Miele

The perfect fit.
Our SlimLine
laboratory glasswashers

Miele Professional. Immer Besser.

EASYLOAD

360 PRO

Main Menu

Basic programs

Test programs

Special programs

Favo

Last

Sys

Auto
OF
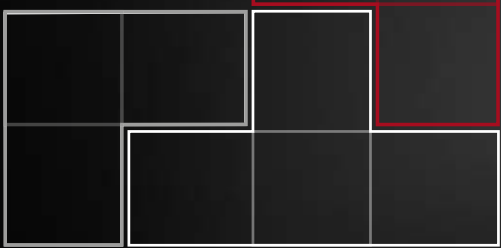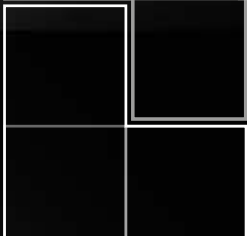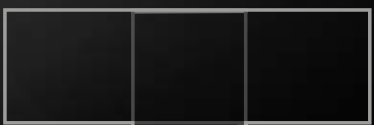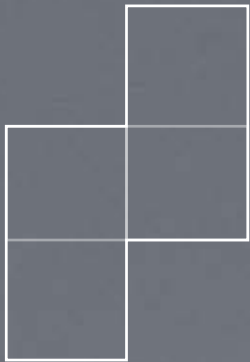
The perfect fit.

Our SlimLine laboratory glasswashers

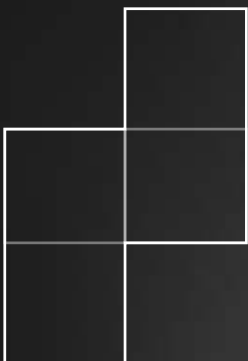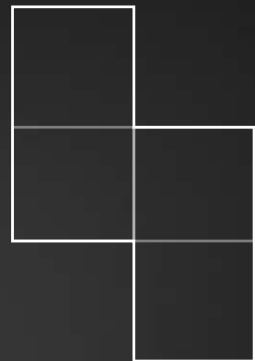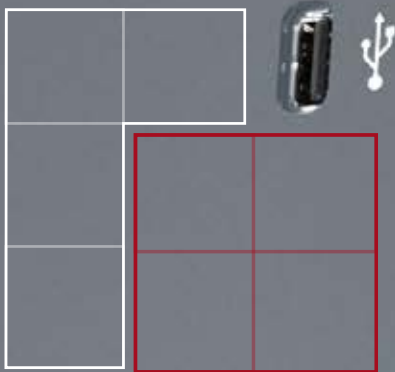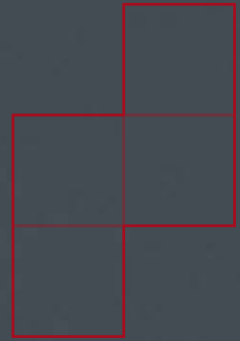SlimLine laboratory glasswashers from the PLW 7111 series set new standards in performance and user-friendliness. An entirely redesigned washing system boasts considerably better performance compared with the previous model series and, thanks to a variable-speed pump, is able to adjust circulation pressure and water consumption to each load.

The high-quality colour touch display in combination with the innovative multi-colour chamber lighting makes for intuitive loading and excellent control over the entire process.

The new EasyLoad system is now also available on SlimLine models, simplifying loading and supporting users in correctly positioning their items of laboratory glassware. Thanks to the intelligent use of space by the EasyLoad system, the capacity for 100 ml bottles for instance has been increased by more than 50% compared with the previous series.

Miele 360PRO – Single-source supply.
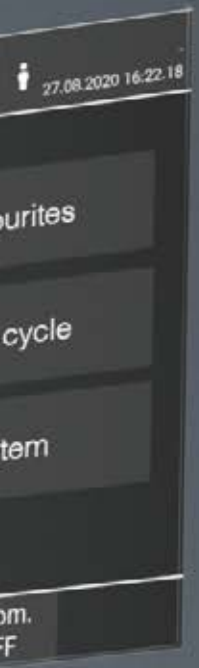
Smart, thorough and compact

The new generation of SlimLine laboratory glasswashers sports another round of improvements in terms of handling and the use of chamber space. The tried-and-tested SmartLoad system allows the use of up to three baskets on telescopic runners which can be flexibly positioned and connected to the water circuit at four different levels. This allows various combinations to accommodate a variety of different load heights.

This system has undergone further improvements, allowing all baskets to be used on any level. The differentiation between baskets which run on the door and ones on telescopic runners now no longer applies. Telescopic racks on all levels guarantee greater loading flexibility.

