

Miele

Perfect balance.

Benchmark Machines: Washing machines and dryers.

Miele Professional. Immer Besser.



Take the direct route.



Discover new perspectives. Combine technology and precision with passion. When the balance is right, the path to success is simply the most direct route.

BENCHMARK MACHINES

Contents

Benchmark washing machines	6-7
Washing machine product overview	8-9
Washing machine highlights	10-13
M Touch Pro and M Touch Pro Plus controls.....	14-15
Benchmark dryers	16-17
Dryer product overview.....	18-19
Dryer highlights.....	20-23
M Touch Pro and M Select controls	24-25
Connectivity and MOVE	26-27

The new standard
in laundry care



As a professional user, you have to meet the high expectations of your customers on a daily basis. At the same time, you still need to keep an eye on cost-efficient operation. Performance pitted against cost-efficiency – strike that perfect balance with Benchmark Machines from Miele Professional:

- Unique operation: intuitive and safe
- Simple connectivity for an efficient system
- High performance combined with sustainable efficiency
- Tailored solutions for every type of business



BENCHMARK MACHINES

Every step counts.



The new Benchmark washing machines combine top-flight results with unique efficiency and modern-day connectivity. With tailored solutions and cycles which are perfectly geared to your applications, you can be sure of having made the perfect choice with the Performance and Performance Plus machines.



BENCHMARK WASHERS

Benchmark Machines

Washing machines and washer-dryer stacks

Load capacity 9–20 kg

The Benchmark washing machines from the Performance line meet all the typical challenges of modern laundry care. All programmes adapt flexibly to needs and all machines feature disinfection programmes as standard.

The BenchMark series of washing machines are Regulation 4 compliant with a fluid category 5 A B type airgap.

Washing machine	PWM 511	PWM 514	PWM 520
Programme controls	M Touch Pro	M Touch Pro	M Touch Pro
Load capacity 1:9 [kg]	11	14	20
Drum volume [l]	100	130	180
Max. spin speed [rpm]	1,100	1,025	950
g-factor/residual moisture [%]	370/50	360/49	360/49
Cycle time [mins.] *	49	49	49
Certified to regulation 4	WRAS	KIWA	KIWA

Front: Iron grey, * Cycle time, Cottons 60°C, hot water connection

PERFORMANCE



Benchmark washing machines from the Performance Plus line master even the most demanding of challenges. Programmes for thermal and chemo-thermal disinfection are included ex works. The entire set of programmes can be fully adapted to suit individual requirements, including the option of creating new, customised cycles.

Water Regulation 4 certified.

Washing machine	PWM 909	PDW 909**	PWM 912	PWM 916	PWM 920
Programme controls	M Touch Pro Plus	M Touch Pro Plus	M Touch Pro Plus	M Touch Pro Plus	M Touch Pro Plus
Load capacity 1:9 [kg]	9	9	12	16	20
Drum volume [l]	80	80	110	140	180
Max. spin speed [rpm]	1,300	1,300	1,150	1,075	1,075
g-factor/residual moisture [%]	520/44	520/44	460/44	460/44	460/44
Cycle time [mins.] *	45	45	42	43	44
Certified to regulation 4	WRAS	WRAS	KIWA	KIWA	KIWA

Front: Stainless steel, * Cycle time, Cottons 60°C, hot water connection ** Washer-dryer stack

PERFORMANCE PLUS



Performance opens up new perspectives

No compromises.

