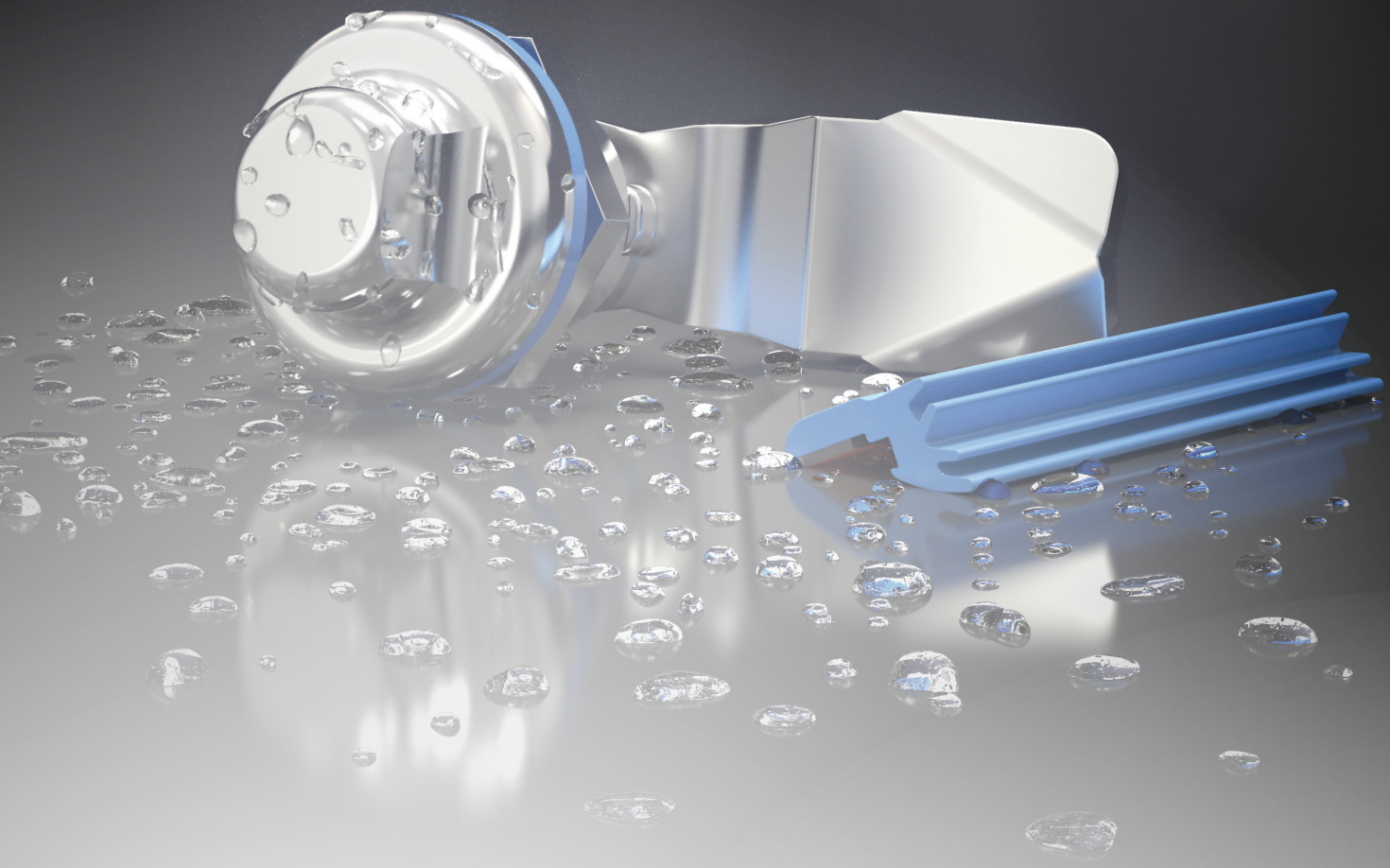
EMKA Beschlagteile

Easy to clean for good hygiene!



INGENIOUS LOCKING TECHNOLOGY

for clean and hygienic working areas

About EMKA

The EMKA Group is world market leader for locks and latches, hinges and seals used in switch and control cabinets. In the areas HVACR, transport and hygienics, EMKA is one of the leading manufacturers of locking technology.

Currently, the overall range comprises more than 30,000 catalog and special articles, which are developed, manufactured, refined and assembled at ten production sites in Germany, France, Great Britain, Spain, Bosnia-Herzegovina, Serbia, China and India.

With 2,100 employees EMKA serves over 34,000 customers in 52 countries worldwide.

Since a company takeover in 2018, EMKA is also one of the largest mould makers in Europe. With 150 employees in mould making at its production site Goražde in Bosnia-Herzegovina EMKA builds over 900 moulds per year for plastic injection as well as zinc and aluminium die casting according to German quality standards.

