

the team to trust

catalog

accessories - spare parts







9030 1965



A35262-D

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Général









Security



Before starting work, please read these instructions and the materials safety data sheet (MSDS) for the consumables used.

Disconnect the printer from the electrical source before opening it or changing any of its components.

Liability

Markem-Imaje shall not be held responsible if the safety instructions are not followed, nor more generally if elementary safety rules are not applied when using and servicing Markem-Imaje equipment.

This equipment is certified to comply with the department of labour regulations in force on the date of manufacture.

Any consequences of modifications or repairs shall be the sole responsibility of the person carrying them out.

The same applies to use not complying with Markem-Imaje specifications.

All Markem-Imaje printers have safety labels that meet the safety standards governing printer use compliant with Markem-Imaje recommendations.

Any modification carried out may be counter to printer compliance and the relevant safety standards.

Therefore, Markem-Imaje cannot be held liable for any malfunction or damage caused by any modification of the use recommended by Markem-Imaje or for any incident arising from use of the printer for any purposes other than those for which it is designed. It is the sole responsibility of the user to take the precautions required by any use to which he or she puts the printer.

Health / Hygiene

Please read the safety data sheet (MSDS) for the consumables used.

For certain consumables:

- □ Wearing contact lenses when handling these consumables is strictly prohibited.
- □ Ink-resistant gloves and safety goggles are recommended during filling and cleaning operations.

Max. noise level < 60 dB A.

Fire prevention

It is essential to comply with the instructions on the safety data sheet (MSDS) for the consumables used.

For continued protection against possible fire, use only the following ink/solvent mixture: KETONE / ALCOHOL / WATER / ESTER.

If your printer uses flammable ink or make-up:

- □ Never leave containers containing ink, make-up or cleaning products, or ink-soaked rags (even dry) near the printer.
- □ Install a foam, CO2 or powder extinguisher immediately adjacent to the printer (maximum 10 meters).
- □ Never smoke near the printer. Affix a sign "NO SMOKING, FLAMMABLE INK" near the printer.
- □ Ensure that the printer is kept particularly clean, as dried ink deposits remain highly flammable.
- □ Drums of ink, make-up and cleaning solution must be closed and stored in a ventilated room.





Environment

Operating temperature: On S7 and S8 lines: +5°C to +45°C (+41°F to +113°F) On 9020-9030 printers: +5°C to +40°C (+41°F to +104°F).

Humidity: 0 - 90% RH with no condensation. The use of certain inks may limit the temperature and humidity ranges (see the ink specification sheet).

The printer must not be used in explosive atmospheres.

Installation

The printer must be installed in a ventilated location, away from any source of heat, flames or sparks.

The printer and the print heads must be secured firmly in place with fastening devices.

The printer installation on the production line must not generate any risks for staff.

The operator's work station faces the printer.

The printer must be connected to a single phase mains electricity network with earth ground, using the cable supplied with the printer. The standard plug on this cable must be easily accessible.

The electrical and pneumatic installations upline of the printer must comply with applicable regulations. Machine electrical specifications: refer to the specification plate located near the power receptacle (S7 and S8 lines) or inside the door near the consumables (9020-9030 printers).

When the printer or a part thereof is attached to a stand, the stand must be connected to earth ground.

Earth ground all conducting parts not at a voltage reference and which are related to or close to the printer (metal frames, protective guards, etc.).

For information on fastening a Markem-Imaje accessory, refer to the assembly instructions delivered with it.

Use

The printer is designed for contact-free printing by projecting ink. Any other use of the printer is prohibited, and any consequences shall be under the entire responsibility of the user.

Consumables (inks, make-ups, cleaning products, servicing products) not produced by Markem-Imaje must not be used, and any consequences shall be under the entire responsibility of the user.

Other types of Markem-Imaje consumables should not be used without Markem-Imaje's prior approval, and any consequences shall be under the entire responsibility of the user.

Handling

When the printer contains consumables, it should not be tilted and should only be moved vertically.

Totally drain the printer before moving it to a non-vertical position.

Servicing

Disconnect the printer from the mains before any operations requiring components to be removed or exchanged.

Use appropriate tools for any work on the electrical and hydraulic circuits.

After each maintenance operation, the waste recepticles used should be emptied and cleaned. Do not leave rags soaked with consumables near the printer.

We recommend that repairs be carried out only by staff who have received technical training from Markem-Imaje.





■ Recycling



The equipment described below is industrial equipment.

For this reason it cannot be recycled or recovered in household waste sites but in specialized sites as indicated by the logo below:

The sites mentioned above allow for having a non-exhaustive view of the recycling of the machine at the end of its life. They are given by way of indication.

When dismantling cannot be carried out on site, this instandardion should be passed on to the provider responsible for this operation.

For further information, do not hesitate to contact your Markem-Imaje representative.

Recycled parts	Site
1	Stainless steel cabinet. 100 % recyclable material at any metal site.
2	Consumables containers and ink circuit.
	This assembly is made up of plastic, metal, impregnated composite materials or materials containing ink.
	Recommended site: □ energy recovery
3	Conduit and print head.
	Recommended site:
	□ energy recovery,□ recovery of electrical material,
	□ recovery of metals.
	ATTENTION: Presence of an electronic board (Cf. 4).
4	Electronic boards, display and electric cables Recommended site:
	□ recovery and processing of electronic waste (computers, television, etc.)

The accumulators and batteries present in the equipment contain no mercury, lead, cadmium or chromium VI. Once used, they should be treated at specialized sites.





■ How to use this catalog

Part Exchange Program

Replacement parts are available under the Markem-Imaje Part Exchange Program.

These are reconditioned parts, all worn or damaged parts have been replaced.

These parts are identified in the catalog by a specific reference prefix ENR, e.g.:

	Part number
New Part	ENM35336
Replacement Part	ENR35336

Replacement parts are available under the following conditions:

- a reconditioned part contains recycled components,
- the defective original part is returned to Markem-Imaje and becomes the property of Markem-Imaje,
- the defective original part has not been modified or damaged and no component has been removed,
- proper use has been made of the defective original part and the maintenance instructions have been complied with,
- cleaning and draining procedures for the defective original part have been followed.

