

**Miele**

Top-class safety, cleanliness and material compatibility.  
Lab washers.

**Miele Professional. Immer Besser.**



**NEW 2020:** EasyLoad  
Reinvented loading system

# A systematic approach from Miele Professional

A clear decision in favour of Miele



In developing reprocessing solutions for laboratory glassware, Miele Professional has always placed its focus on close cooperation with the experts in industry, with research laboratories and with highly reputable glassware manufacturers. The result of this cooperation based on trust and innovation are machines and processes which convince discerning users all along the line.

## **Quality**

Reproducible analyses require quality - quality in terms of laboratory glassware and its reprocessing. Miele's proverbial standards of quality can be relied on at all times: Sophisticated design and high-quality materials underline the first-class reputation of Miele Professional in laboratories. And this is equalled by the quality of service which has won Miele numerous awards over the years.

## **Performance**

Lab washers from Miele Professional have a proven ability to stand up to the stresses and strains of everyday laboratory life. Their insatiable appetite for work, a wide range of accessories and practical processes ensures perfect results and a high throughput capacity each time round, even when reprocessing special loads. Valuable laboratory glassware is ready for re-use again within next to no time.

## **Efficiency**

Profit daily from excellent efficiency: Machines from Miele Professional are thorough and fast, affording top-rate protection to materials in the process. Thanks to their high quality, they also require little maintenance and are highly durable, safeguarding your investments in many respects. The efficient use of water and chemicals also equates to low running costs.



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

For four generations, Miele has carried a special responsibility as a family-run company towards its customers, its business partners and its employees as well as for its products, processes and natural resources.

- 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 wide coverage and a fast response



**55** YEARS **Laboratory Technology**

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# Compact lab washer

PG 8583, PG 8593, PG 8583 CD

Lab washers from Miele Professional represent a commercial-grade solution for laboratory glassware for analytical experiments. This approach is particularly gentle on materials and is recommended by leading manufacturers of laboratory glassware such as DWK Life Sciences.

**Developed for perfect lab glass reprocessing:  
System4Lab**

**The systematic approach to cleaning, combining the gentle treatment of materials with cost efficiency in laboratories.**

- **Washing and disinfection**

Innovative lab washers with individually selectable features

- **Process chemicals**

Process chemicals for the thorough and gentle cleaning of all laboratory glassware

- **Process documentation**

Intelligent documentation software for reproducible and uninterrupted process monitoring

- **Services**

Miele guarantees the highest of standards in providing advice, financing, after-sales service and maintenance





DESIGN  
AWARD  
2015



# Product benefits

PG 8583, PG 8593, PG 8583 CD lab washers

## Competent and innovative



recommended by



- Intensive development work and close cooperation
- Trend-setting process development and product specifications



## Greater capacity

- High capacity (e.g. up to 260 injector nozzles in combination with the modules for pipettes and laboratory glassware), achieved through optimised chamber dimensions and a completely redesigned range of load carriers, saves time, storage space and costs.
- Rear basket docking enables full use of space in load carriers. Laboratory glassware turnaround is increased and work is speeded up at peak hours.



## Greater purity

- Excellent cleaning performance.
- Variable-speed pump for perfect spray pressure in all programme phases.
- Laser technology is used to weld the chamber sections to give a perfectly smooth, crevice-free finish for the ultimate in hygiene.
- No more heater elements in the wash chamber.
- Multi-stage filtration system is highly efficient in removing particulate soil from water in circulation.
- Spray pressure and spray arm monitoring detects any loss in pressure as well as load items preventing spray arm rotation.
- Conductivity monitoring ensures required water quality.



## Greater flexibility

- A new, modular basket concept offers maximum flexibility and intuitive operation as modules can be used in different combinations and can easily be reconfigured.
- Wide range of combination options guarantees flexibility in catering for different loads.
- Reduction in number of load carriers needed saves both on investments and storage space.
- In addition to a broad selection of standard programmes, client-specific cycles ensure that reprocessing suits the type of soil and the type and quantity of laboratory glassware.

# Overview of further product benefits

PG 8583, PG 8593, PG 8583 CD lab washers



## Design and user interface

The modern design and the intuitive user interface make for the incredibly simple use of lab washers.

- The new control panel is the central design element and represents an intelligent combination of door handle and control panel. It consists of a single, flush stainless-steel surface with embedded 'touch-on-steel' controls.
- Inclined control panel for improved legibility.
- 3-line text display and intuitive user interface for hassle-free operation.
- Programmes catering for all types of glassware and soils and vacant programme slots for user-specific programmes.
- Freely assignable direct-access buttons and individually selectable programme names for fast access to routine tasks.
- Flush, smooth control panel and handle surfaces for simple wipe cleaning.



## Ergonomics

An easily accessible salt container in the door and the AutoClose functions simplify the work of those operating these machines.

- The patented door salt container has a capacity of approx. 2 kg. Replenishing the salt no longer requires bending or stooping as the job can be performed standing upright. Similarly, there is no longer any need to remove heavy baskets and load carriers to access the salt container.
- AutoClose: Slight contact between the door and the machine is sufficient to automatically close the door. As a result, only a minimum of effort is required to reliably close and lock the door.



## Highly efficient drying

Depending on the model, the new lab washers feature DryPlus hot-air drying or EcoDry to assist drying by releasing steam.

- EcoDry: The door of the PG 8581 opens automatically at the end of a programme once the temperature in the chamber drops below 70°C. This releases hot, moisture-laden air, allowing the load to dry and cool down faster.
- DryPlus hot-air drying on the PG 8593/PG 8583 CD represents an ideal solution when dealing with intricate and narrow-lumened laboratory glassware and equipment. An upstream Class H13/H14 HEPA filter ensures the reliable removal of particles from the air taken in for drying. The filter is easily accessible for servicing via a hatch in the machine toekick panel (PG 8593) or in the side unit (PG 8583 CD).