Hygiene products made by EMKA

Smooth surfaces without edges, undercuts and dead spaces - this is the main requirement of food and pharmaceutical producers for reliable locking technology with guaranteed hygiene. In addition, the products used should be able to withstand the jet of a high-pressure cleaner to enable efficient "Cleaning in Place". The prerequisite for this are appropriately processed stainless steel components, which EMKA develops in its own technology centre and subsequently manufactures itself.

In addition to the stainless steel locks and handles, EMKA offers the matching hinges for the locking system as well as a wide range of silicone and NBR seals in the extended program. Locks, handles, hinges and seals are available as catalogue goods, but are also tailored to the individual requirements of the customer.

In addition to the analogue locking solutions, EMKA also offers electronic solutions which are located inside the cabinets or flaps, thus ensuring a flush, easy-to-clean outer surface

You would like to know more about the EMKA hygiene products or have an idea for an individual hygiene product according to your requirements?

Please contact us, clean surfaces are our domain!

Meaning of the Icons


Inside the seal


Concealed hinge


Lift-off version hinge


Door RH or LH version

Compression specification of lock

meets hygiene requirements acc. to DIN EN 1672-2

meets hygiene requirements acc. to DIN EN ISO 14159

Shock and vibration test according to DIN EN 61373

IP-rating such as IP 65

ELM Electronic Locking & Monitoring System application

Stainless steel
AISI 303 resp. 1.4305
AISI 304 resp. 1.4301
AISI 316 resp. 1.4401
AISI 316 Ti resp. 1.4571

Clean locking!

Depending on the area of application, different requirements and standards apply to hygienic locks. In some cases, only locks that are certified in accordance with DGUV or EHEDG may be used. In other working areas these certificates are not required. These certificates are particularly relevant for companies in the food and pharmaceutical industries, as these sectors have particularly high hygiene requirements.

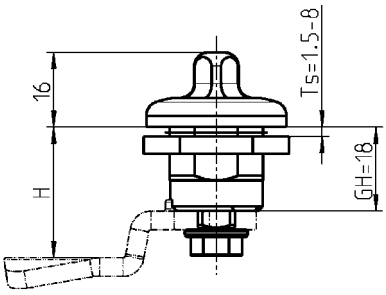
However, a clean and germ-free working environment is also becoming increasingly important outside these industries. Therefore EMKA also offers locking systems for industries where certification is not a requirement. These locks are accompanied by a price advantage.

With or without certificate, EMKA offers the right solution for every requirement. Our quarter turns, compression latches and handles are constructed in "Hygienic Design" and are made of mirror-polished, stainless steel. The rounded shapes ensure that the surfaces are easy to clean and therefore no dirt, bacteria or viruses can accumulate on the locks. The hygienic locks enable efficient "Cleaning in Place" - due to the high IP protection IP69K, cleaning with a high-pressure cleaner is possible at any time!

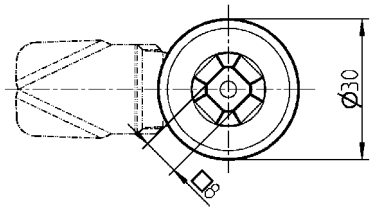
EMKA's hygienic locks, hygienic handles as well as all other hygienic products are developed in our own technology centre and subsequently manufactured in Europe. High quality standards can thus be guaranteed at all times.

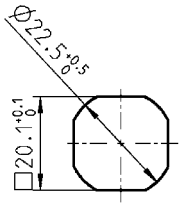
Stainless steel quarter turn for hygienic areas
Certified according to DGUV and EHEDG
PROGRAM 1000

Quarter turn for hygienic areas for food and medical sector



Stainless steel quarter turn for hygienic areas with flat seal flush on the outside





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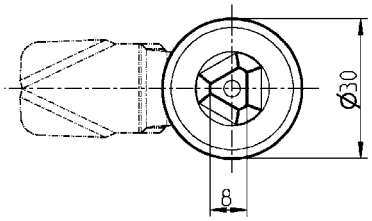
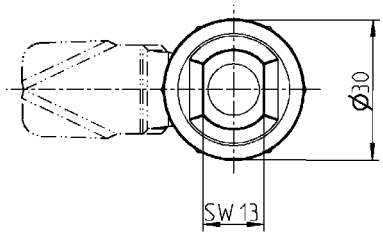




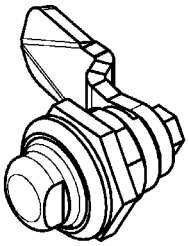
Quarter turn for hygienic areas AISI 303 or 316L, with seal AISI 303 - for food sector AISI 316L - for food and medical sector	
Square 8 AISI 303	1000-U960-01PF
Square 8 AISI 316L	1000-U960-01
Triangular 8 AISI 303	1000-U941-01PF
Triangular 8 AISI 316L	1000-U941-01
Hygiene SW13 AISI 303	1000-U838-02PF
Hygiene SW13 AISI 316L	1000-U838-02

