GLORIA®

Equipment for home and garden





Product guide

2014

Valid from 01 October 2013 – With this publication all previous publications become invalid. We reserve the right to make technical changes.





Including personal mobile product advisor (page 20)

Innovation 2014

Thermoflamm bio Electro

GLORIA offers a practical new way to eliminate weeds – the **Thermoflamm bio Electro**, which eliminates weeds using a 650 °C heat ray.

The device does its job in an economical 2000 W electronic mode. A conical nozzle shields the heat ray from the outside and completely focuses the 650 °C air on the weeds. This saves time and energy and reduces environmental burden. To use the device, hold it directly over the weeds for about 10 seconds. Through the heat action, the plant cells of the weed die. Not only does this provide for short-term weed control but it also produces a long-lasting effect.

The **Thermoflamm bio Electro** not only does a good job of removing wild growth from side walks and terraces. It is also a fast, convenient, and environmentally friendly way to ignite charcoal or wood in the fireplace.

With the new electrically powered **Thermoflamm bio Electro,** GLORIA offers together with the three gas appliances, a comprehensive range in thermal – non chemical – weeding.

Additional information about Thermoflamm bio Electro can be found on page 18

For free. Within a few seconds. Individual advice.







Simply download a QR code scanner for free, and off you go. You can scan the respective QR code next to the GLORIA product and get access to instructive video and additional picture material as well as supplementary information about the product.

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GLORIA Quality

The GLORIA product range is the result of decades of tradition and experience. The development engineers have had the working conditions and high technical requirements of the users in mind right from year one. The result: reliable, efficient devices which set standards for user-friendliness and ergonomics.

Only high quality materials are used in production. The production conditions are characterized by the latest technical plants, experienced production staff and repeated inspections of the components during the manufacturing process. Higher quality models in the GLORIA sprayer range are exclusively made in Germany. The term "Made in Germany" is still synonymous with the highest quality standards at GLORIA.

GLORIA works in accordance with the Quality standard DIN ISO 9001 guidelines. This means a constant quality of the products and services, permanent reliability and high performance. Numerous awards from independent institutions prove the outstanding safety level, the conformity with relevant standards and the exemplary design of our products.

GLORIA will guarantee spare parts being available for 10 years after purchase for all of the products in the following range. So customers can also profit from the quality of their products long-term.

GLORIA Quality - more than just a term!

























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GLORIA Quality

More than

just a term!









Types of elastomer for use as seals by GLORIA

Abbreviation	Chemical name	Known trade name	Properties	Application purpose
NBR NBR	Acrylonitrile- butadiene rubber	Perbunan®	Highly elastic synthetic rubber with good mechanical properties and generally good resistance to swelling with versatile use.	GLORIA standard seal material for primary applications in sprayers for plant protection and gas fittings.
FPM / FKM FPM	Fluorinated rubber	Viton®	Elastic synthetic rubber for industrial use. Very good resistance to hydrocarbons (oil, grease, solvents). Highly resistant to chemicals, temperature and aging.	Seal material for all high- performance sprayers for industrial applications and equipment for special applications.
EPDM EPDM	Ethylene-propylene- diene rubber	Buna EP®	High resistance to acids and bases. Poor resistance to hydrocarbons.	Used in the cleaning and food industry.

Overview of icons used:



Transparent level indicator strip



With compressor connection



Double-acting precision pump



230 V connection



LED function



With filter screen



360° swivel nozzle



Spray pipe and brass nozzle



With spiral hose (e.g. 2.5 m)



No manual pumping necessary



Brass material



Splash proof



Professional carrying system and breathable functional foam



Brass pump



Comfortable to use



Swivel nozzle



Continuously extending telescopic tube (e.g. from 0.58 to 1.0 m)



Maximum filling



Stable foot ring



With extension tube (e.g. 50 cm)



Product video online











Pressure sprayers





















High-perfomance sprayers

















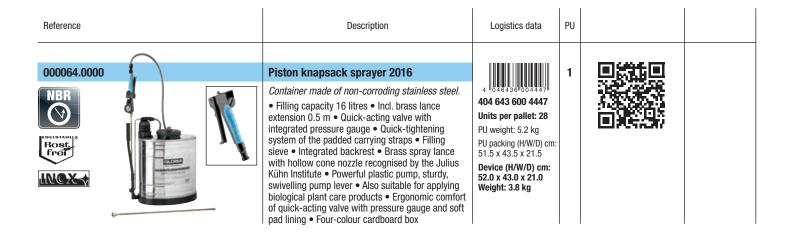


Piston knapsack sprayers



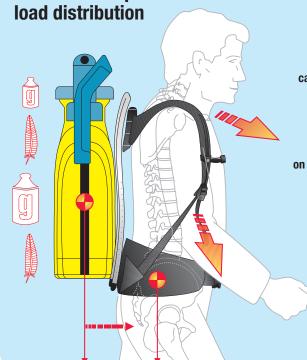






Piston knapsack sprayers Pro 1300 + Pro 1800: Unique wearing comfort





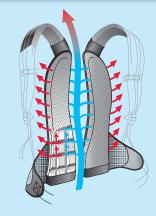
S-shaped carrying straps, perfectly suited to the body

