

the team to trust ■ ■ ■

Catalog

accessories - spare parts ■ ■ ■

9040

9040_s

9040 IP65

9040 Contrast



For information



A36961-E

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User Documentation Department



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General

For information



For information



■ Preliminary instructions / 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 < 70 dB A.

Fire prevention

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

CAUTION: For continued protection against possible fire, use only the ink/solvent mixtures specified by Markem-imaje. 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,S8 and 9040 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 and the print heads must be secured firmly in place with fastening devices.

9040: The printer must be attached to the floor using the designated mechanism provided (4 bolts, minimum diameter 6 mm, with washers, class 5.6 minimum, minimum pull-out resistance 300 daN). If it is not possible to attach the printer to the floor, the Markem-imaje stability kit must be installed on the printer. The print heads must be attached using appropriate mounting devices to ensure that they are perfectly stable.

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

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, S8 and 9040 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-up, 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 receptacles used should be emptied and cleaned. Do not leave rags soaked with consumables near the printer.

CAUTION

This unit contains a non-replaceable internal lithium ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.

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



General

■ Recycling



The equipment described below is industrial equipment, and therefore cannot be recycled or recovered as household waste but must be processed using special methods, as shown by the symbol below.

The following table indicates some of the methods available for recycling machines when they reach the end of their life cycle. These methods are shown for guidance purposes only. Other more specialized processes may be used instead of those indicated.

Please do not hesitate to contact your Markem-Imaje representative for further information.

Accumulators and batteries used in the equipment must be treated using specialized methods.

If the equipment is not dismantled on site, the following information must be forwarded to the service-provider responsible for this operation.

Recycled parts	Method
1 Stainless steel cabinet.	Material 100% recyclable using any metal processing method.
2 Containers for consumables and ink circuits.	These items consist of plastic, metal and composite materials which are impregnated with or contain ink. Recommended method: <input type="checkbox"/> energy recovery.
3 Umbilical and printhead.	<input type="checkbox"/> energy recovery, <input type="checkbox"/> recovery of electrical material, <input type="checkbox"/> recovery of metals. CAUTION : Electronic circuit board present (see 4).
4 Electronic circuit boards, screen and electrical wiring.	Recommended method: <input type="checkbox"/> Recovery and treatment of electronic waste (computers, televisions, etc.).



General

■ 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	ENMXXXXX
Replacement Part	ENRXXXXX

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.

How to recognize your type of printers :

Type	Usage
9040	For wide variety of applications
9040 IP65	For use in difficult environments
9040 Contrast	For use on dark substrat
9040 S	For High Speed marking





Documentation

For information



For information



■ Documentation

Cdrom

This CD-ROM includes the entire range of documentation for 9040, 9040 IP65, 9040 Contrast and 9040S in PDF format, i.e. User manual, Quick guide, Spare parts catalog, Network manual, Instructions for accessories and space floor plans in DXF format.

Part number	Description
A36989	Cdrom - All languages

Instruction manual

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

Part number	Description
A19919	Instruction Manual - All languages

Catalog

This catalog includes all spare parts and accessories.

Part number	Description
A36960	Catalog - Accessories - Spare parts - French
A36961	Catalog - Accessories - Spare parts - English
A36962	Catalog - Accessories - Spare parts - Spanish

User manual

This manual describes all user functions, technical characteristics and preventive maintenance.

Part number	Description
A36950	Printer manual - French
A36951	Printer manual - English
A36952	Printer manual - Spanish
A36953	Printer manual - German
A36954	Printer manual - Italian
A36955	Printer manual - Portuguese
A36956	Printer manual - Dutch
A36957	Printer manual - Brazilian
A36958	Printer manual - Chinese
A36959	Printer manual - Japanese
A36963	Printer manual - Korean
A36964	Printer manual - Swedish
A38837	Printer manual - Russian



Documentation

Manual for network interface

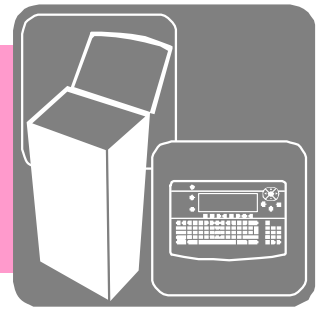
This manual describes the serial and parallel interfaces

Part number	Description
A36980	Network interface manual - French
A36981	Network interface manual - English

Quick guide

This Quick guide describes basic functions

Part number	Description
A36970	Quick guide - French
A36971	Quick guide - English
A36972	Quick guide - Spanish
A36973	Quick guide - Brazilian
A36974	Quick guide - German
A36975	Quick guide - Italian
A36976	Quick guide - Portuguese
A36977	Quick guide - Dutch
A36978	Quick guide - Chinese
A36979	Quick guide - Japanese
A36982	Quick guide - Korean
A36983	Quick guide - Finnish
A36984	Quick guide - Danish
A36985	Quick guide - Norwegian
A36986	Quick guide - Hungarian
A36987	Quick guide - Polish
A36988	Quick guide - Slovenian
A36995	Quick guide - Swedish
A36942	Quick guide - Czech
A36943	Quick guide - Croatian
A36944	Quick guide - Greek
A36945	Quick guide - Turkish
A36946	Quick guide - Russian
A36947	Quick guide - Bulgarian
A36949	Quick guide - Arabic
A36965	Quick guide - Hebrew
A36966	Quick guide - Vietnamese
A36967	Quick guide - Taiwanese
A36969	Quick guide - Thai
A37922	Quick guide - Romanian



Keyboard Electronic compartment



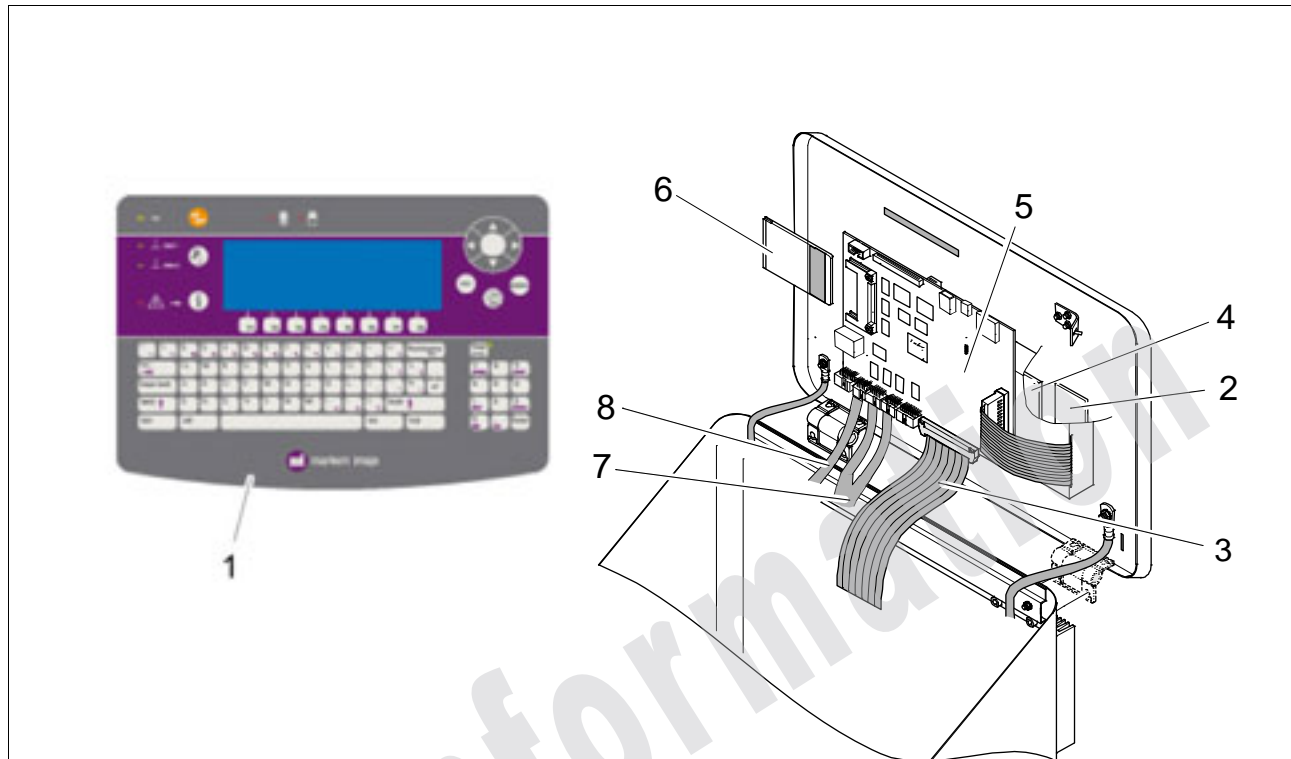


For information



Electronic compartment - Keyboard

■ Keyboard

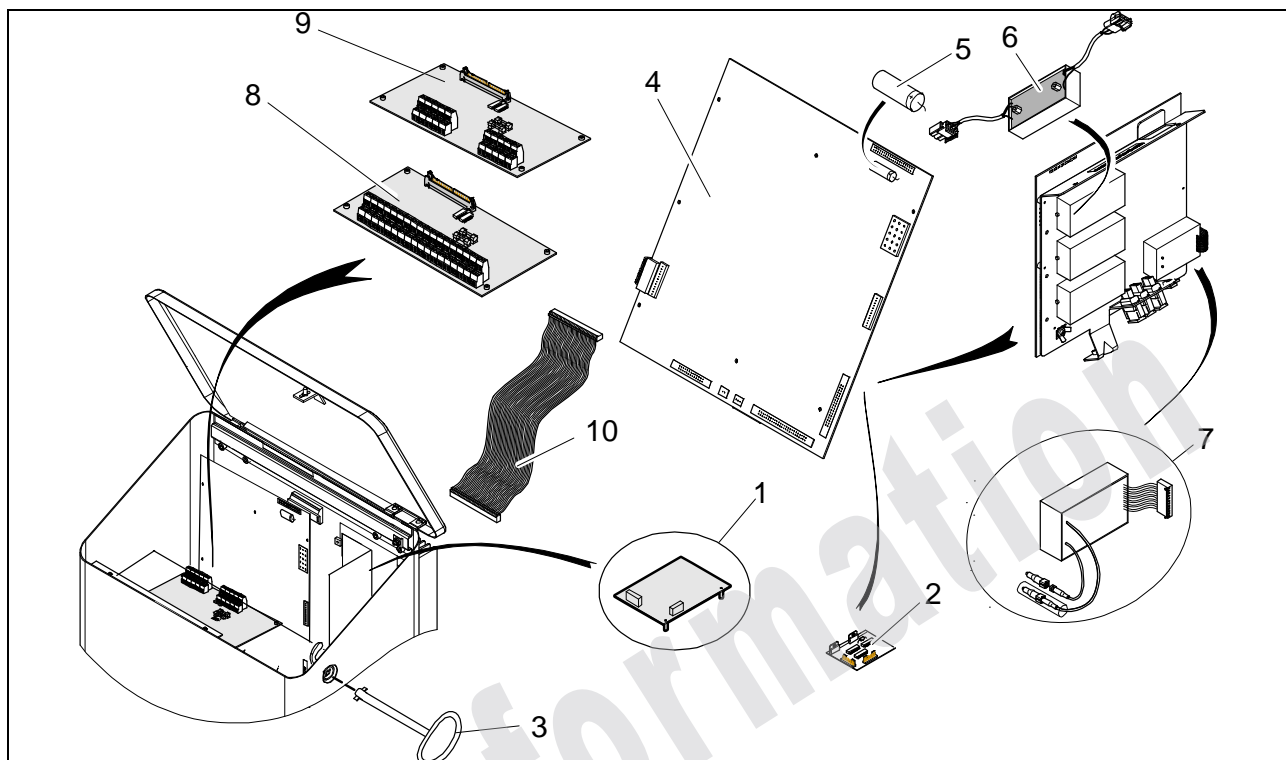


Item	Part number	Description
1	ENM36266	Keyboard - Latin
1	ENM36389	Keyboard - Arabic
1	ENM36390	Keyboard - Chinese
1	ENM36388	Keyboard - Cyrillic
1	ENM37076	Keyboard - Hebrew
2	ENM37236	Board - Backlight display converter
3	ENM36831	Ribbon cable - Bottom of mainboard / display
4	ENM37237	Display LCD
5	ENM37883	Board - IHM 9040 6 Ethernet 6 USB 6 PCMCIA - SD
6	A27126	Board - PCMCIA - ATA - SD
7	ENM36829	Flat Cable - V24/RS232 - 2 Heads
8	ENM36830	Flat Cable - V24/RS232 - 1 Head

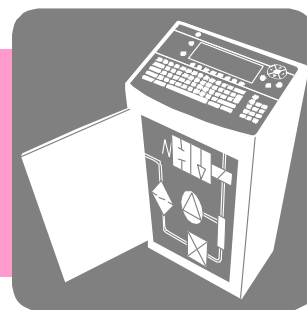


Electronic compartment - Keyboard

■ Electronic compartment



Item	Part number	Description
1	ENM34945	Board - Power supply - Auto switched - 110 V-220 V
2	ENM36470	Board - Stirring motor - For 9040 Contrast
3	ENM16586	Key - Electronic compartment
4	ENM36680 (ENR36680)	Main Board - Single Jet - 1 Head
4	ENM36681 (ENR36681)	Main Board - Bijet - 1 Head
4	ENM36682 (ENR36682)	Main Board - Single Jet - 2 Heads
4	ENM36683 (ENR36683)	Main Board - Bijet - 2 Heads
4	ENM36684	Main Board - For 9040 _s
5	ENM5936	Battery - Lithium - 3V 500 mA
6	ENM14123	Safety level block
7	ENM10298	EHT block
8	ENM36790	Board - Industrial interface - With parallel interface - For 2 heads printer
9	ENM36789	Board - Industrial interface - Without parallel interface - For 1 head printer
10	ENM36793	Ribbon cable - Bottom of mainboard/industrial interface