#### **Hygienic chamber**

A completely redesigned chamber on the new lab washers enables high standards of hygiene and purity for analytical experiments.

- Laser technology is used to weld the chamber sections to give a perfectly smooth, crevice-free finish offering no nooks or crannies where blood or soil can accumulate.
- The removal of heater elements from the chamber removes a further potential source of a build-up of contamination and eliminates the risk of damage to plastic items.
- Greater space in the chamber facilitates a higher capacity per cycle (e.g. 128 laboratory phials or 98 pipettes together with other laboratory glassware).



#### **Rear basket docking system**

The relocation of the docking system for upper and lower baskets and load carriers to the rear of the chamber guarantees a more streamlined water and air circuit and improves the use of resources.

- Shorter circulation paths help minimise pressure losses and reductions in water temperature.
- Automatically self-sealing valves when not in use ensure uniformly high spray pressure.
- Use of same docking system to supply load carriers with water and hot air for internal drying.



#### **Optimised spray arms**

The new spray arm design consistently improves on progress made on previous model series and ensures the ultimate in reprocessing reliability.

- Different nozzle forms ensure the forceful removal of persistent soil and the uniform wetting of wash loads.
- Full spray jet coverage thanks to new arrangement of nozzles on spray arms.
- Lower water consumption per cycle without any trade-off in terms of cleaning performance.



#### **Safety through constant checks**

The new lab washers feature spray pressure and spray arm monitoring and some models also monitor water conductivity. These advanced sensors make a considerable contribution towards ensuring the reliability of reprocessing.

- Blockages caused by protruding load items are immediately detected
- Spray pressure losses as a result, for example, of excessive foaming is reliably detected.
- Deviations from the selected conductivity level in the final rinse water are reliably detected.
- Thanks to integrated sensors, deviations from the programme parameters are immediately recognised, allowing rapid intervention on the part of users - Range 0  $\mu\text{S}/\text{cm}$  - 1  $\text{mS}/\text{cm}$ .

# Appliance overview

PG 8583, PG 8593, PG 8583 CD



Lab washers (left to right)	PG 8583	PG 8593	PG 8583 CD
Width	600	600	900
Height, Depth [mm]	835 (820*), 600	835 (820*), 600	820*, 600**
Shortest cycle*** [mins.]	20	20	20
Capacity: Lab phials	128	128	128
Capacity: Pipettes	98	98	98
Capacity: Mixed load consisting of laboratory phials and pipettes	130	130	130
Capacity: Mixed load consisting of laboratory glassware and phials	260	260	260
Drying	EcoDry	DryPlus	DryPlus
Integrated dispenser pump (depending on version)****	1 or 2	1	2
Drawer for supply canisters (3 x 5 l or 2 x 10 l)	–	–	•
Electrical connection 3N AC 400 V, 50 Hz	•	•	•
Total rated load [kW]	9.3	9.3	9.3

\* Undercounter units

\*\* Free-standing unit with lid (optional) H 835, D 700 mm

\*\*\* Mini programme

\*\*\*\* Length of siphon: 333 mm für 5 l and 10 l canisters

# Programmes, cycle times, consumption

PG 8583						Drying	
	Main wash					Cycle time	Energy
	Cycle time	CW	HW	AD	Energy		
	[mins.]	[l]	[l]	[l]	[kWh]	[mins.]	[kWh]
Universal	34	4.5	31.5	18.5	1.7	3	–
Standard	29	5.0	14.0	18.5	1.7	2	–
Intensive	36	4.5	23.5	27.5	1.9	3	–
Anorganica	38	5.0	24.0	27.5	1.8	2	–
Organica	40	–	37.0	18.5	2.0	3	–
Injector Plus	40	6.0	42.0	24.0	1.8	3	–
Pipettes	43	7.5	37.5	45.0	1.8	2	–
Plastics	34	36.0	–	18.5	1.5	–	–
Mini	20	–	19.0	9.5	2.3	–	–
Oils	41	–	47.0	18.5	1.9	3	–
Special 93°C-10'	53	11.9	29.6	14.0	3.4	3	–
De-min. rinse	6	–	–	10.0	–	–	–
Drain	4	10.0	–	–	–	–	–

PG 8593							
Universal	33	4.5	31.5	18.5	2.1	37	0.7
Standard	28	5.0	14.0	18.5	2.8	37	0.7
Intensive	35	4.5	23.5	27.5	2.3	37	0.7
Anorganica	36	5.0	24.0	27.5	2.4	37	0.7
Organica	38	–	37.0	18.5	1.8	37	0.7
Injector Plus	38	6.0	42.0	24.0	2.0	37	0.7
Pipettes	40	7.5	37.5	45.0	2.3	47	0.6
Plastics	33	36.0	–	18.5	1.6	52	0.7
Mini	18	–	19.0	9.5	2.3	37	0.7
Oils	39	–	47.0	18.5	1.6	37	0.7
Special 93°C-10'	51	11.9	29.6	14.0	1.5	79	1.4
De-min. rinse	6	–	–	10.0	1.6	–	–
Drain	4	10.0	–	–	3.0	–	–
Drying	–	–	–	–	–	40	0.7