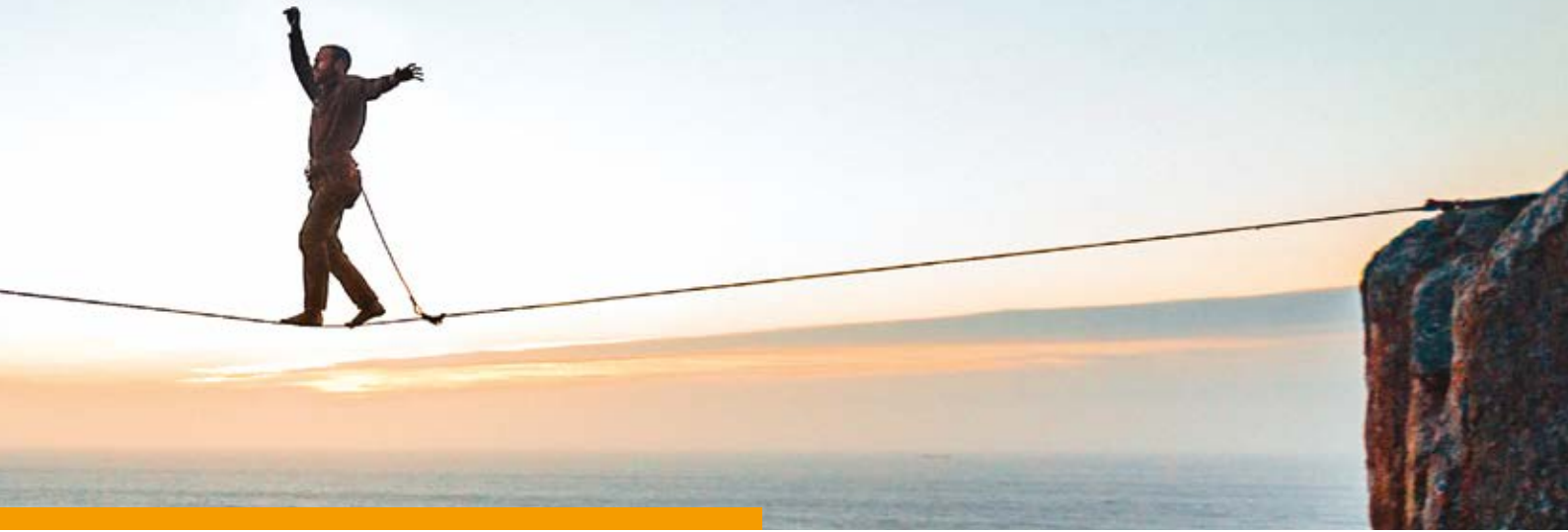
All Benchmark washing machines are geared to achieving top performance. This is clearly illustrated both by the design of the machines and the thoroughly optimised laundry technology with its powerful, frequency-controlled asynchronous motor. With a gentle ramp-up of speed in the initial phase and smooth running properties even at high spin speeds, the new motor promises maximum performance and excellent product longevity. Disturbing noises and vibration during operation are reduced to a minimum.

Time is money, and Miele's honeycomb drum 2.0 speeds up the wetting of laundry and the removal of soil. A rewarding investment: In the PWM 912, your 12 kg laundry load is thoroughly washed and residual moisture reduced to 44% thanks to a g-factor of 460 in only 42 minutes*. This saves time and energy in the subsequent finishing process.

* 60°C cycle and with hot water connection



Efficiency and breathing space.



Gentle on environment and pocket.

In the previous example, consumption is as low as only 5.9 l of water per kg of laundry – a brand new reference value. This is achieved through intelligent technologies such as the EcoSpeed drum rhythm. Here, the drum speed increases and decreases gradually, allowing laundry to be thoroughly wetted and dewatered.

The shape of the outer drum also contributes to reducing water consumption by optimising the space available for free wash liquor. At the same time, its gently bowed form ensures that the heater elements are accessible to water, preventing any build-up of lint. This ensures smooth operation every single day – and guarantees the particularly efficient transfer of heat.



Maximum flexibility.

Perfect solutions tailored to meet your everyday requirements.

No matter what type of textiles your business has to deal with and how your laundry workflow is set up, Benchmark Machines represent a tailored solution. Also when it comes to dispensing detergent: It makes no difference whether you use powder or liquid detergents or external dispenser pumps. And automatic load control represents a further benefit in the targeted use of energy and detergents.



Proverbial quality.

Dependability has a name.