Ink circuit compartment

For information

Ink circuit compartment

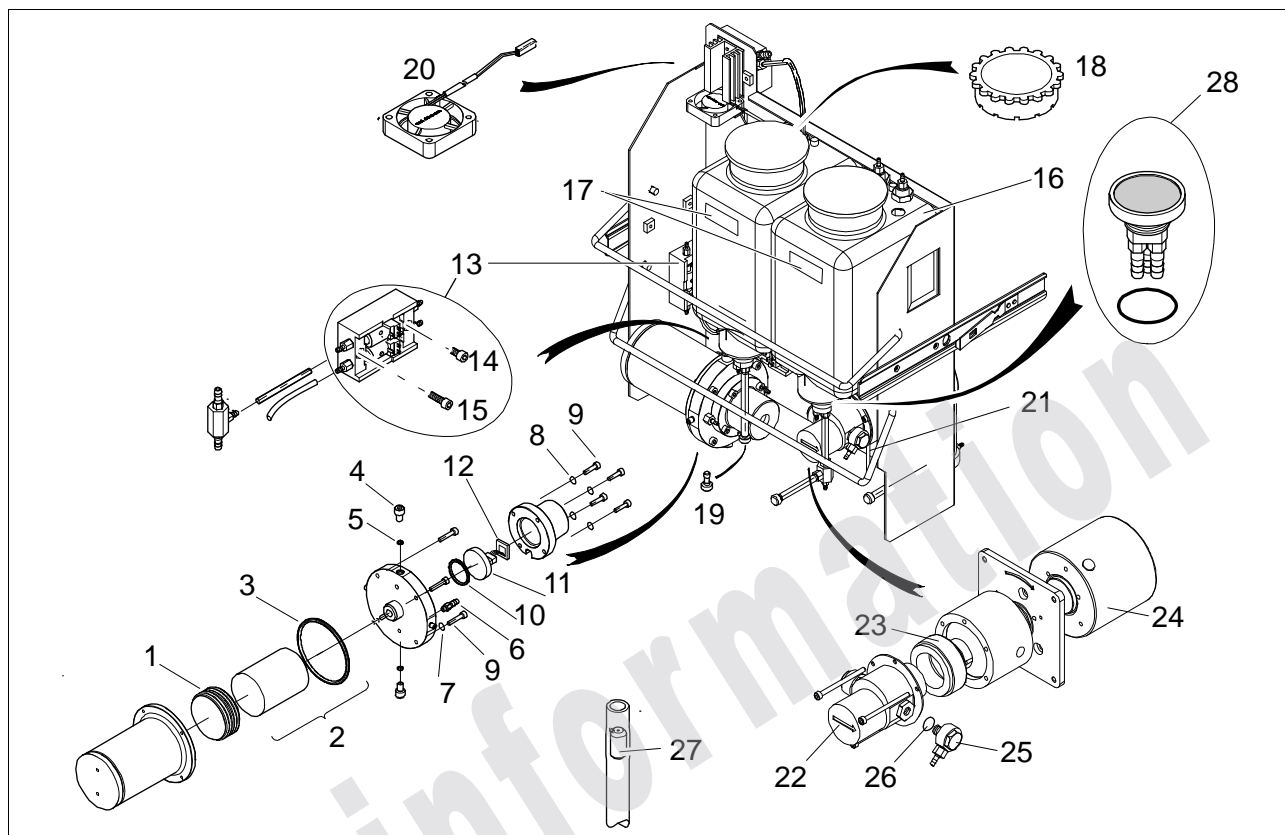


For information



Ink circuit compartment

■ 9040 - 9040_S - 9040_{P65} - Front view (1/2)

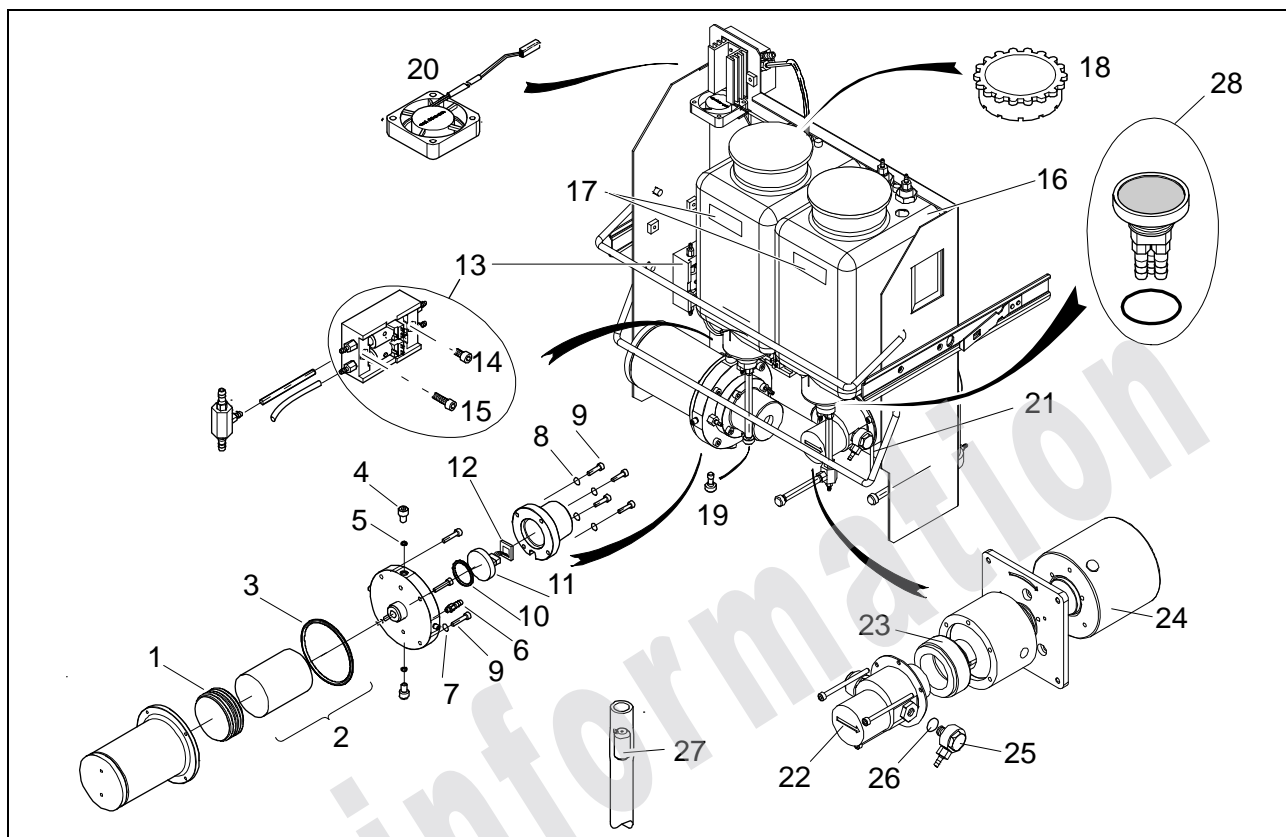


Item	Part number	Description
1	ENM20194	Anti-pulse bellows
2	ENM5934	Cartridge - Ink filter - With seal
2	ENM37176	Cartridge - Ink filter - With seal - Mandatory for 5151 ink
3	ENM4250	Seal (x 5) - O'ring - 64.63 x 3.53
4	ENM4256	Screw (x20) - Stainless steel - Chc M6 x 10
5	ENM4255	Seal (x 5) - O'ring - 6 x 1
6	ENM4472	Connector (x5) - Barbed - M5 x 4.8
7	ENM4331	Washer (x20) - Stainless steel - Serrated - 4
8	ENM4326	Washer (x20) - Serrated - 4
9	ENM4324	Screw (x20) - Stainless steel - Chc M4 x 16
10	ENM5713	Seal (x 5) - O'ring - 23 x 2.5
11	ENM20342	Sensor - Pressure/temperature - G and M head
11	ENM17662	Sensor - Pressure - P head
12	ENM20215	Interface - Pressure/temperature
13	ENM10133	Electrovalves block - 2.7 - 2.7 - 2.7 - 1.6
14	ENM5703	Screw (x20) - Stainless steel - Chc M4 x20



Ink circuit compartment

■ 9040 - 9040_S - 9040_{P65} - Front view (2/2)

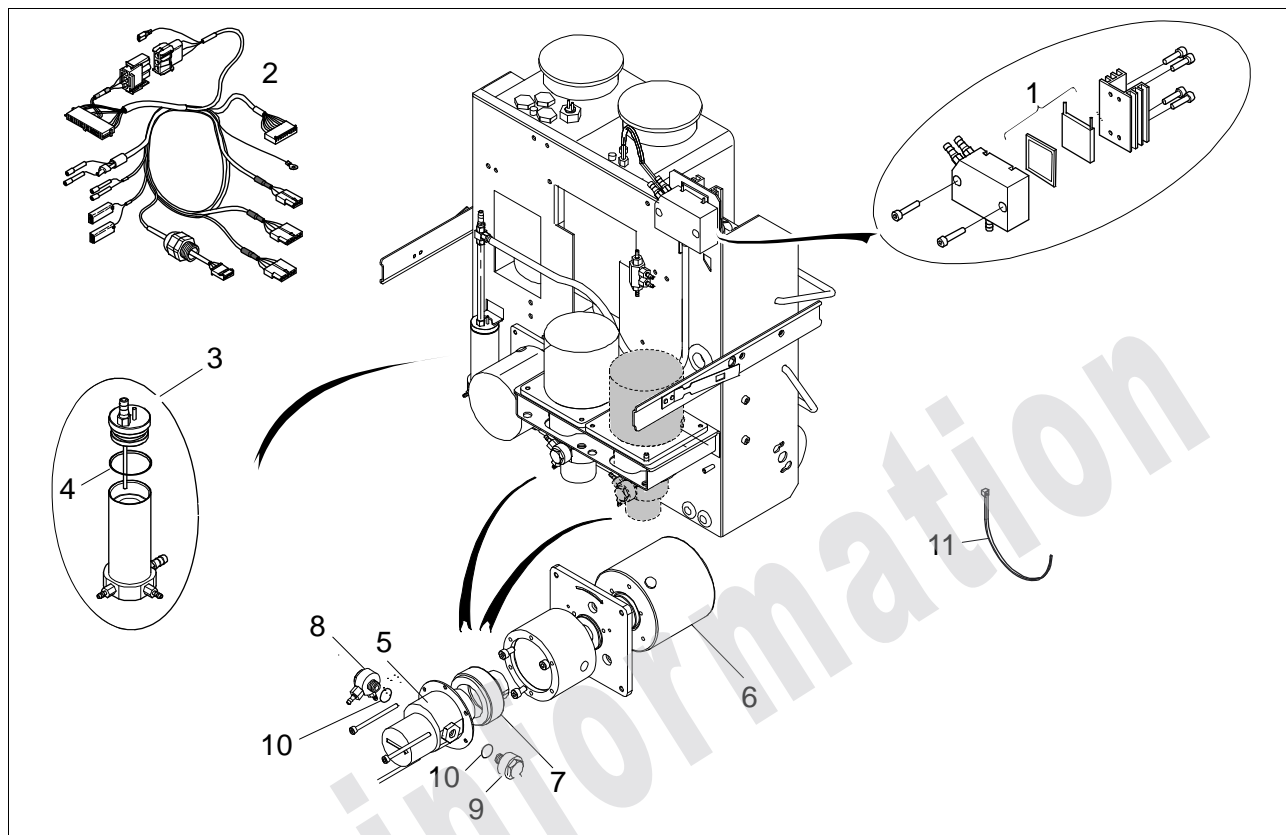


Item	Part number	Description
15	ENM4336	Screw (x20) - Stainless steel - Chc M4 x 24
16	ENM37081	Tank - Ink - DC - For 1 head
16	ENM37082	Tank - Ink - DC - For 2 heads
17	ENM6989	Label - Ink (x 3) - Additive (x 3)
18	ENM5745	Plug (x 10) - Additive/ink tank
19	ENM4485	Plug (x 5) - Draining
20	ENM20212	Fan - Condenser
21	ENM3364	Calibrated tube - Viscosimeter supply
22	ENM5629	Pump - pressure - Standard ink - G and M head
22	ENM18221	Pump - pressure - Standard ink - P head
23	ENM36322	Magnetic coupling - DC motor
24	ENM26966	Motor - DC
25	ENM27330	Connector Banjo - Simple - 2.7
26	ENM4255	Seal (x5) - O'ring - 6 x 1
27	ENM27192	Restriction (x 5) - 0.7 - Tube 2.7
27	ENM16208	Restriction (x 10) - 0.3 - Tube 2.7
28	ENM27275	Strained - Ink tank - With seal



Ink circuit compartment

■ 9040 - 9040_S - 9040_{P65} - Rear view

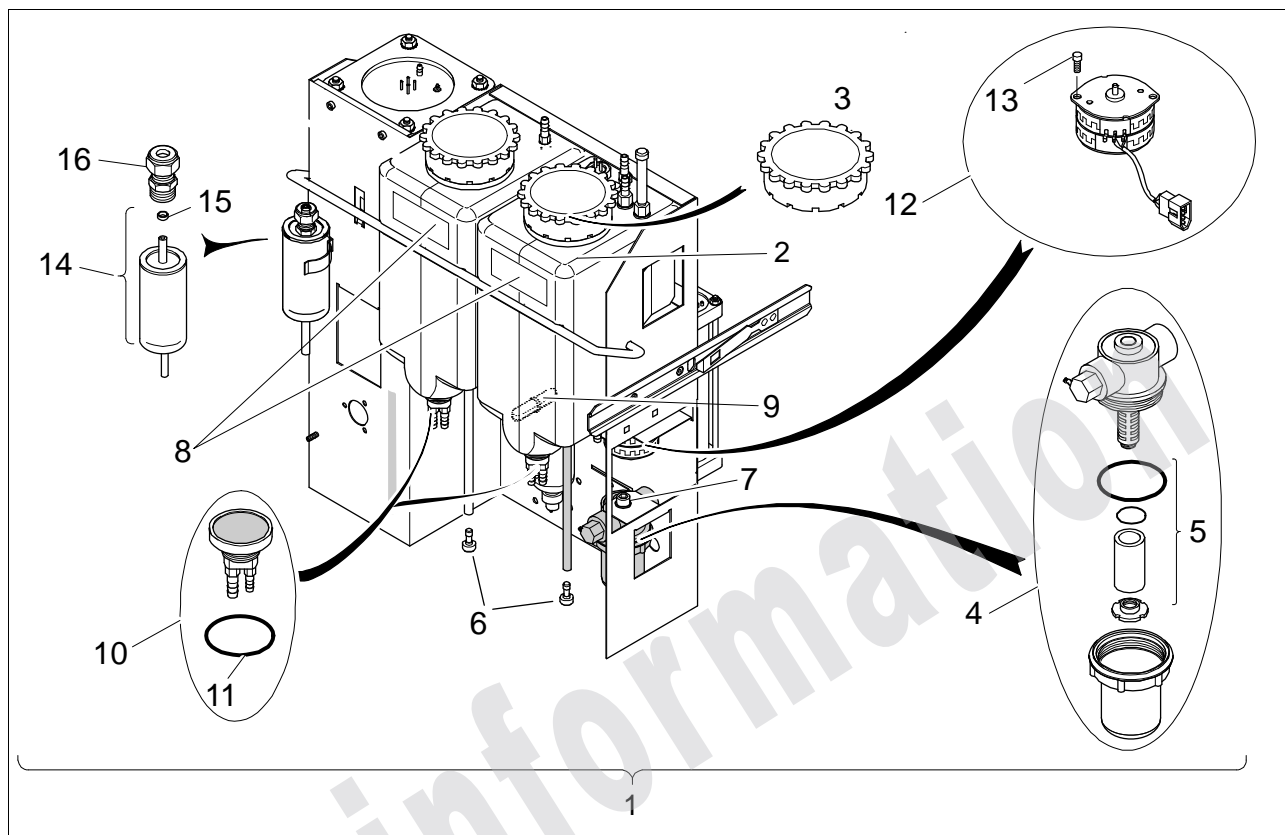


Item	Part number	Description
1	ENM16157	Condenser - With seal
2	ENM34658	Harness - Ink circuit - DC - For 1 head
2	ENM26967	Harness - Ink circuit - DC - For 2 heads
3	ENM7788	Viscosimeter
4	ENM4249	Seal (x 5) - O'ring - 19.18 x 2.46
5	ENM4295	Pump - Recuperation - Equipped - Standard ink
5	ENM16891	Pump - Recuperation - Equipped - Specific ink
6	ENM26966	Motor - DC
7	ENM36322	Magnetic coupling - DC motor
8	ENM27186	Connector - Banjo - Double - 2.7
9	ENM27330	Connector - Banjo - Simple - 2.7
10	ENM4255	Seal (x 5) - O'ring - 6 x 1
11	ENM10195	Cable clamp fitting (x100) - 2,5 x 100