PG 8583 CD							
Universal	33	4.5	31.5	18.5	2.1	37	0.7
Standard	28	5.0	14.0	18.5	2.8	37	0.7
Intensive	35	4.5	23.5	27.5	2.3	37	0.7
Anorganica	36	5.0	24.0	27.5	2.4	37	0.7
Organica	38	–	37.0	18.5	1.8	37	0.7
Injector Plus	38	6.0	42.0	24.0	2.0	37	0.7
Pipettes	40	7.5	37.5	45.0	2.3	47	0.6
Plastics	33	36.0	–	18.5	1.6	52	0.7
Mini	18	–	19.0	9.5	2.3	37	0.7
Oils	39	–	47.0	18.5	1.6	37	0.7
Special 93°C-10'	51	11.9	29.6	14.0	1.5	79	1.4
De-min. rinse	6	–	–	10.0	1.6	–	–
Drain	4	10.0	–	–	3.0	–	–
Drying	–	–	–	–	–	40	0.7

Heating: 8.5 kW (3N AC 400V 50Hz), connection to cold water (15°C), hot water (65°C) and demineralised water (15°C)





# Innovative load carrier system

Load carriers and inserts offering improved efficiency

In the interests of the safety and retaining the value of laboratory glassware and equipment, Miele Professional offers a wide range of accessories, consisting of upper and lower baskets, load carriers and inserts for a variety of glassware types.

The load carrier system has undergone further optimisation in order to make loading even simpler. Thanks to EasyLoad, loading was never simpler!

## EASYLOAD

### Great efficiency and versatility

The new EasyLoad system utilises the available space in the chamber to a higher degree, allowing more laboratory glassware and equipment and other load items to be washed in each cycle. Another benefit accrues from the redesigned water and air circuit: Wash liquor and drying air is fed along a shorter and streamlined circuit and with minimal pressure losses on the way to the spray arms and injector nozzles. Optimum pressure conditions are also created by the automatically self-sealing docking valves when not occupied. The modular nature of the new load carriers represents a further product benefit, facilitating future extensions.

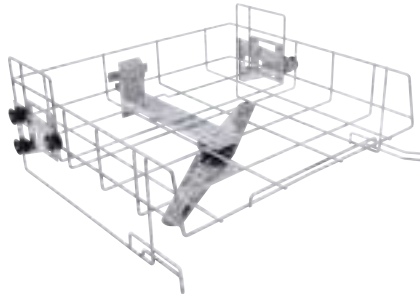
# Overview of upper and lower baskets and load carriers

for PG 8583, PG 8593 and PG 8583 CD



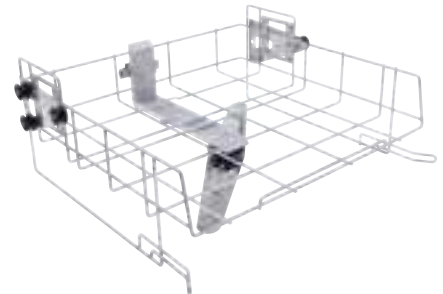
## A 100 upper basket for modules

- Upper basket with two docking pipes
- For the connection of up to two injector modules
- Automatically self-sealing docking valves
- H 141, W 528, D 525 mm
- Loading dimensions H 235, W 485, D 435 mm



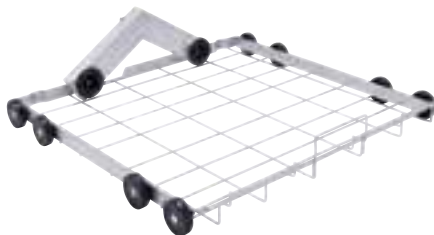
## A 101 upper basket/open front

- Open front
- For various inserts
- Height-adjustable
- Built-in spray arm
- H 206, W 528, D 527 mm
- Loading dimensions H 160 +/- 30, W 475, D 443 mm



## A 102 upper basket/open front

- Open front
- For various inserts
- Height-adjustable
- Built-in spray arm
- H 206, W 528, D 527 mm
- Loading dimensions H 205 +/- 30, W 475, D 443 mm



## A 150 lower basket for modules

- Lower basket with two docking pipes
- For the connection of up to two injector modules
- Automatically self-sealing docking valves
- H 154, W 529, D 546 mm
- Loading dimensions H 235, (with A 100 upper basket) W 490, D 435 mm



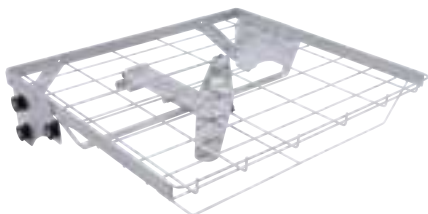
## A 151 lower basket/open front

- For various inserts
- H 88, W 529, D 110 mm
- Loading dimensions
  - H with A 100: 235 mm
  - H with A 101: 275 +/- 40 mm
  - H with A 102: 230 +/- 30 mm
  - H with A 103: 305 mm
  - H without upper basket 495
- W 490, D 489 mm



## A 202 load carrier

- For inserts on 2 levels
- Built-in spray arm
- Loading dimensions, lower level:
  - H 95, W 519, D 485 mm or H 135, W 494, D 500 mm (with/without rack inserts)
- Loading dimensions, upper level: H 135, W 516, D 462
- 6 additional LuerLock connections
- H 223, W 529, D 542 mm



#### **A 103 upper basket/open front**

- Open front
- For various inserts
- Built-in spray arm
- Particularly suitable for the reprocessing of shallow loads in combination with A 202 load carrier.
- H 133, W 528, D 528 mm
- Loading dimensions H 95, W 505, D 472 mm



#### **E 802 nozzle**

- Applies to lab washer with powder dispensing
- For use with injector modules to rinse out powder residue from door dispenser
- H 187, W 30, D 15 mm

# EasyLoad – Fast loading and highly efficient use of chamber space. The new loading system for cleaning laboratory glassware.