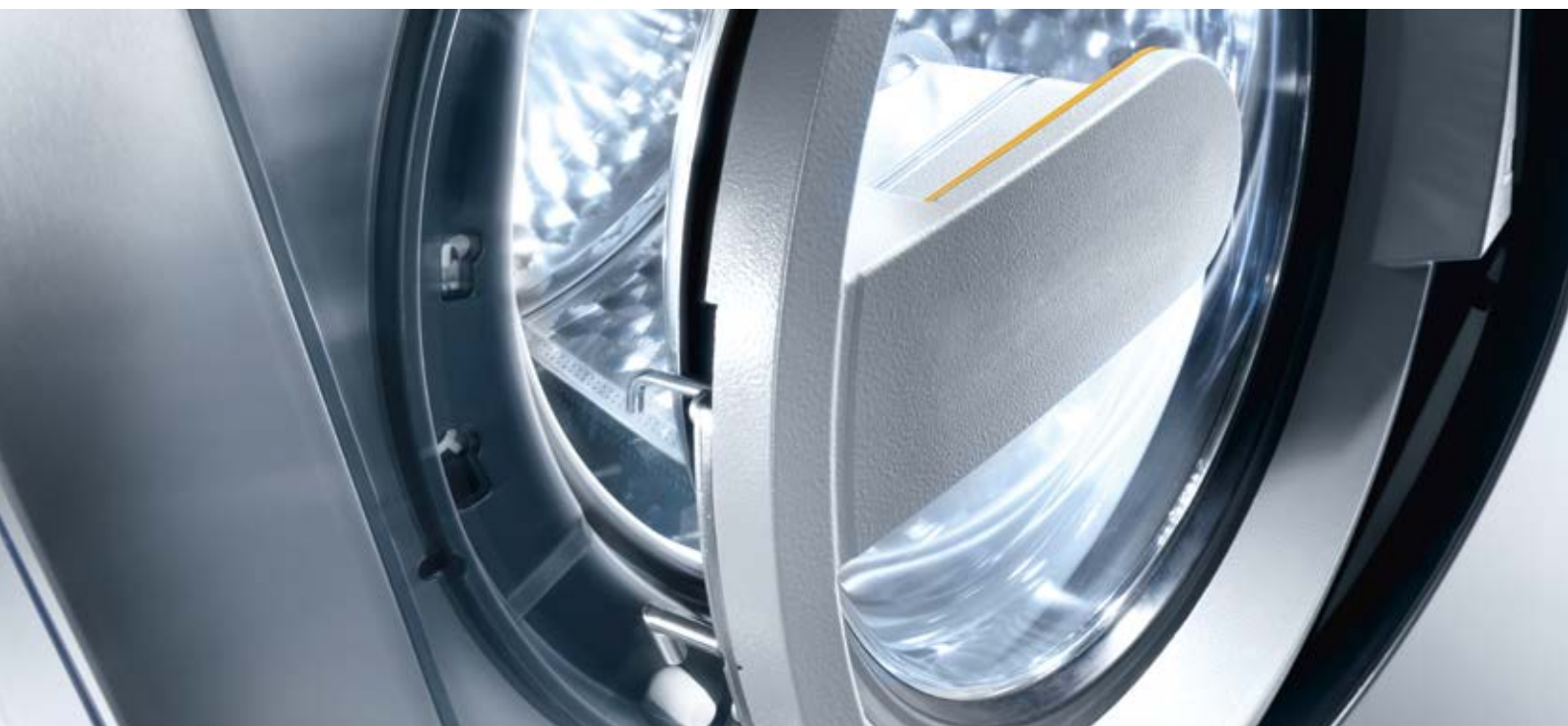
Miele quality through and through: Robust Benchmark washing machines are built to last 30,000 hours of operation whilst reducing maintenance to a minimum. Innovations such as the low-maintenance asynchronous motor and the highly efficient spring-in-spring suspension system ensure smooth running properties. With the new 3D sensor which permanently analyses load imbalances, the machine is also able to optimise spin cycles. This further extends machine life expectancy and allows the machine's capacity to be used to the full.



Stimulating ergonomics.

User convenience in abundance makes work a pleasure.