Ink circuit compartment

■ 9040 Contrast - Front view

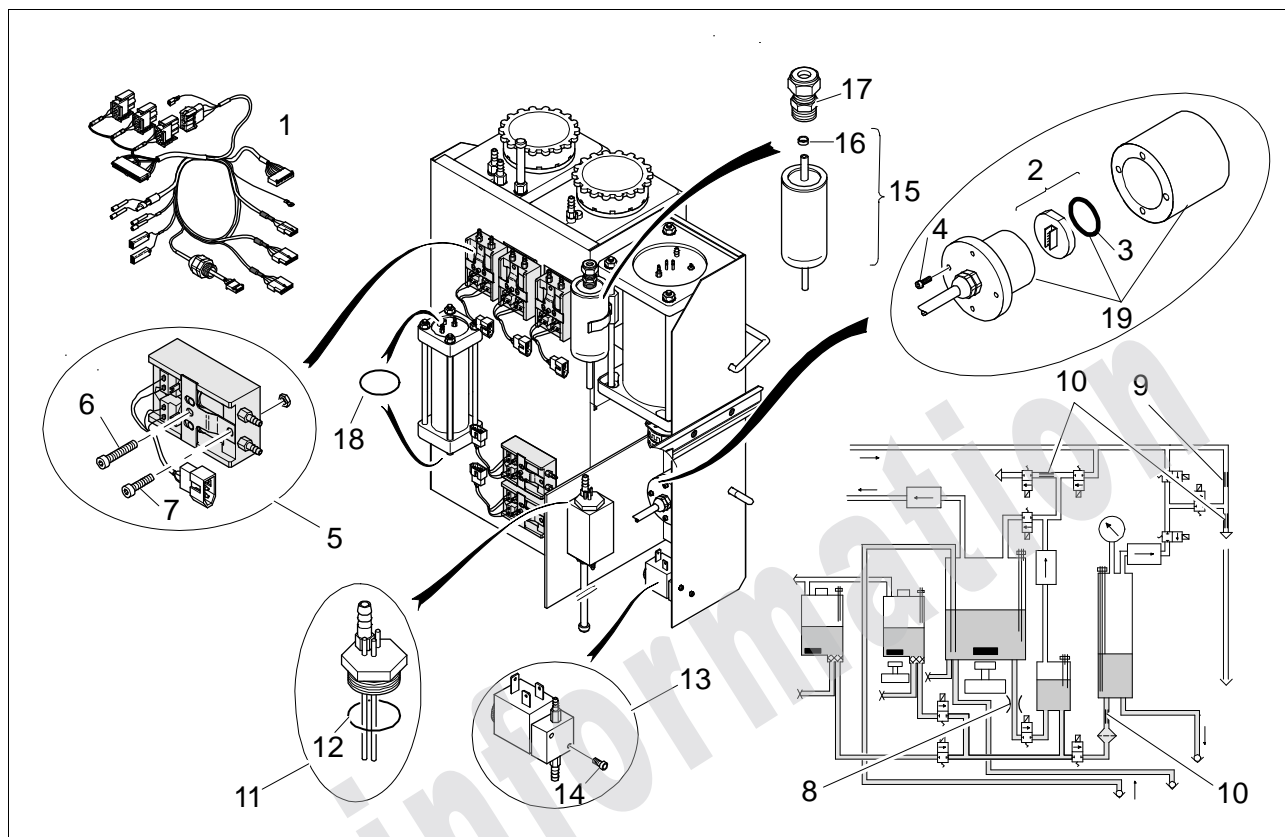


Item	Part number	Description
1	ENM6234	Ink circuit - For 9040 Contrast
2	ENM6246	Tank - Ink
3	ENM5745	Plug (x 10) - Additive/ink tank
4	ENM6256	Filter - Ink
5	ENM5553	Cartridge - Ink filter - With seals
6	ENM4485	Plug (x 5) - Draining
7	ENM4256	Screw (x20) - Stainless steel - Chc M6 x 10
8	ENM6989	Label - Ink (x 3) - Additive (x 3)
9	ENM11428	Stirring bar (x2)
10	ENM6247	Strainer - With seal
11	ENM4339	Seal (x 5) - Flat - 20 x 30 x 2
12	ENM7599	Motor - Stirring
13	ENM4337	Screw (x20) - Stainless steel - Chc M3 x 6
14	ENM7765	Filter - Coalescent - With ring
15	ENM7775	O'ring (x 4) 1/8 - (x 8) 1/4
16	ENM7766	Connector (x 5) - 1/4 - 1/4



Ink circuit compartment

■ 9040 Contrast - Rear view (1/2)

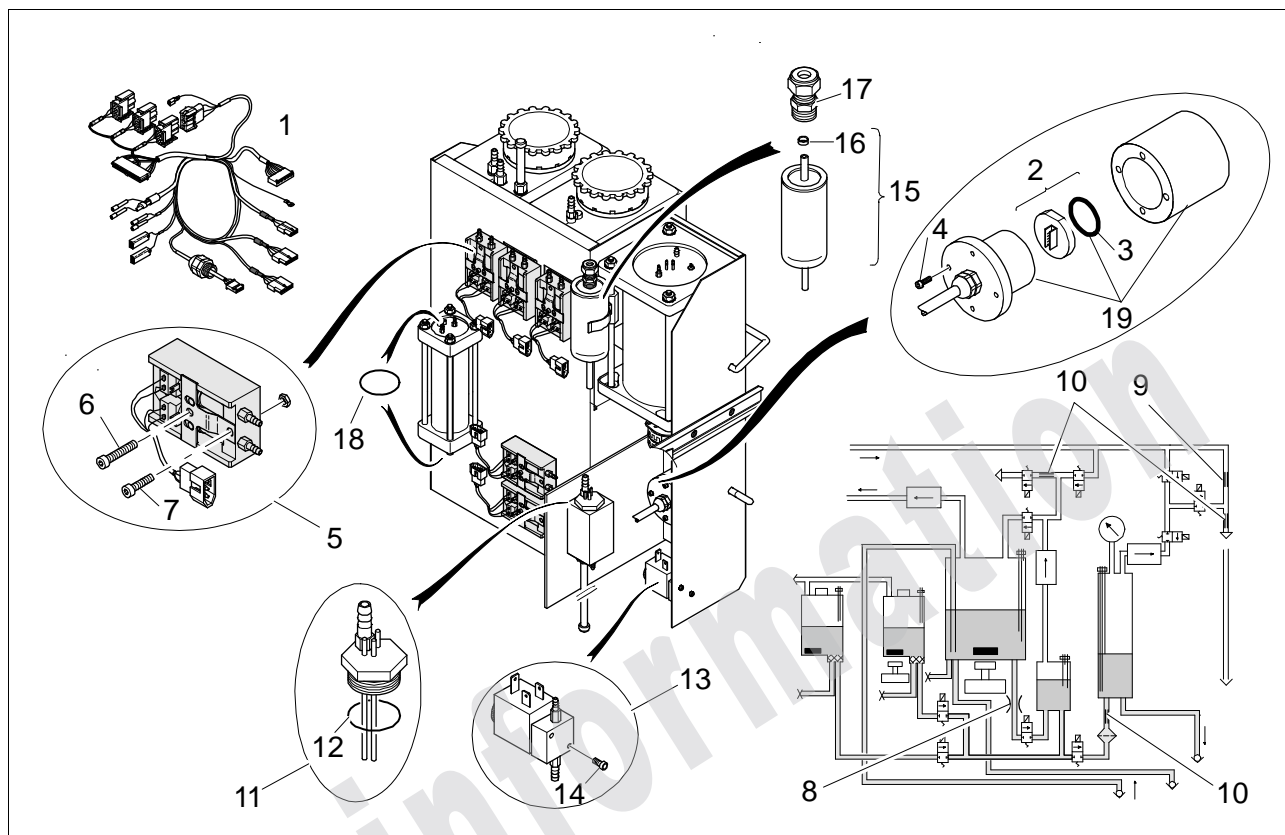


Item	Part number	Description
1	ENM6254	Harness - Ink circuit - For 9040 Contrast
2	ENM10287	Cell - Pressure - G and M head
3	ENM5713	Seal (x 5) - O'ring - 23 x 2.5
4	ENM4324	Screw (x20) - Stainless steel - Chc M4 x 16
5	ENM10133	Electrovalves block - 2.7 - 2.7 - 2.7 - 1.6
6	ENM5703	Screw (x20) - Stainless steel - Chc M4 x 20
7	ENM4336	Screw (x20) - Stainless steel - Chc M4 x 24
8	ST10077	Calibrated tube
9	ENM7591	Restriction (x 5) - 0.3 mm
10	ENM7592	Restriction (x 5) 0.4 mm
11	ENM7590	Plug - Viscometer
12	ENM7593	Seal (x 5) - O'ring - 29.45 x 1

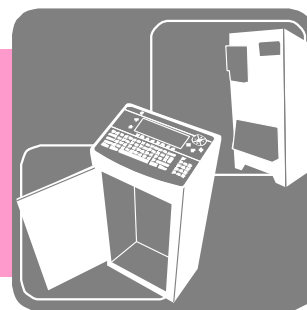


Ink circuit compartment

■ 9040 Contrast - Rear view (2/2)



Item	Part number	Description
13	ENM10086	Electrovalve - Viscometer
14	ENM4246	Screw (x20) - Stainless steel - Chc M3 x 10
15	ENM7765	Filter - Coalescent - With ring
16	ENM7775	O'ring (x 4) 1/8 - (x 8) 1/4
17	ENM7767	Connector (x 5) - 1/4 - 1/8
18	ENM4262	Seal (x 5) - O'ring - 40 x 2.5
19	ENM25979	Pressure sensor box - Without sensor



Cabinet

For information



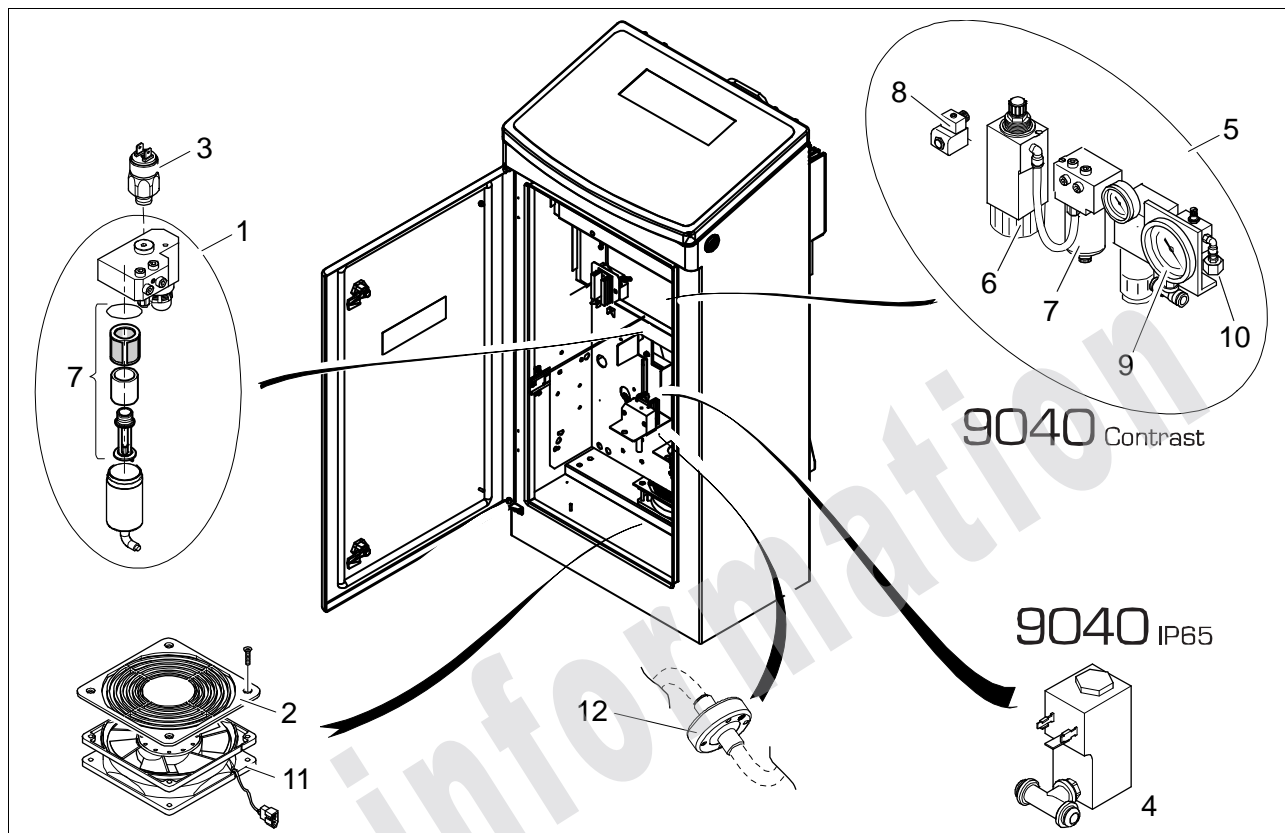
For information



Cabinet

■ Front view

Part number



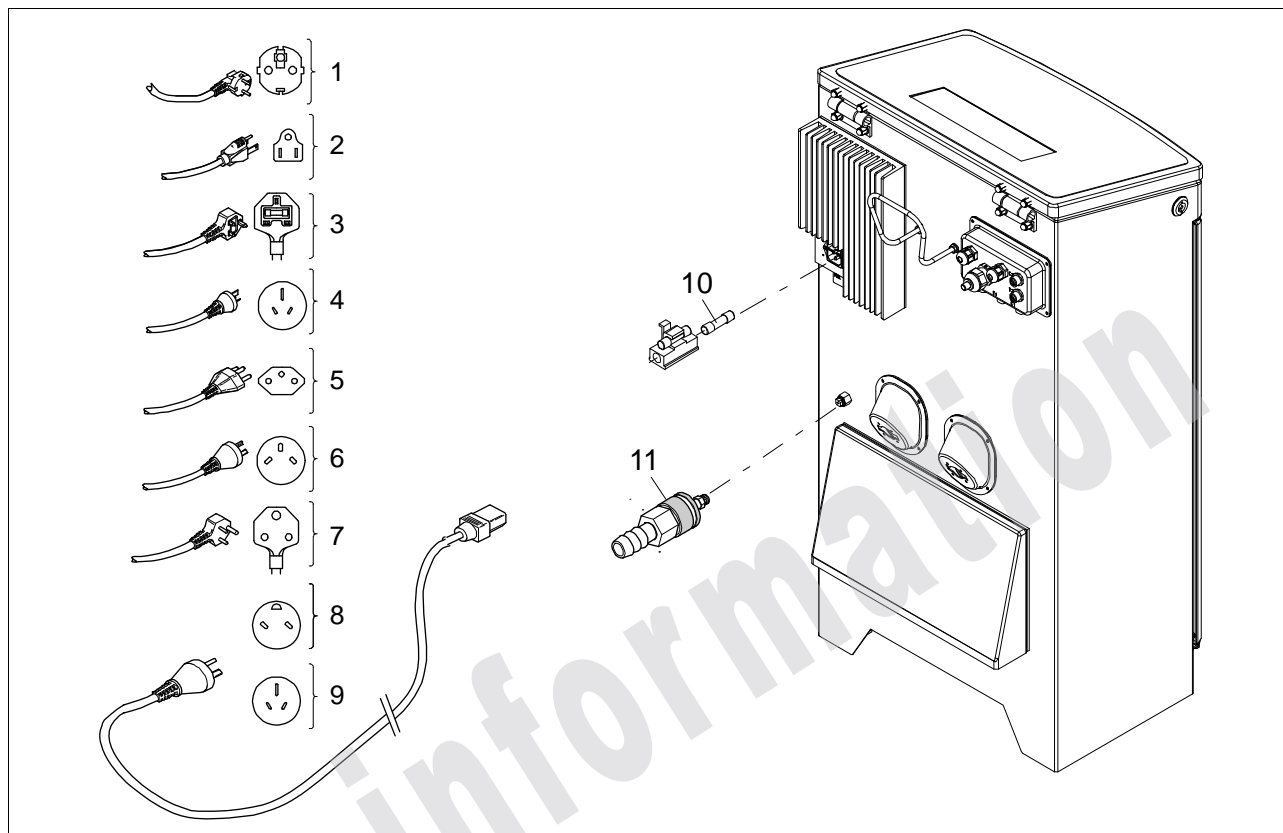
Item	Part number	Description
1	ENM36795	Air treatment unit - For 9040, 9040 _{IP65} , 9040 _{P65}
2	ENM6689	Protected Grill - Fan
3	ENM16215	Pressurization switch - For 9040 _{IP65}
4	ENM16209	Electrovalve - For 9040 _{P65}
5	ENM38028	Plant air kit - For 9040 _{Contrast}
6	A38029	Filter - 5 µm - For plant air kit ENM38028
6	A38042	Filter - 5 µm - For plant air kit ENM36796
7	ENM16203	Filter cartridge - 0.1 µm - With seal
8	ENM37084	Electrovalve - Equipped
9	ENM37083	Manometer gauge - Vacuum
10	ENM20238	seals - Torique - (x1) 10 x 1 - (x1) 5.7x1.9
11	ENM36300	Fan
12	ENM34410	Filter screen - 14 µm
12	ENM34411	Filter screen - 32 µm - For 9040 _{Contrast}