Ergonomically designed back cushions are gentle on the body and support it

Sternum belt secures the carrying straps, provides for stability and security

Hip belt secures the load on the hip, maximum comfort for effortless working





Highly efficient ventilation system















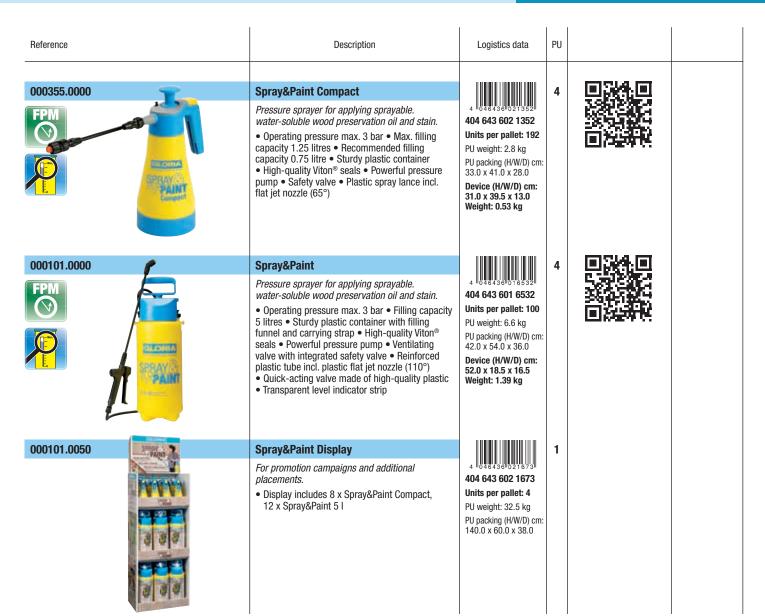
Spray&Paint











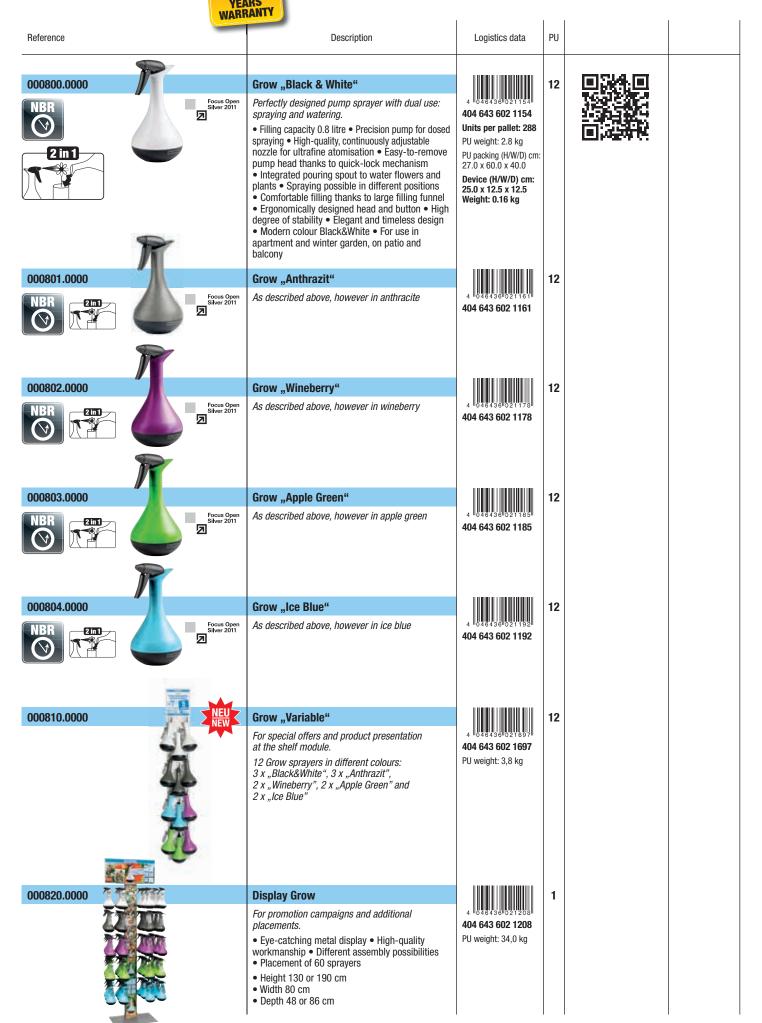












Thermoflamm bio









Reference	Description	Logistics data	PU	
000178.0000	Thermoflamm bio Classic		6	
	Thermal technology to eliminate uncontrolled growth. Handy and easy to use. • Flexible use between paving slabs, at drive-ups or stone edges • Including Piezo ignition • Flame temperature up to 1,000 °C • Including 1 gas cartridge	4 044436020676 404 643 602 0676 Units per pallet: 84 PU weight: 14.8 kg PU packing (H/W/D) cm: 89.0 x 43.5 x 25.5 Length: 85 cm Weight: 1.6 kg		
000178.0050	Display Thermoflamm bio Classic		1	
	For promotion campaigns and additional placements. • Eye-catching display • Display includes 12 Thermoflamm bio Classic • Height: 89 cm • Width: 46 cm • Depth: 51 cm	4		
000170 COEO	Motel display They after the			
000178.6050	Metal display Thermoflamm bio High quality display consisting of a powder-coated tubular steel frame. Measurements (H/W/D) cm: WITHOUT header board: 138.0 x 60.0 x 80.0 WITH assembled header board: 180.0 x 60.0 x 80.0 Equipment: 11 x Thermoflamm bio Classic, Ref. no. 000178.0000 11 x Thermoflamm bio Comfort, Ref. no. 000180.0000 36 x gas cartridges Optional Thermoflamm bio Electro integrable in display	4 046436023882 404 643 602 3882 Units per pallet: 2 PU weight: 78 kg	1	
000180.0000 Piezo-System	Thermoflamm bio Comfort		6	
CAT CAMPAGE AND A CAMPAGE AND	Thermal technology to eliminate uncontrolled growth. Thermoflamm bio Comfort – easy to use in many ways. • Ergonomic handle for fatigue-free working • Elegant one-hand use thanks to the ignition mechanism (Piezo ignition) integrated in the handle • Largest possible safety distance to the flame • Additional comfort thanks to the soft gripping surface of the handle • Flame temperature up to 1,000 °C • Including 1 gas cartridge	4 0.46436021147 404 643 602 1147 Units per pallet: 84 PU weight: 15.8 kg PU packing (H/W/D) cm: 90.0 x 44.0 x 25.0 Length: 97 cm Weight: 1.7 kg		
000180.0010	Display Thermoflamm bio Comfort		1	
	For promotion campaigns and additional placements. • Eye-catching display • Display includes 12 Thermoflamm bio Comfort • Height: 106.5 cm • Width: 50 cm • Depth: 46 cm	4 0.44 0.43 0.21 0		
MEIL				
000173.0000	Thermoflamm bio Electro Elimination of wild growth with an electrically operated 650 °C heat ray. • Low weight and ergonomic handle • Operates at the press of a button • Maximum safety – operation only possible with the button pressed, device turns off automatically upon release • Strain relief for cable • 650 °C heat ray to effectively fight weeds • Conical nozzle provides optimized heat protection to the outside • Motor 230 V • Power 2,000 W	4 0.46 43 610 24 64 3 404 643 602 4643 Units per pallet: 150 PU weight: 8.4 kg PU packing (H/W/D) cm: 80.0 x 8.0 x 20.0 Length: 116 cm Weight: 1.1 kg	4	

Thermoflamm bio \cdot Universal gripper \cdot Gardenboy









Reference	Description	Logistics data	PU	
000173.0050 WITHOUT PICTURE	Display Thermoflamm bio Electro For promotion campaigns and additional placements. • Eye-catching display • Display includes 8 Thermoflamm bio Electro	4 046438024850 404 643 602 4650 Units per pallet: 4	1	
000181.5000 DYÓW	Thermoflamm bio Professional The Thermoflamm bio Comfort easily and efficiently removes uncontrolled growth between pavement slabs. at drive-ups or stone edges. • Efficient weed control by means of professional technology • For connection to a gas cylinder (butane/propane) • Chrome-plated • Burner nozzle F60mm chrome-plated • Including 5 m hose	4 046436021468 404 643 602 1468 Units per pallet: 54 PU weight: 16.0 kg PU packing (H/W/D) cm: 51.0 x 98.0 x 25.0 Length: 94 cm Weight: 1.6 kg	6	
000182.5000	Thermoflamm pressure reducer • 4 bar • Thread 3/8" left • Flow volume 8 kg/h • GLORIA Thermoflamm bio Professional (Ref. 000180.5000) accessory	4 0464360021475 404 643 602 1475 PU weight: 1.73 kg	6	
728414.0000	Thermoflamm gas cartridge Gas mixture of butane and propane 330 g. 600 ml ● 70 % butane. 30 % propane	4 0.4643.602.1680 404 643 602.1680 PU weight: 5.6 kg Height: 26 cm Ø 0.65 cm Weight: 0.46 kg	12	
728303.0000	Thermoflamm gas cartridge Gas mixture of butane and propane 330 g. 600 ml ● 70 % butane. 30 % propane	4 04643810206831 404 643 602 0683 PU weight: 11.2 kg Height: 26 cm Ø 0.65 cm Weight: 0.46 kg	24	
000147.0000	Universal gripper SE Gripping without bending down. Particularly suitable for picking up refuse. • Length approx. 99 cm • Grip span approx. 13.5 cm • Weight approx. 400 g • Ergonomic pistol grip • Suitable for left and right handers • Aluminium shaft • Gripping jaws (made of thermoplastic material) replaceable • Also grips small objects • Easy to use • With four-colour information card	4 0063251668310 400 632 566 8310 Units per pallet: 192 PU weight: 3.2 kg PU packing (H/W/D) cm: 104.0 x 22.5 x 16.5 Length: 105 cm Weight: 0.27 kg	6	
000220.0000	Gardenboy Plus 400 W The innovative electric rotary tiller to tend edges. to scarify, to crumble, to loosen and to weed. • Ergonomic handle grip • Additional handle that can be adapted to the body height • Counteroscillating tine plates treat plants and roots with care • Motor 230 V • Power 400 W • Working depth 80 mm • Weight 2.3 kg	4 046436021314 404 643 602 1314 Units per pallet: 56 PU weight: 24.0 kg PU packing (H/W/D) cm: 60.5 x 79.0 x 42.5 Length: 130 cm Weight: 2.8 kg	6	







Discover the extensive GLORIA product range for house and garden, handiwork, industry and cleaning.



The GLORIA Product range for house and garden. From fine and handheld sprayers for terraces and balconies to pressure sprayers with 3 - 8 litre volumes all the way to piston knapsack sprayers for professional use in forestry and agriculture; you will find numerous devices and helpers in the current catalogue.



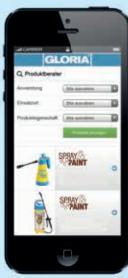
The complete GLORIA Profiline assortment for cleaning, presented in a user-friendly overview in our twelve-page brochure. Inform yourself about our performance spectrum and our product assortment for vehicle care, cleaning and disinfection work as well as pest control.



GLORIA provides a comprehensive assortment of sprayers for the sophisticated application in industry, handcraft and agriculture. Find out more about the GLORIA high-performance sprayers and the many technical and functional details in our twenty-page catalogue.

The current GLORIA product catalogues and brochures can be received from a specialist dealer in your area or as a PDF download on the GLORIA homepage.