Compact machine combined with large capacity

• Small footprint with a width of just 650 mm
• 3 levels with injector nozzles
• Also for carboys with a volume of up to 50 l
• 192 bottles (100 ml) or 108 bottles (250 ml) in a single cycle

Time and resource savings

• High-performance and intelligent pump system with variable-speed pump
• Maximum performance when needed
• Water conservation where possible
• Heated tank for short cycles[1]

SmartLoadPlus
3 racks
4 levels

650 mm

[1] depending on model
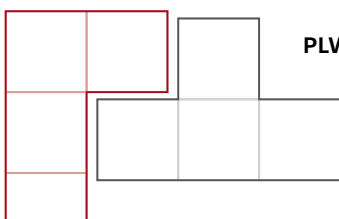
SlimLine
Design

SmartLoadPlus
3 racks
4 levels

Adaptive
Speed
Washing

Speed
Heated
Tank

Digital
Services

EASYLOAD

PLW 7111

Connectivity-ready

• Ready for connection to Miele Cloud Service (Miele MOVE)
• Direct access to machine and performance data
• Increased uptime through remote diagnostics

Intuitive and safe operation

• Intelligent controls with 7" colour touch display, optimised programmes and 20 vacant programme slots
• Simple and effective cleaning
• USB interface integrated in machine front
• Ready for connection to process documentation software
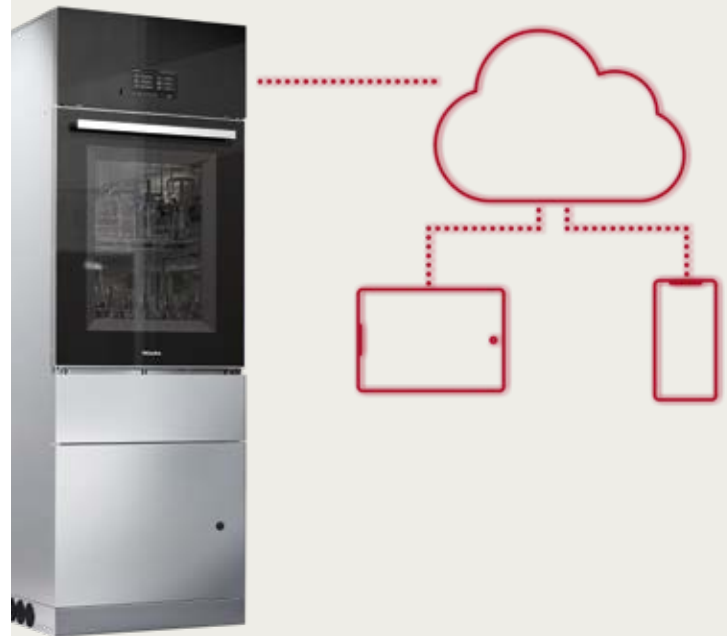
Visual monitoring of chamber

• Process control thanks to full glass door
• Machine status easily identifiable thanks to 3-colour chamber lighting
• Automatic door lock

Thorough and efficient cleaning processes

• Chamber, spray arms and tank filters made from high-grade, electro-polished stainless steel (DIN 1.4404/AISI 316L)
• Conductivity monitoring for high-level process quality[1]
• HEPA H14 fine filter for germ-free drying air[1]
• Integrated water softener[1]

[1] depending on model
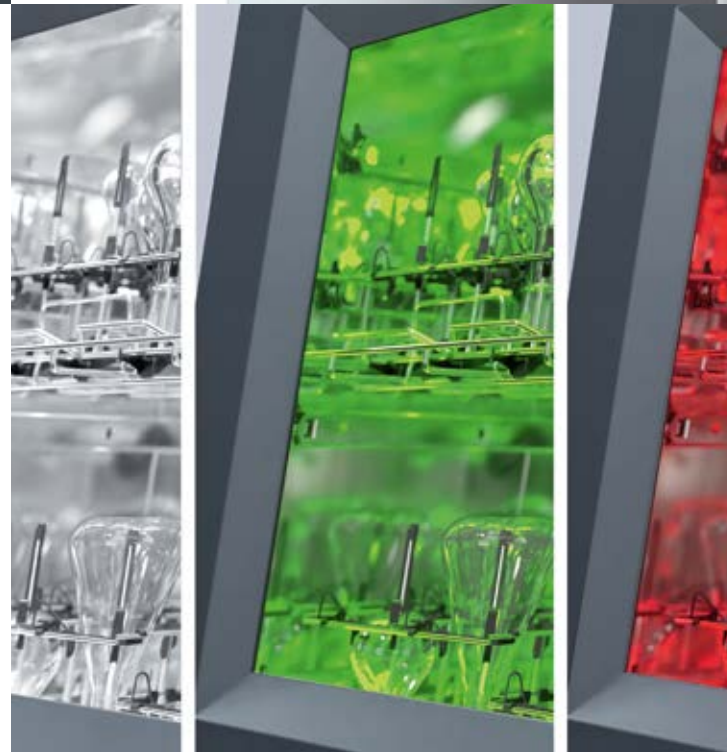
EasyLoad – Fast loading and highly efficient use of chamber space