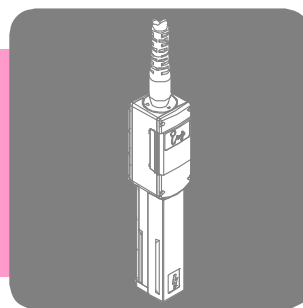
Cabinet

■ Rear view

Part number



Item	Part number	Description
1	A35319	Power cord kit - CEE standard
2	A35320	Power cord kit - US standard
3	A35321	Power cord kit - UK standard
4	A35322	Power cord kit - Oceanic standard
5	A35323	Power cord kit - Israeli standard
6	A35324	Power cord kit - Swiss standard
7	A35325	Power cord kit - India & South African standard
8	A35326	Power cord kit - Danish standard
9	A35327	Power cord kit - Chinese standard
10	ENM5393	Fuse (x10) - 4A - Slow blow
11	A16566	Connector - Plant air - 1/8G male - 1/4 female - With connector barbed



Print module

For information

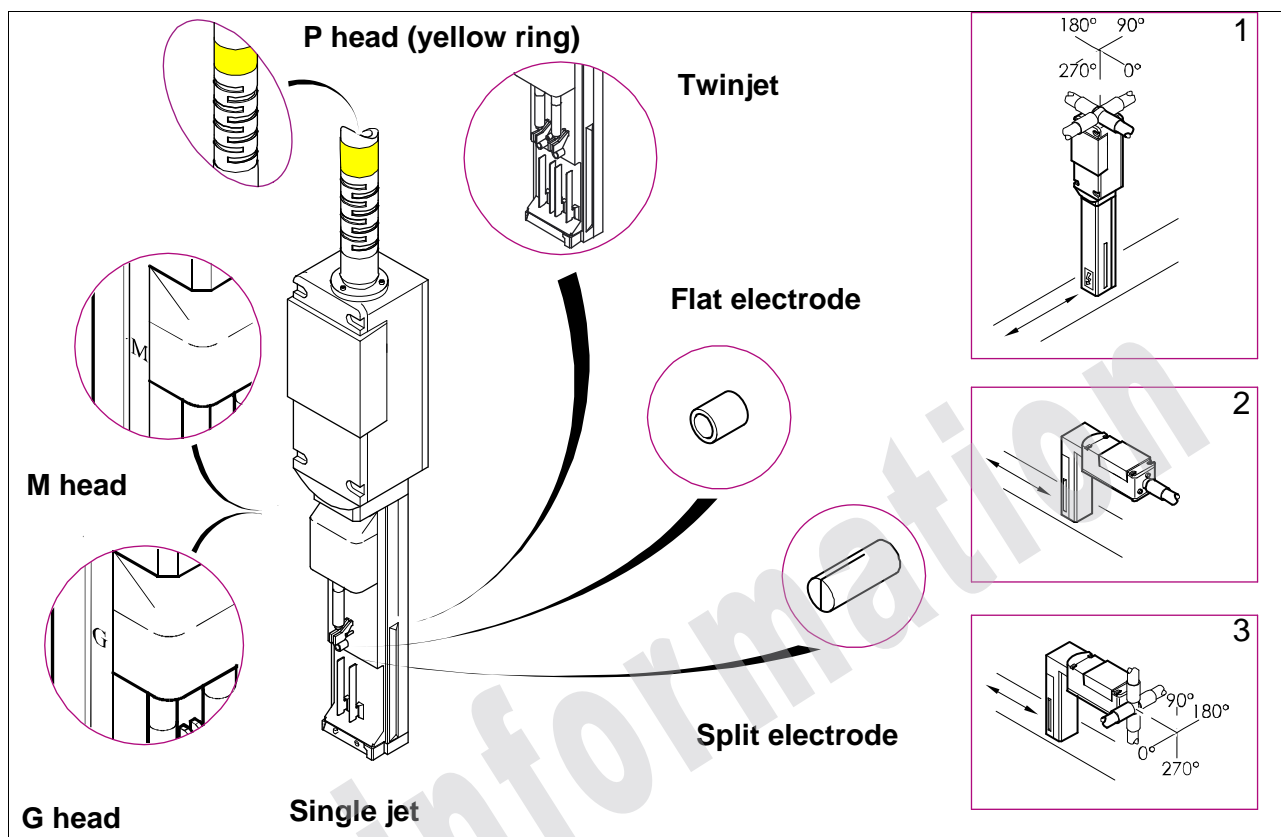


For information



Print module

■ 9040 - 9040_{IP65} - General view

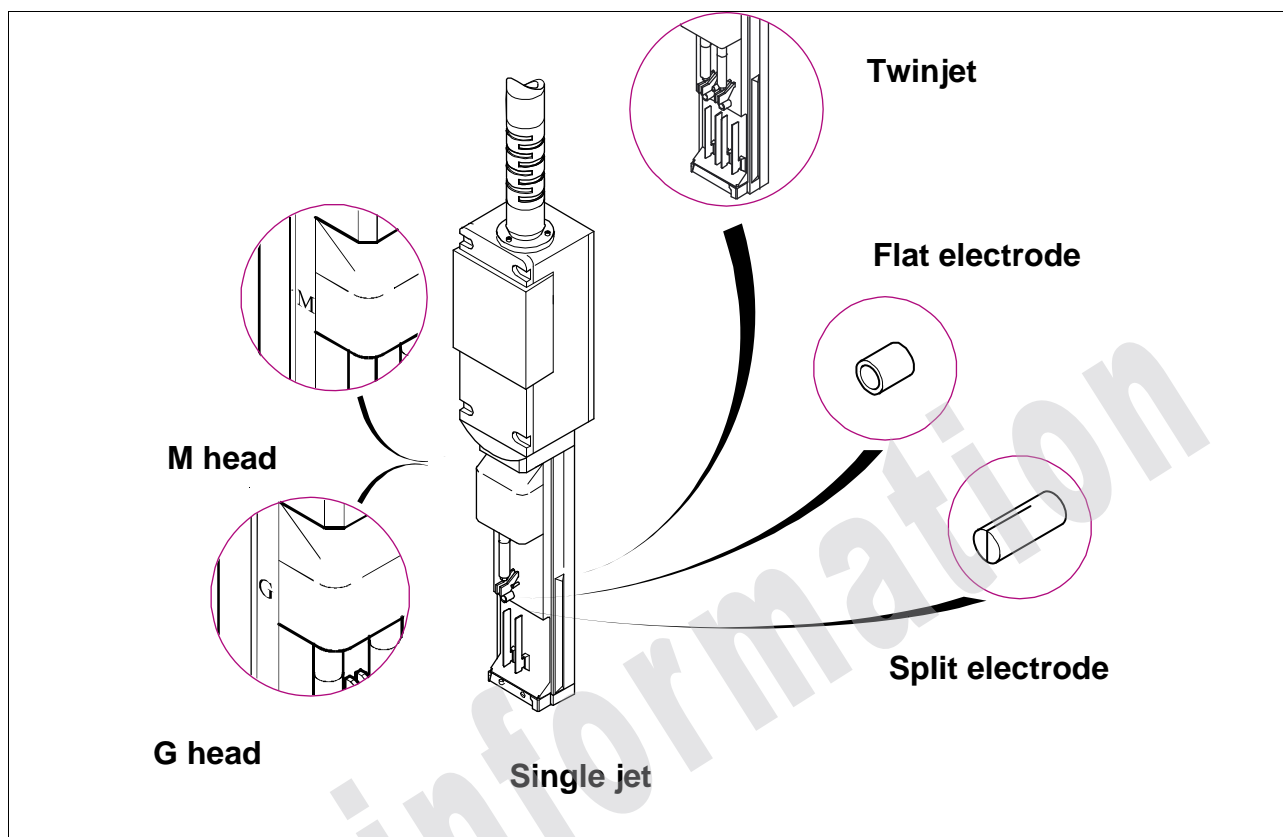


Item	Part number	Description
Pour 9040, 9040_{IP65}		
	ENM35370 (ENR35370)	Print module - Single jet - G head - 3 m - Flat electrode
	ENM35372 (ENR35372)	Print module - Twinjet - G head - 3 m - Flat electrode
	ENM35374 (ENR35374)	Print module - Single jet - G head - 5 m - Flat electrode
	ENM37085 (ENR37085)	Print module - Twinjet - G head - 5 m - Flat electrode
	ENM35373 (ENR35373)	Print module - Single jet - G head - 8.35 m - Flat electrode
	ENM37086 (ENR37086)	Print module - Twinjet - G head - 8.35 m - Flat electrode
	ENM35371 (ENR35371)	Print module - Single jet - M head - 3 m - Split electrode
	ENM36399 (ENR36399)	Print module - Single Jet - M head - 5 m - Split electrode
	ENM36400 (ENR36400)	Print module - Twinjet - M head - 3 m - Split electrode
	ENM35375 (ENR35375)	Print module - Single jet - P head - 3 m - Split electrode
Options • Specify the conduit angle : 0° or 90° or 180° or 270°.		
1	A23919 •	Option - 5 m angled conduit - G head
2	EN6266 •	Option - Angled head - 3 m, 5 m, 8.35 m - G and M head
3	A23919 • + EN6266	Option - 5 m angled conduit - Angled head
	A37432	Option - Flat electrode - Single jet - M head for 5139 ink
	A37433	Option - Flat electrode - Twinjet - M head for 5139 ink




Print module

■ 9040 Contrast - 9040 s - General view



Item	Part number	Description
For 9040 Contrast printer		
	ENM36868 (ENR36868)	Print module - Single jet - G head - 3 m - Flat electrode
	ENM36869 (ENR36869)	Print module - Twinjet - G head - 3 m - Flat electrode
	ENM36870 (ENR36870)	Print module - Single jet - M head - 3 m - Split electrode
	ENM36871 (ENR36871)	Print module - Twinjet - M head - 3 m - Split electrode
For 9040 s printer		
	ENM36872 (ENR36872)	Print module - Twinjet - M head - 3 m

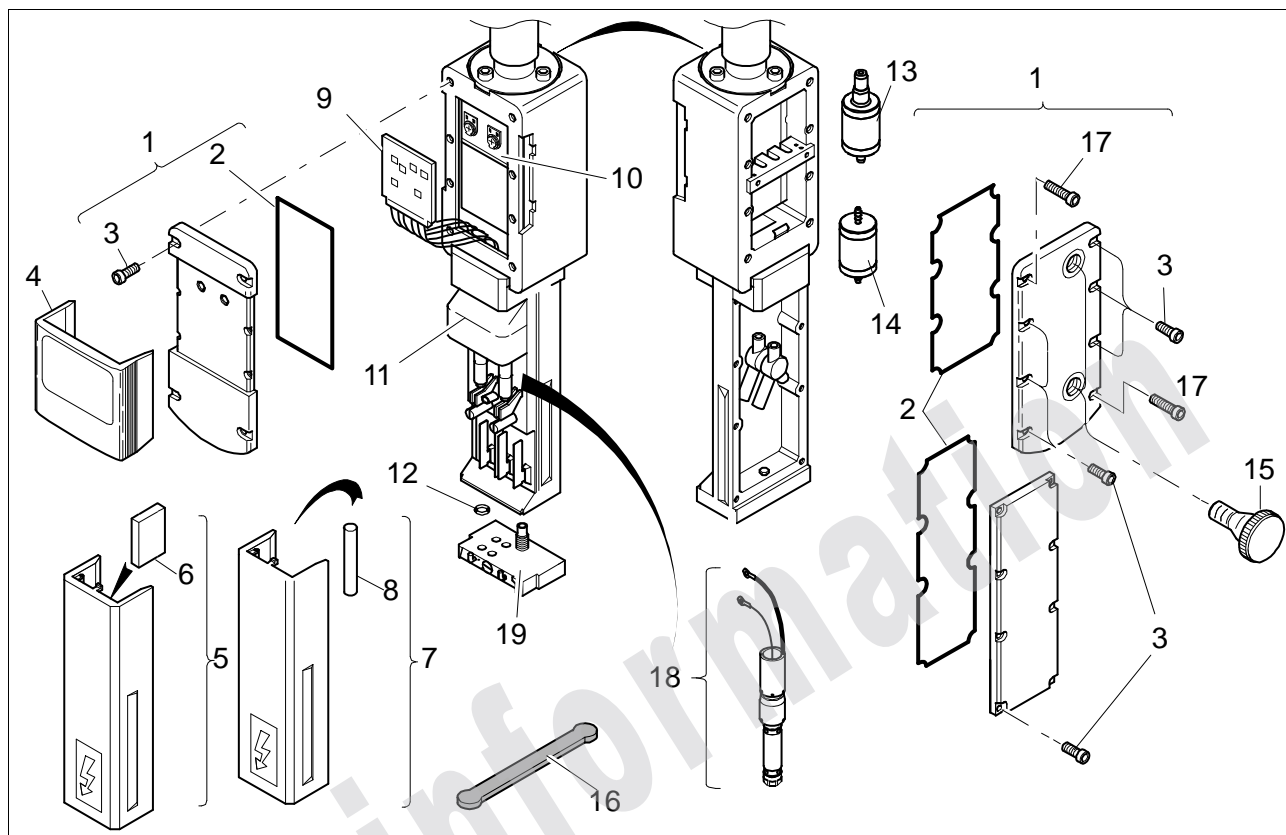
NOTE: When ordering a print module, please specify the part number of the ink used.