GLORIA product advisor



Scan the following QR code and find the right product for your required field and site of application in a few seconds with the help of the free GLORIA product advisor.











Innovative plant protection









AUTOMATIC

PRACTICAL • SAFE

Automatic dosing, safe and easy to use, closed cartridge for multiple use



Innovative plant protection means: A complicated mixing of the pesticides is no longer necessary. Fill the tank with water, attach the pesticide cartridge and you can get going with the right dosage for your chosen use.







You will find detailed product information and a list of the appropriate pesticides easily and quickly by scanning the QR code or going to www.klick-and-go.com

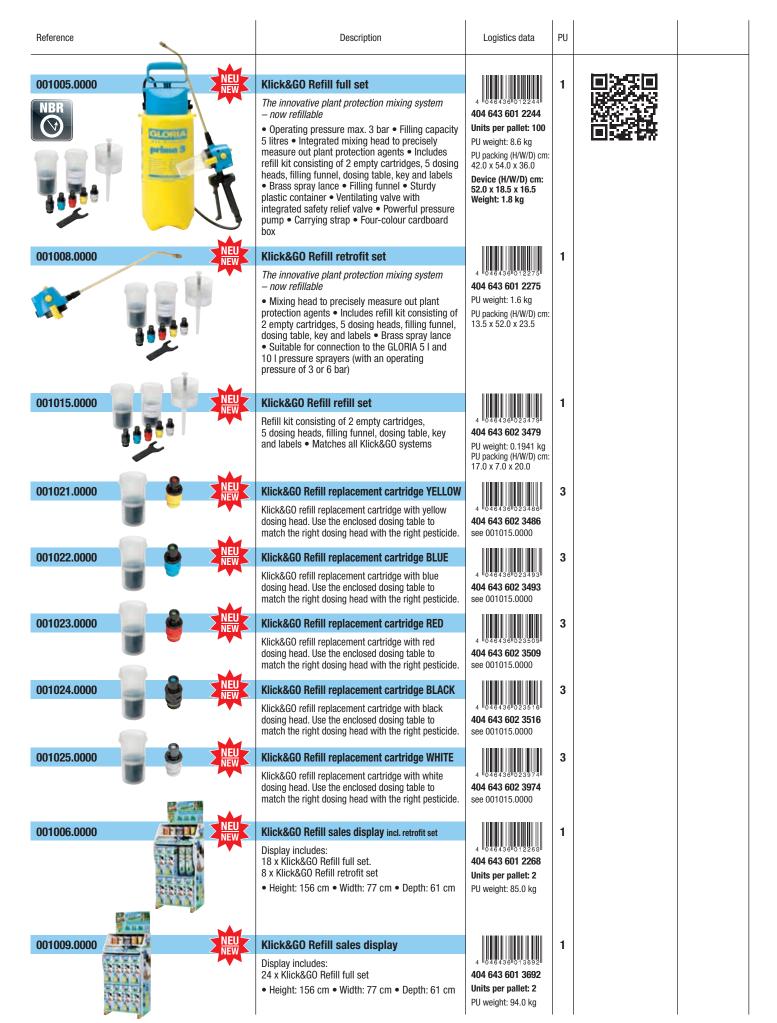
www.klick-and-go.com

Klick&GO Refill system













Step 1 Unscrew FoamyClean 100

Step 2 Fill with commercial cleaning agent

Step 3 Here we go!











Steel high-performance sprayers Profiline





















Profiline • Special pressure sprayers (oil-proof)









Reference Description Logistics data PU 000512.0000 High-perfomance sprayer 510 T Profiline 1 Oil-proof. Ideally suitable for industry, craft and 404 643 600 0371 agriculture. Units per pallet: 45 · Operating pressure max. 6 bar · Filling capacity 10 litres • Stainless steel container, non-corroding PU weight: 6.2 kg • TÜV and GS tested (approved safety) • Pressure PU packing (H/W/D) cm: gauge . Safety relief and ventilating valve 67.6 x 25.6 x 23.1 • Storage bin for replacement seals, nozzles etc. Device (H/W/D) cm: • 2 padded carrying straps with quick-tightening system, portable on back • Additional filter: 65.0 x 21.0 x 20.0 Weight: 5.5 kg collects dirt particles and prevents the nozzle from clogging • Residue drainage • Support for spray lance • Flat jet nozzle type 8004 E, 80° • With info cards and support for info cards . Hose 1.35 m . Length of spray lance 50 cm 000512.2700 High-perfomance sprayer 510 TK Profiline 1 Oil-proof. Ideally suitable for industry, craft and 404 643 600 0456 agriculture. • Operating pressure max. 6 bar • Filling capacity Units per pallet: 45 10 litres • Stainless steel container, non-corroding PU weight: 6.4 kg • TÜV and GS tested (approved safety) • Pressure PU packing (H/W/D) cm: gauge • Safety relief and ventilating valve 67.6 x 25.6 x 23.1 • Storage bin for replacement seals, nozzles etc. Device (H/W/D) cm: • 2 padded carrying straps with quick-tightening system, portable on back • Additional filter: 510 TK 65.0 x 21.0 x 20.0 Weight: 5.6 kg collects dirt particles and prevents the nozzle from clogging • Residue drainage • Support for spray lance • Flat jet nozzle type 8004 E, 80° • With info cards and support for info cards • Integrated compressor connection • Hose 1.35 m • Length of spray lance 50 cm 000179.0000 Stratos 5 - oil-proof 1 Universal pressure sprayer. 400 632 551 0404 • Operating pressure max. 3 bar • Filling capacity Units per pallet: 72 5 litres • Container made of high-quality plastic • Indicator pressure gauge • Brass spray lance PU weight: 2.3 kg Support for spray lance • Safety valve
Convenient filling funnel • Powerful pump
Flat jet nozzle type 8004 E, 80° • Carrying strap PU packing (H/W/D) cm: 55.0 x 20.0 x 20.0 Device (H/W/D) cm: 54.5 x 18.5 x 16.5 Weight: 1.9 kg 000081.0725 **Special-Pressure sprayer Pro 5** 1 400 632 569 3046 · Operating pressure max. 3 bar · Filling capacity Units per pallet: 100 5 litres • Safety valve • Convenient filling funnel • Powerful pump • Carrying strap • Viton® seal PU weight: 7.3 kg · Oil-proof hose · Container made of high-quality PU packing (H/W/D) cm: plastic • Adjustable hollow cone nozzle 20 42.0 x 54.0 x 36.0 Device (H/W/D) cm: 52.0 x 18.5 x 16.5 Weight: 1.67 kg 000092.0000 **Special-Pressure sprayer Pro 8** 1 Oil-proof. 404 643 601 3913 • Operating pressure max. 3 bar • Filling capacity 8 litres • Safety valve • Convenient filling funnel Units per pallet: 64 Powerful pump
 Carrying strap
 Viton[®] seal PU weight: 13.0 kg Oil-proof hose Container made of high-quality plastic Bottom ring and support for spray lance PU packing (H/W/D) cm: 64.0 x 43.5 x 43.0 Adjustable hollow cone nozzle Device (H/W/D) cm: 61.5 x 22.5 x 21.5

Weight: 2.78 kg













Fine sprayers · Special pressure sprayers (oil-proof)