How to order

Orders may be sent by mail, fax or telephone. Written confirmation is required in the case of telephone orders.

To order parts, contact the Markem-Imaje representative.

The following information should be shown on orders for replacement parts or accessories:

- part reference number,
- description,
- quantity required,
- required delivery date,
- delivery instructions,
- purchase order number.





Documentation







Documentation



Cdrom

This CD-ROM includes the entire range of documentation for 9020 and 9030 printers in PDF format, i.e. User manual, Quick guide, Spare parts catalog, Manual for serial and parallel interfaces, Instructions for accessories and space floor plans in DXF format.

Part number	Description
A35276	Cdrom – All languages

Instructions Manual

The Instructions Manual complies with European Directive 98/37/EC, and is translated into all EU languages, as well as into Japanese, Chinese and Taiwanese.

Reference	Designation	
A19919	Instructions Manual	

User manual

This manual describes all user functions, technical characteristics and preventive maintenance for 9020 and 9030 printers.

Part number	Description
A35250	User manual - French
A35251	User manual - English
A35252	User manual - Spanish
A35253	User manual - German
A35254	User manual - Italian
A35255	User manual - Portuguese
A35256	User manual - Dutch
A35257	User manual - Brazilian
A35258	User manual - Chinese
A35259	User manual - Japanese
A35260	User manual - Korean

Quick guide

This document provides a quick reference describing the basic functions of 9020 and 9030 printers.

Part number	Description
A35231	Quick Guide - French
A35232	Quick Guide - English
A35233	Quick Guide - Spanish
A35234	Quick Guide - German
A35235	Quick Guide - Italian
A35236	Quick Guide - Portuguese
A35237	Quick Guide - Finnish



Documentation



A35238 Quick Guide - Dutch A35239 Quick Guide - Swedish A35240 Quick Guide - Danish A35241 Quick Guide - Greek A35242 Quick Guide - Russian A35243 Quick Guide - Hungarian A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Norwegian A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35260 Quick Guide - Hebrew A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Talwanese A35271 Quick Guide - Thai A35272 Quick Guide - Thai A35273 Quick Guide - Indonesian A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish A35276 Quick Guide - Turkish		
A35240 Quick Guide - Danish A35241 Quick Guide - Greek A35242 Quick Guide - Russian A35243 Quick Guide - Hungarian A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Hebrew A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35238	Quick Guide - Dutch
A35241 Quick Guide - Greek A35242 Quick Guide - Russian A35243 Quick Guide - Hungarian A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35260 Quick Guide - Arabic A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35239	Quick Guide - Swedish
A35242 Quick Guide - Russian A35243 Quick Guide - Hungarian A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Arabic A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35240	Quick Guide - Danish
A35243 Quick Guide - Hungarian A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Hebrew A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35241	Quick Guide - Greek
A35244 Quick Guide - Polish A35245 Quick Guide - Slovenian A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Hebrew A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35242	Quick Guide - Russian
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A35246 Quick Guide - Czech A35247 Quick Guide - Norwegian A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Arabic A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35244	Quick Guide - Polish
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A35248 Quick Guide - Croatian A35249 Quick Guide - Bulgarian A35266 Quick Guide - Arabic A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35246	Quick Guide - Czech
A35249 Quick Guide - Bulgarian A35266 Quick Guide - Arabic A35267 Quick Guide - Hebrew A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35247	Quick Guide - Norwegian
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A35268 Quick Guide - Farsi A35269 Quick Guide - Chinese A35270 Quick Guide - Taiwanese A35271 Quick Guide - Korean A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35266	Quick Guide - Arabic
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A35272 Quick Guide - Thai A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35270	Quick Guide - Taiwanese
A35273 Quick Guide - Vietnamese A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35271	Quick Guide - Korean
A35274 Quick Guide - Indonesian A35275 Quick Guide - Turkish	A35272	Quick Guide - Thai
A35275 Quick Guide - Turkish	A35273	Quick Guide - Vietnamese
	A35274	Quick Guide - Indonesian
A35912 Quick Guide - Brazilian	A35275	Quick Guide - Turkish
	A35912	Quick Guide - Brazilian
A35913 Quick Guide - Japanese	A35913	Quick Guide - Japanese

Manual for serial and parallel interfaces

This manual describes the operation of the serial and parallel links (V24/RS232C and RS422) on 9020 and 9030 printers.

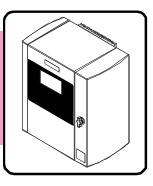
Part number	Description
A35264	Manual for serial and parallel interfaces - French
A35265	Manual for serial and parallel interfaces - English

Catalog: accessories, spare parts

This catalog includes all spare parts and accessories for 9020 and 9030 printers.

Part number	Description
A35261	Catalog - French
A35262	Catalog - English
A35263	Catalog - Spanish





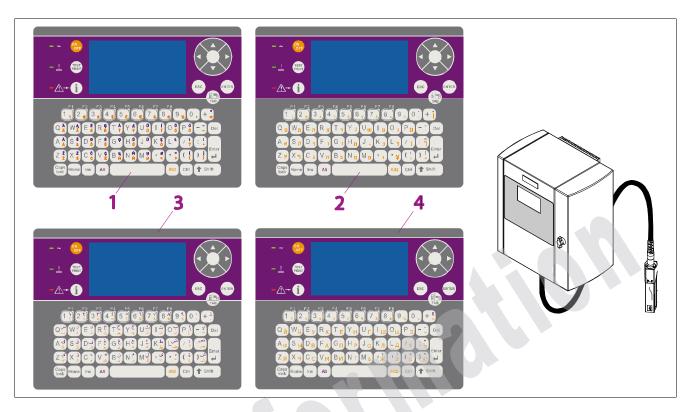
Man - machine interface





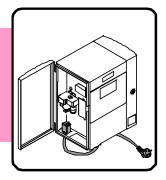






Item	Part number	Description
1	ENM28240	Keyboard - Latin
2	ENM35216	Keyboard - Hebrew
3	ENM35217	Keyboard - Arabic
4	ENM35218	Keyboard - Cyrillic