* See part Exchange Program in « How to use this catalog » 

Print module



■ Exploded view (1/2)

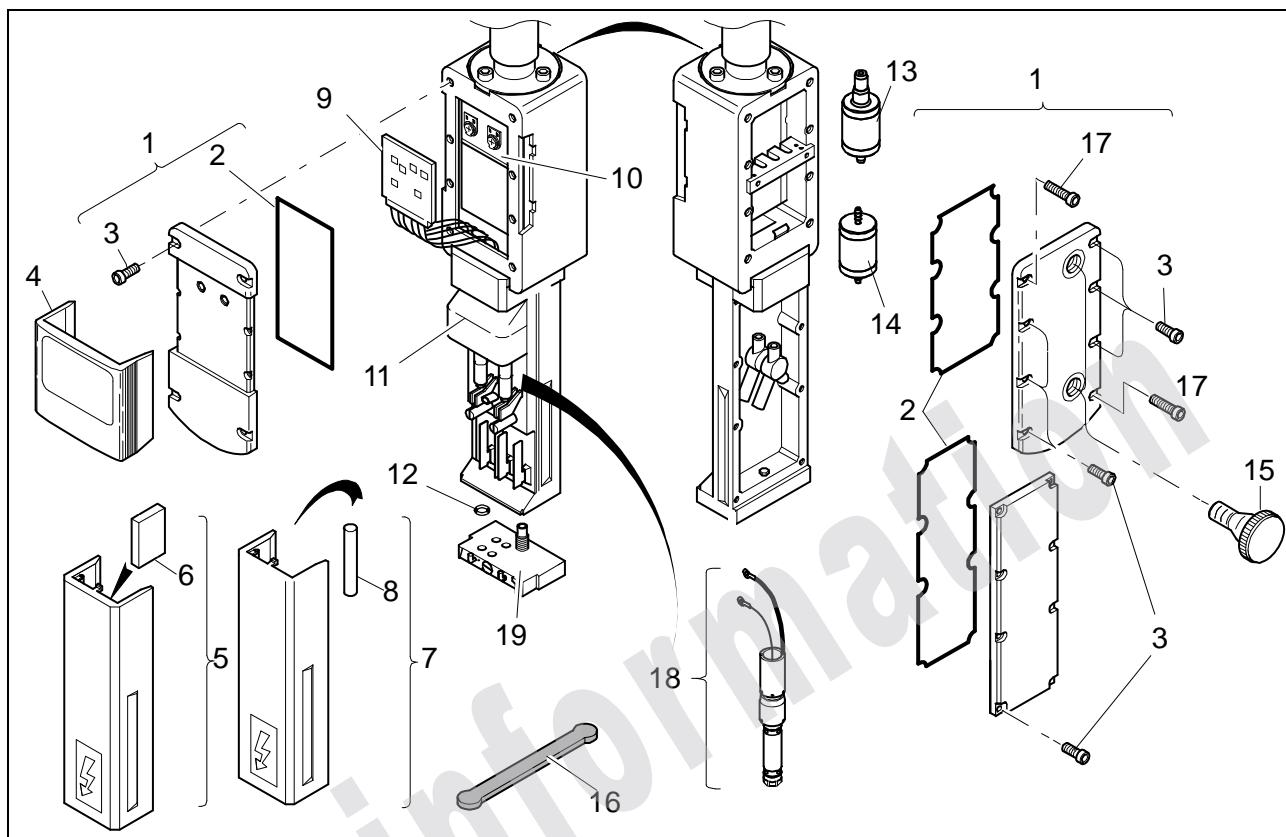


Item	Part number	Description
1	ENM6180	Cover - Complete (front cover + 2 rear covers, seals and screws)
2	ENM6179	Seal (x3) - (1 front seal + 2 rear seals)
3	ENM6588	Screw (x10) - Stainless steel - Chc M2 x 6
4	ENM36807	Top cover
5	ENM15885	Head cover - G head - Head with flat electrode
5	ENM15886	Head cover - M head - Head with flat electrode
6	ENM16713	Magnet - Squarre - 10 x 10
7	ENM5257	Head cover - Head with split electrode
8	ENM6930	Magnet (x10) - Cylindrical
9	ENM6007	Board - Phase detection amplification
10	ENM37054	Board - Resonator supply - Single jet
10	ENM37055	Board - Resonator supply - Twinjet
11	ENM6405	Protector - Resonator
12	ENM5673	Seal - O'ring - 3.2 x 0.5
13	ENM36316	Valve - One way - For Twinjet + 8.35 m
14	ENM35300	Valve - One way - Not for Twinjet and 8.35 m
15	ENM6206	Screw (x 10) - Knurled - Aluminium - M6

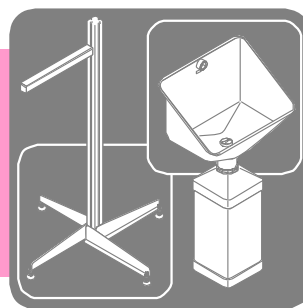
Print module



■ Exploded view (2/2)

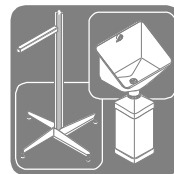


Item	Part number	Description
16	ENM17357	Protector - Anti-clogging (x 3) - G head
16	ENM17358	Protector - Anti-clogging (x 3) - M head
16	ENM17568	Protector - Anti-clogging (x 3) - P head
17	ENM4345	Screw (x 10) - Stainless steel - Chc M2 x 8
18	ENM37519	Modulation assembly - G head
18	ENM37521	Modulation assembly - M head
18	ENM37526	Modulation assembly - P head
For 9040, 9040^{IP65} printer		
19	ENM5263	Gutter block - Single jet - For M and G heads
19	ENM7570	Gutter block - Single jet - For P head
19	ENM5261	Gutter block - Twinjet - For M and G head
For 9040^{Contrast} printer		
19	ENM7570	Gutter block - Single jet - For M and G head
19	ENM7571	Gutter block - Twinjet - For M and G head
For 9040^s printer		
19	ENM28208	Gutter block - Twinjet - For M head



Accessories

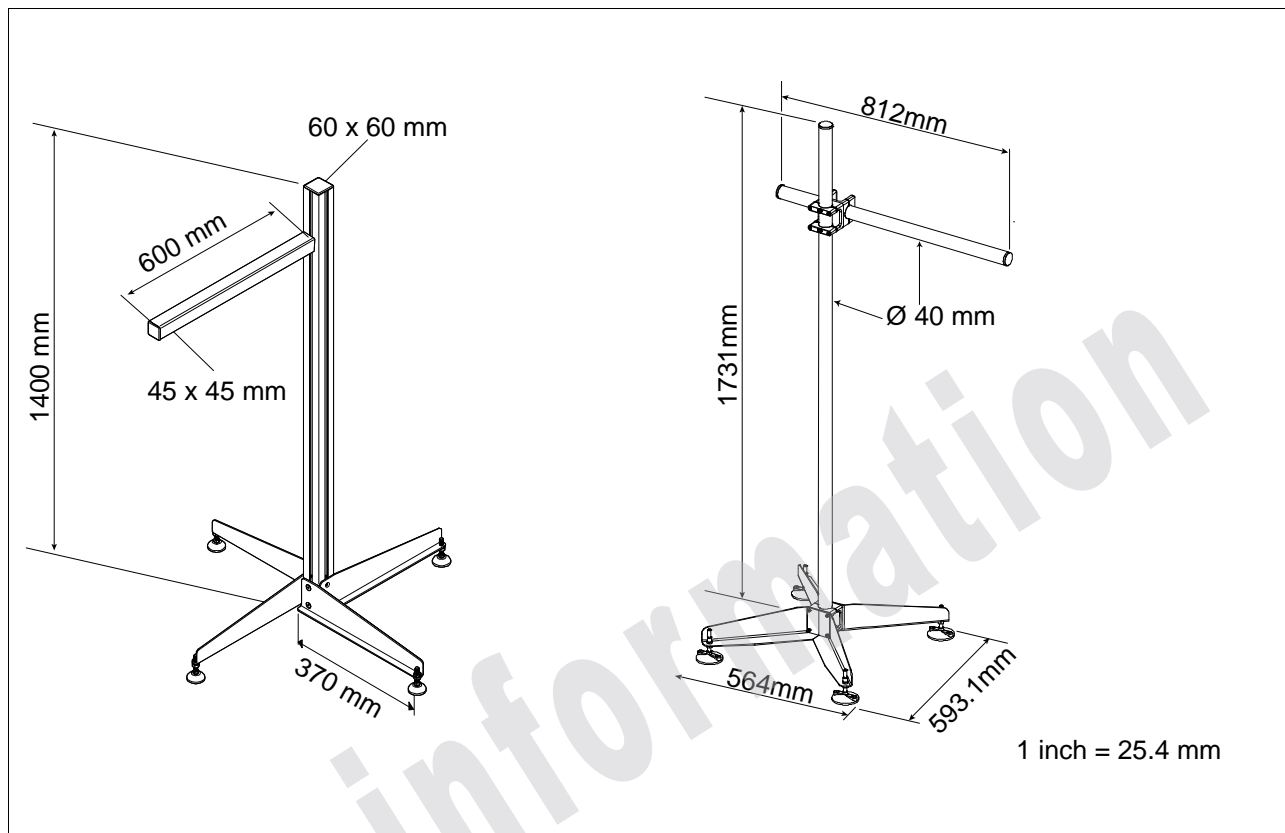
For information



Accessories

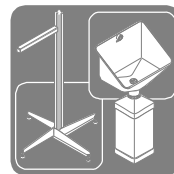
■ Basic stand

Space plan



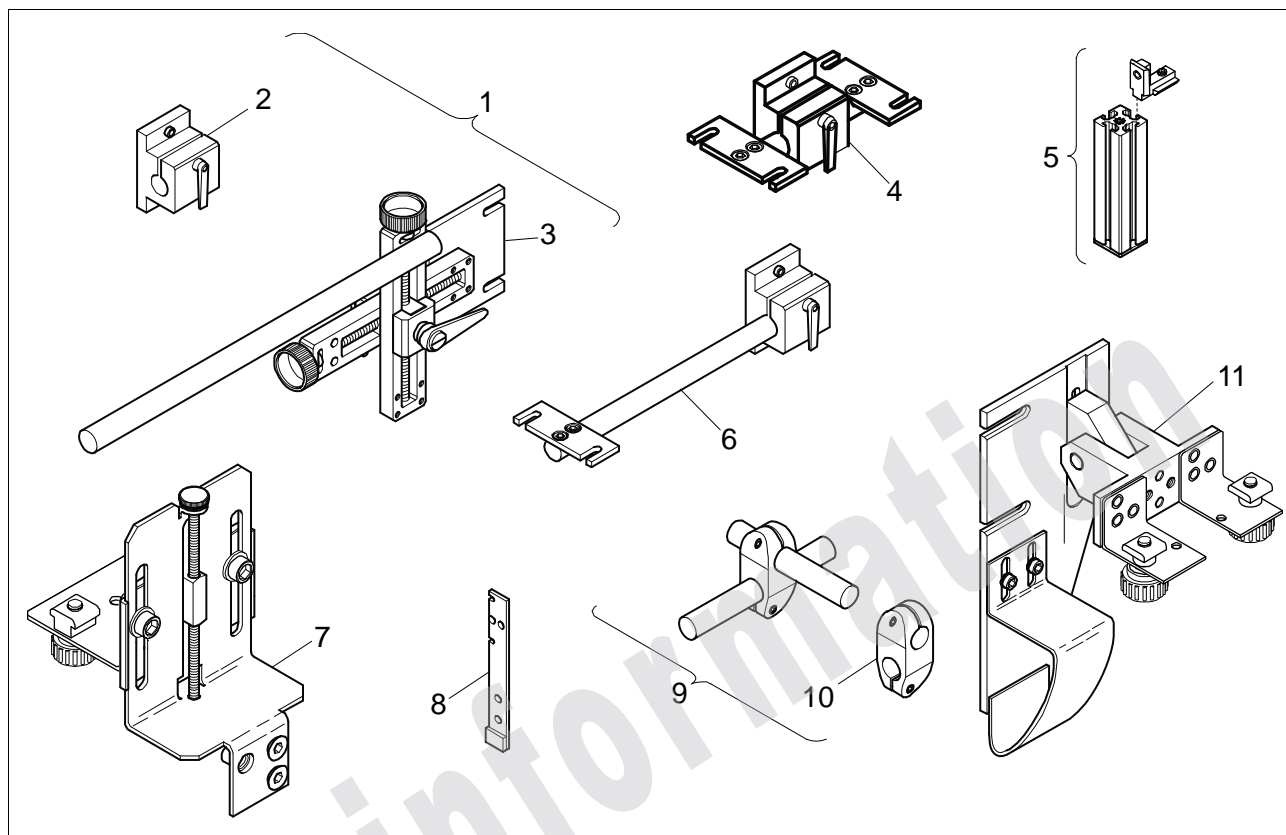
This diagram illustrates the assembly of the 360° rotating stand. The main components are labeled with numbers 1 through 11. The assembly includes a base (1) with four legs, a central column (2), and a horizontal arm (3). A funnel (4) is attached to the column. A bracket (5) is used to secure the funnel. A handle (6) is attached to the base. A bracket (7) is used to secure the handle. A bracket (8) is used to secure the arm. A bracket (9) is used to secure the column. A bracket (10) is used to secure the funnel. A bracket (11) is used to secure the arm. A callout on the right shows the 360° rotation of the stand.