Miele reinvents loading: with EasyLoad

## EASYLOAD

- New injector system for all common injector modules and a large number of further load carriers
- Optimum use of available vertical clearance
- Particularly fast and simple arrangement of load
- Thorough internal cleaning of glassware of all shapes and sizes
- Secure hold and exceptional material protection during wash cycle

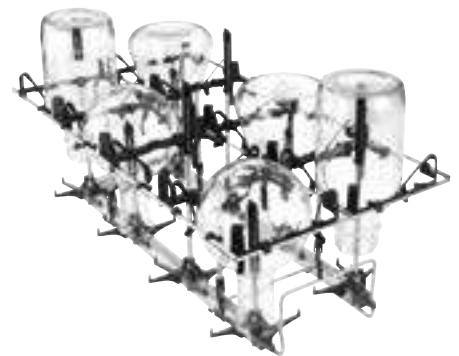
**EasyLoad means efficiency and a systematic approach to convenience:**

- New injector nozzles (3 diameters, 6 lengths)
- New plastic holders and rests
- New injector modules (8, 18 or 32 injectors)
- New support frames (for 8, 18 or 32 injector positions)
- Available for PG 8583, PG 8583 CD, PG 8593 and PG 8536

**The use of the new injector nozzles and rests without a support frame is possible in virtually all Miele lab load carriers.**



Even if a nozzle tip rests against the base of a glass, the new injectors still guarantee thorough cleaning. The new rest surrounds the injectors in the module or basket, preventing lateral movement without wasting valuable height.



The new support frame provides additional hold. As and when required, it is placed on top of the injector module, providing a secure hold to even large items of laboratory glassware in a vertical and protected position.

# Injector modules for laboratory glassware

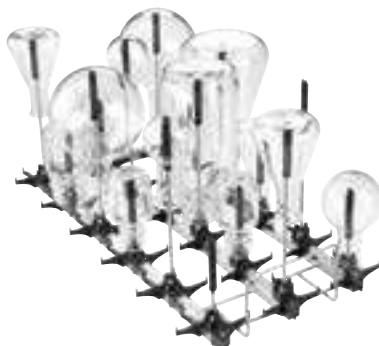
For use with A 100 upper basket and A 150 lower basket

**EASYLOAD**



## **A 300/3 module 2x4**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (250 - 1,000 ml)
- 4x A 840 injector nozzles, 4x A 841 injector nozzles
- H 228, W 208, D 479 mm



## **A 301/5 module 3x6**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (50 - 250 ml)
- 9x A 842 injector nozzles, 9x A 843 injector nozzles
- H 203, W 229, D 493 mm



## **A 302/3 module 4x8**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders (25 - 100 ml)
- 16x A 844 injector nozzles, 16x A 845 injector nozzles
- H 143, W 240, D 477 mm



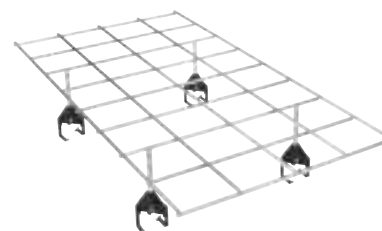
## **A 860 holder rack 2x4**

- For improved protection and centring of load items
- For use with A 300/3 und A 300/2 modules



## **A 861 holder rack 3x6**

- For improved protection and centring of load items
- For use with A 301/5 und A 301/4 modules



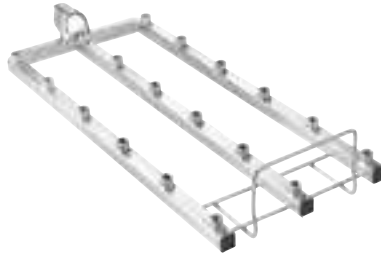
## **A 862 holder rack 4x8**

- For improved protection and centring of load items
- For use with A 302/3 und A 302/2 modules



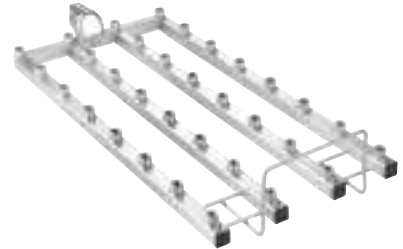
## **A 300/2 module 2x4 (w/o nozzles)**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 8 injector nozzles (particularly suitable for Ø 6 mm, e.g. A 840 or A 841, other diameters possible depending on application)
- H 73, W 133, D 475 mm



## **A 301/4 module 3x6 (w/o nozzles)**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 18 injector nozzles (particularly suitable for Ø 4 mm, e.g. A 842 or A 843, other diameters possible depending on application)
- H 73, W 173, D 475 mm



## **A 302/2 module 4x8 (w/o nozzles)**

- For laboratory glassware, e.g. Erlenmeyer flasks, round flasks, laboratory bottles, measuring flasks and measuring cylinders
- For up to 32 injector nozzles (particularly suitable for Ø 2.5 mm, e.g. A 844 or A 845, other diameters possible depending on application)
- H 73, W 195, D 475 mm



A 840 injector nozzle Ø 6x130 mm (1 off)  
 A 840/1 injector nozzle Ø 6 x 130 mm (5 off)  
 A 840/2 injector nozzle Ø 6 x 130 mm (10 off)  
 A 840/3 injector nozzle Ø 6 x 130 mm (20 off)



A 841 injector nozzle Ø 6 x 210 mm (1 off)  
 A 841/1 injector nozzle Ø 6 x 210 mm (5 off)  
 A 841/2 injector nozzle Ø 6 x 210 mm (10 off)  
 A 841/3 injector nozzle Ø 6 x 210 mm (20 off)



