

For top performance in laundries

The PERFORMANCE and PERFORMANCE PLUS washing machines  
offering load capacities of 10 to 20 kg

THE  
BENCHMARK  
MACHINES



# Superb technology for discerning users

Top-level quality, performance and efficiency



## **PERFORMANCE model series**

Professional wash performance at the touch of a button and top-flight cost efficiency are the characterising features of the new PERFORMANCE washing machines from Miele Professional. With their proverbial Miele quality and PROFITRONIC D controls with 12 pre-set programmes, these machines are the perfect response to all manner of everyday challenges.

The PERFORMANCE washing machines are also available as special versions to meet specific needs.

## **PERFORMANCE PLUS model series**

Shortest cycles, excellent spin performance and unparalleled energy efficiency make PERFORMANCE PLUS washing machines from Miele Professional the new standard in the laundry. With their freely programmable Profitronic M controls and their uncompromising Miele quality, these machines stand for top-class performance in all standard and special-purpose applications.

## **Quality**

First-class results, user convenience, and absolute reliability – these attributes have given washing machines from Miele Professional their well-deserved place in many OPLs and commercial laundries. The typical combination of high-quality materials, immaculate workmanship, mature technology and practical innovations has proved its worth in the rough and tumble of workaday life, time and time again.

## **Performance**

Miele washer-extractors represent high-performance machines guaranteeing efficient processes to businesses ranging from small laundries in hotels and restaurants to large full-service on-premise facilities in nursing homes as well as large commercial laundries requiring a smaller machine for batch processing. Together with tumble dryers and flatwork ironers from Miele Professional, these machines are the workhorses in laundries of all sizes.

## **Efficiency**

Laundry machines from Miele Professional set standards in terms of optimising cost-efficiency and environmental impact. Although water, detergent and power consumption depends on the type of textiles, the load size and the degree of soiling, maximum energy efficiency and a sense of responsibility in using natural resources is always guaranteed – naturally in combination with top-class wash results and extremely gentle fabric care.



Miele Professional is a decision in favour of top performance, quality and efficiency. High-quality machines which reliably meet the expectations of the discerning, day in and day out, underline the trust placed by commercial users in Miele: 97% of all clients\* would buy from Miele again next time round.

#### **Dependability**

As a family-run company, now in its fourth generation, our actions, as always, still stem from a sense of responsibility for our products and processes and towards our employees, business associates and the environment.

- A product development with a clear focus on quality, durability and sustainability
- Innovations 'Made in Germany' which have set their stamp on the industry
- Award-winning ergonomics, functionality and product design
- Entire systems from a single supplier
- Lower operating costs over entire product life cycle (Total Cost of Ownership)
- Highly commended after-sales service offering blanket coverage and a fast response

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## PERFORMANCE

Convenient door closure

OneFingerTouch

Patented honeycomb drum 2.0

Innovative suds container design



## PERFORMANCE-PLUS

Convenient door closure

OneFingerTouch

Patented honeycomb drum 2.0

Innovative suds container design

Optimum wash rhythm EcoPulseWash





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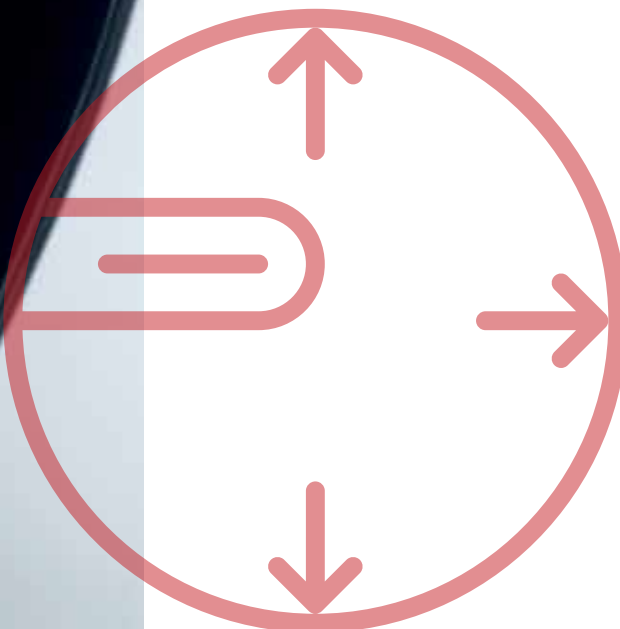
## PERFORMANCE PERFORMANCE-PLUS

### OneFingerTouch

High user convenience through automatic door lock

Simple and fast loading and unloading thanks to 415 mm door opening

With a diameter of 415 mm, the new washing machine door is particularly large and convenient. It also features Miele's new and patented OneFingerTouch door lock: Simply apply light pressure with the tip of a finger to close. The door is automatically locked at the outset of a programme and gently opens again of its own accord at the end of the cycle.