Power supply Electronic compartment

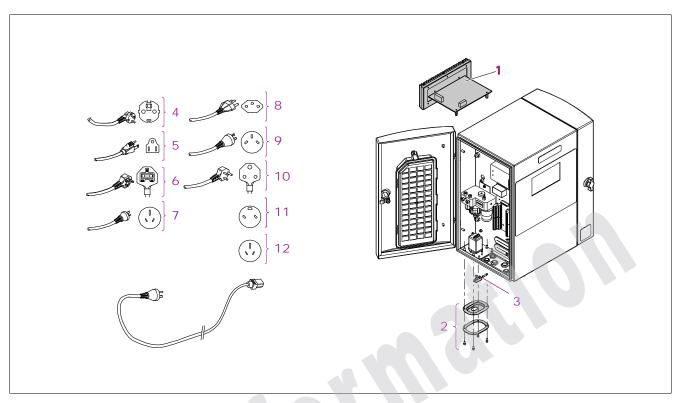






Power supply - Electronic compartment

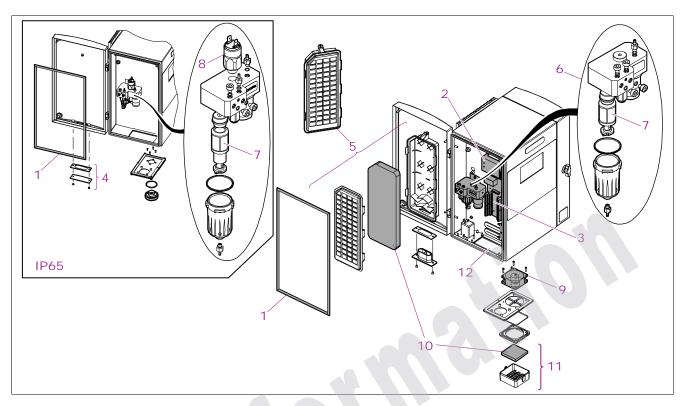




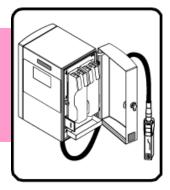
Item	Part number	Description
1	ENM36522	Board - power supply - 110 V / 220 V - with cables - with heatsink
2	ENM27331	Power cord protection kit
3	ENM5844	Fuse (x10) - 1,25A slow blow
4	A35319	Power cord - CEE standard
5	A35320	Power cord - US standard
6	A35321	Power cord - UK standard
7	A35322	Power cord - Oceanic standard
8	A35323	Power cord - Israeli standard
9	A35324	Power cord - Swiss standard
10	A35325	Power cord - India & South African standard
11	A35326	Power cord - Danish standard
12	A35327	Power cord - Chinese standard

Power supply - Electronic compartment





Item	Part number	Description	
1	ENM28949	Seal (x2) - doors	
2	ENM10298	EHT block	
3	ENM28247	Industrial interface board - without ethernet	
3	ENM35808	Industrial interface board - with ethernet	
4	ENM34956	Plate - tightness door - IP65	
5	ENM35334	Filter housing assembly - IP54	
6	ENM34801	Air treatment unit - with hose - IP54	
7	ENM16203	Filter cartridge - 0.1µm - with seal	
8	ENM16215	Pressure detection switch - IP65	
9	ENM28370	Wired fan	
10	A36022	Air filter kit - IP54	
11	ENM35212	Output filter housing	
12	ENM35952	Cable gland plate - without ethernet	
12	ENM35953	Cable gland plate - with ethernet and sub D25	







■ Precautions to be taken when ordering

Each ink circuit or print module uses a different type of ink.

It is highly inadvisable to change a printer's ink type.

When an ink circuit and a print module have been used with one type of ink, it is not advisable to use them with another type of ink.

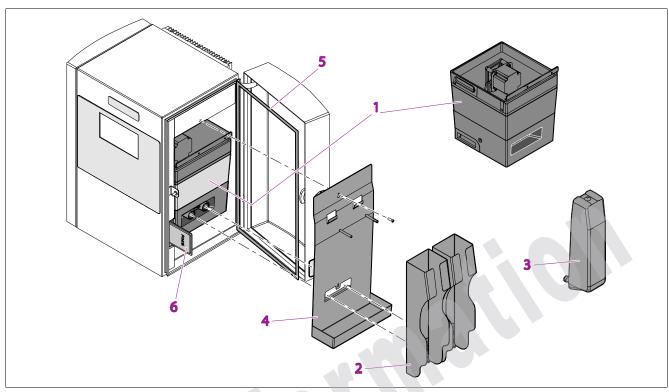
What ink circuit or print module should I order for the ink my printer uses?

The ink running specifications sheet indicate the reference of the ink circuit or the print module that you should order.

This sheet, SP xxxx (xxxx being the ink reference), is available from your Markem-Imaje representative.







For all the printers build after JULY 2006

Item	Part number	Description
1	ENM37251 (ENR35336)*	Ink circuit - IC60 - type E1
1	ENM37252 (ENR35337)*	Ink circuit - IC60 - type C2
1	ENM37253 (ENR35338)*	Ink circuit - IC60 - type C7

For all the printers build before JULY 2006

Item	Part number	Description	
1	ENR35336*	Ink circuit - IC60 - type E1	
1	ENR35337*	Ink circuit - IC60 - type C2	
1	ENR35338*	Ink circuit - IC60 - type C7	

For all the printers

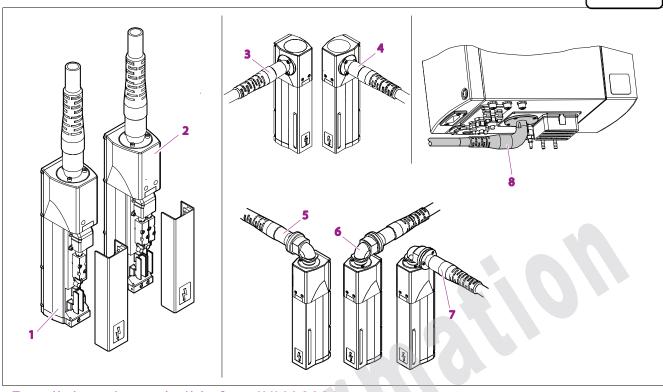
Rep.	Référence	Désignation	
2	ENM35289	Cartridge holder (x2)	
3	9002-4	Cartridge - empty - depressed	
4	ENM28975	Support plate - cartridge holder	
5	ENM28949	Seal (x2) - doors	
6	A27126	Board - PCMCIA - ATA (16MB)	