A 842 injector nozzle Ø 4 x 90 mm (1 off)  
 A 842/1 injector nozzle Ø 4 x 90 mm (5 off)  
 A 842/2 injector nozzle Ø 4 x 90 mm (10 off)  
 A 842/3 injector nozzle Ø 4 x 90 mm (20 off)



A 843 injector nozzle Ø 4 x 185 mm (1 off)  
 A 843/1 injector nozzle Ø 4 x 185 mm (5 off)  
 A 843/2 injector nozzle Ø 4 x 185 mm (10 off)  
 A 843/3 injector nozzle Ø 4 x 185 mm (20 off)








A 844 injector nozzle Ø 2.5 x 80 mm (1 off)  
 A 844/1 injector nozzle Ø 2.5 x 80 mm (5 off)  
 A 844/2 injector nozzle Ø 2.5 x 80 mm (10 off)  
 A 844/3 injector nozzle Ø 2.5 x 80 mm (20 off)



A 845 injector nozzle Ø 2.5 x 125 mm (1 off)  
 A 845/1 injector nozzle Ø 2.5 x 125 mm (5 off)  
 A 845/2 injector nozzle Ø 2.5 x 125 mm (10 off)  
 A 845/3 injector nozzle Ø 2.5 x 125 mm (20 off)

# Compatibility with entire product range

In particular the nozzles of the EasyLoad system can be fitted on virtually all Miele lab washers:

EasyLoad components				
				
Lab washers		Modules	Nozzles	Holder rack
Current model series				
	PG 8583	•	•	•
	PG 8593	•	•	•
	•	•	•	
	-	•	-	
Previous model series				
	G 7883	-	•	-
	G 7893	-	•	-
	-	•	-	
	-	•	-	

\*cf. separate brochure on large lab washers.

# Combination options

## Upper and lower baskets, modules

Basket	+	Module	+	A 100 upper basket	A 101 upper basket			A 102 upper basket			A 103 upper basket
					Position			Position			
					Bottom	centre	top	Bottom	centre	top	
A 150		A 300/3 or A 300/2 with EasyLoad nozzles		-	-	•	•	-	-	!	•
		A 301/5 or A 301/4 with EasyLoad nozzles		•	•	•	•	•	•	•	•
		A 302/3 or A 302/2 with EasyLoad nozzles		•	•	•	•	•	•	•	•
		A 301/4 module with SD-B nozzles		-	-	-	-	-	-	-	•
		A 303		-	-	-	-	-	-	-	-
		A 304		•	•	•	•	•	•	•	•
		A 306		-	-	-	-	-	-	-	-

Basket	+	Module	+	Loading recommendation
A 100		A 300/3 or A 300/2 with EasyLoad nozzles		-
		A 301/5 or A 301/4 with EasyLoad nozzles		•
		A 302/3 or A 302/2 with EasyLoad nozzles		•
		A 301/4 module with SD-B nozzles		-
		A 303		-
		A 304		•
		A 306		-

• Recommended combination  
 - - Combination not recommended  
 ! Combination not possible

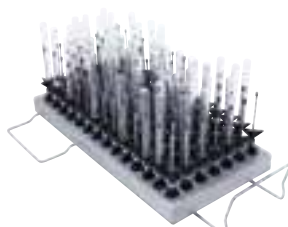
# Injector modules and load carriers for pipettes, phials and measuring cylinders

For use with A 100 upper basket and A 150 lower basket



## A 303 module for pipettes

- For e.g. 98 measuring and full pipettes
- Height of retaining frame 150 mm
- H 185, W 225, D 471 mm
- Vertical clearance without upper basket: 450 mm (with A 150 lower basket)
- 1 off, for use in A 150 lower basket



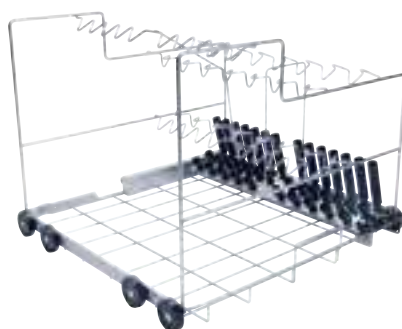
## A 304 module for phials

- For 98 tubes, e.g. centrifuge tubes, phials, test tubes or autosampler tubes
- H 130, W 222, D 471 mm
- One each for A 100 upper basket or A 150 lower basket



## A 306 module for measuring cylinders

- For laboratory glassware, in particular large measuring cylinders
- Capacity: four 1-2 l measuring cylinders, tall
- Contact surfaces plastic coated
- H 418, W 235, D 471 mm



## A 200 load carrier

- For 38 pipettes in 3 rows
- 1st row: 10 pipettes, max. 100 ml, Spacing 20 mm
- 2nd row: 14 pipettes, max. 25 ml, Spacing 26 mm
- 3rd row: 14 pipettes, max. 10 ml, Spacing 26 mm
- H 397, W 529, D 546 mm



# Dispensing accessories

for PG 8583, PG 8593 and PG 8583 CD



## PG 8596 dispenser unit

- Housing unit for process chemicals and dispenser modules
- H 835 (820), W 300, D 600 mm
- Compatible with PG 8583, PG 8593
- Freestanding unit, can be built under
- Unit with removable door
- Outer panelling in stainless steel or white
- Interior dimensions: H 690 / 380 / 285 mm (top drawer removed / lower / upper drawer), W 250 mm, D 555 / 425 mm (without / with drip tray and dispenser modules)

### 2 levels:

Removable telescopic drawers with drip tray liners for canisters containing process chemicals

### Canister sizes:

Accommodates a total of 6 x 5 l canisters (L 245 x W 145 x H 225 mm\*).