EASYL○AD

New holder rack

The new holder rack offers additional load stability. As and when required, it is placed on top of the injector module, providing a secure hold even to particularly large items of laboratory glassware in a vertical and protected position.

Thorough cleaning thanks to injector nozzles

Even if a nozzle tip rests against the base of a glass, the injector nozzles still guarantee thorough cleaning. The support surrounds the injector rail in the module or basket, preventing lateral movement of the load items without wasting valuable height.

EasyLoad equates to efficiency and convenience
- An injector system for all common injector modules and many other load carriers enables the simple and flexible loading of a laboratory glasswasher
- Optimum use of available chamber height
- Particularly fast and simple arrangement of load items
- Thorough internal cleaning of glassware of all shapes and sizes
- Secure hold and exceptional protection of materials during a wash cycle
- Injector nozzles available in 3 diameters, 6 lengths
- Matching plastic holders and supports
- Injector modules with 8, 18 or 32 injectors
- Holder racks for 8, 18 or 32 injector positions
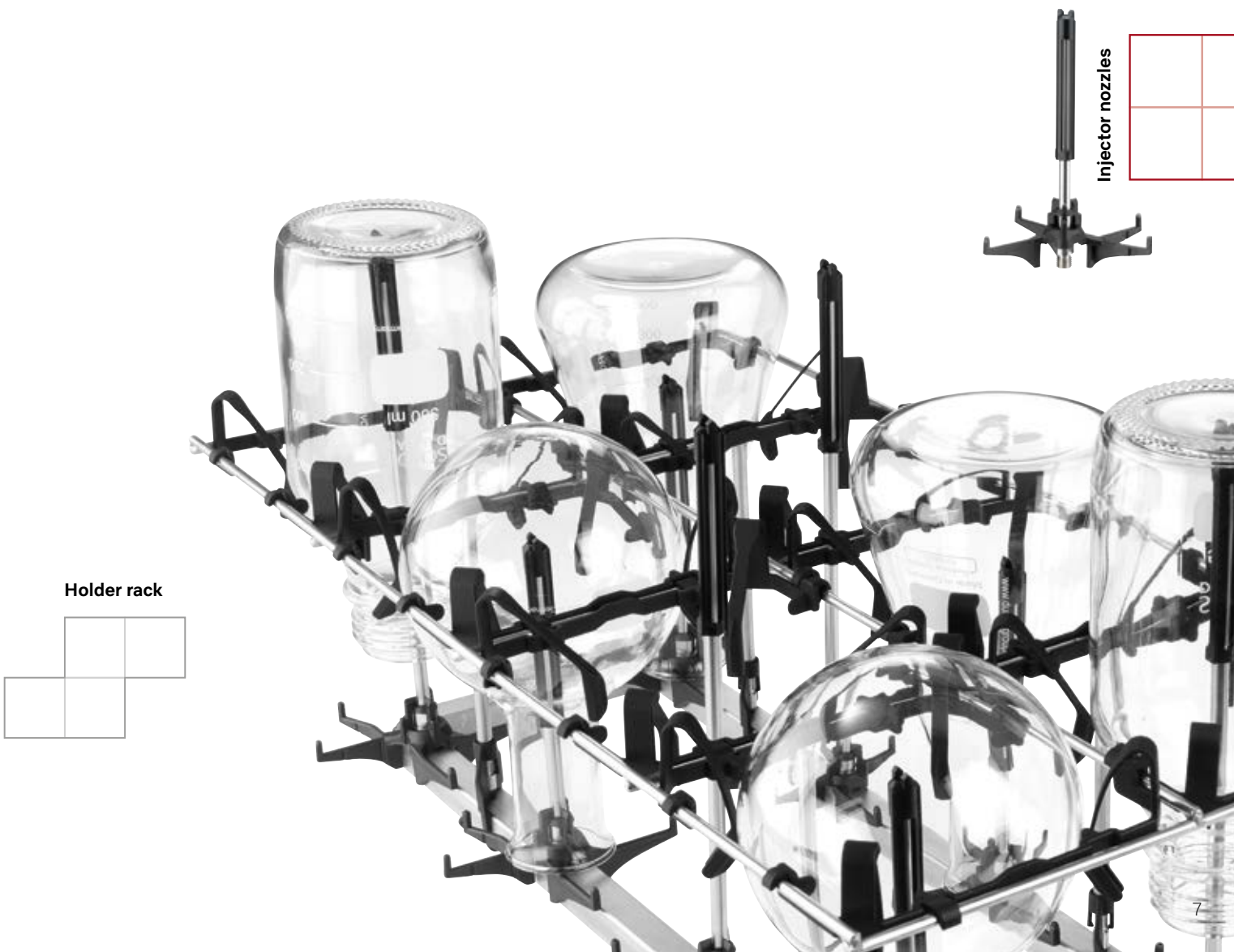
Injector nozzles