	1	I		
Reference	Description	Logistics data	PU	
000094.0000	Fine sprayer Pro 05, oil-proof		12	
FPM OF Pro 05	Practical and versatile for industry and craft. Suitable for applying oil-containing liquids. • Filling capacity 0.5 litre • Double-acting precision pump: pump 1 x = spray 2 x • Ergonomically designed pixol grip • Continuously adjustable nozzle incl. brass insert and comfortable grip structure • Fine spray pattern • High degree of stability thanks to flat base • Transparent level indicator strip • Large filler opening for comfortable filling • Container made of high-quality plastic	4 "046436"022212" 404 643 602 2212 Units per pallet: 756 PU weight: 2.4 kg PU packing (H/W/D) cm: 27.0 x 41.0 x 26.0 Device (H/W/D) cm: 23.0 x 12.5 x 10.0 Weight: 0.18 kg		
000095.0000	Fine sprayer Pro 10, oil-proof		12	
FPM O	Practical and versatile. • Filling capacity 1 litre • Double-acting precision pump: pump 1 x = spray 2 x • Ergonomically designed pistol grip • Continuously adjustable nozzle incl. brass insert and comfortable grip structure • Fine spray pattern • High degree of stability thanks to flat base • Transparent level indicator strip • Large filler opening for comfortable filling • Container made of high-quality plastic	4 04643 6022229 404 643 602 2229 Units per pallet: 504 PU weight: 3.2 kg PU packing (H/W/D) cm: 27.5 x 48.0 x 30.0 Device (H/W/D) cm: 28.0 x 12.5 x 12.0 Weight: 0.22 kg		
000098.0000	Pressure sprayer Pro 100		4	
FPM Graphs Graphs Pro 100	Practical and versatile. • Operating pressure max. 3 bar • Filling capacity 1 litre • Container made of high-quality plastic • High-quality flat brass nozzle type 8002, 80° • High stability thanks to inward curved, flat bottom • Safety valve • Precision pump • Ergonomically designed handle	4 648436023393 404 643 602 3394 Units per pallet: 264 PU weight: 1.5 kg PU packing (H/W/D) cm: 26.0 x 33.0 x 30.5 Device (H/W/D) cm: 28.0 x 18.0 x 13.0 Weight: 0.41 kg		
000089.0000 FPM	Special pressure sprayer type 89, oil-proof Practical and versatile. • Operating pressure max. 3 bar • Filling capacity 1 litre • Safety valve • Precision pump • Adjustable hollow cone nozzle with swivelling nozzle head • Can be equipped with extension lance 0.50 m	4 0083251508508 400 632 550 6506 Units per pallet: 144 PU weight: 2.5 kg PU packing (H/W/D) cm: 32.5 x 50.0 x 20.0 Device (H/W/D) cm: 29.5 x 26.0 x 21.0 Weight: 0.59 kg	3	







grip structure • Fine spray pattern • High degree of stability thanks to flat base • Large filler opening for comfortable filling • Container made of high-quality plastic

PU packing (H/W/D) cm: 27.0 x 41.0 x 26.0

Device (H/W/D) cm: 23.0 x 13.0 x 11.5 Weight: 0.17 kg

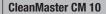
000613.0000











Handy and very efficient fine sprayer for cleaning

- Filling capacity 1.0 litre Double-acting precision pump: pump 1 x = spray 2 x
- · Ergonomically designed pistol grip
- Continuously adjustable nozzle and comfortable grip structure • Fine spray pattern • High degree of stability thanks to flat base . Large filler opening for comfortable filling • Container made of high-quality plastic



12

4

1

404 643 602 2199 Units per pallet: 480 PU weight: 3.0 kg PU packing (H/W/D) cm: 27.5 x 48.0 x 30.0 Device (H/W/D) cm: Weight: 0.21 kg



000615.0000







CleanMaster CM 12

Pressure sprayer for applying acid and alkaline spraying agents (for agents approved by GLORIA).

• Operating pressure max. 3 bar • Filling capacity 1.25 litres • Sturdy plastic container • Powerful pump • Safety valve • Adjustable hollow cone nozzle



404 643 602 0881 Units per pallet: 144

PU weight: 3.5 kg PU packing (H/W/D) cm: 33.5 x 36.5 x 34.0

Device (H/W/D) cm: 31.5 x 20.5 x 13.0 Weight: 0.47 kg



000620.0000







CleanMaster CM 50

Pressure sprayer for applying acid and alkaline spraying agents (for agents approved by GLORIA).

- Operating pressure max. 3 bar Filling capacity 5 litres • Sturdy plastic container • Powerful pump • Safety valve • Portable on shoulder
- Hose made of reinforced PVC Plastic spray lance with acid-proof flat jet nozzle • Extension lance 50 cm



Units per pallet: 100 PU weight: 8.3 kg PU packing (H/W/D) cm: 42.0 x 54.0 x 36.0

Device (H/W/D) cm: 56.0 x 18.5 x 17.0 Weight: 1.8 kg

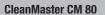


000625.0000









Pressure sprayer for applying acid and alkaline spraying agents (for agents approved by GLORIA).

- Operating pressure max. 3 bar Filling capacity 8 litres • Sturdy plastic container • Powerful pump . Safety valve . Portable on shoulder
- Hose made of reinforced PVC Plastic spray lance with acid-proof flat jet nozzle • Extension lance 50 cm



404 643 602 0904 Units per pallet: 64 PU weight: 12.2 kg PU packing (H/W/D) cm: 64.0 x 44.0 x 43.0

Device (H/W/D) cm: 63.0 x 23.0 x 22.0 Weight: 2.7 kg



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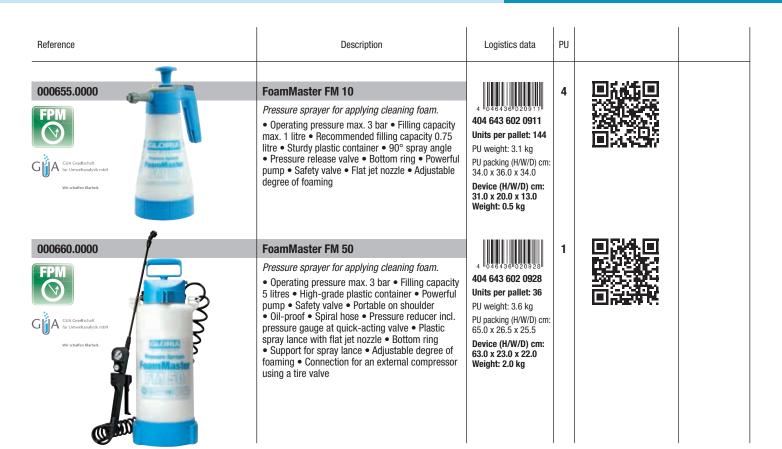














Wir schaffen Klarheit.

GLORIA sign of quality: **GUA-certification for CleanMaster** and FoamMaster products

The hand and pressure sprayers belonging to the GLORIA CleanMaster and FoamMaster range are tested by the state recognised GUA – Gesellschaft für Umweltanalytik (Association for Environmental Analysis) – control and certification office regarding their use in food-processing operations. The entire range of GLORIA cleaning sprayers can be used without hesitation for the application of alcoholic solutions of up to 20 %.

Every cleaning agent is different!

We will gladly verify the suitability of your agents with our products. In this way we ensure long-term, faultless operation of your new GLORIA sprayer.

Resistance tab for the CleanMaster products:

CM-Series: CleanMaster CM 05, CM 10, CM 12, CM 50, CM 80

Spray liquids are a mixture of different substances. In the majority of cases the composition ot these liquids is only known by the manufacturer. The suitability of a sprayer with a particular liquid has to be proven by the operater in consultation with the manufacturer before use. An aid to orientation is the following list of acidic and alkaline solutions, which are already tested.

Wheel Cleaner Extreme 10 % Sauer Stark Konzentrat 10 % Acetic acid 10 % Nitric acid 10 % Hydrochloric acid 10 % Sodium hydroxide 20 % Caustic potash 20 % Sulphuric acid 30 % Phosphoric acid 30 % Propionic acid 10 % Saprol (Pilzfrei) Betogel K Siccorol Premium **ESKANOL 10.489** BE Regenfest

Bitumreiniger 100 % **Facade Cream** Polysil GB1 100 % Polysil BG 2 100 % Polysil OLH 100 % Polysil TG 500 100 % Siloyan 100 % Divinol 2321 DKW

The CleanMaster sprayers can't be used with hydrofluoric acid and formic acid, acetic acid and propionic acid in higher concentration as well as flammable liquids with a flash point under 55°C.