Lower drawer offers space for larger canisters:

- 2 x 10 l, 140 x 193 x 307 mm
- 2 x 10 l, 223 x 203 x 321 mm
- 2 x 10 l, 229 x 193 x 323 mm
- 2 x 10 l, 194 x 204 x 353 mm
- 1 x 20 l, 289 x 233 x 396 mm
- 1 x 25 l, 288 x 234 x 456 mm

\* Only possible with DOS K 85/1 dispenser unit with short siphon



## DOS K 85/1 dispenser module

- For liquid alkaline detergents and chemical disinfectants, neutralising agent
- Peristaltic pump, adjustable via machine's electronic controls
- Integrated dispenser monitoring function ensuring high level of process security
- Short siphon (200 mm) for 5 l canister, incl. level fill monitoring
- Length of connection cable: 3.00 m
- Length of suction hose: 1.80 m



## DOS K 85 dispenser module

- As DOS K 85/1
- But with long siphon (300 mm) for 5 l and 10 l canisters
- Option: Conversion kit, Part no. 5458034, for siphon (10-30 l containers) available from Spares.

# Plinths and conversion kits

for PG 8583, PG 8593 and PG 8583 CD



## UG 30-60/60-85 plinth

- For use on PG 8583 and PG 8593
- Stainless-steel plinth, bolted to machine
- H 300, W 600, D 600 mm



## UG 30-90/60-85 plinth

- For use on PG 8583 and PG 8593 in combination with PG 8595 or PG 8596 (installation on either side of PG 8595 / PG 8596 possible)
- Stainless-steel plinth, bolted to machine
- H 300, W 900, D 600 mm



## UG 30-90/70-85 plinth

- For use with PG 8583 CD
- Stainless-steel plinth, bolted to machine
- H 300, W 900, D 700 mm

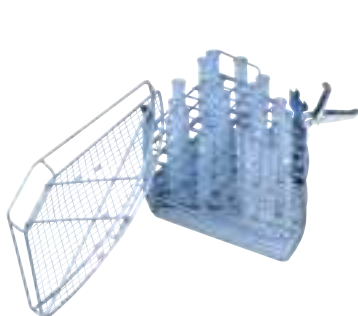


## UG 70-60/80

- For use on PG 8583 and PG 8593
- Stainless-steel box plinth with door, bolted to machine
- Fitted with floor tray, door with lock and key, bracket for conductivity meter and flowmeter, fixture for status LED in door frame
- Possible load configurations
  - 2 new-generation dispenser modules (e.g. DOS K 85) 2 canisters for liquid products, max. 10 l, 2 full demineralisation cartridges (e.g. VE P 2800), 1 conductivity module
- H 700, W 600, D 550 mm

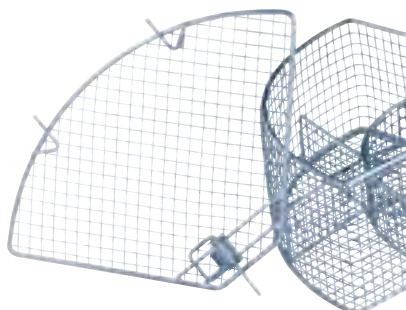
# Inserts for test tubes, funnels, beakers, wide-necked glassware

for PG 8583, PG 8593 and PG 8583 CD



## E 149 insert 1/4

- For 80 test tubes, max. 16 x 105 mm, incl. A 13 lid
- 80 compartments, 18 x 18 mm
- Mesh size on base 8 x 8 mm
- Lid available from Spares, Mat. no.: 05618390
- H 132 (152), W 200, D 320 mm



## A 13 lid

- As replacement for E103, E104, E105 and E139 inserts
- Stainless steel
- 1 mm wire mesh
- 8 mm mesh gauge
- 4 mm all-round frame



## E 103/1 insert 1/4

- For approx. 200 test tubes, max. 12 x 75 mm
- 6 compartments, incl. A 13 lid
- Mesh size 8 x 8 mm
- H 102 (122), W 200, D 320 mm

## E 104/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 105 mm, incl. A 13 lid
- Mesh size 8 x 8 mm
- H 132 (152), W 200, D 320 mm

## E 105/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 165 mm, incl. A 13 lid
- Mesh size 9 x 9 mm
- H 192 (212), W 200, D 320 mm

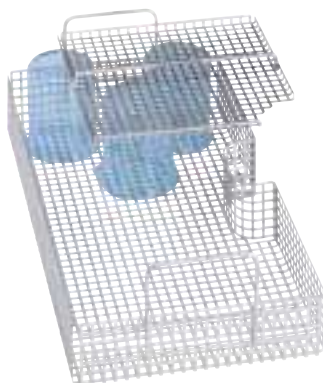
## E 139/1 insert 1/4

- As E 103, but for test tubes, max. 12 x 200 mm, incl. A 13 lid
- Mesh size 9 x 9 mm
- H 223 (243), W 200, D 320 mm



## AK 12 insert 1/2

- For funnels, beakers, wide-necked glassware, etc.
- H 67/122, W 225, D 434 mm

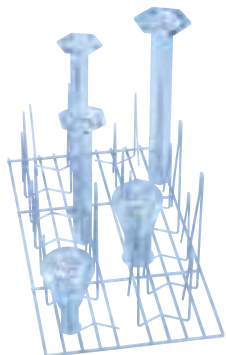


## A 14 lid 1/4

- For AK 12 insert
- Stainless steel
- 7 x 7 mm perforations, 3 mm ridge
- H 20, W 210, D 210 mm

# Inserts for beakers, wide-necked glassware, measuring cylinders

for PG 8583, PG 8593 and PG 8583 CD



## **E 106 insert 1/2 (illustrated)**

- For wide-necked glassware, measuring cylinders, etc.
- 10 spring hooks, H 175 mm
- 16 spring hooks, H 105 mm, spacing approx. 60 mm
- H 186, W 220, D 445 mm