Holder rack
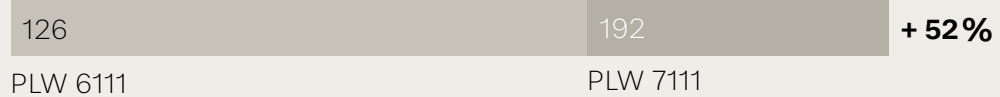
Increased capacity compared with previous PLW 6111

250 ml bottles	84	108	+ 29 %
	PLW 6111	PLW 7111	

100 ml bottles	126	192	+ 52 %
	PLW 6111	PLW 7111	

# **SlimLine** laboratory glasswasher PLW 7111

General

SlimLine laboratory glasswasher	PLW 7111
External dimensions [Width x Height x Depth mm]	650, 1965, 702
Chamber dimensions [Width x Height x Depth mm]	570, 717, 590
Usable capacity [l]	241
Load concept	Rack system with max. 3 baskets in 4 different positions
Programmes	20 vacant programme slots
Programme selection	7" colour touch display

Features	
Single-door model	◆
All-glass bottom-hinged door	◆
3-colour chamber lighting as status indicator	◆
Chamber material	1.4404/316L
Dispenser pumps [qty]	2
Variable-speed pump	◆
Water connections	HW, CW, demineralised water
Electrical connection 3N AC 400 V, 50 Hz	◆
Total rated load [kW]	10.1
WiFi	◆
USB port	◆
Process chemical capacity	3 x 5 l
Ethernet interface	◆
Leakage sensor	◆

Load capacity	
100 ml laboratory bottles	192
250 ml laboratory bottles	108
1000 ml laboratory bottles	32
Pipettes	98

Features (model-dependent)
Electric heating
Electric/steam heating
Pre-heating tank
Drain valve
Drain pump
Drying incl. HEPA H14 filter
Steam condenser
Water softener
Conductivity meter
Printer
Specifications for oil-based applications
Drain water cooling
Demineralised water pump

Optional modules
Potential-free contacts
Additional dispenser pumps

Model overview

| Type designation	Mat. no.	Heating		Features											
		EL Electro	EL/S Electro/Steam	DU Drying Unit	SC Steam Condenser	DP S (Standard) Drain Pump	DV Drain Valve	WS Water Softener	TH (Elektro) Tank Heated EL	TH (Steam/Electro) Tank Heated EL/S	PR Printer	CS Conductivity Sensor	OR Oil Resistant	DC Drain Cooling	LS Leakage Sensor
PLW 7111 [S-1001]	11879730	◆	–	◆	◆	◆	–	–	–	–	–	–	–	–	◆
PLW 7111 [S-1002]	11879740	◆	–	◆	◆	◆	–	◆	–	–	–	–	◆	–	◆
PLW 7111 [S-1003]	11879750	◆	–	◆	◆	◆	–	◆	–	–	–	–	–	–	◆
PLW 7111 [S-1004]	11879760	◆	–	◆	◆	◆	–	◆	–	–	◆	◆	–	–	◆

Baskets for injector modules and inserts
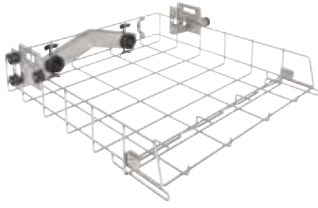
APLW 106

Basket, for injector modules or inserts.
- For use on Levels 1 to 4
- Basket with two docking connections
- For loading up to 2 injector modules or inserts
- Connection automatically sealed when not in use
- Loading dimensions: Width 507 mm, depth with holding rail 439 mm, without holding rail 525 mm, height dependent on position on which basket is used and on other baskets in use
- H 151.3, W 559.3, D 621.2 mm