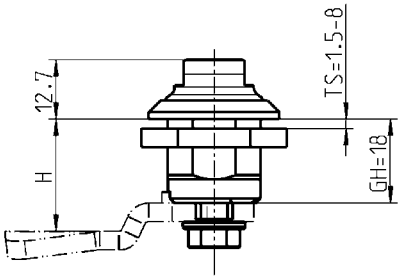
Note:
The quarter turns for hygienic areas meet the hygiene requirement acc. to DIN EN 1672-2, DIN EN 14159 and EHEDG Dok.8.
The seals meet the requirements of the FDA 21 CFR 177.2600 and VO 1935/2004.

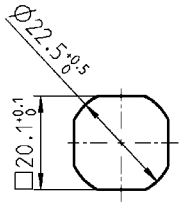
Further parts see page
– Stainless steel cam with catch (GH = 18) HYG-5
– Hygiene key HYG-6
– eCam HYG-15

Stainless steel quarter turn for hygienic areas

PROGRAM 1000







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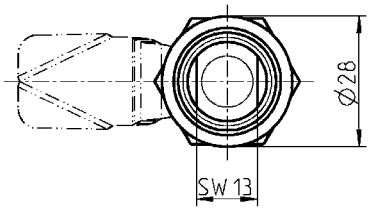


Note:
The quarter turns for hygienic areas meet the hygiene requirement acc. to DIN EN 1672-2 and DIN EN 14159.

Quarter turn for hygienic areas AISI 303 or 316L, with seal	
AISI 316L	1000-U838
AISI 303	1000-U838-PF

Further parts see page
- Stainless steel cam with catch (GH = 18) HYG-5
- Hygiene key HYG-6
- eCam HYG-15

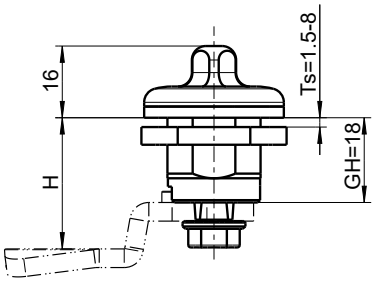
Stainless steel compression latch for hygienic areas
Certified according to DGUV and EHEDG
PROGRAM 1000

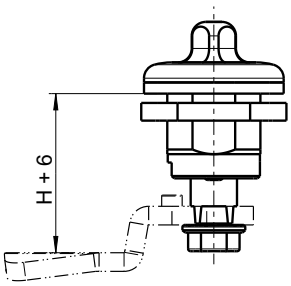
EMKA Beschlagteile

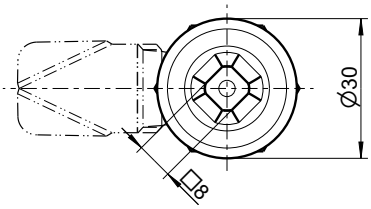
IP69k | 6mm | DIN EN 1672-2 | DIN EN ISO 14159 | AISI INOX | Edelstahl Rostfrei

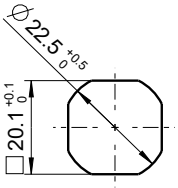
Compression latch for hygienic areas for food and medical sector

Stainless steel compression latch for hygienic areas with flat seal flush on the outside









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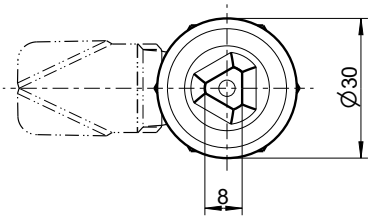
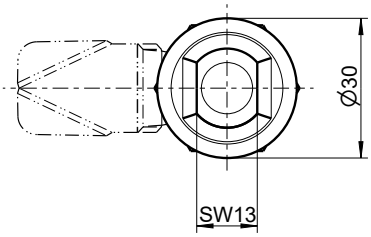
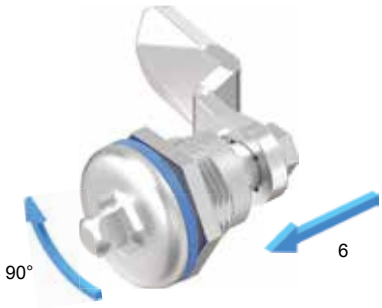




Open condition
By turning the insert by 90° the cam is turned.



Closed condition
The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.

Compressed condition

Open:
Reversed motion

Compression latch for hygienic areas AISI 303 or 316L; with seal AISI 303 - for food sector AISI 316L - for food and medical sector	
Square 8 AISI 303	on request
Square 8 AISI 316L	1000-U963
Triangular 8 AISI 303	on request
Triangular 8 AISI 316L	1000-U962
Hygiene SW13 AISI 303	on request
Hygiene SW13 AISI 316L	1000-U961

Note:
The compression latches for hygienic areas meet the hygiene requirement acc. to DIN EN 1672-2, DIN EN 14159 and EHEDG Dok.8.
The seals meet the requirements of the FDA 21 CFR 177.2600 and VO 1935/2004.