NOTE:

When ordering an ink circuit, please indicate the reference of the ink your printer uses. See ink running specifications sheet







For all the printers build after JULY 2006

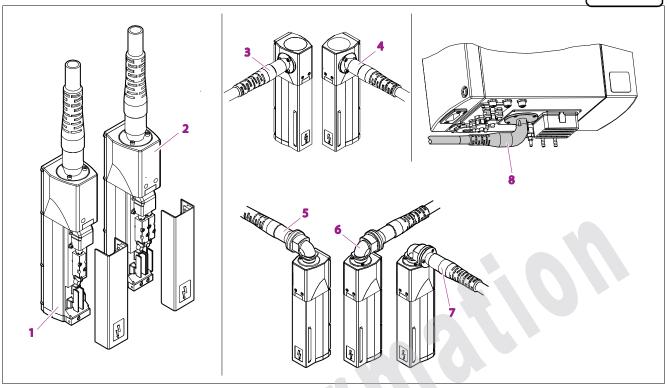
	Item	Part number	Description	
	1	ENM37198 (ENR37198)*	Print module - G head - single jet - S type	
1 ENM37199		ENM37199 (ENR37199)*	Print module - G head - single jet - T type	
	1	ENM37203 (ENR37203)	Print module - G head - single jet - W type	
	1	ENM37207 (ENR37207)*	Print module - M head - single jet - S type	
	1	ENM37208 (ENR37208)*	Print module - M head - single jet - T type	
	1	ENM37209 (ENR37209)*	Print module - M head - single jet - W type	
	2	ENM37204 (ENR37204)*	Print module - G head - twinjet - S type	
	2	ENM37205 (ENR37205)*	Print module - G head - twinjet - T type	
	2	ENM37206 (ENR37206)*	Print module - G head - twinjet - W type	
	2	ENM37213 (ENR37213)*	Print module - M head - twinjet - S type	
	2	ENM37214 (ENR37214)*	Print module - M head - twinjet - T type	
	2	ENM37215 (ENR37215)*	Print module - M head - twinjet - W type	
	3	A35440	Option - head output - left	
	4	A35441	Option - head output - right	
	5	A35437	Option - angled conduit - left - head side	
	6	A35439	Option - angled conduit - rear - head side	
	7	A35438	Option - angled conduit - right - head side	
8 A35442		A35442	Option - angled conduit - printer side	

* Note:

When ordering a print module, please indicate the reference of the ink your printer uses. See ink running specifications sheet.







For all the printers build before JULY 2006

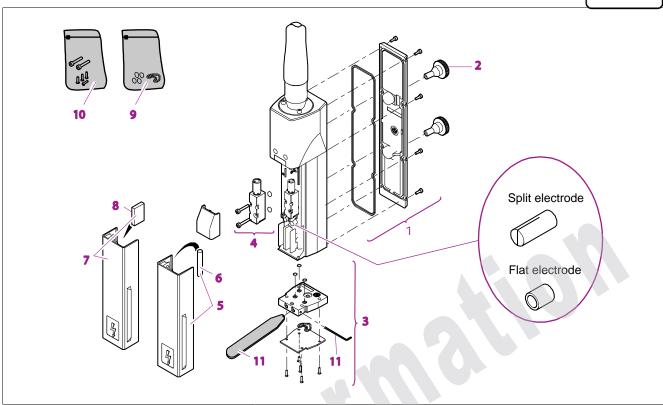
Item	Part number	Description		
1 ENR35882* PI 1 ENR35883* PI 1 ENR35887* PI		Print module - G head - single jet - S type		
		Print module - G head - single jet - T type		
		Print module - G head - single jet - W type		
		Print module - M head - single jet - S type		
		Print module - M head - single jet - T type		
1	ENR35889*	Print module - M head - single jet - W type		
2	ENR35884*	Print module - G head - twinjet - S typ		
2	ENR35885*	Print module - G head - twinjet - T typ		
2	ENR35886*	Print module - G head - twinjet - W type		
2	ENR35890*	Print module - M head - twinjet - S type		
2 ENR35891*		Print module - M head - twinjet - T type		
2	ENR35892*	Print module - M head - twinjet - W type		
3	A35440	Option - head output - left		
4	A35441	Option - head output - right		
5	A35437	Option - angled conduit - left - head side		
6	A35439	Option - angled conduit - rear - head side		
7	A35438	Option - angled conduit - right - head side		
8	A35442	Option - angled conduit - printer side		

* Note :

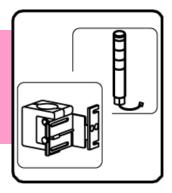
When ordering a print module, please indicate the reference of the ink your printer uses. See ink running specifications sheet.







Item	Part number	Description
1	ENM28676	Rear cover - screw CHc M2x6 - seals
2	ENM6206	Screw (x10) - head mounting - aluminium
3	ENM28591	Gutter assembly - single jet - with screw, seals, wrench and adjustment tool
3	ENM28592	Gutter assembly - twinjet - with screw, seals, wrench and adjustment tool
4	ENM28270	Modulation assembly - G head - with screw, seals, wrench and adjustment tool
4	ENM28646	Modulation assembly - M head - with screw, seals, wrench and adjustment tool
5	ENM5257	Head cover - split electrode
6	ENM6930	Magnet (x10) - cylindrical - split electrode
7	ENM15886	Head cover - M head - flat electrode
7	ENM15885	Head cover - G head - flat electrode
8	ENM16713	Square magnet - 10x10 - flat electrode
9	ENM36056	Seals kit
10	ENM36066	Fasteners kit
11	ENM34438	Gutter tube adjustment tool and Allen key 0.9 mm