## **E 106/1 insert 1/2**

- 26 small spring hooks, H 105 mm, spacing approx. 60 mm
- H 116, W 220, D 445 mm

## **E 106/2 insert 1/2**

- 13 large spring hooks, H 175 mm, spacing approx. 85 mm
- H 186, W 220, D 445 mm



## **E 109 insert 1/2 (illustrated)**

- For 21 beakers up to 250 ml
- 21 x 3 spikes
- H 155, W 230, D 460 mm

## **E 110 insert 1/2**

- For 10 beakers, 250 ml to 600 ml
- 10 x 3 spikes
- H 175, W 230, D 460 mm

## **E 111 insert 1/2**

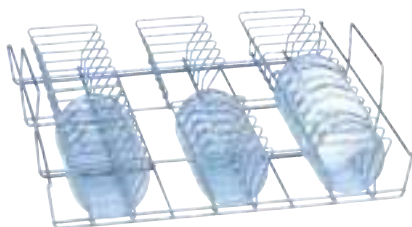
- For 8 beakers, 600 to 1,000 ml
- 8 x 3 spikes
- H 205, W 230, D 460 mm

## **E 144 insert 1/2**

- For 18 beakers up to 250 ml
- 18 x 3 spikes
- H 131, W 200, D 445 mm

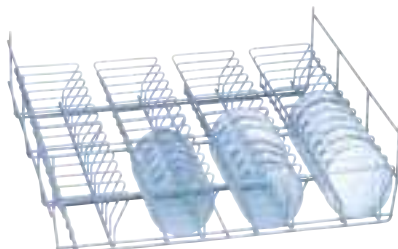
# Inserts for Petri dishes, watch glasses, micro-titre plates, etc.

for PG 8583, PG 8593 and PG 8583 CD



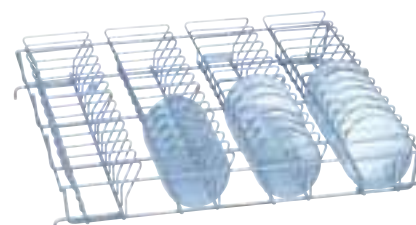
## E 118 insert 1/1

- For 38 Petri half-dishes, 100 mm
- 38 holders, Height 70 mm
- Spacing approx. 26 mm
- H 120, W 460, D 445 mm



## E 136 insert 1/1

- For 56 Petri half-dishes, 100 mm
- 56 holders, Height 70 mm
- Spacing approx. 26 mm
- H 145, W 485, D 445 mm



## E 137 insert 1/1 for E 136

- For 56 Petri half-dishes, 100 mm
- 56 holders, Height 70 mm
- Spacing approx. 26 mm
- H 95, W 485, D 445 mm



## E 402 insert 1/2

- For 44 Petri dishes, 80-125 mm
- 23 supports, distance between supports 15 mm
- H 53, W 200, D 445 mm



## E 403 insert 1/2

- For 105 Petri dishes, 50-60 mm
- 36 supports, distance between supports 9 mm
- H 35, W 200, D 445 mm



#### **E 134 insert 1/2**

- For 210 slides
- 210 compartments 26 x 11 mm
- Wire gauge 3 mm
- H 73, W 200, D 445 mm

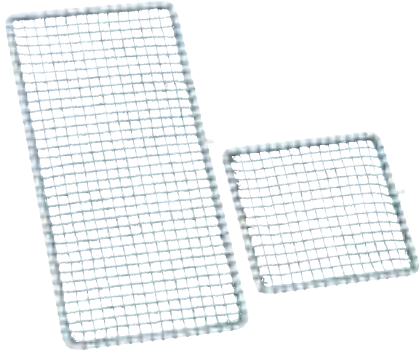


#### **E 494 insert 1/2**

- For 5 micro-titre plates
- H 35, W 205, D 440 mm

# Accessories

for PG 8583, PG 8593 and PG 8583 CD

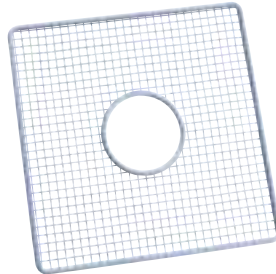


## A 2 cover net 1/2 (similar to photo)

- Plastic-coated metal frame with plastic netting
- For 1/2 inserts
- 216 x 456 mm

## A 3 cover net 1/4 (similar to photo)

- Plastic-coated metal frame with plastic netting
- For 1/4 inserts
- 206 x 206 mm



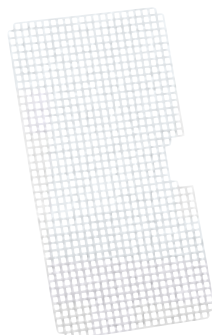
## A 5 cover

- Stainless-steel frame with plastic net (material quality PA 12)
- For O and U 184, E 747, E 947
- H 8, W 280, D 280 mm



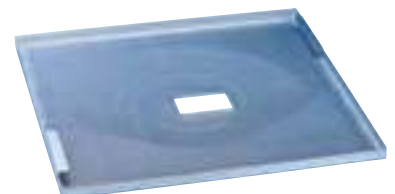
## A 11/1 insert 1/1 underframe

- With perforations 7 x 7 mm
- For upper or lower basket
- Stainless steel
- W 429, D 429 mm



## A 12/1 insert 1/2 underframe

- With perforations 7 x 7 mm
- For upper or lower basket
- Stainless steel
- W 429, D 224 mm



## E 319/3 insert 1/1

- Surface filter for coarse soil
- Contains soiling e.g. labels from laboratory glassware, glass splinters etc.
- W 500, D 488 mm