Accessories for special applications



Reference	Description	Logistics data	PU	
728339.0000	Marking rings including metering aid • 0.5 litre • Enable colour-code marking of sprayers • Simplify admixing of cleaning agent concentrates by indication of percentage • Set of 4 colours • Suitable for CleanMaster CM 05 until model year 2011 (ret. 000605.0000)	4 0.48438 021093 404 643 602 1093	4	
728340.0000	Marking rings including metering aid 1.0 litre • Enable colour-code marking of sprayers • Simplify admixing of cleaning agent concentrates by indication of percentage • Set of 4 colours • Suitable for CleanMaster CM 10 until model year 2011 (ret. 000610.0000)	4 046436 021109 404 643 602 1109	4	
728341.0000	Marking rings including metering aid 1.25 litre • Enable colour-code marking of sprayers • Simplify admixing of cleaning agent concentrates by indication of percentage • Set of 4 colours • Suitable for CleanMaster CM 12	4 04643610211116 404 643 602 1116	4	
728524.0000	(ref. 000615.0000) Set of felt washer cartridges • Set of 3 cartridges • To set the correct degree of foaming: excessive (with 4 felt washers / black), medium (with 3 felt washers / red), slightly foaming (with 2 felt washers / blue) • Can be replaced with just a few twists • Colour-coded to enable easy distinction • Suitable for the GLORIA FoamMaster pressure sprayers	4 046436022380 404 643 602 2380	4	
728311.0000	Spray lance 35 cm • Increased working comfort thanks to extended operating distance • The swivelling spray head enables higher accuracy • The flat jet nozzle enables the cleaning foam to be put out effectively • Suitable for the FoamMaster pressure sprayers	4 046436022980 404 643 602 0980	1	
728305.0000	Universal foam nozzle Suitable for all GLORIA pressures sprayers	4 046436020843 404 643 602 0843	3	























GLORIA accessories and spare parts

































	I	1		 	
Reference	Description	Logistics data	PU		
000124.0000	Brass lance extension type 124		6		
	For high-performance sprayers, pressure sprayers and piston knapsack sprayers 2012, 2016, 2018. Inner diameter 9 mm, length 0.5 m.	4 00 632 550 1747			
000109.0000	Brass lance extension type 109		6		
	For high-performance sprayers, pressure sprayers and piston knapsack sprayers 2012, 2016, 2018. Inner diameter 9 mm, length 0.7 m.	400 632 550 1600			
000110.0000	Brass lance extension type 110		6		
	For high-performance sprayers, pressure sprayers and piston knapsack sprayers 2012, 2016, 2018. Inner diameter 9 mm, length 1 m.	4 006325 501617 400 632 550 1617			
000122.0000	Plastic telescopic lance extension incl. nozzle		3		
	Steplessly extractable from 0.58 to 1.0 m. Suitable for types 229 S/T/TS, prima 5, 256, 257, 261, 262, prima-series, Primex 5 and Pro 5.	4 006325 670115 400 632 567 0115			
727658.0000	Plastic telescopic spray lance		1		
	Complete including connecting hose and valve for pest control, telescopic in 3 stages from 0.90 m – 3.00 m, suitable for all high-performance sprayers.	4 006325 709341 400 632 570 9341			
000131.0000	Brass telescopic lance extension		6		
	For use with high-performance sprayers, pressure sprayers and piston knapsack sprayers 2012, 2016, 2018. Steplessly extractable from 0.5 to 1.0 m.	4 006325 501860 400 632 550 1860			
000132.0000	Brass telescopic lance extension		6		
	For use with high-performance sprayers and pressure sprayers incl. brass quick-acting valve as well as piston knapsack sprayers 2012, 2016, 2018. Steplessly extractable from 1.0 to 2.0 m.	4 006325 501907 400 632 550 1907			
706500.0000	Spray lance cpl. including nozzle		3		
	Suitable for all high-perfomance sprayers and piston knapsack sprayers.	4 006325 612658 400 632 561 2658			
706610.0000	Brass spray lance cpl. including brass nozzle		3		
	Adjustable, suitable for types 229, 229 S, 229 T, 229 TS, 256, 257, prima-series and primex.	400 632 561 2726			
725880.0000	Spray lance cpl. including joint piece and nozzle		3		
	Adjustable, suitable for types 229, 229 S, 229 T, 229 TS, 256, 257, prima-series and primex.	4 006325 620790 400 632 562 0790			
726898.0000	Spray lance cpl.		3		
44.	Suitable for types prima 5, prima 8, 229 S from 3/95.	4 006325 631314			
728233.0000	Flexible tube cpl. M18 x 1.5 (without nozzle)		1		
No. of Concession, Name of Street, or other Persons, Name of Street, or ot	Suitable for Hobby 125, type 90. To use with nozzles 000111.0000, 000113.0000, 726029.0000.	4 046436021512			
728396.0000	Flexible tube cpl. M11 x 1 (without nozzle)		1		
E Process	Suitable for prima-series, primex, 261 / 262, all high-performance sprayers, piston knapsack sprayers 2012, 2016, 2018, Pro 5 / 8. To use with nozzles 000111.0000, 000113.0000, 726029.0000.	4 046436 021529 404 643 602 1529			