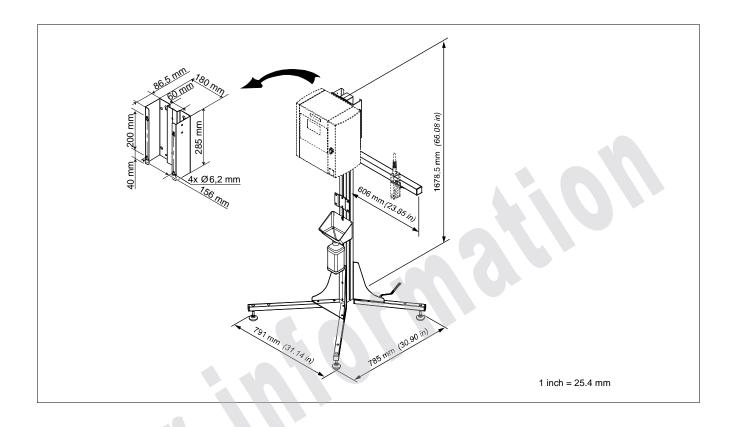
Accessories





■ Aluminium stand

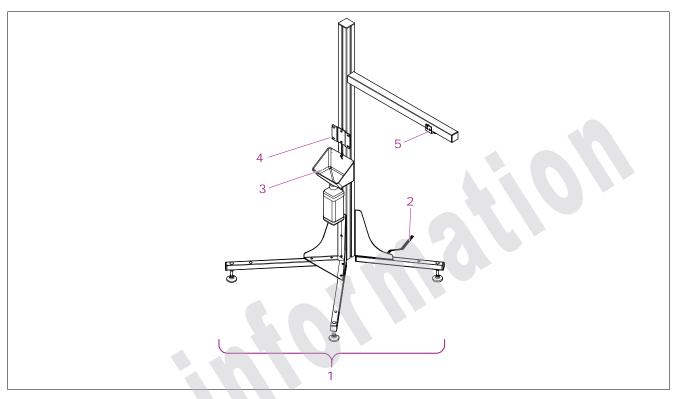
Aluminium stand dimensions







Part number - Aluminium stand

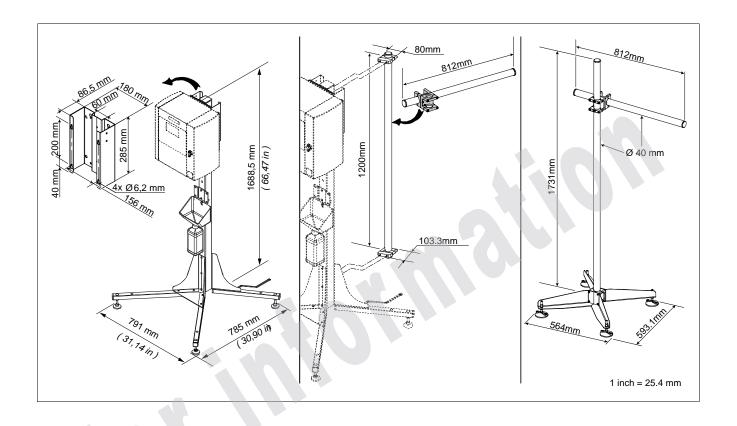


Item	Part number	Description
1	A36418	Stand - Printer/Head - Aluminium
2	A28453	Ground strap kit
3	EN6450	Maintenance tray
4	EN10013	Head support - Servicing position
5	A17974	Head support



■ Stainless steel stand

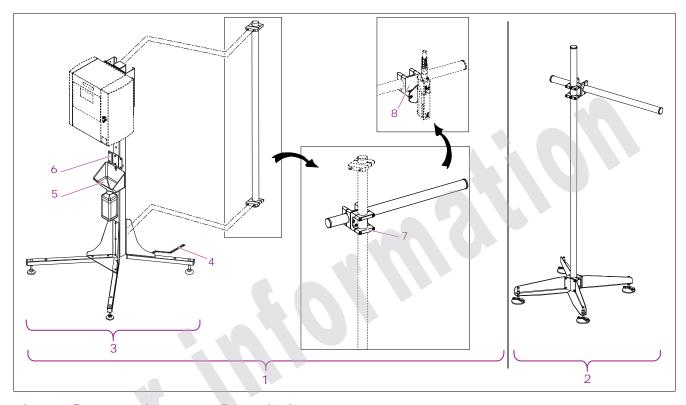
Stainless steel stand dimensions







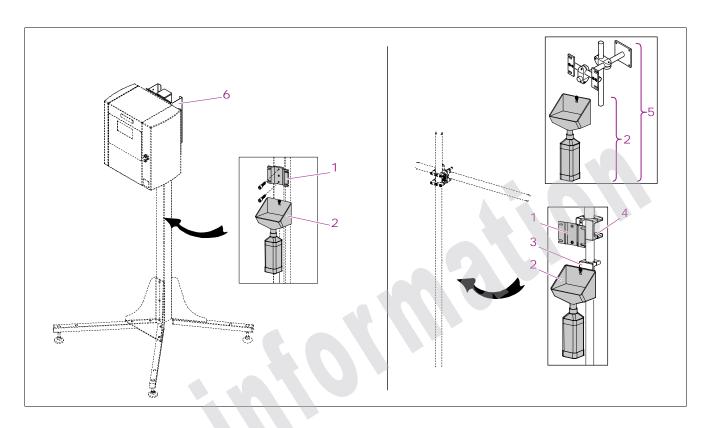
Part number - Stainless steel stand



1 A36416 Stand - Printer/Head - Stainless steel 2 A28473 Stand - Head - Stainless steel 3 A36415 Stand - Printer - Stainless steel 4 A28453 Ground strap kit 5 FN6450 Maintenance tray	Item	Part number	Description
3 A36415 Stand - Printer - Stainless steel 4 A28453 Ground strap kit	1	A36416	Stand - Printer/Head - Stainless steel
4 A28453 Ground strap kit	2	A28473	Stand - Head - Stainless steel
	3	A36415	Stand - Printer - Stainless steel
5 FN6450 Maintenance tray	4	A28453	Ground strap kit
5 Ento 100 Maintenance tray	5	EN6450	Maintenance tray
6 EN10013 Head support - servicing position	6	EN10013	Head support - servicing position
7 A28459 Adjustable bracket	7	A28459	Adjustable bracket
8 A28481 Mounting kit – head support	8	A28481	Mounting kit – head support



