









PROFESSIONAL SPRAYERS

For the manufacturing industry, construction industry, automotive industry, cleaning services and farming

N°22















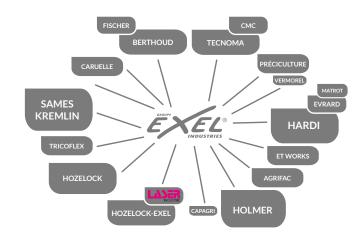
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INTRODUCTION

LASER belongs to the French Family Group **EXEL INDUSTRIES**, world leader in agricultural spraying and beet harvesters and among the main world leaders in consumer watering and spraying industrial.

- World No. 1 in plant protection
- World No. 3 in materials protection
- 3,653 employees, of which 57.6% abroad
- Subsidiaries located in 27 countries on all continents
- 20 industrial sites around the world
- Over 326 active patents filed in many countries.



LASER

The LASER INDUSTRIE range of professional sprayers is dedicated to industry in all of its forms. Since 1991, we have been manufacturing high-performance, reliable sprayers that are technologically very advanced, designed to resist aggressive chemicals (acids, solvents, detergents, bases, etc.)

Our sprayers are used in various fields such as:

- Construction (main works, secondary works)
- Automotive
- Hvgiene
- Livestock farming
- Agri-foods
- Pest control





LASER ADDED VALUES

- ✓ A diversified offer that adapts to the customer
- Made in France
- ✓ A responsive after-sales service with a catalog of 250 spare parts available
- ✓ Product reliability and safety thanks to our ISO 9001 standard



All of our sprayers with a volume greater than 2 liters are made in France, in our factory HOZELOCK-EXEL situated in Villefranche-sur-Saône in the heart of Beaujolais. We are proud to support the local economy and use French know-how.



With ISO 9001 certification, our company applies demanding quality controls to all the manufacturing processes in order to provide quality and safety which complies with the requirements of the Machine Directive.

Customer service

- We keep parts of our old models available for up to 10 years
- Our devices are guaranteed for a minimum of 2 years in accordance with the regulations in force.
- We provide a spare parts catalog with exploded views of our products



www.laser-industries.com/en/

A complete site to help you in your research



Our content



Product sheets:

product presentation and accessories in detail as well as all the advantages products.

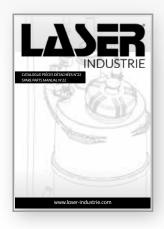


The assembly instructions and use of products

Download our catalogs



Product catalog



The parts catalog detached:

presentation of the composition of our products and references component (useful in case of replacement of a part)

LASER INDUSTRIE

a customised, high-performance and reliable sprayer range

Specially suited for the needs of industry, the LASER INDUSTRIE range of sprayers was designed to resist aggressive chemicals for intensive use such as concentrated acids, alkaline strippers... Applying aggressive chemicals requires components that are specifically selected for their chemical compatibility, but which also provide the sprayer with an excellent lifespan while still providing the user with comfort and performance. That is why several points have to be taken into account when choosing the sprayer adapted to one's needs

The sprayer trigger

The trigger is an essential part of the sprayer as it is the part that is in contact with the user's hand but also with the chemical.

LASER INDUSTRIE sprayers are equipped with the «Profile» trigger which provides optimum comfort during use thanks to its ergonomic shape and guarantees safe and reliable use for the operator.

For example, our «special for acid» trigger includes a seal that isolates the spring of the handle from the sprayed liquid which protects the pistons and therefore the trigger.



The quality of the hose

In order to guarantee long life for our sprayers, all of our hoses are woven in order to guarantee excellent resistance over time. The latter are all manufactured in France by Tricoflex, the reference in hoses.

We have selected the hoses according to the type of application. Our Expert Viton models are as such equipped with hytrel hoses, a material that is highly resistant to solvent chemicals.



The various seals of the sprayer

• Types of seals

Most of the LASER INDUSTRIE sprayers are equipped with «CUP» seals which allow for more contact surface compared to conventional «O-ring» seals. This specificity protects the pump for a longer lifespan and increases pumping efficiency.



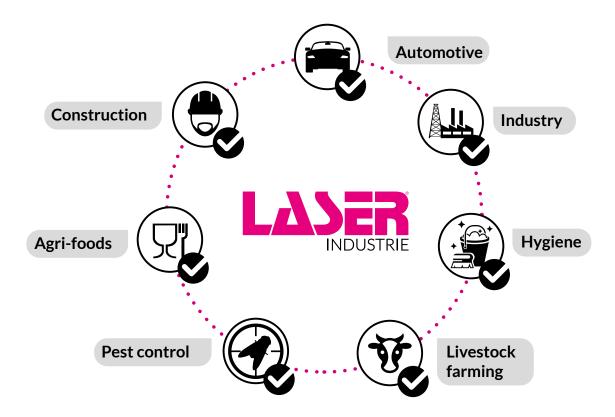
Types of sprayable chemicals

As with seals, sprayers are designed to resist a range of chemicals thanks to specific components (seals, material of the lance, quality of the hose, valve, pump ...)

The 3 major families of chemicals are:

- Neutral /non-corrosive products
- Acid products with a solvent base
- Alkaline products with a chlorine base

A CLEAR SEGMENTATION



Thanks to our product revamp, it is now much easier to make the right choice from the extensive LASER INDUSTRIE range:

- By a simple language :
 - Segmenting products by **type of activity**
 - Colour coding products according to the materials to be sprayed (pH, adapted seals)
- Thanks to a complete and consistent range in order to meet the market expectations
- By clearly communicating the key-product benefits of our LASER INDUSTRIE ranges



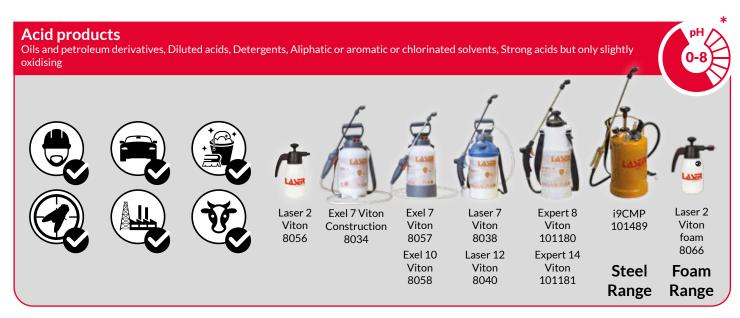




The presentation of the LASER INDUSTRIE product range enables you to identify the correct sprayer according to the pH of sprayed product. In addition, each component (seal, lance, trigger, hose, etc) has a spectrum of resistance to different chemicals. So, we propose sprayers with the most appropriate combination of materials according to the material to be sprayed.