With its 415 mm wide porthole, the drum door on Benchmark washing machines makes loading and unloading particularly simple. Also unique: the automatic OneFingerTouch door mechanism. A slight touch of a fingertip causes an electric motor to close and lock the door – opening automatically once again at the end of the programme.





Minimum iron



Delicates



+ Cottons



+ Cottons

Mic



With their M Touch Pro and M Touch Pro Plus controls, Benchmark washing machines offer an entirely new user interface design. The standard full touch colour display provides all important information at a glance. Each stage of operation is simple and convenient, at the touch of a fingertip, supported by international symbols and colour outlines. Extended functionalities such as 'show me how' sequences make machine operation even safer and simpler.

M Touch Pro

Thanks to their M Touch Pro controls, Benchmark washing machines from the Performance line come replete with a full lineup of programmes to cater for typical standard applications. These also include two RKI-compliant programmes for thermal and chemo-thermal disinfection in order to meet more stringent hygiene requirements. All programmes can be individually adjusted, for example with respect to temperatures and selectable extras.

PERFORMANCE

As flexible as necessary.
As intelligent as possible.



Programme packages for specific branches:
Hotel/Restaurant/Catering, Disinfection, Contract
Cleaning, Fire Services, WetCare, Outdoor,
Equestrian, Sport, Workwear, Self-Service

M Touch Pro Plus

Benchmark washing machines from the Performance Plus line feature M Touch Pro Plus controls. These come fitted ex works with a comprehensive range of standard and special-purpose programmes. All programmes are fully customisable. These controls also afford the opportunity to create and save completely new programmes, allowing the potential of the machine to be used to the full in all applications.

PERFORMANCE PLUS

Merely a question of technology



The new Benchmark dryers combine first-class results and running times with unique energy efficiency. Whether user interface philosophy, programme diversity or heating type: Simply select the model which best meets your requirements – with the two product lines Performance and Performance Plus to select from.



BENCHMARK DRYERS

Benchmark Machines

Dryers and washer-dryer stacks

Load capacity 11–44 kg

The new Benchmark dryers from the Performance line meet all the standard requirements of modern laundry care.

(ROP) sensor controls (GB & IE)

(TOP) time controls (GB, PDR 510. IE, PDR 510, PDR 514, PDR 518, PDR 522)

Dryer	PDR 510	PDR 514	PDR 518	PDR 522	PDR 528	PDR 544
Controls	M Select ROP/TOP/COP	M Select TOP/ROP	M Select TOP/ROP	M Select TOP/ROP	M Select ROP	M Select ROP
Load capacity 1:25/1:18 [kg]	8/10	10/14	13/18	16/22	20/28	32/44
Drum volume [l]	180	250	325	400	500	800
Cycle time [mins.] *	36	33	32	31	32	38

Front colour/material: iron grey/stainless steel (depending on model); *in 'Normal dry' programme 0%, Load capacity 1:18, vented drying system
Please note some models are country specific so please check with your local sales representative.

PERFORMANCE



Benchmark dryers from the Performance Plus line rise to challenges in the drying of textiles. All programmes adapt flexibly to individual requirements whilst at the same time facilitating AirRecycling Flex air recirculation and offering a broad range of heating types for maximum efficiency.

Dryer	PDW 909**	PDR 910	PDR 914*	PDR 918*	PDR 922	PDR 528	PDR 944
Controls	M Touch Pro	M Touch Pro	M Touch Pro	M Touch Pro	M Touch Pro	M Touch Pro	M Touch Pro
Load capacity 1:25/1:18 [kg]	8/10	8/10	10/14	13/18	16/22	20/28	32/44
Drum volume [l]	180	180	250	325	400	500	800
Cycle time [mins.] *	36	36	33	31	31	32	38

Front colour/material: iron grey/stainless steel (depending on model); *in 'Normal dry' programme 0%, Load capacity 1:18, vented drying system **Washer-dryer stack
Please note some models are country specific so please check with your local sales representative.

PERFORMANCE PLUS



Reliable quality



Dependability has a name.