Further parts see page
– Stainless steel cam with or without catch (GH = 18) HYG-5
– Hygiene key HYG-6

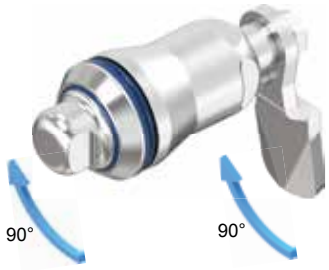
Stainless steel compression latch for hygienic areas

PROGRAM 1000

The compression latch for hygienic areas meets the hygiene requirement acc. to DIN EN 1672-2, DIN EN 14159.

This item is completely IP69K, not only from outside to inside (common standard), but also within the application.

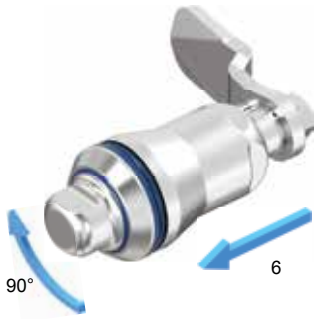
Tamper and vibration proof
The compression latch is designed to be vibration-proof as such. Depending on the installation location and operational conditions, specific checks are necessary and/or supplementary measures of fastening required.



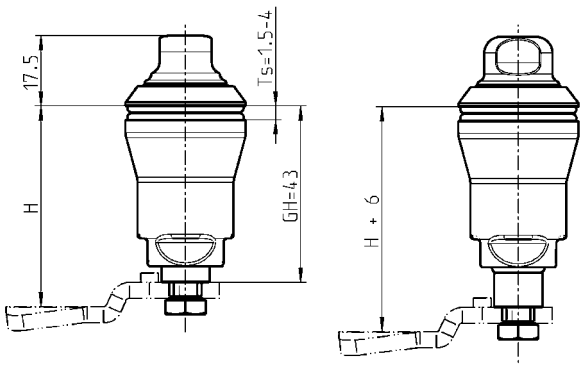
Open condition
By turning the insert by 90° the cam is turned.

1000-U861
Hygiene type for outside and inside the cabinet

1000-U862
Hygiene type for outside the cabinet, not for inside

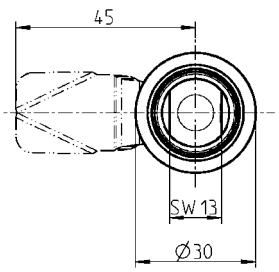


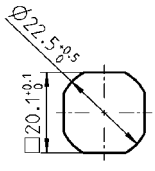
Closed condition
The second 90° of rotation of the insert draws the cam toward the door 6 mm axially.



Compressed condition

Open:
Reversed motion





Cut out

Compression latch for hygienic areas AISI 316L; with spring and seal	
Hygiene type for outside and inside the cabinet	1000-U861
Hygiene type for outside the cabinet, not for inside	1000-U862

Further parts see page

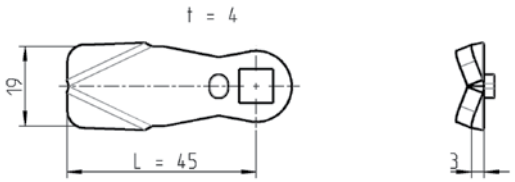
– Stainless steel cam with or without catch HYG-5
– Hygiene key HYG-6

Stainless steel cam with catch
Stainless steel cam without catch
PROGRAM 1000

EMKA Beschlagteile

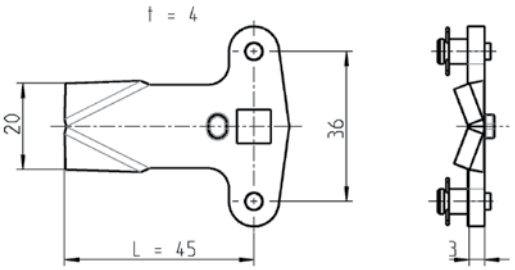
3mm | AISI INOX | Edelstahl Rostfrei stainless steel

Version 1
Cam



Cam with catch

Version 2
Cam with rod control (flank cam)



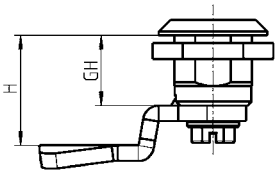
Cam without catch
on request

Note:

This catalogue page does not show all available cams.
Other versions such as:
– Cams without catch
– Cams with other H and L dimension
– Cams with recess in the opposite direction
– etc.
please ask.