Pressure regulator for GLORIA sprayers To set the response. Suitable for all high-performance sprayers. 1	Reference	Description	Logistics data	 PU	
To set the required operating pressure. Suitable A00 632 569 0023 A00 632 569 1328 A00 632 569 1329	TIOTOTOTIUG	υσοσιημιστι	Logistics data	10	
To set the required operating pressure. Suitable for all high-performance sprayers. 400 632 563 0023	000022 0000	Proceure regulator for CLODIA enravers			
Total high-performance sprayers. A00 632 560 0023	00022.0000		4 006325 500023		
Suitable for all high-performance sprayers. 400 632 561 2297 Compressor connection, oil-proof Suitable for 6 bar high-performance sprayers. Selety value + Compressed air connection A00 632 561 3283 726896.0000 Plastic quick-acting valve Including handle, sieve tube and union nut from 398. Suitable for all 40 - 84 (Sarden-Hicbby pressure purpers from GLERIA. Plastic quick-acting valve Including handle, sieve tube and union nut from 398. Suitable for all 40 - 84 (Sarden-Hicbby pressure purpers from GLERIA. Plastic quick-acting valve Including handle, sieve tube and union nut. Suitable for all 6 - 84 (Sarden-Hicbby pressure purpers from GLERIA. Plastic quick-acting valve Including handle, sieve tube and union nut. Suitable for plast performance sprayers. Non-return valve cpl. Suitable for all high-performance sprayers until year 2006 and from 2011. Non-return valve cpl. Suitable for all high-performance sprayers until year 2006 and from 2011. Ventilating valve cpl., oil-proof Suitable for all non-il-proof 15 pressure sprayers Valve diaphtragm (flutter valve) Suitable for all non-il-proof 15 pressure sprayers High-performance sprayers High-performance sprayers Valvable for all high-performance sprayers Pump rods cpl. Suitable for all high-performance sprayers Pump cpl. Suitable for all high-performance sprayers A04 643 600 0897 1 1 A05 632 562 0774 A06 632 562 0774 A07 632 662 0774 A08 632 662 0774 A08 632 662 0774 A08 632 662 0774 A09 632			400 632 550 0023		
Suitable for all high-performance sprayers. 400 632 551 2897 Compressor connection, oil-proof Suitable for 6 bar high-performance sprayers. Selfely valve + Compressed air connection A00 632 550 1838 Pastic guick-acting valve Complete including sieve bute and union nut from 398. Suitable for all 61-8-4 Carden-Hobby pressure sprayers from GLUFIA. Pastic guick-acting valve Including handle, sieve bute and spiral threaded clamp. Suitable for all 6-8-4 Carden-Hobby pressure sprayers from GLUFIA. Pastic guick-acting valve Including handle, sieve bute and minon nut. Suitable for all 7-8-4 Carden-Hobby pressure sprayers from GLUFIA. Pastic guick-acting valve Including handle, sieve bute and minon nut. Suitable for all min-performance sprayers until year 2008 and from 2011. Non-return valve cpl. Suitable for all high-performance sprayers until year 2008 and from 2011. Ventilating valve cpl., oil-proof Suitable for all min-performance sprayers until year 2008 and from 2011. Valve diaphragm (flutter valve) Suitable for all non oil-proof high-performance sprayers Valve diaphragm (flutter valve) Suitable for all non oil-proof high-performance sprayers Valve diaphragm (flutter valve) Suitable for all non oil-proof high-performance sprayers Valve diaphragm (flutter valve) Suitable for all non oil-proof high-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutter valve) Suitable for all non-performance sprayers Valve diaphragm (flutt	706410 0000	Pressure gauge including soal 6 har			
000135,0000 Compressor connection, oil-proof Sulfable for 6 bar high-performance sprayers Sulfable for all 3 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 - 8 -	100710.0000		4 006325 612597	•	
Suitable for 8 Dar high-performance sprayers			400 632 561 2597		
Sately valve Compressed air connection 400 632 550 1938	000135.0000			1	
Complete including sieve tube and union nut from 3/95. Suitable for all 3 - 8 - 16 Garden-Hobby pressure sprayers from GLOFIA.		Safety valve	400 632 550 1938		
395. Suitable for all 3 - 3 - 4 Carden-Hobby pressure syrayers from GLORIA.	726896.0000	Plastic quick-acting valve		3	
Including handle, sieve tube and spiral threaded clamp. Suitable for all 3 - 8-1 Garden-/Hobby pressure synayers from £0.00 c		3/95. Suitable for all 3 - 8-I Garden-/Hobby	4 006325 631321 400 632 563 1321		
Calamp. Sultable for all 3 - 8-1 Garden-Hobby pressure sprayers from GLORIA. 400 632 561 2702	706590.0000	Brass quick-acting valve		3	
Including handle, sieve tube and union nut. Suitable for types 256, 257, 261 + 262. 400 632 662 0820 3 2 2 2 2 2 2 2 2 2		clamp. Suitable for all 3 - 8-I Garden-/Hobby	4 006325 612702 400 632 561 2702		
Suitable for types 256, 257, 261 + 262. 400 632 562 0820 3 400 632 562 0820 3 3 400 632 563 3051 3 3 400 632 563 3051 3 3 400 632 563 3051 3 3 400 632 563 3051 3 3 400 632 563 3051 3 400 632 563 3051 3 400 632 563 3051 3 400 632 563 3051 3 400 632 563 0738	725910.0000	Plastic quick-acting valve		3	
Complete including sieve tube and spiral threaded clamp. Suitable for all high-performance sprayers.			400 632 562 0820		
Clamp. Suitable for all high-performance sprayers. 400 632 561 3061	707340.0000			3	
Suitable for all high-performance sprayers until year 2006 and from 2011. 400 632 562 0738 3			400 632 561 3051		
Suitable for all high-performance sprayers until year 2006 and from 2011. 400 632 562 0738 3	725790,0000	Non-return valve cpl.		3	
Ventilating valve cpl., oil-proof Suitable for prima-series, primex, Pro 5, Pro 8, 229 TS / 229 S. 404 643 600 0395		Suitable for all high-performance sprayers until	4 006325 620738		
Ventilating valve cpi., oii-proof Suitable for prima-series, primex, Pro 5, Pro 8, 229 TS / 229 S. 4 4 404 643 600 0395 4 4 404 643 600 0395 4 4 4 404 643 600 0395 4 4 4 4 4 4 4 4 4		year 2006 and from 2011.	400 632 562 0738		
229 TS / 229 S.	727984.0000	Ventilating valve cpl., oil-proof		3	
Suitable for all non oil-proof high-performance sprayers from 2007 – 2011, suitable for all non-oil-proof 5 I pressure sprayers.	•		4 046436 000395		
Suitable for all non oil-proof high-performance sprayers from 2007 – 2011, suitable for all non-oil-proof 5 I pressure sprayers.	728086,0000	Valve diaphragm (flutter valve)		3	
T28058.0000 High-performance pump cpl., oil-proof Suitable for all high-performance sprayers. T28057.0000 Pump rods cpl. Suitable for all high-performance sprayers. T25770.0000 Pump cpl. Suitable for all 3 - 8-I Garden-/Hobby pressure sprayers from GLORIA. T28629.0000 Pump (stainless steel) For piston knapsack sprayers 18 I. T28629.0000		Suitable for all non oil-proof high-performance	4 046436 000937		
Suitable for all high-performance sprayers. 4	r i	sprayers from 2007 – 2011, suitable for all non-oil-proof 5 l pressure sprayers.	404 643 600 0937		
Suitable for all high-performance sprayers. 4 046436 007875 4 046436 007875 4 046436 007875 4 046436 007875 4 046436 0007875 0 0 0 0 0 0 0 0 0	728058.0000	High-performance pump cpl., oil-proof		1	
728057.0000 Pump rods cpl. Suitable for all high-performance sprayers. Pump cpl. Suitable for all 3 - 8-I Garden-/Hobby pressure sprayers from GLORIA. Pump (stainless steel) For piston knapsack sprayers 18 I.			4 046436 007875		
Suitable for all high-performance sprayers. 4	700077 0000		404 043 000 /8/5		
725770.0000 Pump cpl. Suitable for all 3 - 8-I Garden-/Hobby pressure sprayers from GLORIA. Pump (stainless steel) For piston knapsack sprayers 18 I.	728057.0000		4 046436000099	1	
Suitable for all 3 - 8-I Garden-/Hobby pressure sprayers from GLORIA. Pump (stainless steel) For piston knapsack sprayers 18 I.		ошальстог ан нідп-репоннанье хргауегя.	404 643 600 0999		
728629.0000 Pump (stainless steel) 400 632 562 0714 For piston knapsack sprayers 18 I. 4 046436 023776	725770.0000	Pump cpl.		1	
For piston knapsack sprayers 18 I. 4 046436 023776			4 006325 620714		
	728629.0000			1	
		For piston knapsack sprayers 18 l.	4 0 4 6 4 3 6 0 2 3 7 7 6 404 643 602 3776		

Nozzles Nozzles

Reference	Description	Logistics data	PU	
000111.0000	Special flat jet nozzle 111 Type ES 9002 (90°) Suitable for all high-performance sprayers.	4 006325 501624 400 632 550 1624	3	
000112.0000	Special lime nozzle For use with lime only. Suitable for all steel sprayers and type 162.	Self-service packaging unit: 1	3	
000113.0000	Brass hollow cone nozzle, adjustable Suitable for all high-perfomance sprayers.	Self-service packaging unit: 1	3	
725820.0000	Hollow cone nozzle Ø 2 mm including atomiser For all GLORIA high-perfomance sprayers. Hollow cone nozzle type G-H 116-80. Spray angle	Self-service packaging unit: 1	3	
725830.0000	80°, Output rate: 1.16 litres per minute at 2 bar Hollow cone nozzle Ø 1 mm including atomiser For all GLORIA high-perfomance sprayers and	Self-service packaging unit: 1 4 0063251620875 400 632 562 0875	3	
726029.0000	piston knapsack sprayer type 2012. Hollow cone nozzle type G-H 49-55. Spray angle 55°, Output rate: 0.49 litres per minute at 2 bar Hollow cone nozzle cpl., adjustable For types 89, 259, 256, 251, 228, 261, 262. Spray angle max. 60°, Output rate: 0.52 itres per minute	Self-service packaging unit: 1	3	
726984.0000	at 2 bar Hollow cone nozzle, adjustable For prima 5 type 42 E and 39 TE.	Self-service packaging unit: 1 4 006325 831826 400 632 563 1826	3	
706810.0000	Hollow cone nozzles, 2 x Ø 1 mm, 1 x Ø 2 mm Including atomiser, suitable for all GLORIA high-performance and piston knapsack sprayers.	Self-service packaging unit: 1	3	
706840.0000	Nozzles Suitable for 229 T, 229 S, 228, 229 old, 229 TS, 39 TE, 251, 259, 256, 257, 89 and prima-series.	Self-service packaging unit: 1	3	
728368.0000	Nozzle Suitable for FM 10	Self-service packaging unit: 1	1	
728372.0000	Nozzle Suitable for FM 50	4 046436 021383 404 643 602 1383	1	
728416.0000 727885.0000	Plastic nozzle 110°, suitable for Spray&Paint (5 litres) and PaintPro 5 Nozzle for gaps and joints	4 046436 021581 404 643 602 1581	3	
727003.0000	Special nozzle, suitable for pest control. For joints from 2.5 mm. Suitable for all high-performance sprayers from year of manufacture 2007 (without self-service packing).	4 006325 927387 400 632 592 7387	•	