Benchmark dryers subscribe to Miele's proverbial quality standards. A rugged build is designed for 20,000 hours of operation and minimum maintenance. Miele's high degree of vertical integration also contributes to product longevity: A large proportion of components, such as motors, are built by Miele and hence ideally prepared for the rough and tumble of working life in a laundry.



Stimulating ergonomics.

Everything under control in the laundry.

To make the drum door even simpler to use, the new Benchmark dryers sport a completely redesigned door handle with a larger grip. Similarly, the service hatch has also been at the focus of attention: It is now particularly easy to open, further simplifying the job of cleaning the large lint filter.



Performance enhances safety

Efficiency makes economic sense



Stretching the envelope, gentle to laundry.

Benchmark dryers achieve drying times which come close to the limits of physics – yet still take immaculate care of textiles. The low-maintenance DC motor guarantees a gentle start and smooth drum rotation whilst the newly developed fan impeller ensures uniform pressure.

In the unique Miele honeycomb drum with its rounded SoftLift ribs, garments are raised high before they tumble through the air stream to land gently on a myriad of air cushions. To ensure spot-on drying, the PerfectDry system continuously records residual moisture levels in the load, ensuring that drying ends when results are perfect.



AirRecycling Flex functions



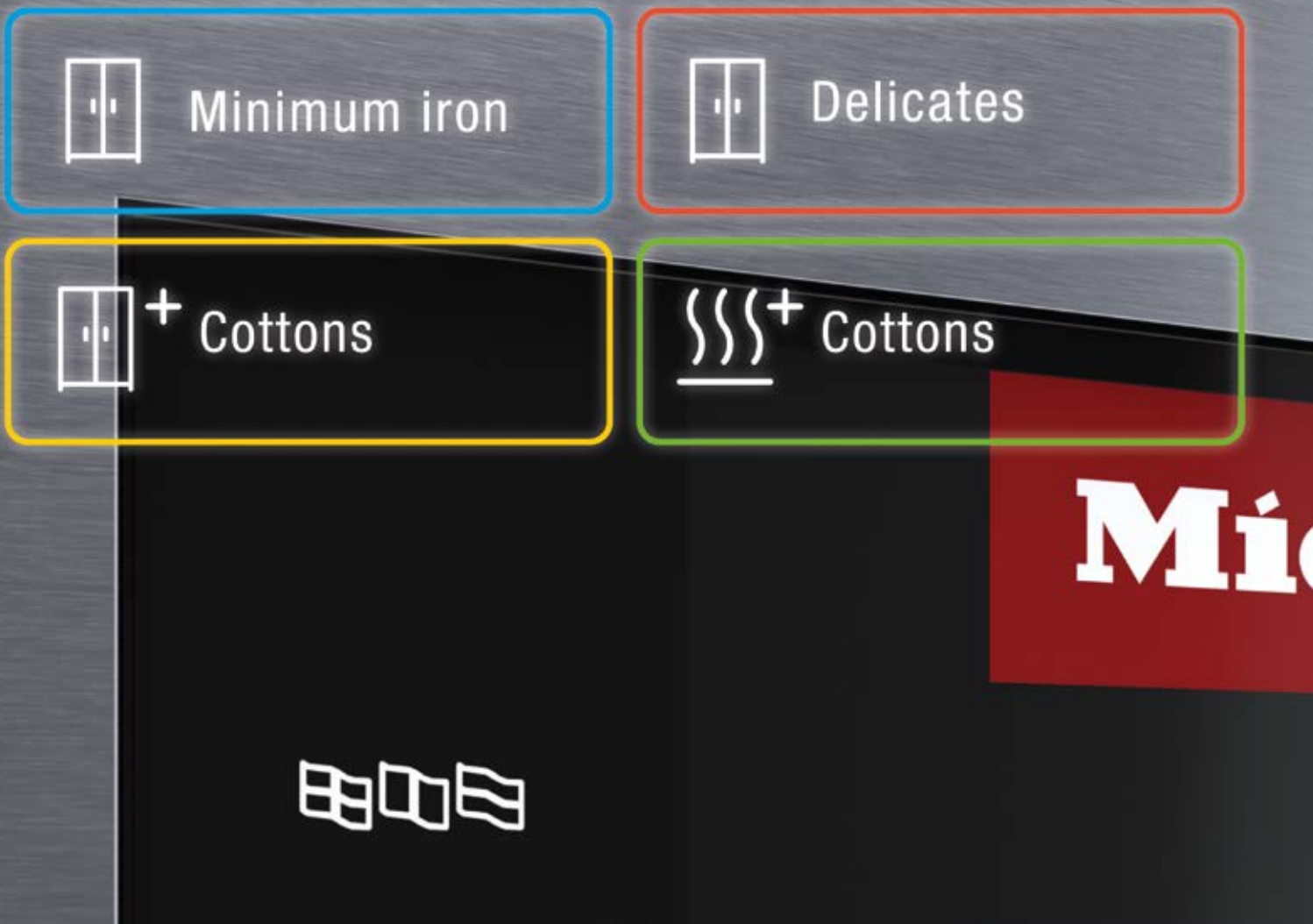
Heat-pump drying - Principle of operation