Item	Part number	Description
1	A17641	Stand - Aluminium - Complete (includes 3,4,5,6)
2	A28473	Stand - Stainless steel
3	A28453	Ground strap (x 2 m)
4	EN6450	Maintenance tray
5	EN10013	Head support - Servicing position
6	A17974	Head support - Aluminum steel stand - With rotation
7	EN5343	Fasteners and clip - Conduit
8	EN6706	Support - Ground strap
9	A34798	Mounting bracket - Head support - Servicing position
10	A28457	Mounting bracket - Maintenance tray
11	A36925	Head support - Stainless steel stand - With rotation

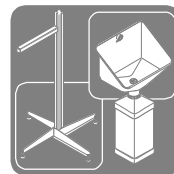


Accessories

■ Brackets

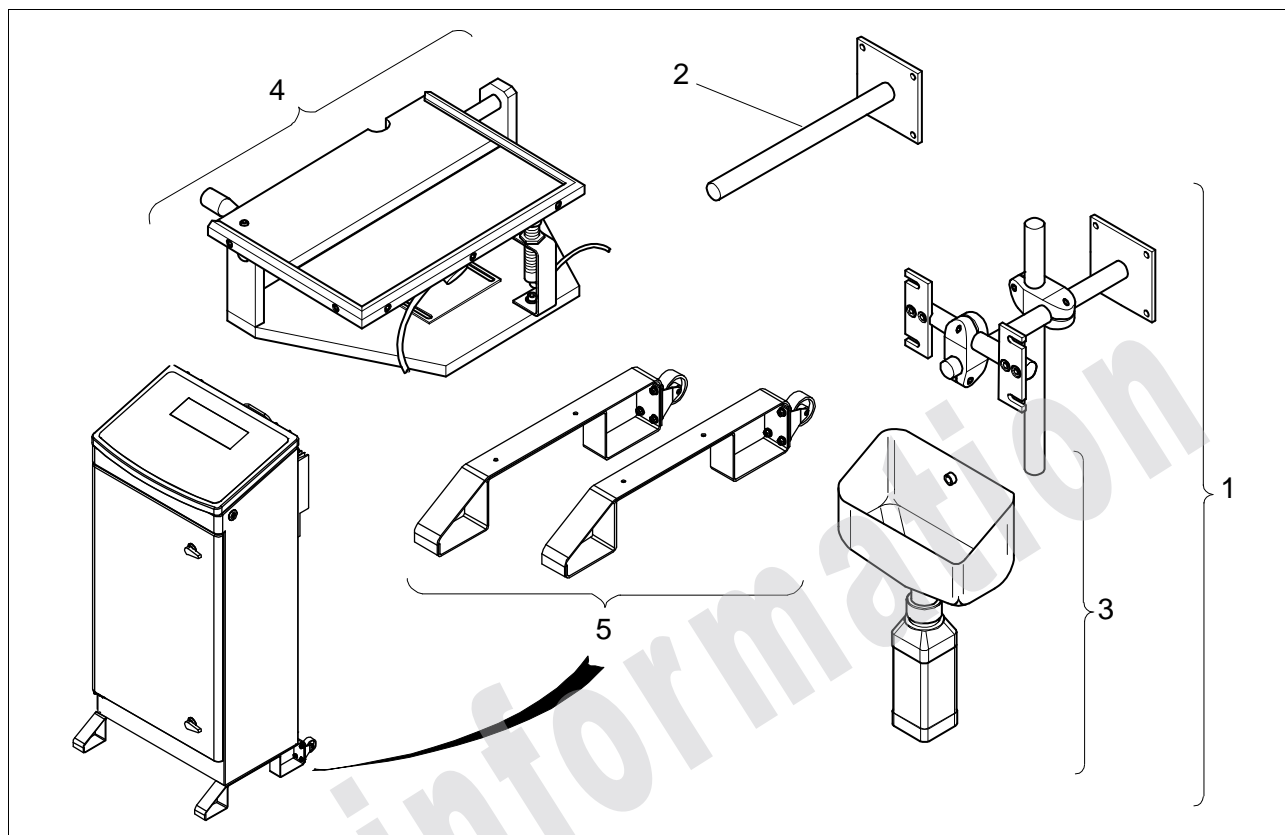


Item	Part number	Description
1	EN5915	Head mounting kit - 2 axis precision adjustment
2	EN5914	Adaptater kit - Round rod to profile
3	EN4735	Head bracket - 2 axis precision adjustment
4	EN6231	Head bracket - Angled head - Servicing position
5	A14806	Head bracket - Horizontal head
6	EN6230	Head bracket - Angled head - Fixed position
7	EN10012	Head bracket - 1 axis precision adjustment
8	ENM7329	Head bracket - Long
9	EN4768	Mounting kit - Second head
10	A11188	Nut
11	EN6637	Head bracket - Retractable

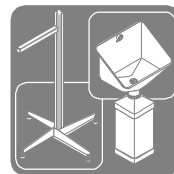


Accessories

■ Maintenance tray - Marking table



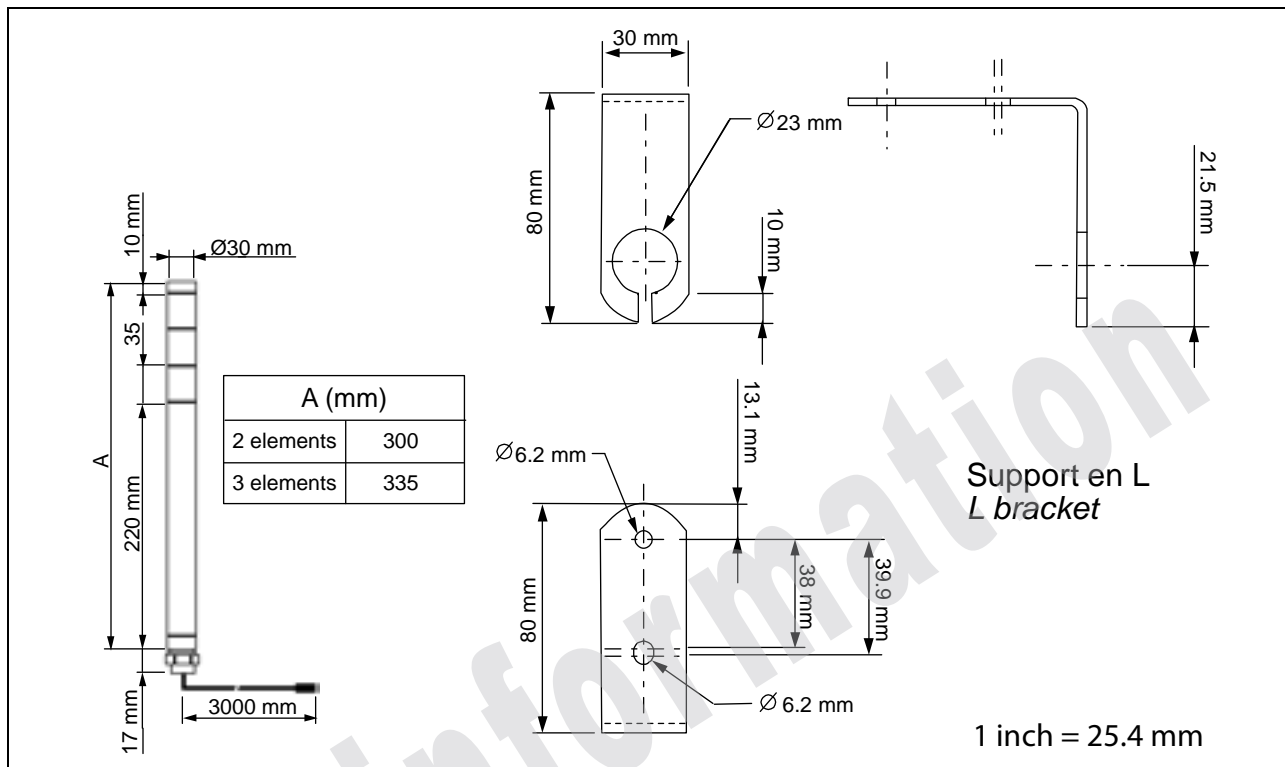
Item	Part number	Description
1	EN6163	Head bracket - Wall - Servicing position
2	ST1123	Bracket - Wall
3	EN6450	Maintenance tray
4	EN6051	Marking table
5	A37431	Stability kit - Trolley



Accessories

■ Alarm lights

Dimensions

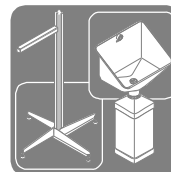


Technical specifications

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

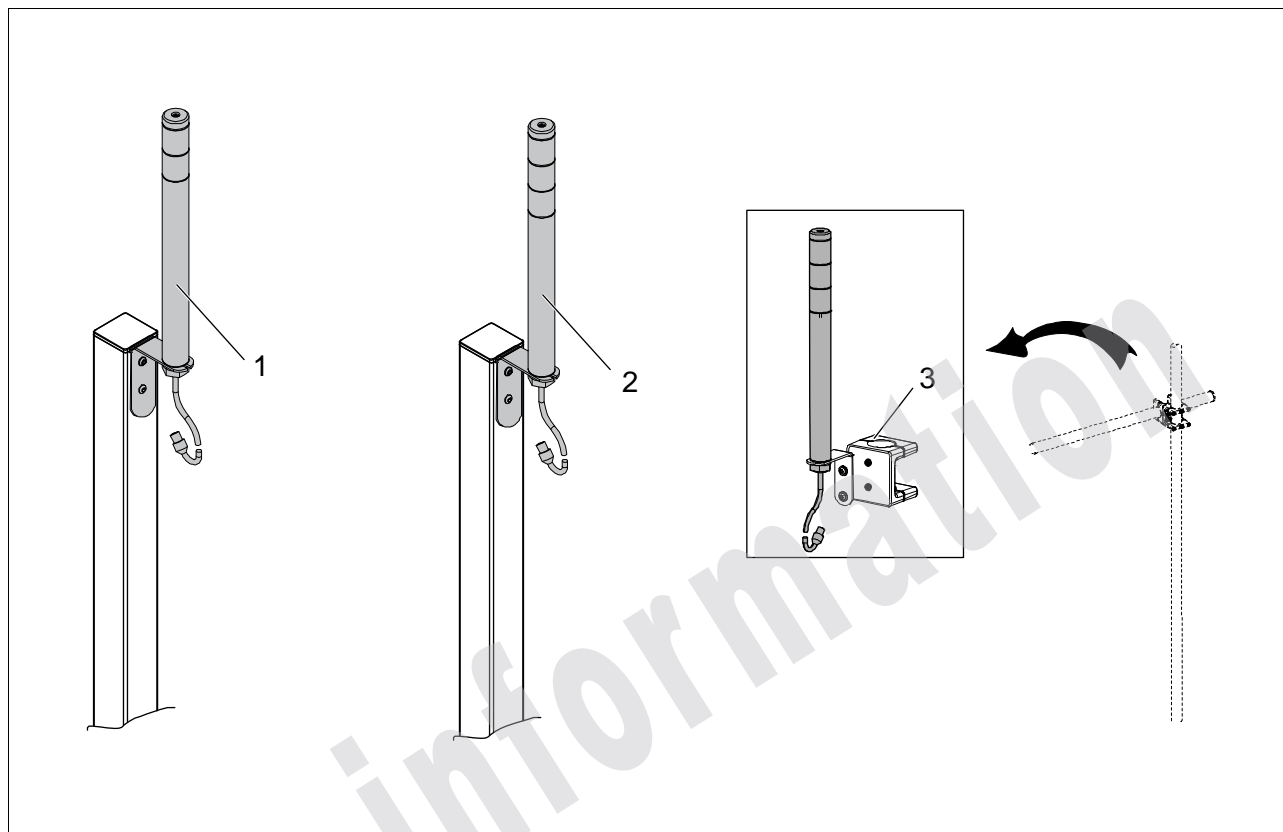
External contact capacity

LED module [1-light]	Current consumption	Red - orange: 30mA / Green - blue - white: 25mA
	Contact capacity	$I_s \geq 50$ mA $V_s \geq 35$ VAC
Supply	Current consumption	200mA (MAX)
	Contact capacity	$I_s \geq 200$ mA $V_s \geq 35$ VAC

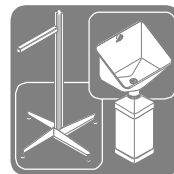


Accessories

Part number



Ite	Part number	Description
1	A34791	Alarm - Illuminated - 24V - 2 elements (Red / Orange)
2	A34792	Alarm - Illuminated - 24V - 3 elements (Red / Green / Orange)
3	A28466	Bracket - Alarm

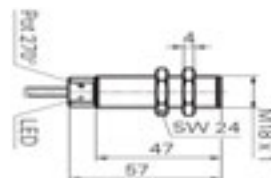


Accessories

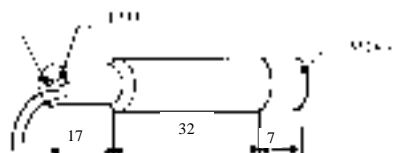
■ Photocells

Dimensions

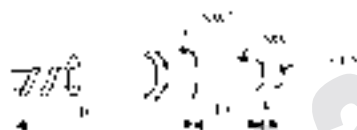
Reflex photocell



Proximity photocell



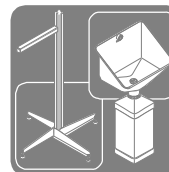
Fiber optic



Unit : mm
1inch = 25.4 mm

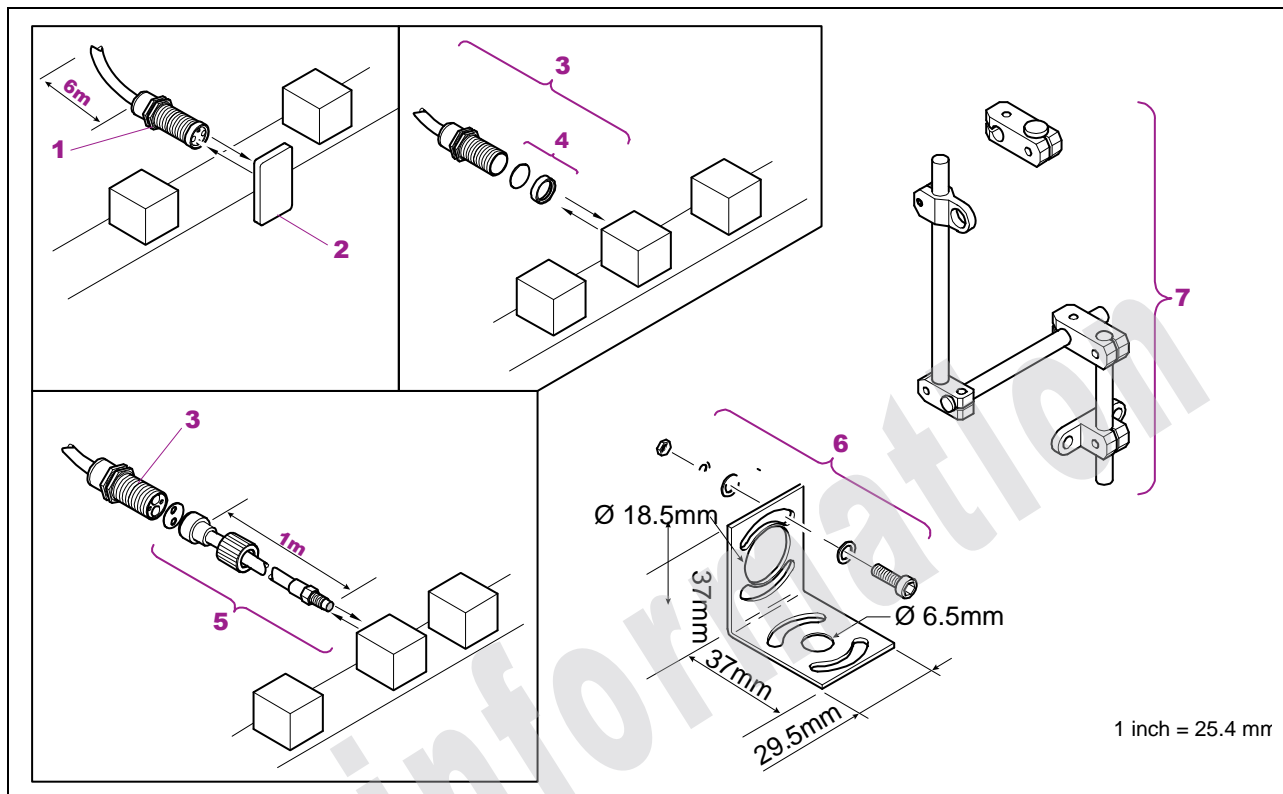
Technical specifications

	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	
Current 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 lenght	6 m	6 m	Fiber = 1 m
Case material	Nickel plated brass	Nickel plated brass	Chrom plated 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