Reference	Description	Logistics data	PU	
000260.0000	Spray shield type 260 (100 x 395 mm) Ideal for accurate spraying of edges. For high- performance and piston knapsack sprayers. • Built-in flat jet nozzle • Suspension lug • Nozzle type 8002 E (certified by JKI)	4 0063251504793 400 632 550 4793	3	
000270.0000	Spray shield type 270 (115 x 335 mm) Ideal for accurate spraying of edges. For high- performance and piston knapsack sprayers and all 3-1, 5-1 and 8-1 garden/hobby GLORIA sprayers. • Built-in flat jet nozzle • Suspension lug	4 008325 8509576 400 632 550 9576	3	
000280.0000	Spray shield type 280 (Ø 110 mm) Ideal for accurate spraying of edges. • Suitable for the pressure sprayers of the prima-series, hobby (type 229 TS), hobby universal (type 261), hobby exclusiv (type 262), primex 5 (type 83), Klick&GO • Simple fitting by pushing it onto the nozzle of the spray lance • Including suspension lug • Diameter 110 mm	4 006325 669256 400 632 566 9256	3	
001100.0000	Cleaning agent for sprayers, 250 ml Ecological cleaning agent for garden sprayers. • 100 % herbal • User- and environmentally-friendly • 100 % biodegradable • 100 % effective against residues of plant protecting agents • Protects the sprayer against lime and corrosion • Bottle lasts for up to 10 cleaning processes (in case of containers with a capacity of 5 litres) • Capacity 250 ml.	4 046438022106 404 643 602 2106	5	
000100.0000	Spare parts box	4 0063258883332 400 632 568 8332	1	
725920.0000	Set of seals Suitable for types 217, 217 G, 251.	4 006325 62 0776	3	
726143.0000	Set of seals, oil-proof For use with the special pressure sprayer type 89.	4 0063251622749 400 632 562 2749	3	

40 Seals

Reference	Description	Logistics data	PU	
706400.0000	O-rings for pump (Ø 38 x 5) Suitable for all pressure sprayers and high-performance sprayers.	4 006325 612580 400 632 561 2580	3	
706460.0000	O-rings for pump (Ø 28,15 x 3,5) Suitable for all high-performance sprayers.	4 006325 61 2580 400 632 561 2634	3	
706620.0000	Set of seals, not oil-proof For quick-acting valve.	4 006325 61 2733 400 632 561 2733	3	
706870.0000	Seal for pressure sprayers Suitable for prima-series, primex 5 and all high-perfomance sprayers.	4 006325 61 2849 400 632 561 2849	3	
728033.0000	Set of seals, not oil-proof Suitable for all non-oil-proof high-performance sprayers.	4 046436 000 0982 404 643 600 0982	3	
707360.0000	Set of seals for pressure sprayer Suitable for types 229 S (since 1.2.75), 229 T, 229 TS, 42, prima-series und primex 5	4 006325 61 3068 400 632 561 3068	3	
727629.0000	Set of seals Suitable for pressure sprayer types 261 / 262	4 006325 1672652 400 632 567 2652	3	
711590.0000	Set of seals Suitable for types 2010 G, 2010	4 006325 614171	3	
724170.0000	Set of seals Suitable for types 256, 257	4 006323 620868 400 632 562 0868	3	
725800.0000	Set of seals Suitable for types 228 / 259	4 006325 620752 400 632 562 0752	3	
725840.0000	Set of seals <i>Suitable for types 2001 S, 2001 F, 2001 SG,</i> 165 S, 165 SG	4 006325 820769 400 632 562 0769	3	
728059.0000	Set of seals, oil-proof Suitable for all high-perfomance sprayers	4 046436 000821 404 643 600 0821	3	

Reference	Description	Logistics data	PU	
707270.0000	Set of seals Suitable for high-perfomance sprayers	4 006325 61 3013 400 632 561 3013	3	
726260.0000	Set of seals, oil-proof Suitable for all high-perfomance sprayers until year of manufacture 2006	4 0006325 623814 400 632 562 3814	3	
727932.0000	Set of seals Suitable for piston knapsack sprayers until year of manufacture 2012	4 046436 000166 404 643 600 0166	3	
728008.0000	Set of seals Suitable for SOX 5, 8 and CM 50, 80	4 006325 613013 404 643 600 0968	1	
728322.0000	Set of seals Suitable for SOX 125	4 046436 020805 404 643 602 0805	1	
728366.0000	Set of seals Suitable for FM 10	4 046436 021604 404 643 602 1604	1	
728371.0000	Set of seals Suitable for FM 50	4 046436 021376 404 643 602 1376	1	
728415.0000	Set of seals Suitable for Pro 5, 8, Spray&Paint, PaintPro	4 046436 021574 404 643 602 1574	3	
728417.0000	Set of seals Suitable for Hobby 125	4 0464360021598 404 643 602 1598	3	
728320.0000	Set of seals Suitable for type 90	4 0464361020782 404 643 602 0782	3	
706910.0000	2 x cup seals (Ø 30 mm) Suitable for types 229 T, 229 S, 208, 39 TE, 42 E (until 03/94)	4 006325 612863 400 632 561 2863	3	
725780.0000	2 x cup seals (Ø 35 mm) Suitable for types 256, 257, 261, 262, 39 TE, 42 E, 229 TS, prima 8 (since 03/94)	4 006325 620745 400 632 562 0745	3	
728626.0000	Set of seals Suitable for prima 3	4 046436 023707 404 643 602 3707	3	
728627.0000	Set of seals Suitable for Hobby 1200	4 046436 023738 404 643 602 3738	3	
728628.0000	Set of seals Suitable for Hobby 1800, Pro 1300, Pro 1800	4 046436023745 404 643 602 3745	3	

Reference	Description	Logistics data	PU	
706940.0000	Spraying hose (1.25 m)	4 006225 612970	3	
	Including 2 spiral threaded clamps and 2 hose connection nuts, suitable for types 229 T, 229 S, 229 TS, prima 5, 256, 257.	400 632 561 2870		
706950.0000	Spraying hose (1.40 m)		3	
•	Including 2 spiral threaded clamps, suitable for types 141, 142, 165 S, 2000 F + S, 2001 F + S, 172, 172 R, 178, 176 T, 141 T, 172 T, 172 RT, 142 T, 176, 142 TG, 176 TI, 165 SG, 2001 SG, 172 RTG / RTI, all high-performance sprayers from year of manufacture 2007.	400 632 561 2887		
725900.0000	Spraying hose (1.20 m)		3	
	Including 2 wing nuts, suitable for types 2010, 2010 G.	400 632 562 0851		
711380.0000	Triangular blades cpl.		3	
	Suitable for shredder types 82 from 12/81, 83, 80, 81, 79, 79 S, 300, 350, 400 L, 500 LS, 600 LB, 2200 L, 2400 L, 2800 L, 3000 LS.	400 632 561 4126		
726115.0000	Crown blades cpl.		1	
۰	For shredders 380/400 V and petrol engine shredders, suitable for types 3000 LS, 2800 L, 600 LB, 500 LS, 400 L, 350.	4 0063251622350 400 632 562 2350		
716650.0000	Crown blades cpl.		1	
•	For shredders 220/230 V Suitable for types 82, 83, 80, 81, 79, 79 S, 300 L, 350, 400 L, 500 LS, 2200 L, 2400 L.	4 0063251615307 400 632 561 5307		
726489.0000	Cutter disks cpl.		3	
*	Suitable for shredders Euro 1300, 1400, 1500, 1600, natura 1800 L, natura 2000 L.	4 006325 626686 400 632 562 6686		
726755.0000	Flat blades cpl.		3	
	Suitable for shredders Euro 1300, 1400, 1500, 1600, natura 1800 L, natura 2000 L.	400 632 563 0119		
727311.0000	Flat blades cpl.		3	
	Suitable for universal silent shredders Milan G 1, G 2, G 3, G 4.	4 0063251263126 400 632 526 3126		
727331.0000	Cutter disks cpl.		3	
6	Suitable for universal silent shredders Milan G 1, G 2, G 3, G 4.	4 006325 264949 400 632 526 4949		
727516.0000	Flat blades cpl.		3	
11	Suitable for universal garden shredders Euro E 1, E 2, E 3, E 4, E 5.	4 006325 662875 400 632 566 2875		
727515.0000	Cutter disks cpl.		3	
	Suitable for universal garden shredders Euro E 1, E 2, E 3, E 4, E 5.	4 006325 662868		
000400 5004	Transport trailer			
000198.5001	Transport trolley For use with all 10 I high-performance sprayers	4 046436 000401	4	
	for use with all 101 high-performance sprayers from year of manufacture 2007. For comfortably transporting GLORIA sprayers. Suitable for pressure sprayers and high-performance sprayers including bottom ring.	404 643 600 0401		

Terms of payment and delivery

I. General Terms

Our terms of payment and delivery which our customer, unless it is a consumer as defined by § 13 BGB (Civil Code), accepts by placing an order, shall exclusively apply to all offers, agreements and deliveries i.e. for this transaction as well as for any future transactions even if on the conclusion of those transactions our terms of payment and delivery are not expressly referred to or they are not agreed upon separately. Diverging, opposing or complementing general terms and conditions, even if known, shall not become part of a contract unless we expressly confirm their applicability in writing.