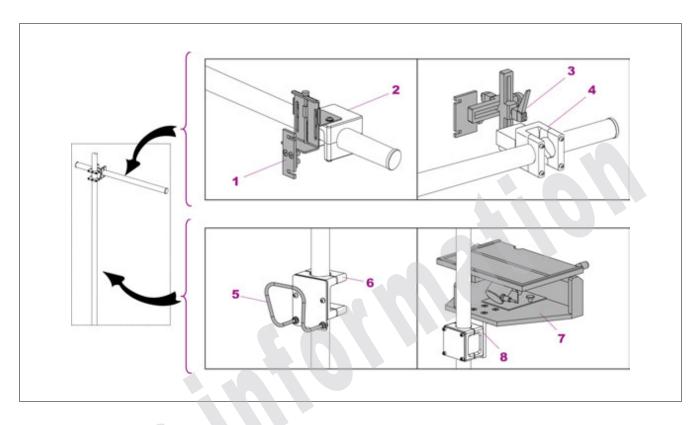
■ Maintenance tray - Wall mounting bracket



Item	Part number	Description
1	EN10013	Head support - servicing position
2	EN6450	Maintenance tray
3	A28457	Mounting kit - maintenance tray - With ground strap kit
4	A34798	Kit fixation - Support de tête - position entretien
5	EN6163	Mounting kit - head support - servicing position
6	ENM34023	Wall mounting bracket



■ Head adjustment supports, marking table

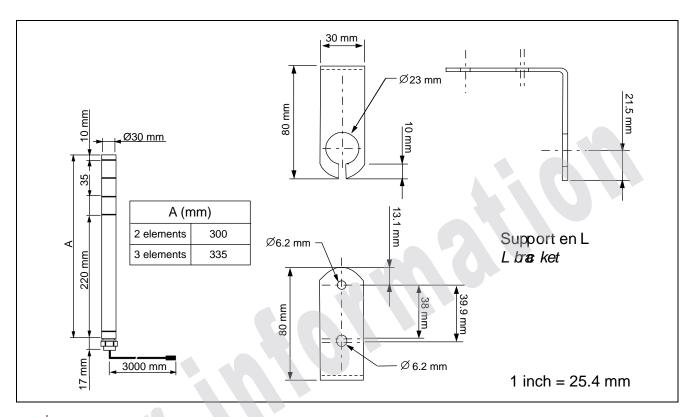


Item	Part number	Description	
1	EN10012	Head support - 1 axis precision adjustment	
2	A28479	Mounting kit - head support - 1 axis precision adjustment	
3	EN4735	Head support - 2 axis precision adjustment	
4	A28480	Mounting kit - head support - 2 axis precision adjustment	
5	ENM10163	Conduit support	
6	A28460	Mounting kit - conduit support	
7	EN6051	Marking table	
8	A28463	Mounting kit - marking table	



■ Alarm lights

Dimensions



Technical specifications

Model	Rated Voltage	Power consumption	Mass	Wire type/diameter
A34791	24V AC/DC	1.4W	0.23kg	UL1007/AWG22
A34792	24V AC/DC	2.0W	0.25kg	UL1007/AWG22

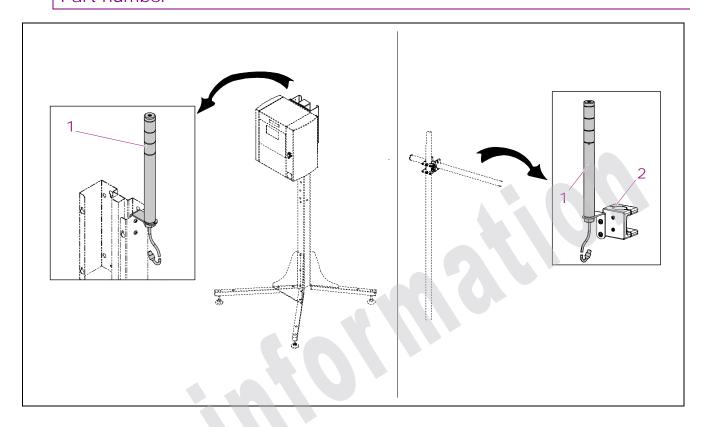
External contact capacity

LED module	Current consumption	Red - orange: 30mA / Green - blue - white: 25mA
[1-light]	Contact capacity	Is ≥ 50mA VS ≥ 35 VAC
Supply	Current consumption	200mA (MAX)
	Contact capacity	Is ≥ 200mA Vs ≥ 35 VAC





Part number

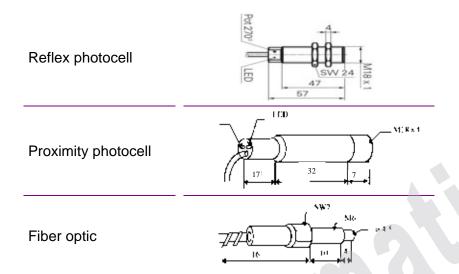


Item	Part number	Description
1	A34791	Alarm - illuminated - 24 V - 2 elements (Red / Orange)
1	A34792	Alarm - illuminated - 24 V - 3 elements (Red / Green / Orange)
2	A28466	Mounting kit - alarm - illuminated