Cam with catch material of choice

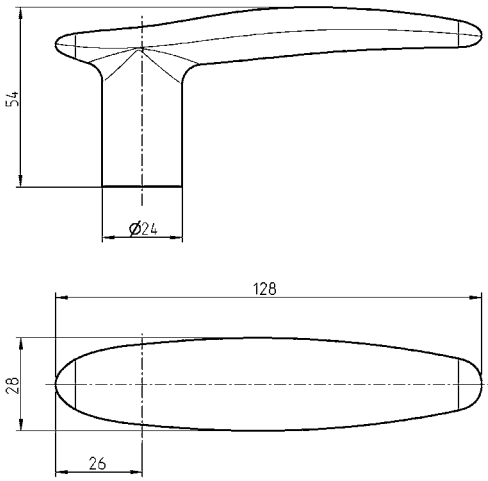
H dimensions for GH				Version 1		Version 2
18	31	43		AISI 304	AISI 316	AISI 304
4	17	29		-	-	-
6	19	31		1000-221	1000-221-PD	-
8	21	33		-	-	-
10	23	35		1000-223	1000-223-PD	-
13	26	38		-	-	-
14	27	39		1000-225	1000-225-PD	-
16	29	41		-	-	-
18	31	43		1000-227	1000-227-PD	-
20	33	45		1000-228	1000-228-PD	-
22	35	47		1000-179	1000-179-PD	1000-U139
24	37	49		1000-229	1000-229-PD	-
25	38	50		-	-	-
26	39	51		1000-230	1000-230-PD	-
28	41	53		1000-180	1000-180-PD	1000-U140



Further parts see page
– Quarter turn for hyigenic areas HYG-1
HYG-2
– Compression latch for hygienic areas HYG3
HYG-4

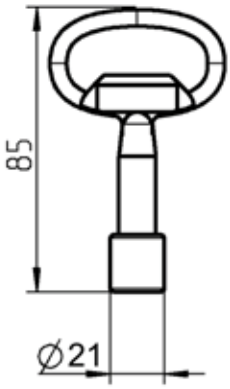
Hygiene key

PROGRAM 1004



Key handle polyamide black	
Square 8	1004-62
triangular 8	1004-61
Hygiene SW13	1004-60

Further parts see page
– Quarter turn for hyigenic areas HYG-1 HYG-2
– Compression latch for hygienic areas HYG3 HYG-4



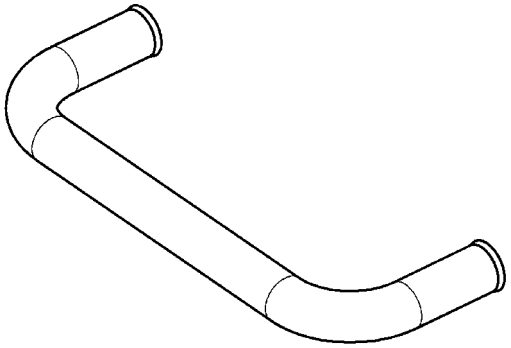
Key zinc die raw	
Hygiene SW13	1004-53

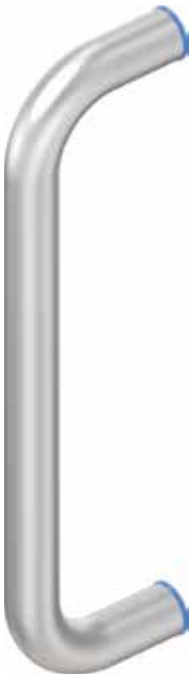
Further parts see page
– Quarter turn for hyigenic areas HYG-1 HYG-2
– Compression latch for hygienic areas HYG3 HYG-4

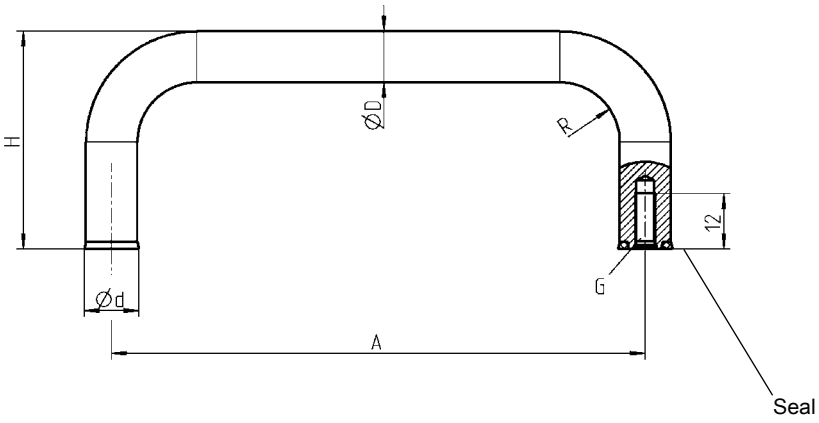
Stainless steel bow-type handle for hygienic areas