Please consult us to verify the compatibility of our product with the sprayed product technical data sheet..







^{*}Before using the product, please check the compatibility between the sprayer and the chemical.

Applications	LASER 2 Viton	EXEL 7 Construction	EXEL 7/10 Viton	LASER 7/12 Viton	EXPERT 8/14 Viton
	JOINTS VITON SEALS	JOINTS VITON SEALS	JOINTS VITON SEALS	JOINTS VITON SEALS	JOINTS VITON SEALS
	8056	8034	8057 - 8058	8038 - 8040	101 180 - 101 181
Weed killer	YES	YES	YES	YES	YES
Neutral roof anti-moss	YES	YES	YES	YES	YES
Alkaline roof anti-moss	NO	NO	NO	NO	NO
Solvent formwork oil	YES	YES	YES	YES	YES
Plant formwork oil	YES	YES	YES	YES	YES
Linseed oil	YES	YES	YES	YES	YES
Oil for protecting farming machinery	YES	YES	YES	YES	YES
Solvent waterproofing agent for façades	YES	YES	YES	YES	YES
Neutral waterproofing agent for façades	YES	YES	YES	YES	YES
Neutral anti-slip agent	YES	YES	YES	YES	YES
Diluted acids	Contact us				
Neutral formula wood treatment	YES	YES	YES	YES	YES
Wood treatment	YES	YES	YES	YES	YES
Adhesives for wall covering	YES	YES	YES	YES	YES
GO or FUEL	NO	NO	NO	NO	YES
Neutral or acidic disinfectants	YES	YES	YES	YES	NO
Alkaline disinfectants	NO	NO	YES	NO	NO
Foaming alkaline disinfectants	NO	NO	YES	NO	NO
Javel	NO	NO	NO	NO	NO
Diluted caustic soda	NO	NO	NO	NO	NO
Foaming neutral or acidic disinfectants	NO	NO	NO	NO	NO
Neutral or acidic insecticides	YES	YES	NO	YES	YES (except wasp killers)
Alkaline insecticides	NO	NO	NO	NO	NO
Alkaline detergents	NO	NO	NO	NO	NO
Foaming alkaline detergents	NO	NO	NO	NO	NO
Neutral or acidic detergents	YES	YES	NO	YES	YES
Foaming neutral or acidic detergents	NO	NO	NO	NO	NO
Paint strippers	YES	YES	NO	YES	YES
Odour killers	YES	YES	NO	YES	YES
Descaling agents (stainless steel)	YES	YES	NO	YES	NO
Vaccination via inhalation	NO	NO	NO	NO	NO
Vaccination via contact	NO	NO	NO	NO	NO
Chemicals approved for food contact	NO	NO	NO	NO	NO
Liquid food (milk, brine, syrup, colouring)	NO	NO	NO	NO	NO

COSMOS 18 Pro Export	LASER 2 EPDM	EXPERT 8 EPDM	EXPERT 8/14 EPDM steel lance	Exel 7 Nitrile	Other references
JOINTS VITON SEALS	JOINTS EPDM SEALS	JOINTS EPDM SEALS	JOINTS EPDM SEALS	JOINTS NITRILE SEALS	
102 216	8059	101 173	101 177 - 101 778	7007	
YES	NO	NO	NO	YES	
YES	NO	NO	NO	YES	Moto-pompe group
YES	YES	YES	YES	NO	
NO	NO	NO	NO	NO	
YES	NO	NO	NO	YES	
YES	NO	NO	YES	NO	
YES	NO	NO	NO	NO	
YES	NO	NO	NO	NO	Moto-pompe group
YES	NO	NO	NO	NO	Moto-pompe group
YES	YES	YES	YES	YES	
Contact us	Contact us	Contact us	Contact us	Contact us	Contact us
YES	YES	YES	YES	YES	
YES	NO	NO	NO	NO	
YES	YES	YES	YES	YES	
YES	NO	NO	NO	NO	
YES	NO	NO	NO	NO	
YES	OUI	NO	YES	NO	
YES	NO	NO	NO	NO	EPDM Foam range
YES	NO	NO	YES	NO	
YES	NO	NO	YES	NO	
YES	NO	NO	NO	NO	Viton Foam range
YES (except wasp killers)	NO	NO	NO	NO	
YES	YES	YES	YES	NO	
YES	YES	YES	YES	NO	
NO	NO	NO	NO	NO	EPDM Foam range
YES	NO	NO	NO	NO	
NO	NO	NO	NO	NO	Viton Foam range
NO	NO	NO	NO	NO	
YES	NO	NO	NO	YES	
NO	NO	NO	NO	NO	
YES 6/10 ^e nozzle	NO	NO	NO	NO	C5 - Contact us
YES 6/10 ^e nozzle	NO	NO	NO	NO	C5 - Contact us
NO	NO	NO	NO	NO	Chef range
NO	NO	NO	NO	NO	Chef range



Advantages

- + 100% food grade (complies with EC regulation no. 1935/2004 and European regulation 10/2011)
- + Quick to apply, saves time
- + Economical
- + Portability
- + Spray homogeneity (Good distribution of the product applied)
- + Applicator isolated from target
- + Application versatility