■ Photocells

Dimensions

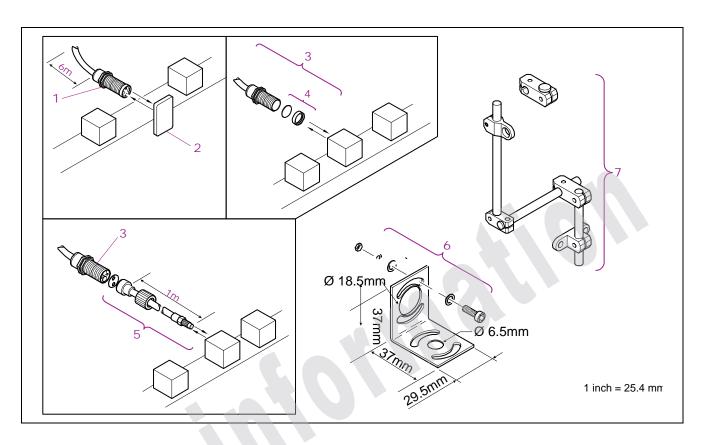


Unit: mm 1inch = 25.4 mm

Technical specifications

	Reflex photocell	Proximity photocell	Optic fiber
Ajustable range	0 −1,70 m	0 -200 mm	0 -55 mm
Voltage range	10 -30 VDC	10 -30 VDC	
Curent consumption	≤ 35 mA	≤ 30 mA	
Max. load current	200 mA	200 mA	
Activation time	≤ 1ms	≤ 0,5ms	
Desactivation time	≤ 1ms	≤ 0,5ms	
Protection class	IP65	IP65	IP65
Cable length	6 m	6 m	Fiber = 1 m
Case material	Nickel platted brass	Nickel platted brass	Chrom platted metal
Output	PNP	PNP	
Commutation	Dark	Light	
Protected against short circuits	Yes	Yes	
Protected against polarity inversions	Yes	Yes	
Temperature range	- 25° C / + 65° C	- 25° C / + 65° C	- 25° C / + 65° C



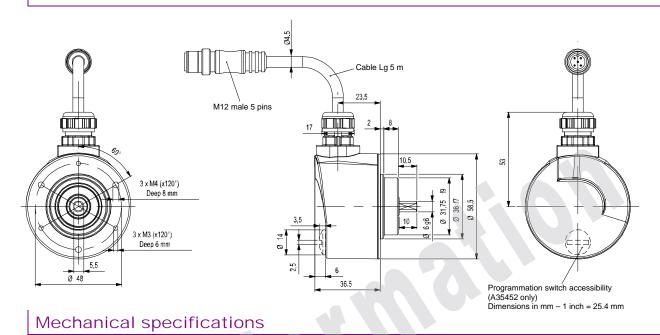


Item	Part number	Description
1	A35433	Photocell - Reflex - With connector
2	A16540	Reflector
3	A35355	Photocell - Proximity - With connector
4	A16541	Glass protector
5	A16470	Optical cable (used with proximity photocell)
6	A16538	Mounting bracket - Photocell/optical cable
7	A16539	Support - Photocell



■ Shaft encoders

Dimensions



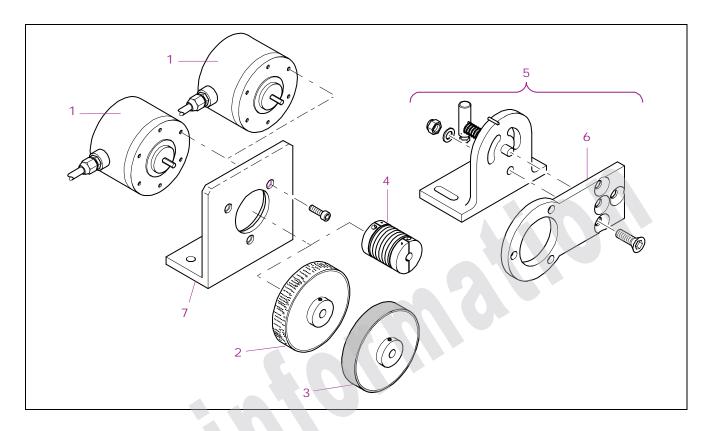
	Cover : zinc alloy	
Material	Body: aluminium	
	Shaft : Stainless steel	
Maximal loads	Axial: 50 N	
iviaxiiiiai ioaus	Radial: 100 N	
Acceleration	Max 1.10 ⁵ rad.s- ²	
Continuous speed	Max 9000 tr/min (rpm)	
Weight	300 g	
Relative humidity	98 % (without condensation)	
IP (EN 60529)	IP 65	
Cable length	5 m	

Electrical specifications

	A35356	A35452	
Supply	5 to 30 VDC	5 to 30 VDC	
Consumption	75mA	75mA	
Intensity per channel	40mA	40mA	
Protection against short circuits	yes	yes	
Protection against reverse polarity	yes	yes	
Operating temperature	-30°C to 100°C	-30°C to 70°C	
Resolution	5000 pulses/rev	5000 pulses/rev 2500 to 40000 pulses/rev	







Item	Part number	Description
1	A35356	Shaft encoder - 5000 pulses/rev - with connector
1	A35452	Programmable shaft encoder - With connector
2	A10530	Encoder wheel - Spiked - 200 mm (8 in.)
3	A11169	Encoder wheel - Smooth - 200 mm (8 in.)
4	A11168	Flexible coupling
5	EN6367	Mounting bracket - encoder - With spring
6	ENM6363	Bracket - Shaft encoder
7	ENM11166 Mounting bracket - Encoder - Fixed	



■ Head protection, antistatic brush, air blade kit

Head protection

Description

The stainless steel head protector is used to protect the head against splashes of water, dust, electromagnetic interference and mechanical shocks.

Installation

A magnetic plate covers the jet output slot to ensure that the head is completely sealed when idle or while the production line is being cleaned.

A sleeve supplied with the head protector is mounted to the Markem-Imaje stand when the head is being serviced.

Anti-static brush

Description

Certain printing applications, such as blister packs, plastic film or cables, can produce electrostatic charges that may disperse the drops ink, which will reduce print quality. Use an anti-static brush to prevent this.

Installation

The brush, which is 70 mm (2.76 in.) long, is mounted crosswise 50 mm (1.97 in.) in front of the head. It should never be more than 1mm (0.04 in.) from the object and should preferably be in contact with the object. It must also be grounded.

Air blade kit

Description

The air blade is used to dry:

- The substrate prior printing
- The ink after printing

Installation

Blades are available in two lengths: 6" (153 mm) and 18" (457 mm).

The space between the blade and the object may be adjusted (between 0.4 and 2 in.) (10 and 60 mm).

The air blade kit includes the blade, filters and a bar to remove the head and couplings necessary for installation.

The connector on the kit's inlet is 1/2" G female or 1/2" BSP 10 mm.

Use the cross-shaped bars to attach the air blade to the Markem-Imaje stand.