PROGRAM 1095

Stainless steel bow-type handle for hygienic areas with flat seal flush on the outside



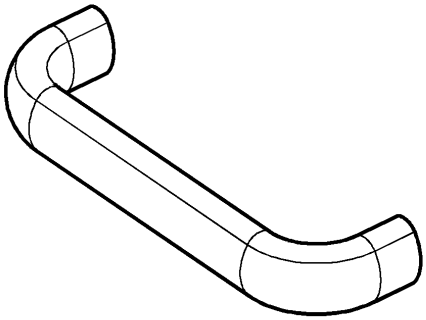


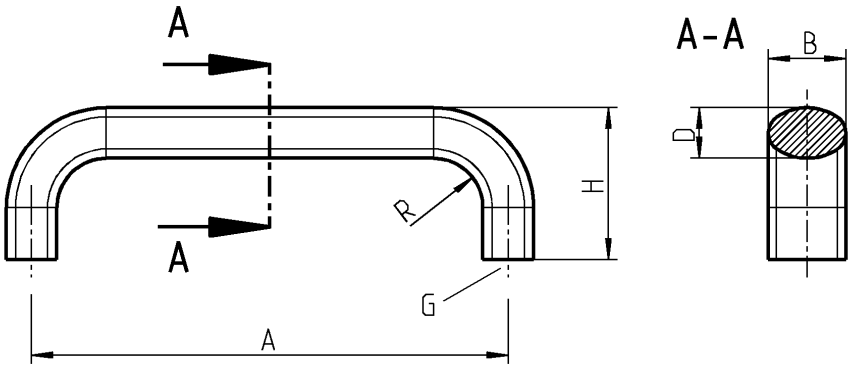


Stainless steel bow-type handle AISI 316L for hygienic areas, with seal							
A	D	d	G	H	R		
125	12	12.8	M5	51	14		1095-U38-125PK
200	16	16.8	M6	59	18		1095-U39-200PK

Stainless steel bow-type handle

PROGRAM 1095





Bow-type handle AISI							
A	B	D	G	H	R		AISI 304
112	20	13	M6x10	49	13		1095-26-112PC
128	20	13	M6x10	51	13		1095-26-128PC

Hinges with the right rotation

Hinges play a decisive role in hygiene-intensive work areas. In order to implement a hygienic design, it is particularly important that the hinge is mounted inside the door, in the non-visible area. This is an important prerequisite for achieving a hygiene-conform working environment.

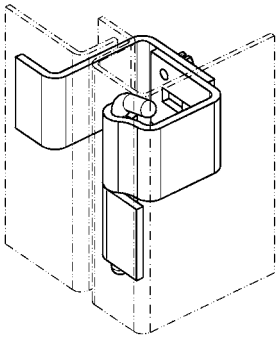
To achieve a hygienic working environment, the door must be guided straight onto the frame and rest without friction. This prevents abrasion of the seal, which would be caused by friction at high seal compression. Hinges from EMKA with exact geometry and matching pivot point contribute to the fact that no abrasion occurs and the seal cannot warp in the direction of door movement.

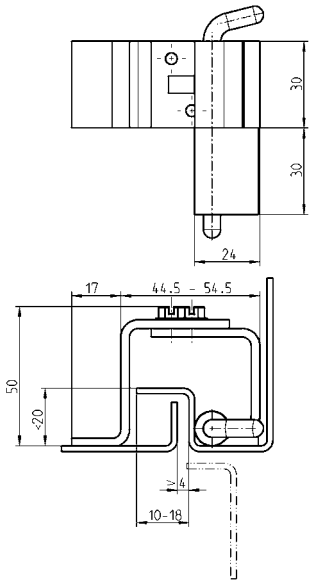
In addition to the inside hinges for particularly hygiene-intensive working areas, EMKA also offers a variety of other hinges made of high-quality stainless steel for other working areas.

Further stainless steel hinges for various working areas can be found in chapter 8B in our main catalogue and online at *www.emka.com.*

Stainless steel concealed hinge

PROGRAM 1006

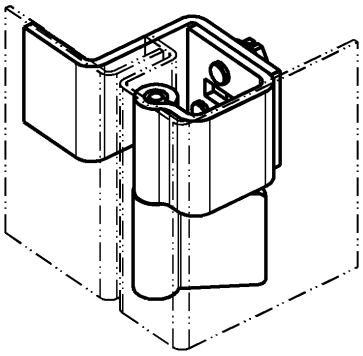


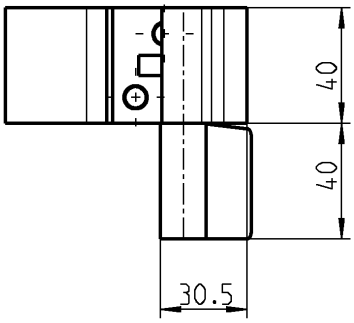


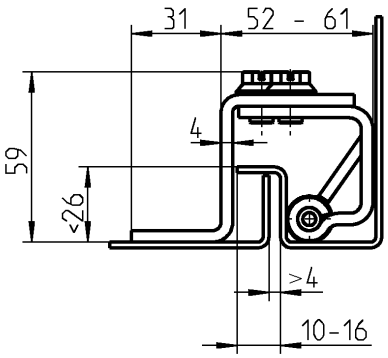
Concealed hinge AISI 304 and AISI 303	
	1006-U1-PC

Stainless steel concealed hinge

PROGRAM 1046







Concealed hinge AISI 304 and AISI 303	
	1046-U5

Safe sealing!