Food contact certification

Usage between 3°C and 60°C

Practical, portability



Compatibility table

	COMPRESSI	ON SPRAYER
APPLICATIONS	Hollow cone nozzle	Flat fan nozzle*
Milk	++	++
Brine	++	++
Syrup	+	++
Melted Butter	+	++
Oil	+	++
Liquid Egg	+	++
Caramel	+	++
Liquid maturing flora	++	++
Liquid dye	++	++
Vinegar	++	++



++: Perfect spraying

*Flat fan nozzle specialized for viscous product





Compression sprayer

- Chef 7
- Graduated 5L translucent tank (total capacity 6,4L)
- Ergonomic two-handed pumping trigger
- 3 bar security valve
- Adjustable strap for transport
- Professional food-grade hose phtalate free
- Wide base for better stability
- 40cm Aluminium lance with locking clip
- 2 nozzles included (Hollow and flat fan nozzle)
- Food grade Viton seals
- Technical and traceability information
- Food hose Tricoflex







8064

				Carton				Palette					
Désignation	Référence	Gencod	PCB	Poids net (kg)			Poids net Dimension (kg) LxPxH (mm)				Nb couches	Nb cartons /couche	
Chef 7	8064	3414438080645	1	1,7	200	200	520	132.4	1200	800	1690	3	24



Among its different ranges, there is a range of Laser Industrie products compatible for hygiene actions. Indeed, these products are intended for cleaning needs and disinfection operations through the application of chlorinated disinfectants (bleach, disinfectants, antibacterial products, some acids, etc).

The spraying of bleach or disinfectants can be done with the following Industrial Laser Sprayers:

Comp	oatible trigger	s (Hygiene ra	nge):	Compatibl	e small sprayers :
7				LANER	LAVES
483 403	483 404	483 405	483 406	8059	8065
		Com	patible pre-p	ressure sprayers :	
	LAME				LASS
	8053	101 1	73	101 177	101 178

SOME INFORMATION ABOUT BLEACH

Bleach is available in liquid form (in bottles ans cartons - conservation 3 years) or in solid form (in tablets - conservation 3 mounth). For this reason, the berlingots must be diluted quickly (with cold water). If these times are exceeded, the product no longer disinfects. Bleach should be stored away from light and heat.

Bleach is marketed in several dilution levels, each with a specific name:

- Bleach extract: product containing 9.6% active chlorine;
- Bleach: product containing 2.6% active chlorine; Eau de Labarraque: diluted bleach.

Today, bleach is sometimes incorporated into detergents to provide «2-in-1» products that clean and disinfect.

The wearing of personal protective equipment (such as overalls, goggles, gloves, masks, etc.) is mandatory when handling Laser Industrie sprayers and aggressive chemicals.



- Nozzles with an adjustable and adaptable stream
- Filter-equipped dip tubes
- Sealed models on tank (see compatibility with tanks, p.14)
- Available in different colours
- Different flow rates according to the models (see summary table, p.13)

CANYON

- The market reference for professional triggers
- Ergonomic spray head for that is very comfortable to use (4 fingers)
- Equipped with nitrile
- Product available while stocks last!



VERSATILE PUMP

SPRAY HEADS



(1) 256 124

						Product			Palet	tt
Features	Ref	EAN code	Unit	Unit weight (g)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)
CANYON head Black *Products available while supplies last!	(1) 256 124	3414432561249	50	4,2	350	550 x 400 x 420	1,5	4	5	1200 x 800 x 1830

VELA

- Spray head that is rounded and ergonomic (3 fingers)
- Wide chemical compatibility, possibility of using aggressive products
- Comes with a «foam» nozzle according to the model



>		7			7
7	7	7	7		7
(2)	(3)	(4)	(5)	(6)	(7)

						Product			Pale	ett
Features	Ref	EAN Code	Unit	Unit weight (g)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)
VELA head White/Red	(2) 481 966	3414434819669	50	3,6	500	580 x 410 x 570	1,8	3	4	1200 x 800 x 1860
VELA head White/Green	(3) 481 967	3414434819676	50	3,6	500	580 x 410 x 570	1,8	3	4	1200 x 800 x 1860
VELA head White/Yellow	(4) 481 970	3414434819700	50	3,6	500	580 x 410 x 570	1,8	3	4	1200 x 800 x 1860
VELA head White/Blue	(5) 481 968	3414434819683	50	3,6	500	580 x 410 x 570	1,8	4	4	1200 x 800 x 2430
VELA headBlue/Blue	(6) 480 098	3414434800988	50	3,4	500	580 x 410 x 570	1,7	3	4	1200 x 800 x 1860
VELA head White/Red FOAM	(7) 482 615	3414434826155	50	3,8	500	580 x 410 x 570	1,9	2	5	1200 x 800 x 1290

VERSATILE PUMP SPRAY HEADS

MAXI

- Ergonomic spray head with 3-finger position
- Equipped with nitrile or Viton seals according to the model





(8) 400 095

95 (9) 200 460

						Product			Palett		
Features	Ref	EAN Code	Unit	Unit weight (g)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH (mm)	
MAXI head White/Blue Products available while supplies last!	(8) 400 095	3414434000951	50	4,0	500	580 x 410 x 560	2,0	4	4	1200 x 800 x 2390	
MAXI head White/White VITON	(9) 200 460	3414432004609	50	4,2	500	580 x 410 x 560	2,1	1	1	1200 x 800 x 710	

HYGIENE 360°

- Ergonomic spray head with 3-finger position
- 360° system







 $(10)\, 483\, 403 \quad (11)\, 483\, 404 \quad (12)\, 483\, 405 \quad (13)\, 483\, 406$

