemplarily it is possible that one user cleans a tractor with an output of 20 l/min and 70 °C hot water whilst another user cleans a heavily soiled machine with 30 l/min cold water at the same time.

It is also possible to add detergent for foam cleaning with the injector.

## In brief:

- Frequency controlled high-pressure aggregate for up to 4,200 l/h
- Hot water unit infinitely adjustable up to 90 °C, e.g. 20 l/min at 75 °C
- The high-pressure hot water station can be mounted directly inside the engineering room and the hose and lance station next to the place which needs to be cleaned
- Addition of detergents with the integrated injector. The frequency control allows even small amounts of water - ideal for foaming

## Frequency controlled hot water station

Type	MBHSTH 3000 flex	MBHSTH 4200 flex
Water output	max. 3.000 l/h	max. 4.200 l/h
Working pressure	130 bar	140 bar
E-Motor	11 kW	18,5 kW
Heating unit	80 kW	80 kW
(LxWxH) mm	1100x500x1700	

*The frequency controlled hot water station captivates with flexibility and stands for effective work.*



# High-pressure cleaners

## for any purpose



*Frequency controlled high-pressure pump with 4,200 l/h in mobile use at a cleaning service provider. The installation with water tank and injector for chemicals to meter detergents and disinfectants is installed inside a transport vehicle.*

Extraordinary challenges require individual solutions! Discuss your special tasks with us and we work out specific proposals and ideal solutions. We attach great

importance to the design with high-quality materials and functionality!



*Stationary high-pressure unit on a trailer for a professional cleaning service provider. Two robust plunger pumps each 2,400 l/h, header tank 2 x 1,000 l and two hose reels incl. hose guide with each 100 m high-pressure hose.*



*High-pressure cleaner with 30 l/min for a forwarding company to clean trucks outdoors. Petrol motor with 13 kW and electric starter. Integrated petrol tank - fully independent operation in connection with water tank.*



*Mobile pump unit for use in waste management operations. Two high-pressure pumps each 1,800 l/h and a 200 l header tank on a frame which is suitable for forklifts. Suitable for many local public sector companies and public works departments who need compact professional high-pressure cleaners.*



*Stationary multiple pump with three pumps each 1,800 l/h in a pig fattening farm with 24,000 animals. Pumps start alternately to ensure equal workload.*



Ideas out of experience!

# MEIER-BRAKENBERG

## Accessories and more ideas

### Funnel washer Flexi Cleans exhaust shafts with high pressure



#### Boots cleaner

- 4 jets clean your boots all around, also underneath
- Simply connect to the high-pressure cleaner or high-pressure pipe system



#### Hose trolley

- For attaching hose drums from 35 m up to 120 m hose
- Light aluminium frame with 3 lance holders

The Funnel Washer Flexi cleans the entire exhaust air funnel from bottom to top and can be operated while standing safely on the ground. The funnel washer needs to be connected to a high pressure cleaner and can be inserted into the funnel directly from below. The device consists of a high-pressure nozzle tip with flexible spacers and can be inserted easily through the fan blades and flaps from below.

Water pressure and downwards directed nozzles ensure that the washer moves upwards independently.

Water jets sprayed from the all the way around laterally mounted nozzles clean the

funnel thoroughly over the entire length.

#### In brief:

- Optimum hygiene and improved energy efficiency due to cleaning the entire funnel
- Salmonella control by removing dust as a breeding ground



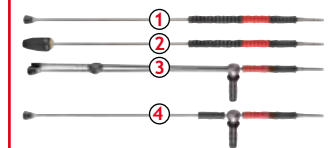
DLG silver medal 2014

#### Hose drum



- Stainless steel
- Adjustable brake
- Optionally for up to 35, 70, 90 or 120 m hose
- Incl. connection hose with fast coupling system suitable for high-pressure cleaners
- Incl. hose guide

#### Lances



- ① Flat jet nozzle for standard equipment, suitable for all purposes
  - ② Rotor nozzle, for particularly stubborn dirt
  - ③ Double lance with pressure adjustment at constant water amount
  - ④ Pressure control lance for frequency controlled cleaners
- Individual lances available in any length

#### Foam lance



- For the application of grease and protein solvents
- 2 l solution container
- Adjustable dosing of agents

#### Pipe cleaning hose



- For coupling to gun of cleaning unit
- Rotating pipe cleaning nozzle to clean feed systems
- Fixed pipe cleaning nozzle for drain cleaning

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