Seals for clean and hygienic working areas in the food industry are made of silicone or NBR. The compounds used at EMKA are compliant with the requirements of FDA 21 CFR 177.2600.

In hygiene-intensive work areas, which are subject to certain standards, the interaction between seal and hinge is particularly important, as only in this way a completely abrasion-free surface can be achieved. A custom-made seal is often required here in order to achieve standard-compliant gap sizes when sealing the joints between door and housing.

With two own plants for sealing technology in Spain and England EMKA can implement customer solutions quickly and effectively. From consultation to installation, EMKA's sealing experts are at your side during the entire process.

In addition to individual solutions EMKA also offers a variety of standard seals made of different materials and in different shapes.

The appropriate sealing technology is developed in dialogue, just contact us!

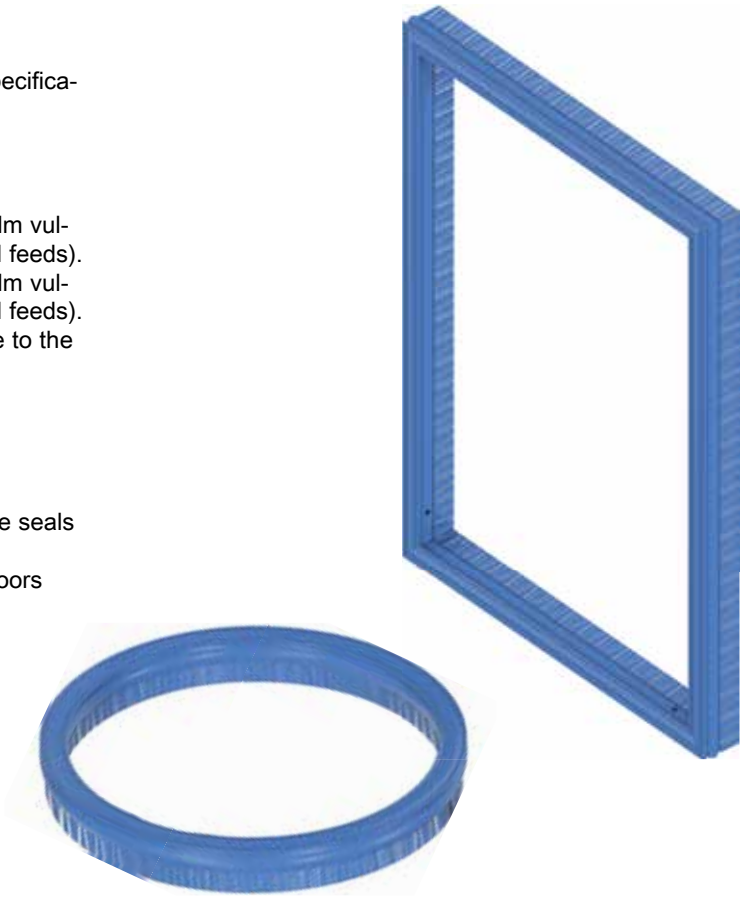
FDA-compliant seals made to measure

INFORMATION

Frames and rings information

Readily customised frames and rings according to customer specifications

We offer numerous assembly possibilities for the known profiles in fixed lengths.
For frames and rings the butt and corner joints can be glued, film vulcanised or realised by injection moulding (formed corners / end feeds).
For frames and rings the butt and corner joints can be glued, film vulcanised or realised by injection moulding (formed corners / end feeds).
Possibly arising tool costs needs to be clarified beforehand due to the required assembly option.



Product benefits

– The extact and time-intensive mitre-cutting of the seal or the observance of the given minimum bending radius of the seals are not necessary
– The assembled frames and rings facilitate the mounting on doors and cabinets frames
– No leakiness at butt ends and mitre joints

Glueing

The most simple process is to glue two profile ends.
For all rings, vent holes are strongly recommended as the compression force increases in a closed ring.
A better solution to glueing two profiles is film vulcanization.