						Product			Palett			
Features	Ref	EAN Code	Unit	Unit weight (g)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)		
HYGIENE head White/Blue	(10) 483 403	3414434834037	150	4,4	150	450 x 400 x 270	0,7	1	36	1200 x 800 x 420		
HYGIENE head White/Green	(11) 483 404	3414434834044	150	4,4	150	450 x 400 x 270	0,7	1	36	1200 x 800 x 420		
HYGIENE head White/Yellow	(12) 483 405	3414434834051	150	4,4	150	450 x 400 x 270	0,7	1	36	1200 x 800 x 420		
HYGIENE head White/Red	(13) 483 406	3414434834068	150	4,4	150	450 x 400 x 270	0,7	1	36	1200 x 800 x 420		

TYPE OF SEALS, LENGTH OF DIP TUBE AND FLOW RATES ACCORDING TO THE TRIGGER HEAD MODELS

Seal			Nitrile			Viton
	CANYON	VELA VELA MAXI			HYGIENE 360°	MAXI
Ref	(1) 256 124	(2) 481 966 (3) 481 967 (4) 481 970 (5) 481 968 (6) 480 098	(7) 482 615	(8) 400 095	(10) 483 403 (11) 483 404 (12) 483 405 (13) 483 406	(9) 200 460
Dose	1 ml/pression	1,2 ml/p	ression	2 ml / pression	1,2ml/pression	2 ml / pression
Longeur tube plongeur	240 mm	205 mm (6) 480 098 : 230 mm	230 mm	210 mm	260 mm	210 mm

BOTTLES

- Polyethylene bottles (12 399: polypropylene).
 Graduated translucent body (ml)
 Can take a range of multi-functional heads
 Bottle cap (white) compatible with all LASER sprayers





Code	12 338	411 581	281 972	219 616
Thickness	0,65 mm	1 mm	0,8 mm	0,8 mm
Weight	38 g	54 g	55 g	64 g

			COM	PATIBILITY H	EADS/BOT	ΓLES
PRODUCT	couleurs	Litres Réf.	0,45 l 12 338	0,60 l 411 581	0,70 l 281 972	1 l 219 616
CANYON head		(1) 256 124				X
	•0	(2) 481 966	X	X	X	
		(3) 481 967	X	X	X	
	00	(4) 481 970	X	X	X	
VELA head	00	(5) 481 968	X	X	X	
		(6) 480 098				X
	•0	(7) 482 615				X
MAXI head	00	(8) 400 095	X	X	X	
MAATHEau	00	(9) 200 460	X	X	X	
	00	(10) 483 403				X
HYGIÈNE head		(11) 483 404				X
360°	00	(12) 483 405				X
	•0	(13) 483 406				X
Сар	0	764 350	X	X	X	X

						Product		Palett			
Features						Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
0,5L bottle	12 338	3414430123388	50	38	288	800 x 600 x 540	1,4	4	2	1200 x 800 x 2310	
0,6L bottle	411 581	3414434115815	50	54	280	800 x 600 x 740	1,9	3	2	1200 x 800 x 2370	
0,75L bottle	281 972	3414432819721	50	55	160	800 x 600 x 530	1,0	4	2	1200 x 800 x 2270	
1L bottle	219 616 3414432196168 50 64		64	131	800 x 600 x 550	0,8	4	2	1200 x 800 x 2350		
Сар	764 350	3414437643506	50	0,3	300	370 x300 x 200	0,1	1	1	1200 x 800 x 150	

F1 VITON

- Translucent polyethylene bottle (0.6 liters)MAXI head

- Adjustable nozzle with shut-off
 For the application of hydrocarbon-based solvents, insecticides and paint strippers.
 Viton piston
 Graduated scale



101 055





							Product		Palett			
Featu	res	Ref	EAN Code	Unit	Unit weight (g)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
F1 Vit	on	101 055	3414431010557	50	100	50	600 x 410 x 410	5,0	3	4	1200 x 800 x 1380	



JOINTS

VITON **SEALS**











COMPRESSION SPRAYERS

ITON SEALS RANGE



Laser 2 Viton

For the application of neutral or weak acidic paint strippers, rodenticides, disinfectants and detarring solvents and products for treating wood and roof timbers.

- Translucide and graduated tank. Total capacity: 2L. Usable capacity: 1,5L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod
- Bloquable handle for a continuous spraying
- Anti-theft nozzle
- Tank with large opening for easy filling and emptying
- Ribs at the bottom for an easy opening and closing
- 3 bar pressure release valve

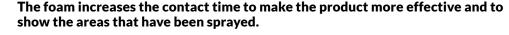


8056

						Product		Palett			
Features	Ref	EAN Code	Code Unit Unit weight (kg)		Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
Laser 2 Viton	8056	3414430080568	6	0,6	6	400 x 320 x 295	3,60	6	8	1200 x 800 x 1920	







- Translucide and graduated tank. Total capacity: 2L. Usable capacity: 1,5L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod
- Bloquable handle for a continuous spraying
- Anti-theft nozzle
- 110° fan jet nozzle
- Tank with large opening for easy filling and emptying
- Ribs at the bottom for an easy opening and closing
- 3 bar pressure release valve



8066

Product Palett Dimensions Dimensions Features EAN Code Unit Unit weight (kg) Weight (kg) Nb layer Nb boxes / layer Nb units LxPxH(mm) LxPxH(mm) 3414430080667 Laser 2 Foam Viton 0,6 410 x 320 x 300 1200 x 800 x 1920 8066 6 6



• Capacity: 5L

• Lance handle with built-in filter

Exel 7 Viton Construction

construction and building industry.