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## Honeycomb drum 2.0

### Optimum laundry care thanks to patented honeycomb drum 2.0 with redesigned shower ribs

The shower ribs on the honeycomb drum 2.0 scoop up water and transport it to the top of the drum during washing.

The new arrangement of perforations in the shower ribs allow up to 500 l of water to 'rain' down on the load per cycle, ensuring fast and intensive wetting. The sculptured body of the Miele honeycomb drum lets garments glide gently on a thin film of water.



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Innovative suds container

Redesigned suds container for lower consumption

Highly efficient use of water and energy

The newly designed suds container closely hugs the inner drum, and the entrance to the sump with its heater elements is gently curved. This permits very low water levels, resulting in considerable savings: PERFORMANCE PLUS washing machines require around 20% less water and 30% less energy\* than the previous generation.







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### EcoPulseWash

Perfect wash results in the shortest of times  
combined with maximum energy efficiency

The new wash technology on board washing machines from the PERFORMANCE Plus model series ensures perfectly clean laundry combined with short cycles and the lowest of water and energy consumption.

EcoPulseWash operates with varying drum speeds. During the initial phase, a slow drum speed ensures that the shower ribs transport the maximum amount of water to the top of the drum. Even at the lowest of water levels, this shower effect ensures the fast wetting of textiles.

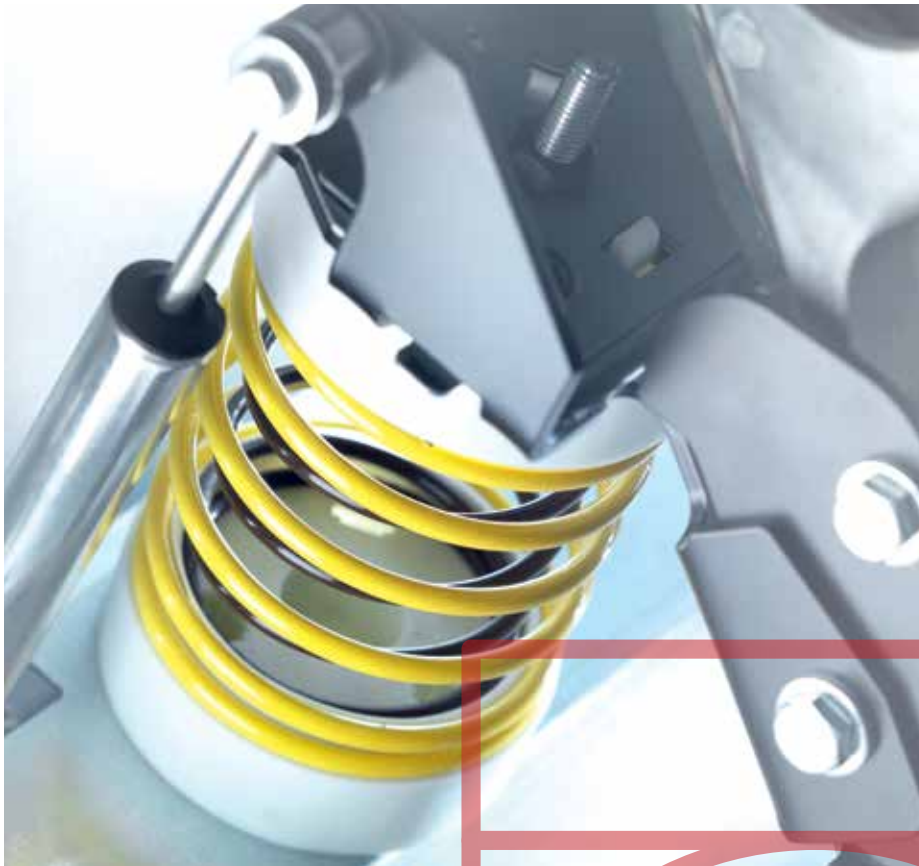
Wetting and drenching is followed by a gradual increase in rotational speed, forcing textiles against the body of the drum and squeezing them in the process. This compression results in a further intensification of the wetting processes, and also increases detergency. Thereafter, the drum speed is slowed down and the pressure on textiles is relaxed, allowing them to soak up more water once again.