Oral commitments given by our agents or staff as well as any other agreements, particularly if they modify the present terms, shall be valid only if confirmed in writing.

II. Quotation

Our quotations are without engagement. Illustrations, dimensions and indications of weight as well as data printed in other publications are only approximate information and not binding. We reserve technical modifications as well as reasonable changes in form, colour and/or weight. When ordering goods, the customer declares bindingly its intention to purchase the goods ordered. We are entitled to accept the offer of contract contained in the order within two weeks of receipt. Acceptance can be declared either in writing or by delivery of the goods to the customer.

III. Delivery

The agreed delivery periods are not binding. They shall be binding only if they are expressly confirmed by us as binding in writing. The delivery period shall be observed if, by the time of its expiry, the item of delivery has left our warehouse i.e. the customer has been notified about its readiness for shipment . Has an unbinding delivery date been exceeded by more than six weeks, the buyer shall be entitled to order us in writing to deliver within a reasonable period of time. If the purchased item is not delivered by us by expiry of the additional period, either, the customer can cancel the contract by written declaration. The buyer can only claim compensation for loss occasioned by delay or damages for non-performance if we are liable for damage caused intentionally or by gross negligence. In such cases the claim to deliver subsequently is excluded. Within the delivery periods partial consignments are allowed. Shipments executed by subcontractors shall be accepted by the buyer. No further claims, particularly for subsequent delivery and/or damages, regardless of their legal ground, are granted unless we are liable for damage caused intentionally or by gross negligence. In events of force mayeur, particularly strikes, lockouts, shortage of raw material, operational breakdown, traffic breakdown, and any measures of the authorities, the period of delivery shall be extended reasonably. In such unexpected events, we shall have the right to cancel the agreement in part or completely if the events considerably change the scope of performance. In such cases, the buyer may order us to declare whether we intend to carry out the agreement within a reasonable period of time. If we fail to make a declaration in reply, the buyer may withdraw from the contract. Claims for compensations of the buyer are excluded unless we are liable for damage caused intentionally or by gross negligence.

IV. Passing over of risk

For all shipments the risk shall pass over onto the buyer when the goods are received by the forwarding agent /carrier.

V. Warranty, liability for defects, limitation on liability

On our products we grant to the final customer a two years' warranty starting from the date of purchase. This warranty covers all major defects of the devices proved to be caused by defects of material or workmanship. Compensation is granted at our choice by replacement delivery of a device in perfect condition or by repair of the returned device if the following requirements are met:

- The device has been handled properly and according to the user's instructions. Neither the buyer nor
 an unauthorized third party has tried to repair the device.
- The warranty expires if, as replacement or additional parts or as accessories, other than our genuine parts or spare parts approved by us are used.
- The device has been sent direct to one of our customer service agencies, prepaid sufficiently with the fully completed warranty card enclosed.
- If we grant a warranty, this does not result in an extension of the warranty period.
- We do not give a warranty for defects due to wear and tear in proper use.
- This manufacturer's warranty does not affect warranty claims of the final consumer against the wholesaler / retailer.

We grant warranty to our customers according to the legal provisions. We reserve, however, in the case of damaged or faulty consignments, the right to remedy a defect or send a replacement for the delivered goods at our choice. Only if we have failed three times to remedy a defect or send a replacement, our customer shall be entitled to demand a reduction of the purchase price or withdraw from the agreement (rescission of sale). Further claims of our customers, in particular for direct, indirect or consequential harm caused by a defect, regardless of the legal ground, especially by delayed delivery, are excluded unless we are liable for damage caused intentionally or by gross negligence. This limitation on liability does not apply in cases of injury to a person's life, body, and health or gross negligence. In addition, we are not liable for damages, regardless of the legal ground, unless we are liable for damage caused intentionally or by gross negligence. This exclusion of liability does not apply in cases of injury to a person's life, body, and health or gross negligence, either.

VI. Reservation of ownership

We retain title to the goods supplied until our receivables, including those occurring in the future on whatever legal ground, are fully paid, even if payment is made for claims specifically designated. In current accounts the title retained is considered security for our outstanding balance. The buyer may only sell our property in the ordinary course of business and as long as it is not in arrears. The buyer may only resell the reserved goods under the condition that the receivables arising from the sale of the reserved goods are assigned to us immediately and his customers cannot set off the receivables from

the sale against counterclaims. The buyer has no right to dispose of the reserved goods otherwise, he, in particular, must not pledge or transfer them by way of security. Should we learn about circumstances which could reduce the customer's credit standing, we can, after lapse of the granted extension, deny the sale of the goods supplied with retention of title at any time and demand them to be returned at the customer's expense. In this case, the customer has to compensate us for additional freight, postage and other expenses as well as a possible loss of value. The buyer has the right to collect receivables arising from the sale until we revoke it. At our request the customer is obliged to disclose to his customers the assignment of the claim to us and to furnish to us proof of that notification as well as to send to us the information and documentation necessary for the collection of the assigned claims. If the value of the securities assigned to us in total exceeds our claims by more than 20 %, we shall be obliged, at the buyer's request, to release a corresponding part of security at our choice. The rights from the reservation of ownership and all special forms of security as stipulated in this clause shall apply until all contingent liabilities to the buyer are fully satisfied.

VII. Terms of payment

In principle, payment must be made within 30 days of date of invoice without deduction. If the credit period is exceeded, we shall be entitled to claim interest amounting to eight per cent above the respective base interest rate without a separate reminder. Interest is to be calculated at a higher rate, if we furnish proof of a burden with a higher interest rate. Only if expressly agreed, do we accept, by way of payment, bills of exchange stating the value date of the day when we can dispose of the amount payable, i.e. under the condition that the bill of exchange can be discounted. If this is not the case, we reserve the right to return the bills of exchange to the customer and claim payment in cash. We do not accept responsibility for timely presentation, protest, notification and return of the bill of exchange if it is dishonoured unless we are liable for damage caused intentionally or by gross negligence. Stamp duty, discount charge, expenses, and interest are always due at once. We are entitled to assign the claims arising from our business relation. If, after conclusion of the agreement, circumstances come to our knowledge which reduce the buyer's creditworthiness, all our claims shall fall due immediately on expiry of a time limit regardless of the maturity date of the bills of exchange accepted by us. We are entitled to claim securities. After lapse of an extension granted by us, we are entitled to withdraw from the agreement and claim damages for non-performance. Our claims can only be set off against if the counterclaim has not been contested or if a valid title has been furnished. The buyer can only claim a right of retention if it arises from the same contractual relationship.

VIII. Limitation on liability

If not agreed otherwise above, in cases of slight negligence, our liability is limited to the direct typical contractual average damage, predictable depending on the type of goods.

In cases of slightly negligent violation of minor contractual obligations we do not accept liability. In particular, any and all further claims of the customer against us are excluded. This applies especially to claims for damage due to breach of duties arising from the contractual obligations and from tortuous acts. We therefore do not accept liability for damages that do not concern the supplied goods themselves. Above all we do not accept liability for the customer's loss of profit or property.

The above mentioned limitation on liability does not affect the customer's product liability claims. Further this limitation on liability does not apply in cases of injury to the customer's body and health or loss of life.

Damage claims based on defects are time-barred after one year after receipt of goods. This does not apply if we are liable for fraudulent intent.

IX. Miscellaneous

Our company domicile shall be the place of performance. Our company domicile is not the exclusive venue for all present and future claims from the business relation including claims based on bills of exchange and cheques. We have the right to file legal actions against the buyer at the latter's general venue as well.

The law of the Federal Republic of Germany is exclusively applicable. The provisions of CISG do not apply.

Should parts of our terms be invalid, this shall not affect the validity of the remaining ones.

We will record the data necessary for proper performance in our data processing system.

Managing directors: Markus Kress, Andre Kirchesch Registered office: Witten Commercial register: Bochum, HRB 8807

Witten, January 2013 GLORIA Haus- und Gartengeräte GmbH Your GLORIA specialist dealer: $98\mbox{-}228\cdot\mbox{Errors}$ and omissions excepted. Technical modifications reserved.



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