• Polyethylene translucent graduated tank

For the application of solvent-based oils for

- Pump and lance handle with Viton seals
- 40cm composit lance
- 1 fan jet nozzle
- 3 bar pressure release valve
- Large pump handle and lance holder

						Product			Palett	
Features	Ref EAN Code Unit Unit weight (kg		Unit weight (kg)	Nb units	Nb units Dimensions LxPxH (mm) Weight (kg)		Nb layer	Dimensions L x P x H (mm)		
Exel 7 Construction	8034	3414430080346	12	14,6	12	250x 200 x 510	1,15	3	2	800 x 1200 x 1020









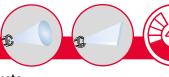








Exel 7 Viton / Exel 10 Viton



Application of solvent-based products

- Capacity (Exel 7 / Exel 10): 5L / 8L
- Non-locking lance handle, according to European standard, with built-in filter, equipped with Viton seals
- Polyethylene translucent graduated tank
- Pump fitted with Viton seals
- 30cm aluminium lance
- Adjustable jet nozzle from straight jet to mist jet
- 3 bar pressure release valve
- Adjustable straps
- Large pumping handle for a better grip and allowing the lancing of the lance
- Large top hole for easy filling and emptying
- Total dump because no retention area
- Supporting pommel: hold for pressurizing, emptying and filling
- Translucent and graduated tank for easy measurement

						Product		Palett			
Features	Ref EAN Code Unit Unit weight (kg				Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
Exel 7 Viton	8057	3414430080575	12	15,2	12	800 x 600 x 530	1,26	3	2	800 x 1200 x 1590	
Exel 10 Viton	8058	3414430080582	8	13	8	800×410×720	1,56	3	2	800 x 1200 x 2160	



Laser 7 Viton / Laser 12 Viton





For the application of retarders and dilute acids. Compatibility table supplied with the sprayer.

- Capacity (Laser 7 / Laser 12): 5 liters /8 liters
- Special acid-resistant polypropylene lance handle with Viton seal
- Nozzle holder and adjustable 1.5/1.0 nozzle with Viton seal
- Equiped with a flat fan nozzle
- Pump and 3 bar pressure release valve with Viton seal
- Polyethylene translucent graduated tank
- Armed, flexible and translucent hose
- Large straps with easy fixing
- Wide opening for easy filling and complete emptying (no liquid traps)
- Handle: for holding the tank while pumping, emptying and filling
- Translucent, graduated tank for precise measurement
- 40cm composite lance

					Product		Palett				
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)		
LASER 7 Viton	8038	3414430080384	1	1	200 x 200 x 520	1,8	3	24	1200 x 800 x 1740		
LASER 12 Viton	8040	3414430080407	1	1	200 x 200 x 690	2,4	2	24	1200 x 800 x 1550		



JOINTS **VITON**

SEALS











PREMIUM VITON SEALS RANGE



101 180 101 181

Expert 8 Viton / Expert 14 Viton



For the application of concrete form oils, impermeable façade coatings, chemicals for treating wood and roof timbers, solvent strippers, rodenticides, insecticides, detarring solvents, neutral based moss prevention products.

- 40 cm brass lance tube
- Polypropylene lance handle with Viton seal
- Adjustable polypropylene nozzle holder with Viton seal with red acetal nozzle (code 282476)
- 3 bar brass pressure release valve with Viton seal
- Polyethylene translucent graduated tank
- High-resistance hose
- Adjustable and large straps
- Integral off-centre pump (no need to remove it for filling and emptying)
- Ergonomically designed pumping grip
- Wide top opening for easy filling and emptying
- Total emptying (no liquid traps)
- Carry handle for holding the sprayer during use
- Doser cap for precise, easy measurement
- Lance clip









					Product		Palett				
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)		
EXPERT 8 VITON	101 180	3414431011806	1	1	250 x 200 x 500	2,2	4	19	1200 x 800 x 2150		
EXPERT 14 VITON	101 181	3414431011813	1	1	250 x 200 x 690	2,9	3	19	1200 x 800 x 2250		















101489

For the application of concrete form oils, impermeable façade coatings, chemicals for treating wood and roof timbers, solvent strippers, detarring solvents, etc..

- Supplied with additional nozzles: brass fan jet nozzle with 110° angle and stainless
- Brass pressure release valve, with Viton seals calibrated at 6 bar
- Pressed steel tank with a single weld at the base of the tank, total emptying without liquid traps, black cataphoric epoxy coating
- Reinforced hose. Connector at the top of the tank
- Brass lance handle with Viton seals
- Fixed off-centred pump integral with the tank (no longer necessary to remove it in order to fill and empty the tank)
- Wide filling orifice located on top of the tank with elliptical shaped stainless steel cover
- Multi-use side handle also acting as a protective hoop for accessories located on top of the tank
- Compatible with compressor for a quick pressurization









					Product		Palett				
Features	Ref	EAN Code	Unit	Nb unit	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)		
Laser 19 CMP	101 489	3414431014890	1	1	220 x 220 x 490	5,1	3	15	1200 x 800 x 1560		

Expert vacuum - Liquid suction

For sucking up liquids: clean water, dirty water, oil, hydrocarbon-based solvents, etc

- Capacity: 6 liters
- 1 m transparent polyethylene hose
- 1.5 m high performance hose
- 1/4 turn valve with 3/8» BSP connector





102 129

					Product			Palett			
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH(mm)		
EXPERT VACUUM	102 129	3414431021294	1	1	240 x 200 x 510	2,1	4	19	1200 x 800 x 1950		



JOINTS

EPDM SEALS













EPDM SEALS RANGE



8059

Laser 2 EPDM



For the application of neutral and alkaline cleaners, disinfectants, car shampoos, fungicides and animal repellents.

- Translucide and graduated tank. Total capacity: 2L. Usable capacity: 1,5L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod
- Bloquable handle for a continuous spraying
- Anti-theft nozzle
- Tank with large opening for easy filling and emptying
- Ribs at the bottom for an easy opening and closing
- 3 bar pressure release valve

						Product			Palett				
Features	Ref	EAN Code	Unit	Unit weight (kg)	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)			
Laser 2 EPDM	8059	3414430080599	6	1.5	6	400 x 320 x 295	9	6	8	1200 x 800 x 1920			

3414430080599 6 1,5 400 x 320 x 295



8065



For neutral and alkaline cleaners and disinfectants. The foam increases the contact time to make the product more effective and to show the areas that have been sprayed.