Mat. no. 11854610
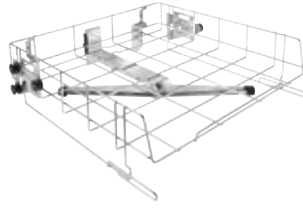
APLW 107

Basket, height adjustable, for optimum loading of inserts.
- For use on Levels 2 to 4
- Open front
- For optimum loading of inserts
- With integrated spray arm
- Loading dimensions: Width 507 mm, depth 545 mm, height-adjustable +/- 30 mm, height dependent on position on which basket is used and on other baskets in use
- H 150.5, W 559.3, D 594.4 mm

Mat. no. 11854290
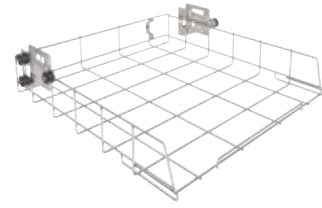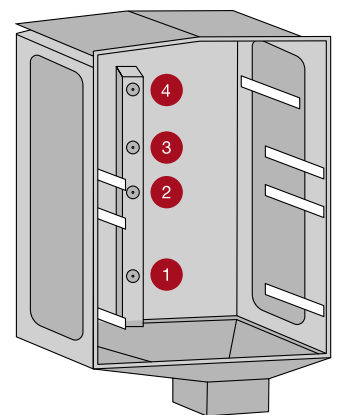
APLW 152

Baskets, for various inserts.
- For use on Level 1
- Vertical clearance dependent on other baskets used
- Clearances: width 507 mm, depth 545 mm
- H 151, W 560, D 596 mm

Mat. no. 11854310

Load dimensions and sample configurations

	Reprocessing with spray arm (3 levels)		Reprocessing with spray arm (2 levels)		Mixed loads with spray arm and injector nozzles[1] (3 levels)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [mm]
Level 4	APLW 107	158 ± 30	–	278 ± 30	APLW 107	158 ± 30
Level 3	–	178 ± 30	APLW 107		–	244 ± 30
Level 2	APLW 107		–	354 ± 30	APLW 106	
Level 1	APLW 152	234	APLW 152		APLW 106	210

	Reprocessing with injector nozzles[1] (3 levels)		Reprocessing with injector nozzles[1] (2 levels)		Reprocessing with spray arm / injector nozzles[1] (1 level)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [mm]
Level 4	APLW 106	224	–	344	–	–
Level 3	–	220	APLW 106		–	
Level 2	APLW 106		–	330	–	
Level 1	–	–	–	–	APLW 152 / APLW 106	690

[1] Height of injector modules must also be considered.
Height of A 300/x, A 301/x, A 302/x modules including nozzle support: 18 mm

Injector module for bulky laboratory glassware

For use in APLW 106 basket
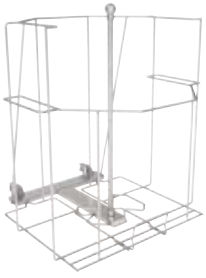
APLW 215

Injector module, ideal for large-volume laboratory glassware and carboys up to 50 l
• For use on Level 1
• Equipped with a special injector nozzle
• Equipped with a holding frame
• Max. bottle diameter: 380 mm
• Bottle height: 560 mm to 620 mm
• Bottle neck diameter: min. 30 mm internal, max. 80 mm external
• H 532, W 505, D 526 mm

Mat. no. 11853940

Injector modules for laboratory glassware

For use in APLW 106 basket

Select from a range of freely configurable or pre-configured injector modules.

A 300/2

Injector module for optimum loading of laboratory glassware – can be equipped with 8 nozzles.
- Suitable for laboratory glassware incl. Erlenmeyer and round flasks
- Module without injector nozzles – Configuration based on individual needs
- For up to 8 injector nozzles
- Particularly suitable for Ø 6 mm injectors, e.g. A 840 or A 841, other diameters possible depending on application
- Nozzle spacing 118 mm across width, 118 mm across depth
- H 72, W 133, D 479 mm

Mat. no. 11056800

A 301/4

Injector module for optimum loading of laboratory glassware – can be equipped with 18 nozzles.
- Suitable for laboratory glassware incl. Erlenmeyer and round flasks
- Module without injector nozzles – Configuration based on individual needs
- For up to 18 injector nozzles
- Particularly suitable for Ø 4 mm injectors, e.g. A 842 or A 843, other diameters possible depending on application
- Nozzle spacing 78 mm across width, 78 mm across depth
- H 72, W 173, D 479 mm