Making optimum use of energy.

In the interests of the efficient use of heat energy, Benchmark dryers redirect a proportion of air in circulation back into the drum. Models from the Performance Plus line also feature the new AirRecycling Flex system: This strikes a dynamic balance between recycled and vented air, intelligently adjusting operation to on-site conditions. This saves time while a machine is still cold and energy once a machine is at operating temperature.



To facilitate use of the least expensive source of energy, various heating types such as electric, gas and steam are available. Particularly energy-efficient heat-pump dryers are now also available through to the 400 l category and also use a new, climate-friendly coolant.



Two lines, two user interface philosophies Benchmark dryers from the Performance line are designed for extremely simple, error-free operation using a rotary selector. Models from the Performance Plus line are operated from a touch display and offer a broader range of programmes and allow greater customisation.

M Touch Pro

Thanks to their M Touch Pro controls, Benchmark washing machines from the Performance Plus line come replete with a balanced selection of programmes to cater for typical standard applications. Each stage of operation is simple and convenient, at the touch of a fingertip, supported by international symbols and colour outlines. In addition to this, freely adjustable programmes can be compiled to meet special needs.

PERFORMANCE PLUS

As simple as possible.
As flexible as necessary.



M Select

With M Select controls, Benchmark dryers from the Performance line have all key functions on board to cater for standard applications. The selection of programmes and options is fast and direct using a rotary selector and direct-access membrane switches, supported by control panels with international symbols. Controls are available in 3 versions for a variety of applications: COP (coin-op time controls), TOP (time controls) and ROP (sensor controls).

PERFORMANCE

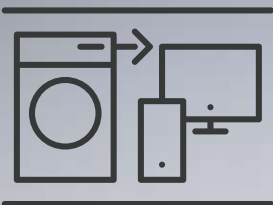
Future-proof connectivity



Everything visible at a glance.

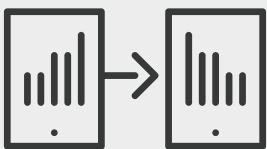
For efficient data transfer which meets accepted standards, Benchmark machines come ready to work for WiFi and LAN connection. Integration into a business network is therefore just as simple as connection to Miele's new digital productivity platform Miele MOVE.

An interface for the new Miele Connector Box is also a standard feature. This downwardly compatible box standardises the existing plethora of connections in accordance with the Plug & Play principle: All external systems providing a 230 V signal, such as payment systems and dispensers, can be connected with ease, even without opening the machine casing.



Move Your Business.

Miele MOVE connects commercial machines, improves processes and helps to cut running costs: intuitively, transparently and efficiently. The platform combines convenient user interfaces with intelligent assistance tools, opening up new opportunities for transparent machine management.



Freedom to make individual changes.

The new Miele programming tool for Benchmark machines allows the convenient adaptation of washing machines and dryers to take on board on-site requirements. Depending on the product line, it is also possible to allocate programme names on an individual basis, to modify existing cycles or indeed to create entirely new programmes – from the convenience of your own desk and without any duplication when changes apply to multiple machines.

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