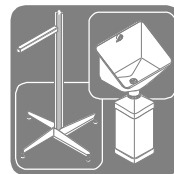


Accessories

Part number



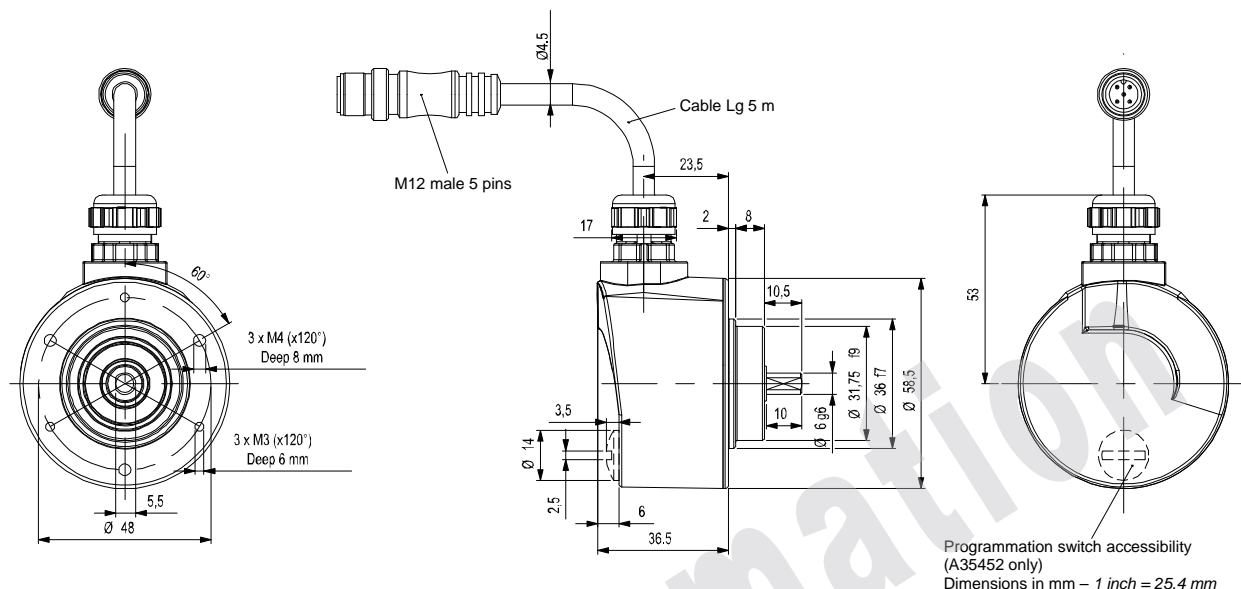
Item	Part number	Description
1	A35433	Photocell - Reflex - With connector
2	A16540	Reflector
3	A35355	Photocell - Proximity - With connector
4	A16541	Glass protector
5	A16470	Optical cable (used with proximity photocell)
6	A16538	Mounting bracket - Photocell/optical cable
7	A16539	Support - Photocell



Accessories

■ Shaft encoders

Dimensions



Mechanical specifications

Material

Cover : zinc alloy

Body: aluminium

Shaft : Stainless steel

Maximal loads

Axial : 40 N

Radial : 60 N

Acceleration

Max $1.10^5 \text{ rad.s}^{-2}$

Continuous speed

Max 6000 tr/min (rpm)

Weight

300 g

Relative humidity

95 % (without condensation)

IP (EN 60529)

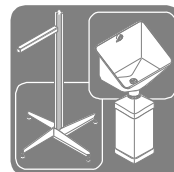
IP 65

Cable length

5 m

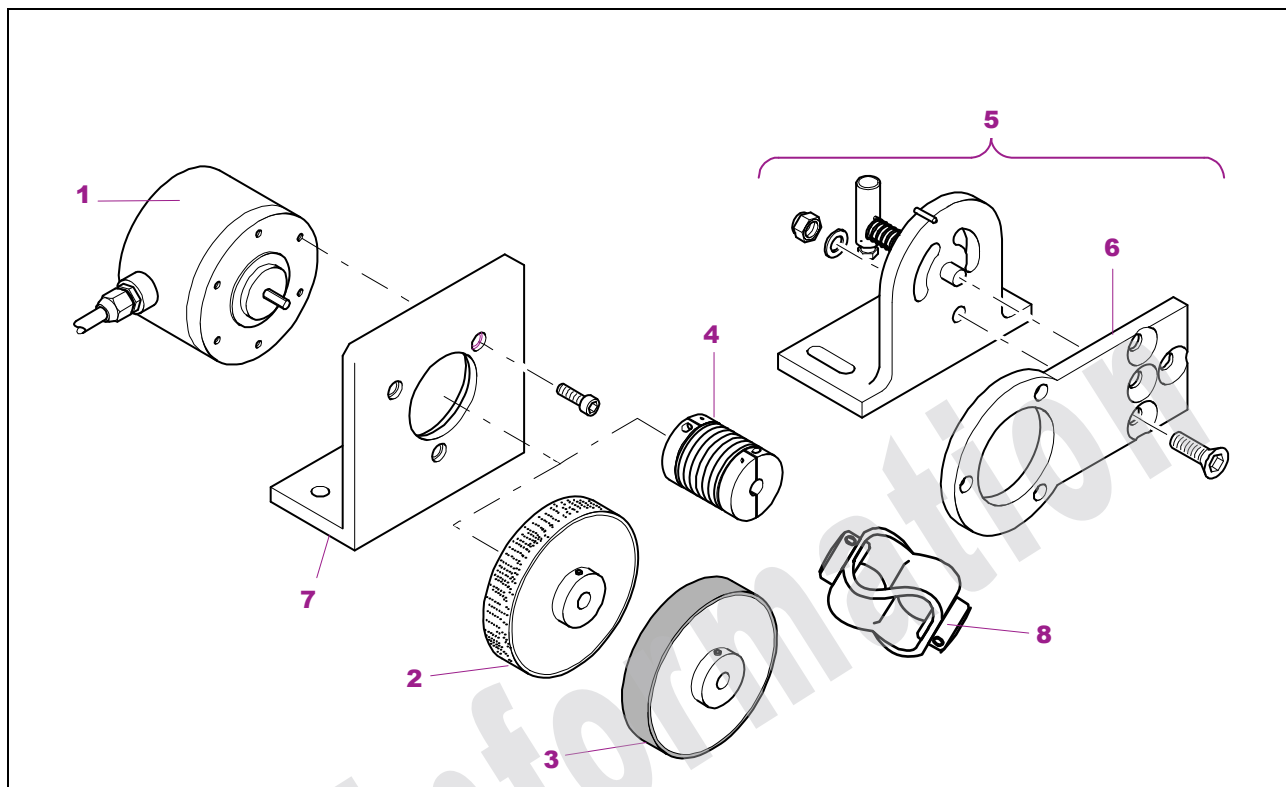
Electrical specifications

	A35356	A35452
Supply	10 to 30 VDC	10 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	-20°C to +70°C	-20°C to +70°C
Resolution	5000 pulses/rev	2500 to 40000 pulses/rev

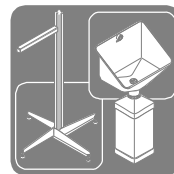


Accessories

Part number



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
8	A38388	Flexible coupling



Accessories

■ Anti-static brush, air blade kit

Anti-static brush

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.

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

The air blade is used to dry:

- The substrate prior to printing,
- The ink after to printing.

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).

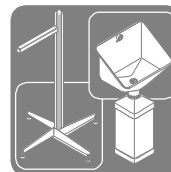
The air blade kit includes the blade, filters and a bar to remove the head and couplings necessary for installation.

The connector on the kit's inlet is ½" G female or ½" BSP 10 mm.

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

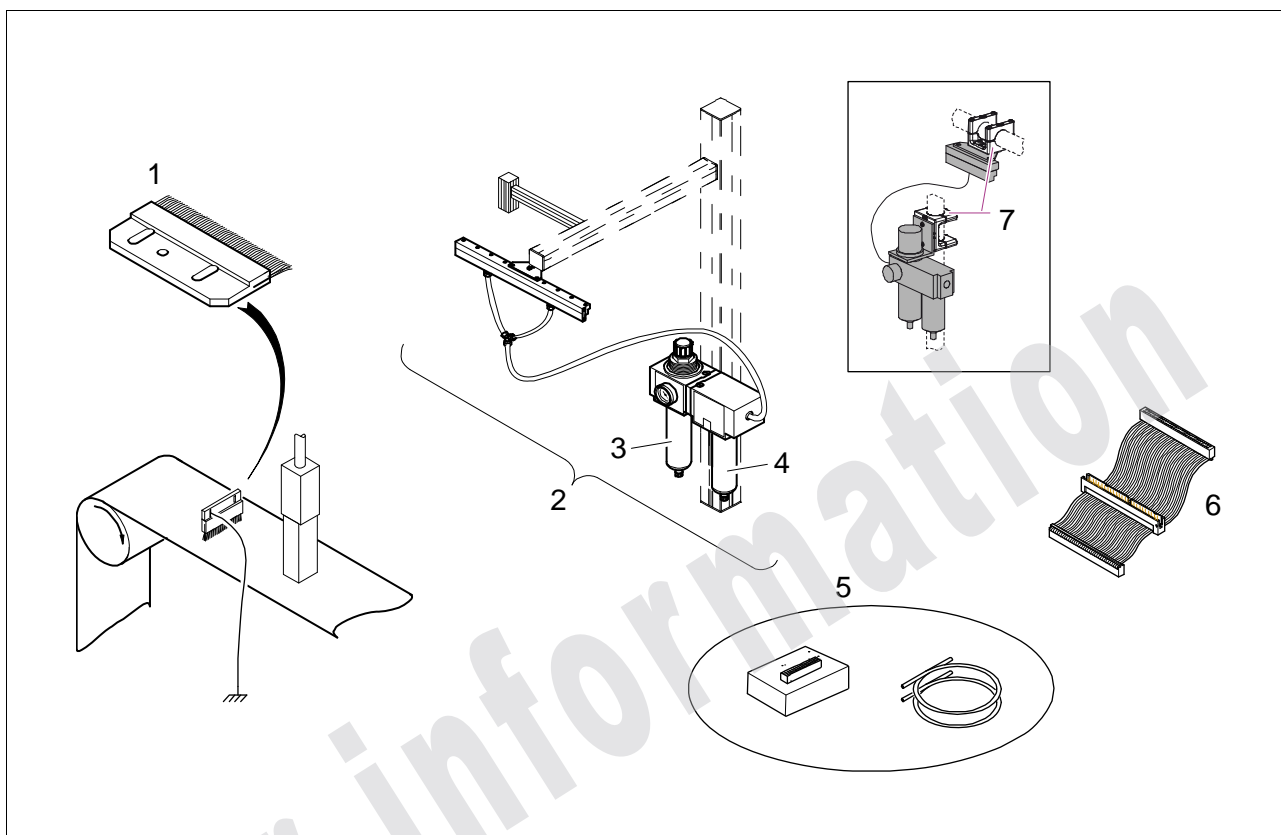
Check your plant air for the following characteristics:

- 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)
- 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 ounce of water/cubic foot), 1PPM of oil and size of particle <5 µm.

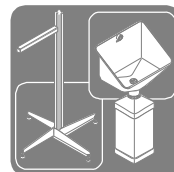


Accessories

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	ENM6327	Flushing tool
6	A13776	Ribbon cable - Drain adaptor - For 9040, 9040 <small>res</small> , 9040 <small>sl</small>
7	A34371	Mounting kit – Air blade kit



Accessories

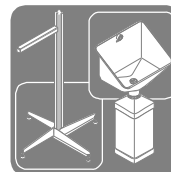
■ Marking pistol

Technical specifications

Dimensions	300 x 167 x 200 mm		
Weight	2 kg including head		
Functional temperature	Between 5°C and 35°C		
Duration of complete cycle	2 s		
Duration of useful cycle	1,2 s		
Total course	70 mm		
Useful course (at constant speed)	65 mm		

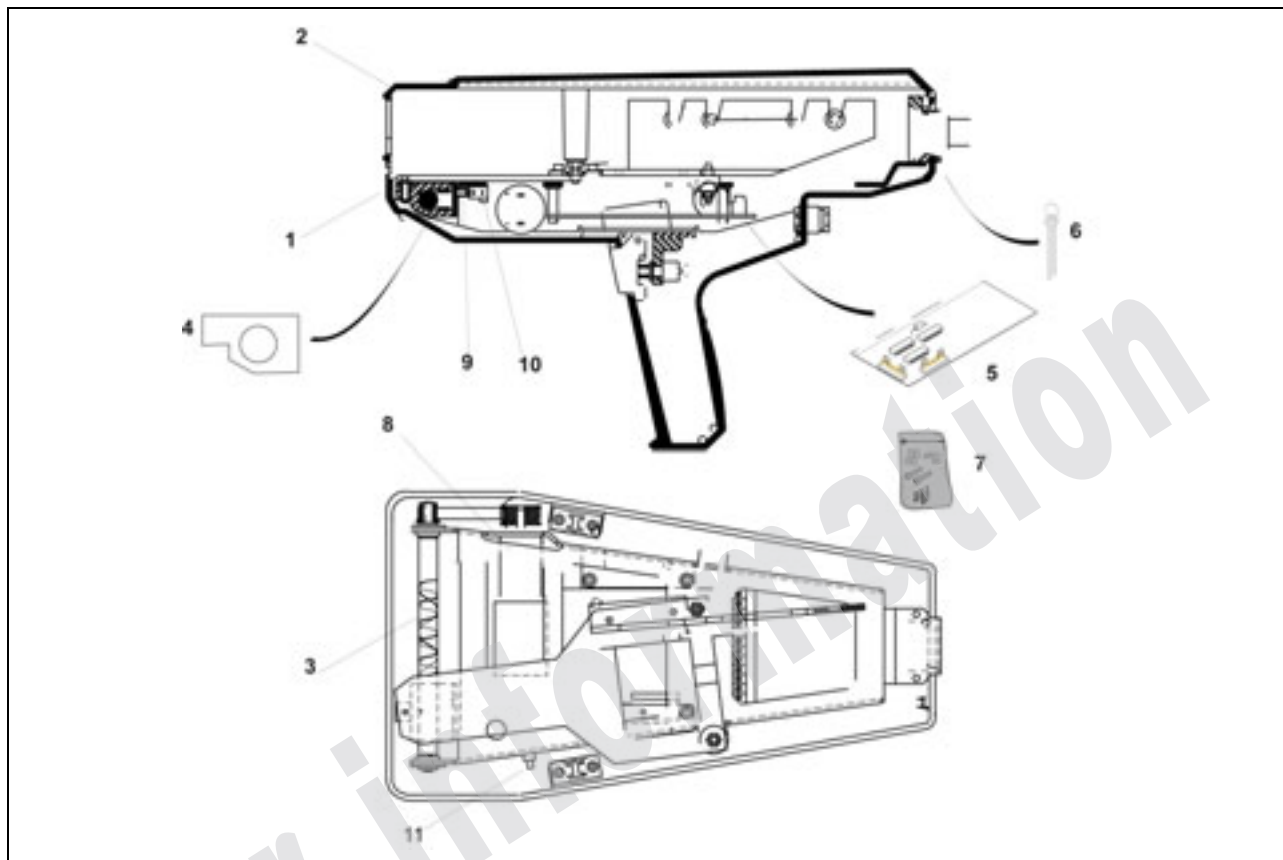
Electrical specifications

Supply:	MIN	NOM	MAX
Voltage	15 V	24 V	30 V
Off-line current	-	-	1 mA
Current	-	200 mA	250 mA
Command:			
Mechanical contact in trigger			
Voltage level (for R7 = 1,5 KΩ)	-	26 V	40 V
Current	-	16 mA	25 mA
Pulse width	1 ms		
Output:			
Detect/object/top			
Voltage	-	-	50 V
Current	-	15-25 mA	500 mA
LED visualisation of cycle time:			
Current	-	20 mA	-