- •Translucide and graduated tank. Total capacity: 2L. Usable capacity: 1,5L
- Ergonomic knob for an easy pressurizing
- Pump with metal rod

Laser 2 Foam EPDM

- Bloquable handle for a continuous spraying
- Anti-theft nozzle
- 110° fan jet nozzle
- Tank with large opening for easy filling and emptying
- Ribs at the bottom for an easy opening and closing
- 3 bar pressure release valve

						Product			Palett		
Features	Ref	EAN Code	Unit	Unit weight (kg)	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
Laser 2 Foam EPDM	8065	3414430080650	6	0,6	6	410 x 320 x 300	3,6	6	6	1200 x 800 x 1920	

















Laser 12 Foam EPDM

For applying alkaline foam and detergent products, etc..
The foam increases the contact time to make the product more effective and to show the areas that have been sprayed. The fan jet nozzle is used to spray larger areas.

- Capacity: 8 liters
- Heavy duty lance handle
- Polypropylene lance
- Stainless steel fan jet nozzle with EPDM seal
- Pump and 3 bar pressure release valve with EPDM seal

8053

					Product		Palett			
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH (mm)	
Laser 12 Foam EPDM	8053	3414431080536	1	1	200 x 200 x 690	2,5	2	24	1200 x 800 x 1550	



Expert 8 EPDM



For the application of cleaning products, car shampoos, disinfectants, alkalis, fungicides, weed killers, animal repellent

- Capacity: 6 liters
- Polypropylene lance handle with EPDM seals
- 40 cm brass lance tube
- Adjustable polypropylene nozzle holder with EPDM seals and NOZAL blue sintered alumina, fan jet nozzle
- Supplied with additional nozzles:
 - Orange fan jet nozzle (282 793)
 - Stainless steel cone jet (251 183) 1.2 mm
- 3 bar pressure release valve with EPDM seal

101 173

.011/0					Product			Palett	
Features	Ref	EAN Code	Unit	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH (mm)
EXPERT 8 EPDM	101 173	3414431011738	1	1	240 x 200 x 510	2,2	4	19	1200 x 800 x 2080



_

- Expert 8 EPDM & Expert 14 EPDM Steel lance



For the application of bleach, paint strippers, disinfectants, etc..

- Capacity: 6L/8L
- Polypropylene lance handle with EPDM seals
- 60 cm stainless steel lance tube
- Adjustable polypropylene nozzle holder with EPDM seals and NOZAL blue sintered alumina, fan jet nozzle
- Supplied with additional nozzle: stainless steel cone jet (251 183) and 10/10° nozzle
- 3 bar pressure release valve with EPDM seal
- PVC reinforced hose (Hytrel interior)

101 177 101 178

					Product		Palett			
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH(mm)	
EXPERT 8 EPDM steel lance	101 177	3414431011776	1	1	250 x 200 x 590	2,42	3	19	1200 x 800 x 1770	
EXPERT 14 EPDM steel lance	101 178	3414431011783	1	1	250 x 200 x 690	2,91	3	19	1200 x 800 x 2070	







NITRILE SEALS RANGE



JOINTS

SEALS



For all neutral solutions

- Capacity: 5L
- Non-locking lance handle, according to European standard, with built-in filter, equipped with Viton seals
- Polyethylene translucent graduated tank
- 30 cm polypropylene lance
- Adjustable jet nozzle from straight jet to mist jet
- 3 bar pressure release valve
- Adjustable straps
- Large pumping handle for a better grip and allowing the lancing of the lance
- Pump with nitrile «CUP» seal
- Large top hole for easy filling and emptying
- Total dump because no retention area
- Supporting pommel: hold for pressurizing, emptying and filling
- Translucent and graduated tank for easy measurement
- Product sold in a neutral cardboard box

			Product		Palett					
Features	Ref	EAN Code	Unit	Unit weight (kg)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH (mm)
Exel 7 Nitrile	7007	3283120070079	1	1,4	1	250 x 200 x 510	1,4	2	24	800 x 1200 x 1020













CONTINUOUS PUMP SPRAYERS

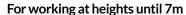


VITON



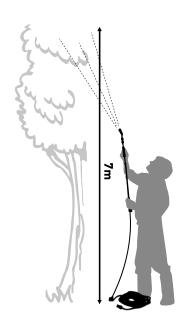
Seringa 10m







- «Double action» syringe sprayer operating in two directions
- 2 multi-purpose multi-directional nozzles (swirl and flat fan)
- 10 m hose
- High operating pressure (8-10 bars depending on the pumping rate)
- Can be connected to a sprayer hose to use the tank as a reservoir
- 60 cm lance extension to treat areas that are difficult to reach
- Viton® seal to withstand hydrocarbons and solvents
- Clip to prevent the hose coming out of the container
- Strainer to filter liquids to avoid clogging the nozzle





101 025

				Product		Palett				
Features	Ref	EAN Code	Unit	Weight (kg)	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)
Seringa	101 025	3176241010256	1	1,23	1	165 x 60 x 610	1,23	9	16	1200 x 800 x 1950











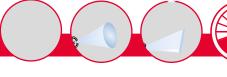






102 216

Cosmos 18 Pro Export







• 125 mm diameter filler opening

- Sloping tank base
- Carry handle
- Lance holder for easy storage
- More comfortable to use and the sprayer fits well on the back
- Translucent, graded 18 litre tank
- Manual pressure pump 6 bars
- Reversible left / right pump lever
- High performance hand pump with chemical resistant seals
- User friendly, heavy duty handle for precise spraying
- 60 cm composite lance
- Universal nozzle holder
- Repair kit integrated:









Brown mirror nozzle

Stainless Steel Bead

Spare seals











Vermorel 2000 PRO CONFORT











• Ergonomic back frame, which perfectly fits the shape of your back

• Reversible left/right pump lever, adjustable in all positions (for width and height - by notches of 10°)