These changes in drum speed, with intermittent shower and compression phases, are repeated several times over, ensuring perfect wash performance.

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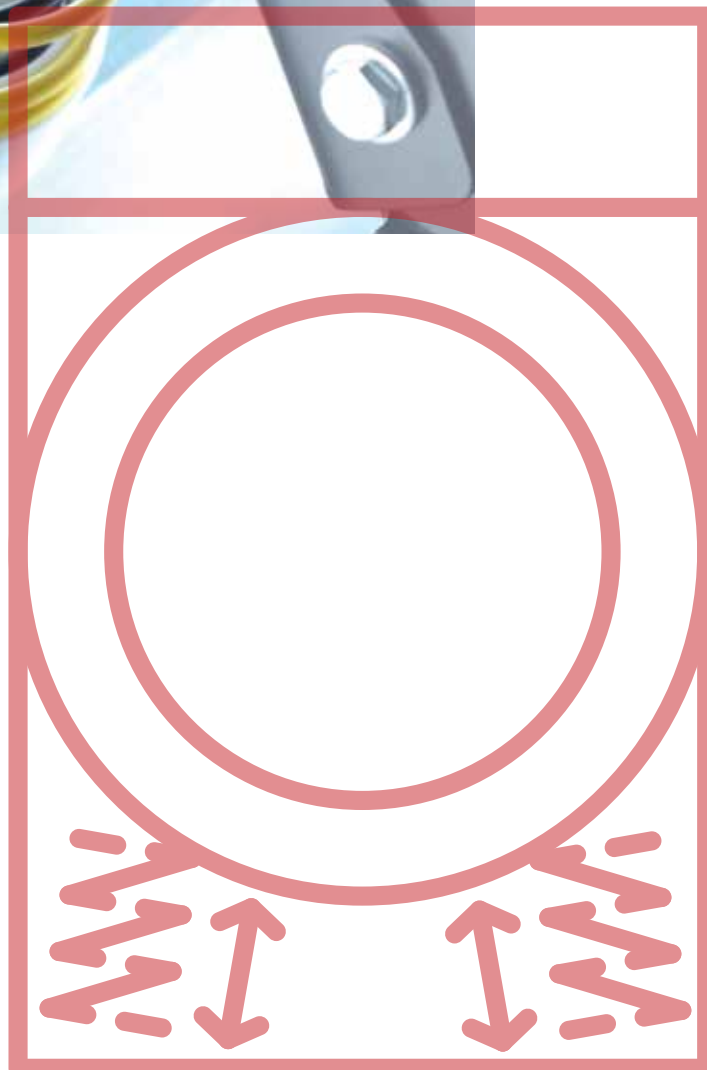
# For top performance in laundries

## Further product benefits



### **Extremely smooth running thanks to highly effective spring-in-spring suspension**

The highly efficient suspension using pairs of independent springs and additional shock absorbers increases transverse rigidity considerably. This approach minimises the impact of vibrations during the spin cycle.