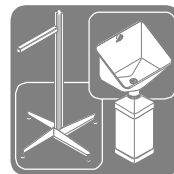


Accessories

Part number

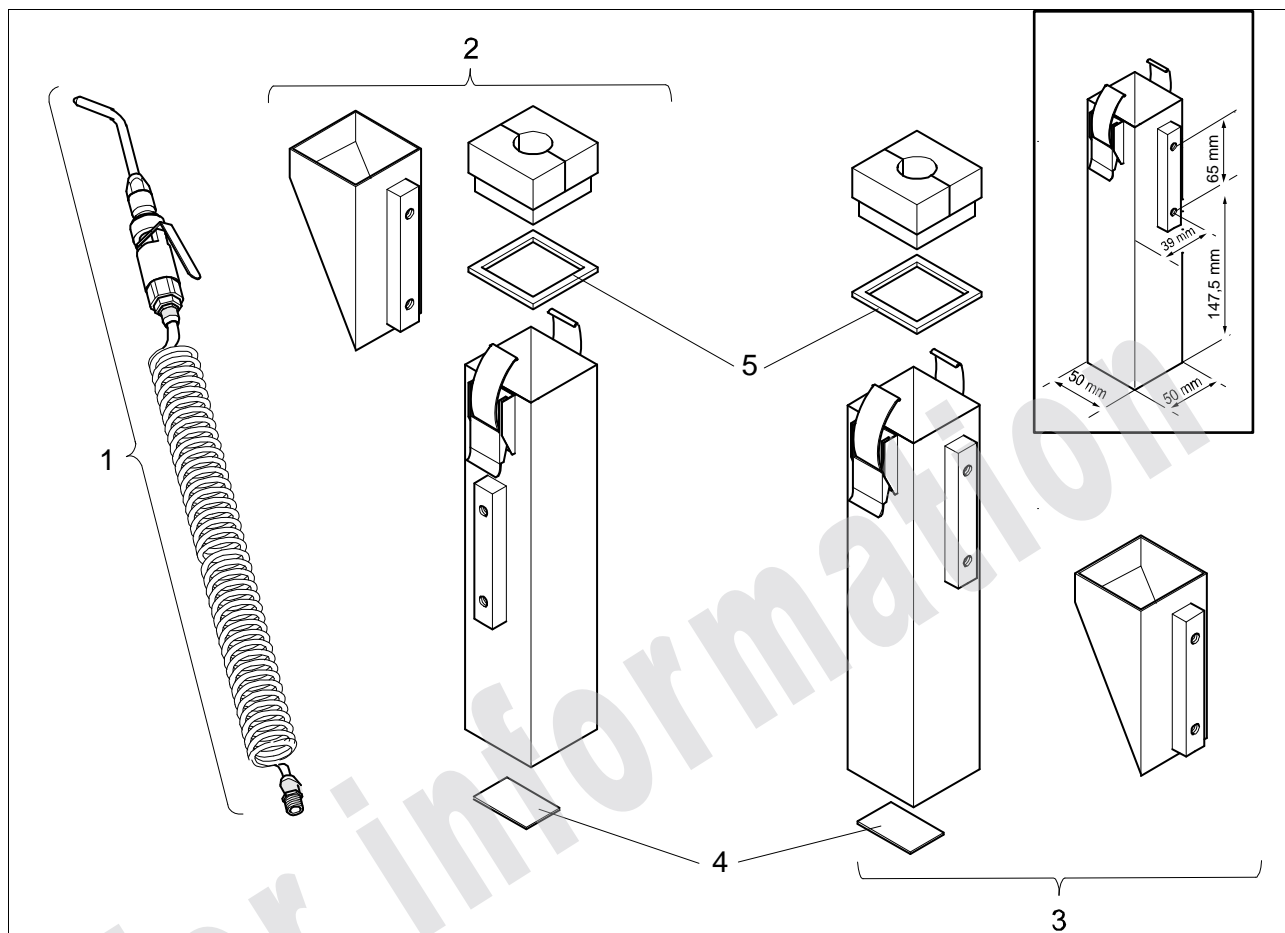


Item	Part number	Description
	EN6031	Marking pistol - Equipped
1	ENM4925	Lower Cover
2	ENM6014	Upper Cover
3	ENM4930	Leadscrew - Equipped
4	ENM4946	Chariot - Equipped
5	ENM4879	Board - Command
6	ENM10000	LED (X4)
7	ENM10001	Mechanical kit
8	A11285	Motorreductor - 12 V
9	ENM6680	Mountings tongue (X5)
10	ENM6681	Microswitches (X5) - End of travel
11	ENM6682	Push-buttons (X5) - For reclosing

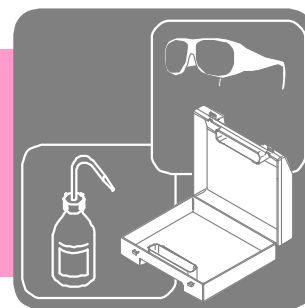


Accessories

■ Head drying kit, head protection



Item	Part number	Description
1	EN7696	Drying kit - Head
2	A34391	Head protection - Front mounting - With servicing sleeve
3	A16601	Head protection - Side mounting - With servicing sleeve
4	ENM16508	Magnet (x 5)
5	ENM16243	Seal



Safety parts - Tools - Options





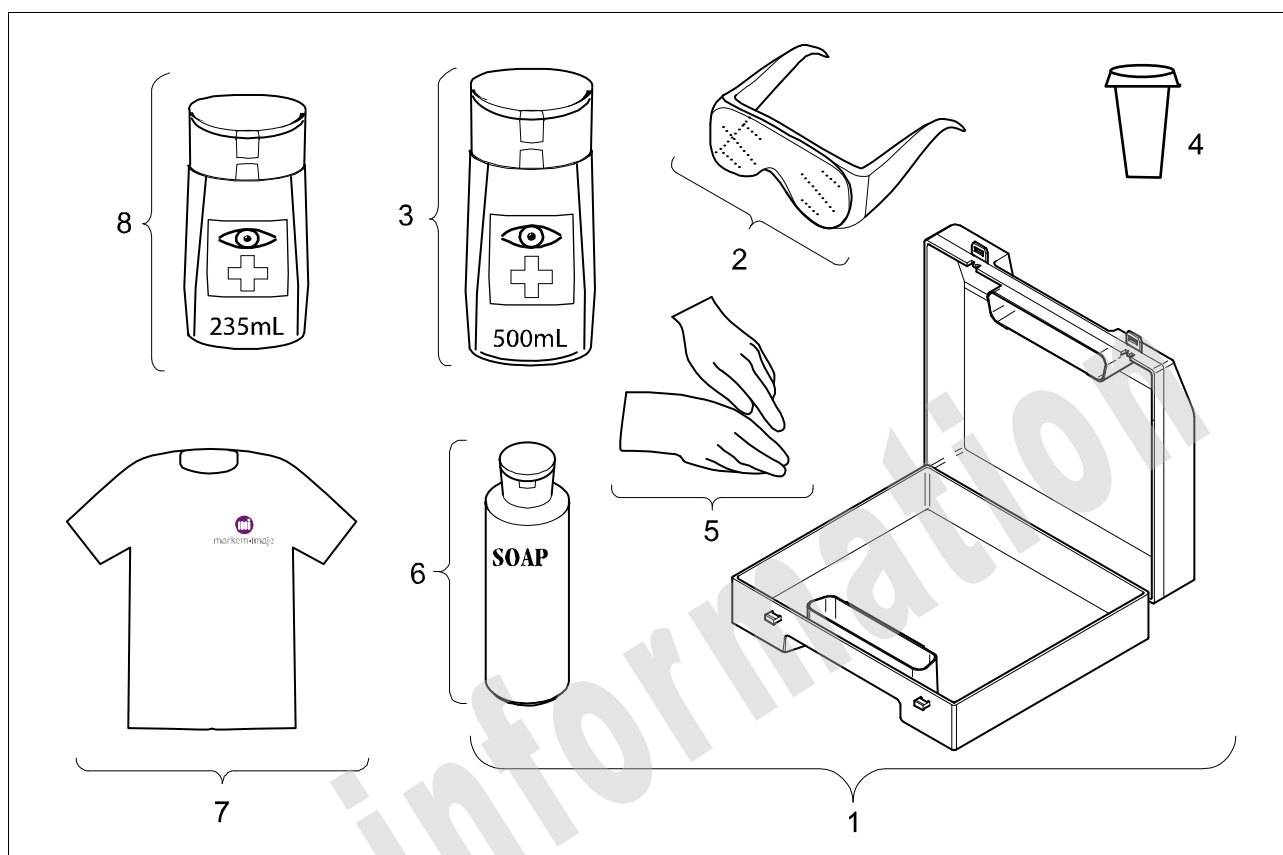
Safety parts - Tools - Options

For information



Safety parts - Tools - Options

■ Safety kit



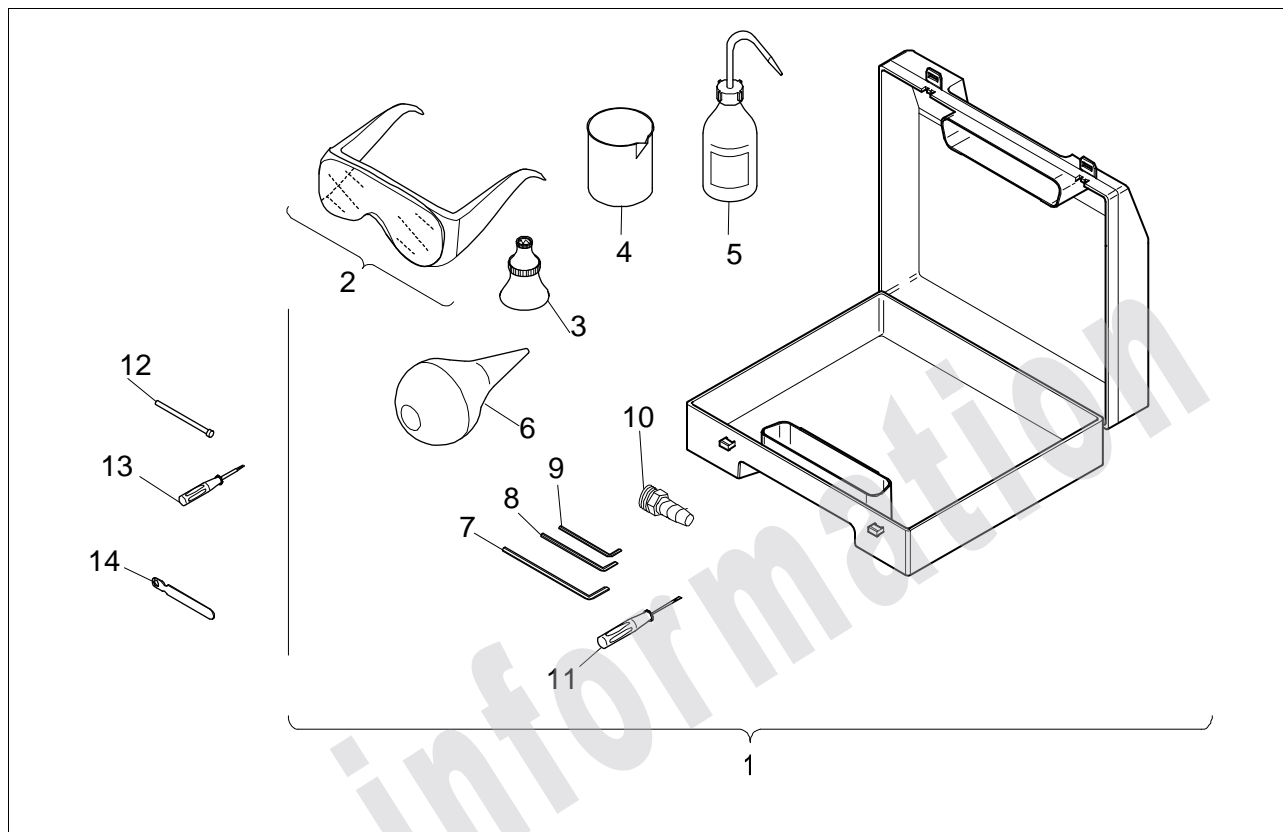
Item	Part number	Description
1	A17538	Safety kit (includes 2,3,4,5,6)
Referenced materials in the safety kit may be ordered separately		
2	A17955	Safety glasses
3	A38254	Eye wash - Hand held - 500 mL
4		Eye - Cup - Individual
5	ENM4491	Gloves (x 20) - Latex
6		Hand cleaner - Liquid - 125 ml
7	A20872	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



Safety parts - Tools - Options

■ 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



Safety parts - Tools - Options

Options

Description

9040 printers offer specific operating modes which can be obtained by selecting options. The performance of 9040 printers may be increased by adding options.

1 - Message selection option

Changes the message to be printed via a parallel interface. This option requires the parallel interface option.

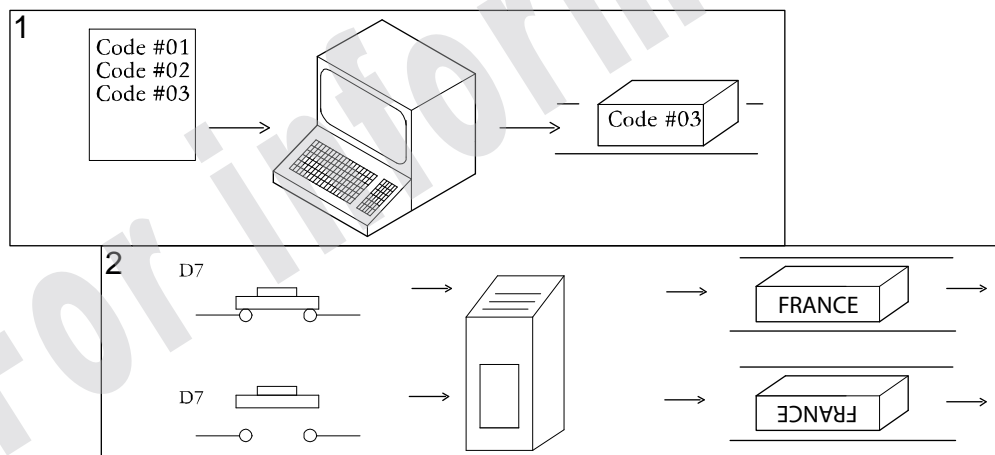
The printer automatically selects the next message in the library and then prints it.

2 - Message inversion option

The "D7" input on the industrial interface is used as a reverse direction command for the message. This option requires the parallel interface.

Installation

Your Markem-Imaje representative will install the options on your printer.



Item	Part number	Description
1	A16673	Option - Message selection
2	A16684	Option - Message inversion



For information



Revision

■ Catalog 9040

Mod. let.

- ☐ A corresponds to the first edition of this manual.
- ☐ The mod. letter changes with every modification.

Date of edition	Document mod.	Let.
10/2006	A	J05/M05
11/2006	B	J05/M05
10/2007	C	J40/M40
07/2008	D	J40/M40
12/2008	E	J40/M40

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