Mat. no. 11056810

A 302/2

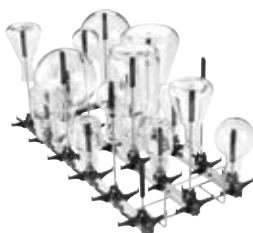**Injector module for optimum loading of laboratory glassware – can be equipped with 32 nozzles.**
- Suitable for laboratory glassware incl. Erlenmeyer and round flasks
- Module without injector nozzles – Configuration based on individual needs
- For up to 32 injector nozzles
- Particularly suitable for Ø 2.5 mm injectors, e.g. A 844 or A 845, other diameters possible depending on application
- Nozzle spacing 60 mm across width, 57 mm across depth
- H 72, W 195, D 479 mm

Mat. no. 11056820

A 300/3

Injector module for optimum loading of laboratory glassware – equipped with 8 nozzles.
- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (250 - 1,000 ml).
- Equipped with four A 840 nozzles and four A 841 nozzles
- Nozzle spacing 118 mm across width, 118 mm across depth
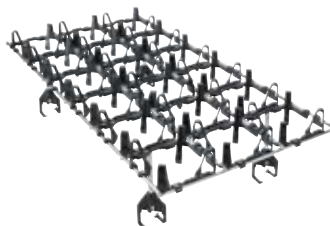- H 228, W 208, D 479 mm

Mat. no. 11116900

A 301/5

Injector module for optimum loading of laboratory glassware – equipped with 18 nozzles.
- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (50 - 250 ml).
- Equipped with nine A 842 nozzles and nine A 843 nozzles
- Nozzle spacing 78 mm across width, 78 mm across depth
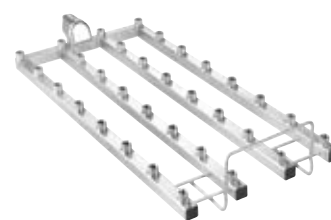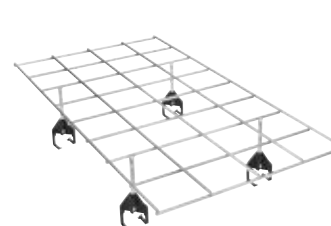- H 203, W 232, D 493 mm

Mat. no. 11116950

A 302/3

Injector module for optimum loading of laboratory glassware – equipped with 32 nozzles.
- Suitable for laboratory glassware, incl. Erlenmeyer and round flasks (25 - 100 ml).
- Equipped with 16 A 844 nozzles and 16 A 845 nozzles
- Nozzle spacing 60 mm across width, 57 mm across depth
- H 143, W 238, D 479 mm

Mat. no. 11116960

For additional protection, stability and centring of load items, there is a matching holder rack for each injector module.

A 860

Holder rack for A 300/2 and A 300/3 injector modules
- Arrangement: 2 x 4 compartments

Mat. no. 11056800

A 861

Holder rack for A 301/4 and A 301/5 injector modules
- Arrangement: 3 x 6 compartments

Mat. no. 11056810

A 862

Holder rack for A 302/2 and A 302/3 injector modules
- Arrangement: 4 x 8 compartments
- Plastic-coated

Mat. no. 11056820

Injector nozzles for laboratory glassware

For use with EasyLoad injector modules

Select nozzles to configure injector modules.
Sets are available with 1, 5, 10 or 20 nozzles.

EASYLOAD

A 840

Injector nozzle Ø 6 x 130 mm
- For items with neck diameters of between 12 and 85 mm
- Diameter of cap at top: 11 mm

1 off
Mat. no. 11056100

A 840/1
5 off
Mat. no. 11112600

A 840/2
10 off
Mat. no. 11113160

A 840/3
20 off
Mat. no. 11113170

A 841

Injector nozzle Ø 6 x 210 mm
- For items with neck diameters of between 12 and 85 mm
- Diameter of cap at top: 11 mm

1 off
Mat. no. 11056190

A 841/1
5 off
Mat. no. 11113130

A 841/2
10 off
Mat. no. 11113140

A 841/3
20 off
Mat. no. 11113150

A 842

Injector nozzle Ø 4 x 90 mm
- For items with neck diameters of between 10 and 70 mm
- Diameter of cap at top: 9 mm

1 off
Mat. no. 11056330

A 842/1
5 off
Mat. no. 11113590

A 842/2
10 off
Mat. no. 11113630

A 842/3
20 off
Mat. no. 11113670

A 843

Injector nozzle Ø 4 x 185 mm
- For items with neck diameters of between 10 and 70 mm
- Diameter of cap at top: 9 mm