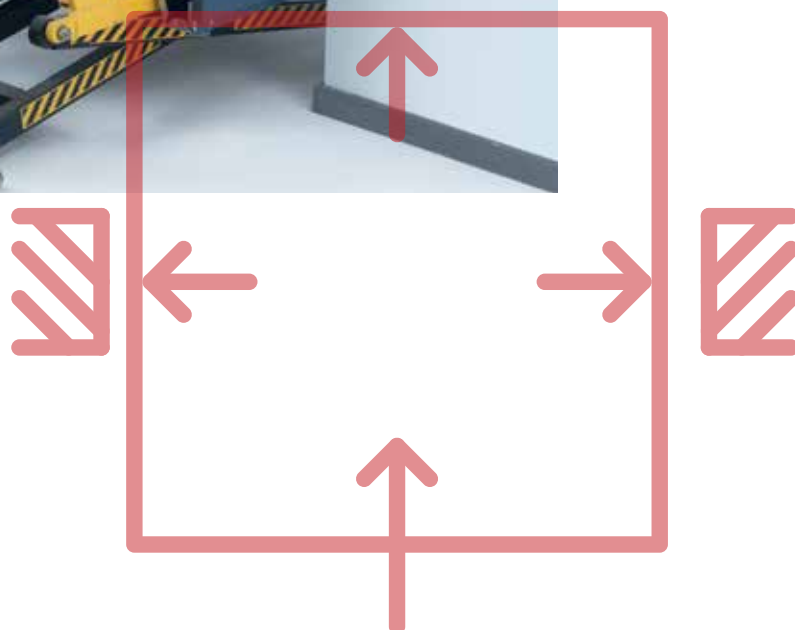






**Simple access to installation site thanks to compact measurements and a palletiser-access plinth**

The external dimensions of the washing machines (width x depth) were chosen from the outset with standard doors with a width of 800 or 900 mm in mind. Furthermore, the machine plinth allows the use of a palletiser. Without any disassembly, transportation is fast and uncomplicated.



# PERFORMANCE washing machines

Load capacity 13–20 kg / Profitronic D controls



## PERFORMANCE

Washing machine	PW 413	PW 418
User interface	Profitronic D	Profitronic D
Load capacity [kg]	13–14	18–20
Drum volume [l]	130	180
Max. spin speed [rpm]	1025	950
g-factor/residual moisture [%]	360/50	360/50
Cycle time** [mins.]	52	52
Heating type	EL	EL
Drainage [DN 70]	AV	AV
Front colour / material	Octoblu	Octoblu
External dimensions H/W/D [mm]	1352/799/1010	1452/924/950

EL = Electric, AV = Dump valve

\* Residual moisture after hot final rinse, \*\* Cycle time in 'Cottons 60°C, hot water fill

### Profitronic D controls

- 6 direct-access pushbuttons
- 12 programmes
- Display showing all information in local language

### Highlights

- Simple door closure with OneFingerTouch
- Efficient use of resources thanks to modified design of suds container
- Extremely smooth running, even at high spin speeds, thanks to efficient suspension system.
- Exclusive to Miele: Optimum laundry care and cleaning thanks to patented honeycomb drum 2.0 with redesigned shower ribs.

### Optional accessories

- Dispenser pump for the automatic dispensing of liquid detergents
- Plinths for ergonomic loading and unloading

The new PERFORMANCE washing machines are also available as special versions to meet the specific needs of contract cleaners and coin-op launderettes.



### Fast access to perfect programmes

PERFORMANCE washing machines with their PROFITRONIC D controls are ideal for simple and error-free machine operation. All information is shown in a display in plain text; users can choose from 11 different languages.

The controls feature 12 pre-set programmes. In addition, important parameters such as temperature and spin speed can be selected manually before the start of each programme. Similarly, current load sizes can be entered to reduce water, energy and detergent consumption accordingly. The controls also allow the connection of up to 12 dispenser pumps.

Programme selection is extremely intuitive using the six buttons on the stainless-steel fascia. The five most frequently used programmes are assigned to buttons 1–5 and are thereafter accessible at the touch of a single button. Other programmes are selected and started from the programme menu which is called up by pressing button 6.





Performs outstandingly well, is unconditionally reliable and yet versatile enough to perfectly clean and decontaminate our heavily soiled protective gear. With its PERFORMANCE PLUS machines, Miele Professional is once again setting standards!

## PERFORMANCE-PLUS



# PERFORMANCE PLUS washing machines

Load capacity 11–20 kg / Profitronic M controls

## PERFORMANCE PLUS



Washing machine	PW 811	PW 814	PW 818
User interface	Profitronic M	Profitronic M	Profitronic M
Load capacity [kg]	11–12	14–16	18–20
Drum volume [l]	110	140	180
Max. spin speed [rpm]	1150	1075	1075
g-factor/residual moisture [%]	460/45	460/45	460/45
Cycle time** [mins.]	45	45	45
Heating types	EL	EL	EL
Drainage [DN 70]	AV	AV	AV
Front colour / material	Stainless steel	Stainless steel	Stainless steel
External dimensions H/W/D [mm]	1352/799/940	1452/924/850	1452/924/950

EL = Electric, D = Steam, HW = Hot water, AV = Dump valve

\* Residual moisture after hot final rinse, \*\* Cycle time in 'Cottons 60°C, hot water fill

### Profitronic M controls

- 6 direct-access pushbuttons plus jog shuttle
- Freely programmable controls with 199 programme slots
- Large range of programmes with application-specific wash cycles
- Display showing all information in local language
- Card reader