#### **E 336 irrigation sleeve**

- Plastic, with screw fitting
- For pipettes (max. length 445 mm) in injector units
- Ø 11 mm
- Length 121 mm



#### **E 351 injector nozzle**

- For injector unit
- For combination with E 353
- Ø 4 x 160 mm, screw thread

#### **E 352 injector nozzle**

- For injector unit
- For combination with E 354
- Ø 6 x 220 mm, screw thread

#### **E 353 clip for nozzle**

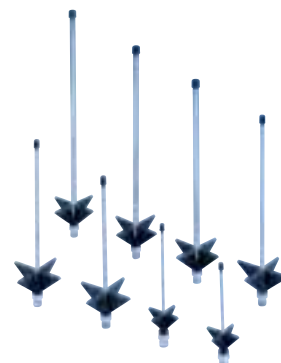
- For E 351 injector nozzle
- Height-adjustable
- Ø 4 x 160 mm

#### **E 354 clip for nozzle**

- For E 352 injector nozzle
- Height-adjustable
- Ø 6 x 220 mm

#### **E 470 injector nozzle with clip**

- For injector unit
- Ø 2.5 x 90 mm, screw thread



#### **Injector nozzle with plastic support ID 90**

- Ø 2.5 x 90 mm

#### **ID 110**

- Ø 2.5 x 110 mm

#### **ID 140**

- Ø 4 x 140 mm

#### **ID 160**

- Ø 4 x 160 mm

#### **ID 180**

- Ø 4 x 180 mm

#### **ID 200**

- Ø 6 x 200 mm

#### **ID 220**

- Ø 6 x 220 mm

#### **ID 240**

- Ø 6 x 240 mm



#### **SD-B injector nozzle for butyrometers**

- For E 331 load carrier
- L 240 mm incl. thread, 4 x 140 mm plus welded, compressed nozzle, 1.5 x 100 mm



#### **E 362 blanking screw**

- M 8 x 1 thread, to seal connectors on load carriers



**Miele**  
PROFESSIONAL

# Service excellence

## Maintenance and service contracts

Miele Professional is synonymous with exceptional quality – not least when it comes to service. Wide service coverage enables fast response times. And, thanks to on-board spares, first service visits result in around 90% first-time fixes. Miele's own service operation has repeatedly been awarded top marks for its service excellence.



### Comprehensive service from the very start

Even before a machine is installed, Miele's sales force is available to provide in-depth advice. Experienced experts assist in selecting the most suitable machines and configurations to suit individual needs. On request, feasibility calculations can be provided, along with tailored financing packages.

Miele also offers a series of process checks performed at various times throughout a machine's life cycle. Specially trained product technicians carry out process tests in accordance with legal and standards requirements as well as country-specific recommendations.

### Miele service contracts

#### Warranty Care

- Inspection

#### Maintenance contract

- Inspection
- Maintenance

#### Preventative maintenance contract

- Inspection
- Maintenance
- Annual service kit

### Machine qualification

#### IQ / OQ

- Installation Qualification
- Operation Qualification

#### Annual maintenance/calibration

- Maintenance
- Calibration of measuring systems

### Service to meet professional expectations

Highly qualified service technicians oversee the delivery and commissioning of machines and are available to perform various routine checks during the course of the machine's life time. This prevents faults occurring in the first place and offers an opportunity to optimise operating parameters on an ongoing basis. A further advantage: Regular checks and maintenance safeguards investments.

- First-class service with a network of technicians
- Short response times and on-site servicing
- 90% of service calls result in first-time fixes
- Reliable spares service, key functional parts available for 15 years after series production ceases.

### Customised service contracts and inspections

Miele Professional offers laboratories of all sizes tailored service contracts. In honouring these contracts, Miele service technicians regularly assess and evaluate the condition of machines. Depending on the contract concluded, this comprises an analysis of functionality and safety with respect to all key components, including replacement as and when necessary. Scheduled inspection and maintenance prevents breakdowns from happening in the first place, increases the life expectancy of machines and contributes towards safeguarding investments. This offer from Miele Service includes a whole range of performance and process checks which are performed at various points throughout the life of products.





# Miele Professional

Top-notch quality and service

Decades of experience, an unerring pursuit of quality and the power of innovation means that Miele sets the benchmark. High-performance lab washers from Miele Professional are recommended by leading manufacturers of laboratory glassware. In combination with accessories specific to models and applications, machines from Miele Professional facilitate the fast and simple reprocessing of all types of glassware.

## Performance

- Thorough yet gentle reprocessing with dependable results
- Process control perfectly matches machines and laboratory glassware
- All-in system from one single supplier consisting of perfectly matching components (machines, chemicals, service)

## Quality and economic operation

- Highest-quality materials and workmanship
- Superior product longevity and reduced need for maintenance
- Short cycle times and sparing use of resources

## Safety and convenience

- Ergonomic controls simplify everyday laboratory work
- Convenient navigation avoids mistakes on the part of the user
- Large-scale, easy-to-read text display
- Fully automatic protocolling and documentation of reprocessing

## Service

- Excellent Miele in-house service operation offering wide coverage.
- Comprehensive advisory services covering planning, requirement assessment and financing.
- Customised service contracts guaranteeing functional safety and preserving values.

**55** **Laboratory**  
**YEARS** **Technology**

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## **Immer besser**

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 service operation which guarantees fast response times ensure that machines perform to perfection and offer the ultimate in capacity and efficiency.

## **Miele Professional on the web**

- For detailed information on technical data, features and accessories
- Brochures on all product groups and applications available as downloads
- Detailed information, instructions and product presentations on Miele Professional's YouTube channel