1 off
Mat. no. 11056440

A 843/1
5 off
Mat. no. 11113720

A 843/2
10 off
Mat. no. 11113730

A 843/3
20 off
Mat. no. 11113760

A 844

Injector nozzle Ø 2.5 x 80 mm
- For items with neck diameters of between 6 and 55 mm
- Diameter of cap at top: 5 mm

1 off
Mat. no. 11056600

A 844/1
5 off
Mat. no. 11115470

A 844/2
10 off
Mat. no. 11115500

A 844/3
20 off
Mat. no. 11115520

A 845

Injector nozzle Ø 2.5 x 125 mm
- For items with neck diameters of between 6 and 55 mm
- Diameter of cap at top: 5 mm

1 off
Mat. no. 11056670

A 845/1
5 off
Mat. no. 11116120

A 845/2
10 off
Mat. no. 11116130

A 845/3
20 off
Mat. no. 11116140

Injector modules for pipettes, phials, measuring cylinders, viscosimeters and sedimentation cones
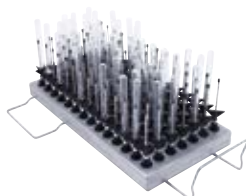
For use in APLW 106 basket

A 303

Injector module, for optimum loading of up to 98 pipettes.
- Suitable for 98 measuring and full pipettes, for example
- Height of holder rack: 150 mm
- H 185, W 225, D 471 mm

Mat. no. 9862560

A 304

Injector module, for optimum loading of up to 98 pipettes.
- Suitable for 98 centrifuge tubes, phials, test tubes, for example
- H 130, W 222, D 471 mm
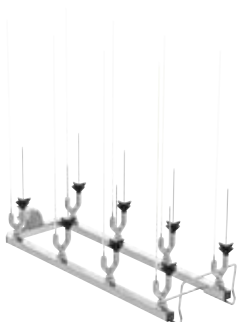
Mat. no. 9862570

A 306/1

Injector module, ideal for large-volume laboratory glassware.
- Suitable for 4 x 1 - 2 l measuring cylinders, tall form
- Suitable for 2 x 1 - 2 l measuring cylinders, short and 2 tall
- Plastic-coated contact surfaces
- Measuring cylinders even removable when module is in machine
- H 418, W 235, D 471 mm

Mat. no. 11035210

A 312

Injector module for reprocessing viscometers.
- Suitable for up to 8 viscometers
- Equipped with 8 x A 867 special nozzles
- Nozzle spacing 118 mm across width, 118 mm across depth
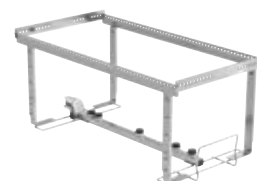- H 395, W 164, D 475 mm

Mat. no. 11054470

APLW 870

Set of injector nozzles, with supports, for cleaning sedimentation cones (Imhoff).
- Set consists of 4 special nozzles with holders
- Max. diameter 120 mm, max. height 470 mm
- For use with separately available A 300/2 injector module
- For use with separately available A 300/3 injector module
- H 290, W 125, D 125 mm

Mat. no. 12151110

A 313

Injector module for reprocessing large-volume laboratory glassware.
- Adapts to various types of laboratory glassware using A 846, A 847 and A 848 injector nozzles:
  - Laboratory bottles, 2 l - 10 l
  - Round flasks, 2 l - 6 l
  - Erlenmeyer flasks, 2 l - 5 l
  - Measuring cylinders, 2 l - 5 l
- Depending on the diameter, for 2 or 3 load items
- H 361, W 255, D 614 mm

Mat. no. 11055970
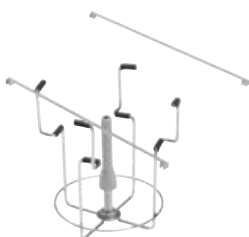
A 846

Injector nozzle, with support, for laboratory bottles and round flasks.
- For laboratory bottles, max. 10 l, and round flasks, max. 6 l
- Nozzle length: 127 mm, Nozzle length with holder: 158 mm
- Nozzle diameter: 10 mm

Mat. no. 11025590
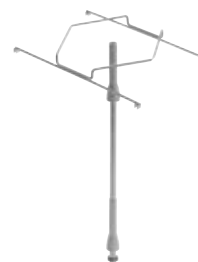

A 847

Injector nozzle, with support, for Erlenmeyer flasks.
- For Erlenmeyer flasks, max. 5 l
- Nozzle length: 127 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm

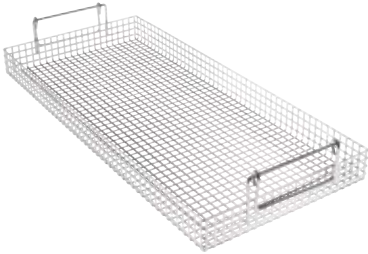**Mat. no. 11025600**

A 848

Injector nozzle, with support, for measuring cylinders.
- For measuring flasks, max. 5 l
- Nozzle length: 350 mm
- Nozzle Ø: 10 mm, Support Ø: 142 mm

Mat. no. 11025610

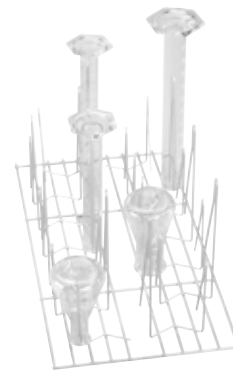EASYLOAD

Inserts and other components

For use in APLW 107 and APLW 152 baskets

A 321

E 103/1, E 104/1, E 105/1, E 139/1

E 106

Article	Description	Mat. no.
Inserts for test tubes, funnels, beakers, wide-necked glassware, measuring cylinders		
A 13	Lid to secure sensitive load items, replacement for use on E 103, E 104, E 105 and E 139.	03810200
A 14/1	Lid, for securing delicate load items for AK 12/1.	11131560
A 321	Insert, for various utensils	11309380
A 322	Lid, for securing delicate load items, for A 321.	11874380
AK 12/1	Insert, for various utensils	11131690
E 149	Insert, for max. 80 test tubes, 16 x 105 mm.	03808800
E 103/1	Insert, for test tubes, 12 x 75 mm.	06907630
E 104/1	Insert, for test tubes, 12 x 105 mm.	06907640
E 105/1	Insert, for test tubes, 12 x 165 mm.	06907650
E 139/1	Insert, for test tubes, 12 x 200 mm.	06907660
APLW 040	Insert, for test tubes, height 100 mm.	11105000
APLW 041	Insert, for test tubes, height 130 mm.	11105010
APLW 042	Insert, for test tubes, height 200 mm.	11105020
APLW 043	Lid for APLW 040 – 042 inserts.	11105030
APLW 044	Separator net, for dividing base in APLW 040, APLW 041 and APLW 042.	11105040
E 106	Insert, for wide-necked glassware, measuring cylinders, etc.	03808310
E 106/1	Insert, for wide-necked glassware, measuring cylinders, etc.	03808320
E 106/2	Insert, for wide-necked glassware, measuring cylinders, etc.	03808330
APLW 038	Insert, for wide-necked Erlenmeyer flasks and measuring cylinders.	11104980
E 109	Insert, for beakers, max. 250 ml.	03808360
E 110	Insert, for beakers, max. 250 – 600 ml.	03808390
E 111	Insert, for beakers, max. 600 – 1,000 ml.	03808420
E 144	Insert, for max. 18 beakers, max. 250 ml.	03808710

Article	Description	Mat. no.
Inserts for Petri dishes, watch glasses, microtitre plates, etc.		
E 118	Insert, for half petri dishes.	03830270
E 402	Insert, for max. 44 watch glasses.	03830420
E 494	Insert, for 5 microtitre plates.	06570920
E 136	Insert, for 56 half petri dishes.	03830280
E 403	Insert, for max. 105 watch glasses.	03830430
E 137	Insert, for 56 half petri dishes.	03830290
APLW 039	Insert, for half petri dishes.	11104990
E 134	Insert, for 210 slides.	03808600
Further components		
A 2	Cover net, for securing delicate load items.	03830460
A 3	Cover net, for securing light-weight items in inserts.	03830470
A 11/2	Insert, for gentle cleaning of delicate load items by softening the spray jet.	11239130
A 320	Insert, for gentle cleaning of delicate load items by softening the spray jet.	11295510
A 838	Tool set, for adjusting basket heights and installing/removing injector nozzles.	11054290
E 336	Irrigation sleeve, for pipettes/MIS instruments in injector units.	03809390
SD-B	Injector nozzle for butyrometers	03583540
E 362	Blind stopper, for sealing connections on load carriers.	03809630

More details on accessories
available on our website:
www.miele-professional.de

Miele

www.miele.co.uk/pro/PLW7111

Immer besser

Since 1899, Miele — a family-run company — has subscribed to a clear corporate philosophy condensed into the two words 'Immer Besser' (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 professional 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 covering all product groups and applications available as downloads
• Detailed information, instructions and product presentations on Miele Professional's YouTube channel