### Highlights

- OneFingerTouch facilitates simple door closure
- Efficient use of resources thanks to modified design of suds container
- Extremely smooth running, even at high spin speeds, thanks to efficient suspension system.
- Exclusive to Miele: Optimum laundry care and cleaning thanks to patented honeycomb drum 2.0 with redesigned shower ribs.
- High wash performance through optimum rhythm EcoPulseWash
- Very low residual moisture levels on account of high g-factor
- High daily throughput through very short cycles

### Optional accessories

- Dispenser pump for the automatic dispensing of liquid detergents
- Plinths for ergonomic loading and unloading
- Water recovery module
- Operating data acquisition





## **Freely programmable PROFITRONIC M controls**

Freely programmable Profitronic M controls are a product of Miele's own electronics production plant and were designed to address the individual needs of all users. Machines are supplied with programmes for a wide range of applications in hotels and restaurants as well as ones to cover the needs of care and nursing homes through to reprocessing the apparel used by fire brigades and rescue services. Beyond this, users are free to compile their own programmes from a broad range of parameters and assign them to the 199 vacant programme slots.

## **Excellent user convenience**

The user interface is in the form of a large display using plain text. And, to cater for the needs of the non-nationals often employed by laundries, the controls offer a choice of 11 languages. The large multifunction selector allows fast, direct access to various programmes and programme parameters, e.g. temperatures and spin speeds.

## **Chipcard operation**

Alternatively, these machines can be operated using a chipcard. This allows selected programmes to be assigned to certain machine operatives or applications in order to prevent inadvertent mistakes. Similarly, these smart cards can be used to upload new programmes to the machine.

## **Operating data acquisition as standard feature**

All Miele washer-extractors with Profitronic M controls are equipped as standard with an operating data acquisition module. This allows data from the last 300 programme cycles to be collected and saved and also shown in the display.

- Date, Mach. no. and duty cycle
- Water volume, load size, dispensing, energy
- Programme, temperature and holding time
- Dispensing

## **Further benefits of fully electronic controls**

- Optical interface for service diagnostics and programme updates
- Interface for payment systems
- Interface for RS 232 module
- Remote service and trouble-shooting via RS 232 interface
- 6 dispenser signals with input for 'container empty' signal





# Forever Better

Miele Quality - Made in Germany

## Tested to last 30,000 operating hours

High quality materials, a sophisticated suspension system and sturdy drum bearings ensure excellent durability and longevity as well as extremely smooth running. Miele laundry machines are subjected to intensive quality tests to guarantee their reliability. In addition to the tests specified here, the entire suspended drum assembly, the shock absorbers and the drive unit (motor, pulley wheel and belt) are subjected to further excruciating tests.

## Endurance testing

- Usage: 30,000 operating hours (corresponds to 15 years based on 8 hours a day and 252 working days per year)
- Door system: 60,000 cycles (open, close, lock, unlock)
- Detergent dispenser: 30,000 cycles (open, close)
- On/Off switch: 100,000 actuation cycles
- Washing: 1,000 hours at 60°C and 95°C with changing loads
- Electronic controls: 10,000 hours under extreme duress
- Motor: 30,000 hours of continuous fan operation to test frequency converter

## 100% end-of-line test

Prior to shipment, each machine is subjected to an end-of-line test. This involves a battery of further tests, the results of which are archived.

- Earth conductor continuity test
- Load imbalance test
- High voltage test
- Water and heating type test

Only when a washer-extractor has passed all tests with flying colours can it be approved for shipment. All washer-extractors also are fully compliant with the EU Machinery Directive.

MASCHINEN  
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KONFORM  
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**Forever Better**

Since 1899, Miele - a family-run company - has subscribed to a clear corporate philosophy condensed into the two words 'Forever better'. This overarching claim is the foundation of Miele's proverbial quality and sustainability and the power of innovation of a brand 'Made in Germany'. A brand promise which gives commercial users the certainty of having chosen the right product.

**Award-winning**

Uncompromising product reliability and service dependability is the reason why customers have repeatedly voted Miele the best and most trustworthy brand. Coveted awards such as the MX Award, the iF and reddot Design Awards and the German Sustainability Prize confirm the distinguished position Miele enjoys with respect to design, quality management and the sparing use of resources.

**Proficient**

Miele Professional has been developing and manufacturing a broad range of high-quality laundry machines, dishwashers, washer-disinfectors and sterilisers for decades. Carefully selected accessories, comprehensive advisory services and a Miele factory service operation which guarantees a fast response and ensures that machines perform to perfection and offer the ultimate in performance and efficiency.