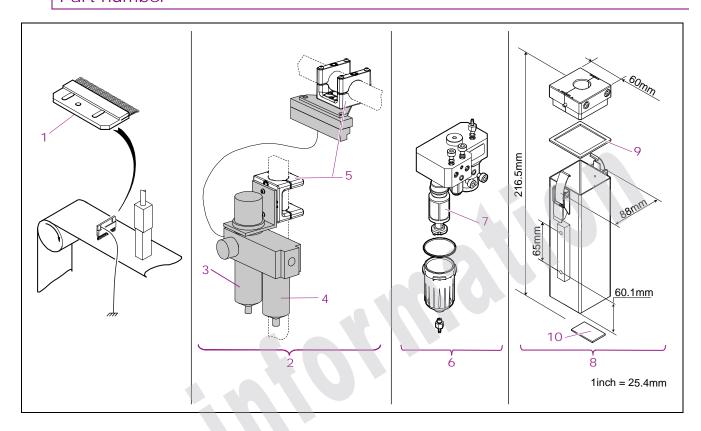
Check your plant air for the following characteristics:

- \Box 6" blade (153 mm): air flow and pressure at the kit's input must be at least 300 l/min. (10.5 scfm) at 1.8 bar (26.1 PSI).
- $_{\square}$ 18" blade (457 mm): air flow and pressure at the kit's input must be at least 800 l/min. (28.25 scfm) at 1.8 bar (26.1 PSI).
- □ Pressure at the kit's input must be at least 3 bar (43.5 PSI).
- □ Operating temperature must be between 14°F and 167°F (-10°C and +75°C).
- □ The air must be clean, dry and oil free. It must contain at the most: 0.12 grams of water/m³ (0.15 once of water/cubic foot), 1PPM of oil and size of particle <5 µm.



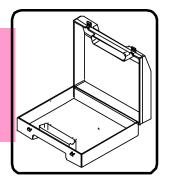


Part number



Item	Part number	Description
1	A13939	Antistatic brush
2	A17287	Air blade kit - 457 mm (18 in.)
2	A17796	Air blade kit - 153 mm (6 in.)
3	ENM17562	Filter - air blade - main filter - 5 µm
4	ENM17563	Filter - air blade - secondary filter - 0.01 µm
5	A34371	Mounting kit – air blade kit
6	ENM34801	Air treatment unit - IP54
7	ENM16203	Filter cartridge - 0.1µm - with seal
8	A35948	Head protection kit
9	ENM35474	Seal - head protection kit
10	ENM16508	Magnet (x5) - head protection kit





Safety and maintenance parts

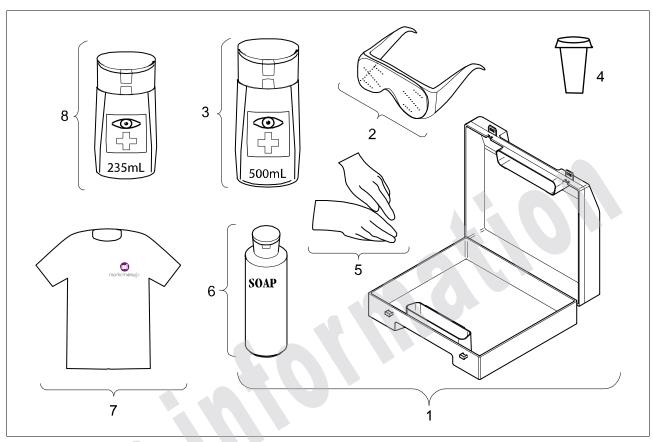








■ Safety kit

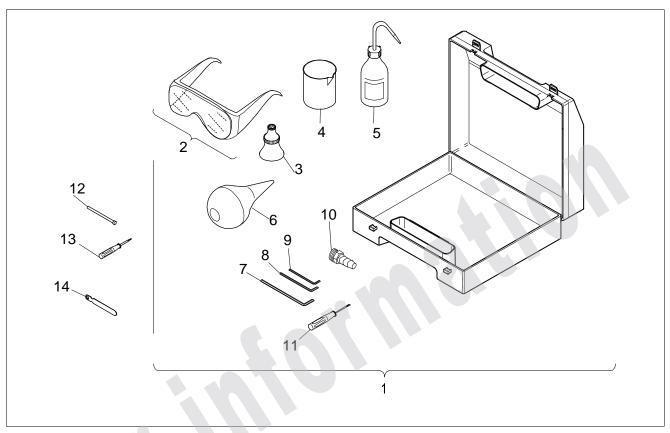


Item	Part number	Description	
1	A17538	Safety kit (includes 2,3,4,5,6)	
Referenced materials in the safety kit may be ordered separately			
2	A17955	Safety glasses	
3	A38254	Eye wash - Hand held - 500 mL	
4		Eye - Cup - Individual	
5	ENM4491 Gloves (x 20) - Latex		
6	Hand cleaner - Liquid - 125 ml		
7	A20872 Tee shirt - Black - Markem-Imaje - Size M		
7	A20873	Tee shirt - Black - Markem-Imaje - Size L	
7	A20874	Tee shirt - Black - Markem-Imaje - Size XL	
7	A20875	Tee shirt - Black - Markem-Imaje - Size XXL	
8	A38255	Eye wash - Hand held - 235 mL	



■ Tools

Part number



Item	Part number	Description	
1	A27831	Suitcase-user	
Referenced materials in the suitcase-user may be ordered separately (see list below)			
2	A17955	Safety glasses	
3	A10413	Magnifier - Magnification x12	
4	A11007	Beaker - 250 ml	
5	ENM6317	Cleaning flask	
6	A10864	Head dryer	
7		Allen wrench - 3/32"	
8	A18631	Allen wrench - 2 mm	
9		Allen wrench - 1.5 mm	
10		Connector - Ringed - M6 - 1/8 - Teflon	
11	A12027	Screwdriver - 2.5 x 50	
12	ENM5932	Adjustment tool - Cannon - Punch - Ø 0.95	
13		Screwdriver - Flat 1.5 - Cannon holder cam	
14	ENM14434	Wrench - Cannon - Hexagonal key - 5mm	





9020/9030 Catalog

Instructions update

- The revision A index corresponds to the first edition of this manual.
- The revision index changes with each update.

Date published	Revision index documentation	Software index
06/2005	A	C10
05/2006	В	C11
07/2006	С	C11
06/2008	D	C16