- High-performance diaphragm pump with curved piston
- Pressure relief valve, adjustable from 0 to 5 Bar
- Professional 'PROFILE'-type lance handle
- Composite telescopic lance, 60 cm / 100 cm, with high mechanical and chemical resistance
- Multi-purpose adjustable nozzle holder
- Delivered with the following equipment: 1 multipurpose, adjustable nozzle holder equipped with original swirl nozzle with 15/10 plate, a blue flat fan nozzle and a blue anvil nozzle



						Product		Palett			
Features	Ref	EAN Code	Unit	Weight (kg)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions LxPxH (mm)	
Cosmos 18 Pro Export	102 216	3176241022167	1	3,70	1	400 x 170 x 505	1,23	4	14	1200 x 800 x 2170	
Vermorel 2000 Pro Confort	102 022	3176241020224	1	5,97	1	390 x 285 x 615	6,54	3	8	1200 x 800 x 1995	

















BERTHOUD

VERMOREL 3000 electric



Insecticides/fungicides, treatment of frameworks, cleaning products, disinfectants, water-repellents,formwork oils, weed killing

- Electric back sprayer, capacity 18L, provided with a 12-Volt **Lithium-Ion** battery
- Battery life from 3 to 6 hours depending on the pressure selected, charging in 2,5 hours, no deep discharge, 4 position charge indicator
- Equipped with a safety strap for optimum comfort, specially suited for intensive use
- \bullet Composite telescopic lance 0.50 m to 1 m and fibreglass lance 0.60m

- Electronic adjustment of the pressure: 3 positions (1, 1.5 and 3 bar)
- Comes with a full set of nozzles:
- nozzle with adjustable 15/10e turbulence
- blue fan jet nozzle
- brown mirror jet nozzle
- Provided with Viton seals, for excellent chemical and mechanical resistance over time
- Exists in trolley version, device mounted on wide wheels and 5m hose (Ref. 102 141)

					Product		Palett			
Features	Ref	EAN Code	Unit	Nb units	Dimensions LxPxH (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)	
V3000 electric BERTHOUD (UK 3 pin plug)	102 139	3176241021399	1	1	390×285×615	6,9	3	8	1200 x 800 x 1995	
V3000 electric chariot BERTHOUD (UE 2 pin plug)	102 141	3176241021412	1	1	390×285×615	10	3	8	1200 x 800 x 1995	







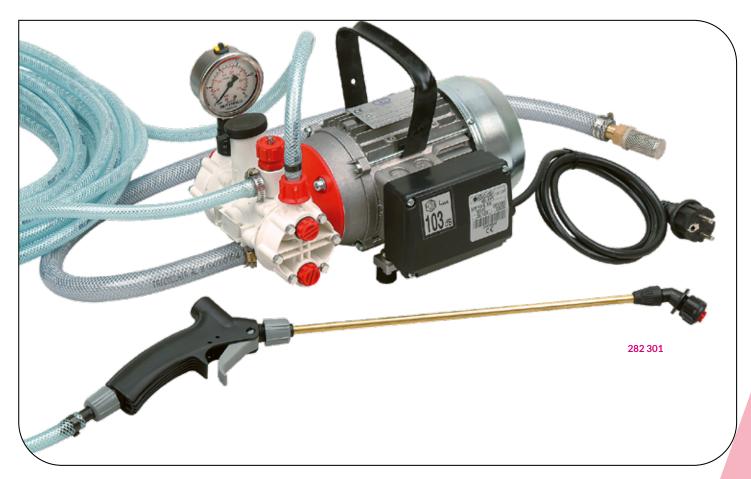












For pumping industrial liquids (moss prevention products, roof timber chemicals, concrete form oils, etc)

- 6 bar PANORAMA motorised pump (230 V electric motor mounted on silent blocks)
- PROFILE handle with Viton seals and 20 m reinforced PVC hose
- Brass lance tube
- Red and blue fan jet nozzles
- 2.5 m suction hose with 15 mm diameter filter
- 2.5 m pressure hose (diameter 12 mm)
- Stainless steel glycerine-damped pressure gauge



48 590

					Carto		Palette			
Features	Ref	EAN Code	Unit	Unit weight (kg)	Nb units	Dimensions L x P x H (mm)	Weight (kg)	Nb layer	Nb boxes / layer	Dimensions L x P x H (mm)
Groupe Moto-pompe 220 V	282301	3414432823019	1	14,5	1	600 x 310 x 320	14,5	2	5	1200 x 800 x 790

TRIGGERS

Turbulence chamber and universal nozzles

Nozzles available as spare parts

Adjustable nozzles with stainless steel tips

A range of 7 stainless steel tips with different diameters to provide users with a range of flow rates. Each nozzle produces an adjustable cone jet so that the jet can be adjusted to the area to be sprayed and the distance from the target.



				Flow	rate (literss/m	inute)		
Tip	diameter	8/10	10/10°	12/10°	15/10	18/10 ^e	20/10°	25/10°
Colour of	tip holder nut	•	•	0	•	•	0	0
	1 bar	0,185	0,235	0,275	0,395	0,470	0,515	0,680
Pressure	2 bar	0,245	0,300	0,385	0,535	0,660	0,780	0,980
riessure	3 bar	0,300	0,360	0,470	0,660	0,795	0,870	0,155
	4 bar	0,340	0,425	0,545	0,750	0,905	1,000	1,435
Nitril	e tip code	282 369	282 370	282 371	282 372	282 373	282 374	282 375
Vitor	n tip code	282 759		282 807	282 723	282 724		282 786
Viton r	nozzle code			282 434	282 532			
EPDM	nozzle code			212 435				

Adjustable nozzle with Saphirex tip

Micronisor nozzles made of sintered alumina, an exceptional hard material (nearly as hard as diamond) for long-term stability of the nozzle flow rate, distribution and droplet size.

	Pressure	Droplet size (microns)
Saphirex 6/10 tip	2 bar	80/90
3apı III ex 6/ 10 tip	3 bar	60/65
Diffuser 10/10	2 bar	130/135
Diffuser 10/10	3 bar	115/120
Diffuser 15/10	2 bar	170/180
Dilluser 15/10	3 bar	140/160

		Flow rate (literss /minute)					
Di	ameter	6/10°	10/10°	10/10°			
	2 bar	0,140	0,225	0,560			
	3 bar	0,160	0,270	0,670			
Pressure	4 bar	0,180	0,310	0,760			
	5 bar	0,200	0,350	0,840			
	6 bar	0,220	0,385	0,900			
Nozzle code		251 586		282 715			

Fan jet nozzles

Fan jet nozzles for medium width spray

These nozzles are made from a variety of materials: polypropylene, acetal or sintered alumina in different colours and with different angles to show their particular flow rates in l/min.



		Flow rate (literss / minute)								
Material of nozzle		Acetal				Brass	Sintered	alumina	Polypropylene	
Jet angle		80°	80°	110°	80°	80°	110°	110°	110°	110°
Colour of nozzle		0	•	•	0	•	•	•	•	•
Pressure	1 bar	0,560	0,840	1,120	0,400	0,360		0,700	0,910	1,030
	1,5 bar						1,200	0,880	1,100	1,150
	2 bar	0,650	0,970	1,290	0,560	0,500	1,360	0.970	1,290	1,430
	2,5 bar	0,720	1,080	1,440	0,620	0,560	1,515	1,080	1,440	1,590
	3 bar	0,790	1,180	1,580	0,680	0,600	1,645	1,180	1,580	1,750
Nitrile tip code		282 461	282 458	282 462	282 488	282 489				
Viton tip code		282 682	282 533	282 476	282 731	283 340		282 631	282 845	282 635
EPDM tip code										282 636
Viton nozzle code			282 474	282 686			283 106			
EPDM nozzle code								282 708		
Width sprayed at 0.5 m		84 cm	84 cm	143 cm	84 cm	84 cm		143 cm	143 cm	143 cm
Width sprayed at 1 m		168 cm	168 cm	286 cm	168 cm	168 cm		286 cm	286 cm	286 cm

NOZZLES

Deflector nozzle

With mirror stream for large-width application

Nozzles made of different materials: polypropylene, acetal resin, sintered alumina with different colours and angles to symbolise their specific flow rates in I/min.

		Pressure					
Material of	nozzle	Acetal					
Jet angle		105°	110°	110°	135°		
Colour of nozzle		0		0	0		
	1 bar	0.460	1.150	1.390	2.310		
Pressure	1.5 bar	0.570	1.410	1.700	2.830		
11033010	2 bar	0.650	1.630	1.960	3.270		
	2.5 bar	0.730	1.830	2.190	3.650		
Nitrile tip code		282 460	282 457	282 490	282 491		
Viton tip code			282 683	282 849	282 850		
Nitrile nozzle code			282 366				
Width sprayed at 0.5 m		130 cm	143 cm	143 cm	241 cm		
Width sprayed at 1 m		260 cm	286 cm	286 cm	482 cm		



TRIGGERS

Profile trigger (Viton / Viton for acids / EPDM)

- + Comfortable to use (the angle between wrist and lance gives a natural wrist position)
- + Reliable (the spray is controlled by a needle valve at right angles to the flow of liquid)
- + Very easy to maintain (the spring and piston are easy to dismantle)



Shell handle

- + Comfortable to use
- + Very easy to maintain
- + Integrated filter



Brass trigger

- + Brass handle with Viton seals for hydrocarbon based solvents.
- **+** Used with special brass lance tube. ref. 382283*



^{*}Spare parts references available under the commercial conditions of spare parts

PRESSURE REGULATOR

No-drip 1 bar pressure regulator



- 1 bar constant pressure (preventing underspraying and overspraying)
- Can save up to 50% on chemicals
- Used with pre-pressurised sprayers, will extend acreage covered
- Used with pressure sprayers, will reduce the number of pump strokes required
- Can be used with all commercially available professional nozzle tips



283 983



LANCE TUBES

Telescopic lance tube

- 0.5/1 m lance tube
- Adjustable nozzle
- Viton seals



280 362

Brass lance tube

- 0,4 m lance tube
- Viton seals
- Compatible with Brass handle ref. 282733

382 283*

FULL LANCES

- To suit profile trigger
- Tube, nozzle holder and nozzle included



	Ref	Tube	Handle	Compatibility	Lenght		
Full lances	283 208	Composite	Profile « spécial for acids »	Laser 7/12	0,4m		
Telescopic	280 464	Composito	Profile Viton	Laser 7/12	1,3m - 2,4m		
fulllances	202.622	Composite	Profile vitori	Eynert 8/14 Viton	12m 24m		

^{*}Spare parts references available under the commercial conditions of spare parts

LANCE EXTENSIONS

Composite lance extension

• Length: 0,6 m

282 433*

Brass lance extension

• Length: 0,6 m



211 250*

WEED KILLING

4 jet weed killing spray bar

+ Converts the single jet sprayer into a multi-jet sprayer

+ Essential for spraying large areas rapidly. Recommended for use with constant pressure backpack sprayers.



Spray shield

+ Essential for localised weed killing or spraying easily and safely (fan jet nozzle)





^{*}Spare parts references available under the commercial conditions of spare parts

MAINTENANCE

Grease syringue

- Indispensable for maintening the seals in your sprayer
- Easy to use
- Prolong the life of your sprayer by using the correct grease





MAINTENANCE KITS

+ All sprayer wear parts are available in repair kits



Sprayer	Reference
Laser 2	284 282*
Laser 2 EPDM	284 283*
Laser 7/12	283 144*
Expert 8/14 Viton	282 572*
Expert 8/14 EPDM	282 571*
Exel range	282 869*

Sprayer	Reference
i9 CMP	252 213*
Cosmos 18 Pro Export	283 475*
Seringa 10m	283 117*

^{*}Spare parts references available under the commercial conditions of spare parts

NOTES



HOZELOCK-EXEL

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