FDA-compliant seals made to measure

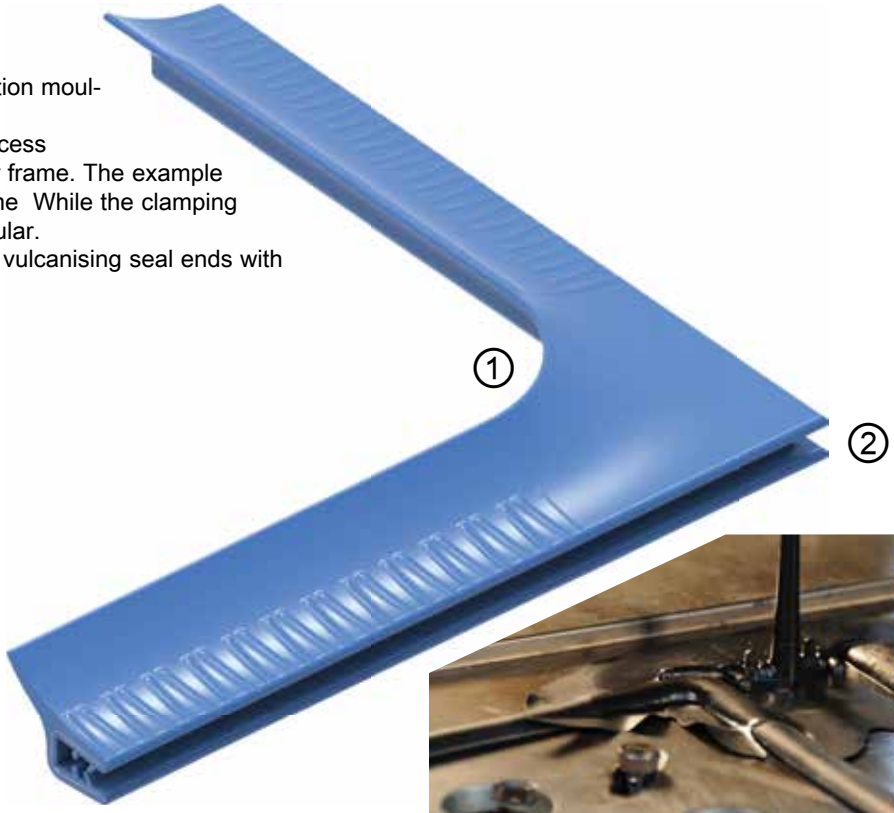
INFORMATION

Film vulcanising

Film vulcanising is a permanent and durable process.
A foil of the same material is inserted between the profile ends that are to be vulcanised. The required time for film vulcanising is longer than for glueing.

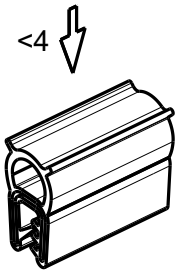
Injection moulding

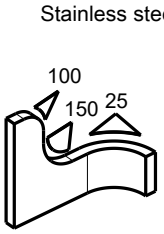
Injection moulding means formed corners and end injection moulding.
Injection molding is e.g. a process to produce special corners for frame. The example next shows ① a rounded frame While the clamping range ② is produced rectangular.
This option is not possible for vulcanising seal ends with mitre joint ①.

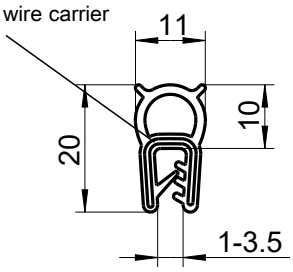


Seals made of FDA-compliant material

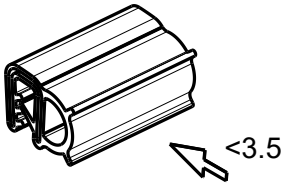
PROGRAM 1011

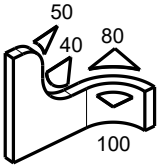


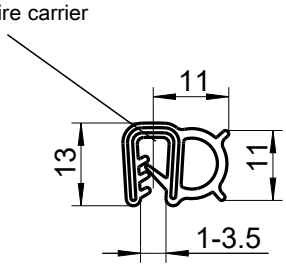




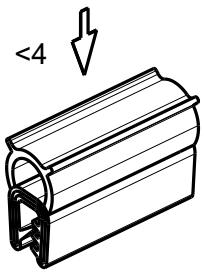
Sealing profile silicon solid material 60 ± 5 Shore A, clamping profile silicon solid material 60 ± 5 Shore A, blue	
	1011-S142

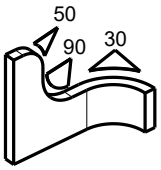


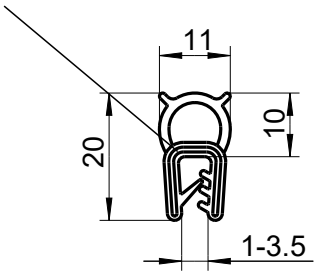




Sealing profile silicon solid material 60 ± 5 Shore A, clamping profile silicon solid material 60 ± 5 Shore A, blue	
	1011-S143



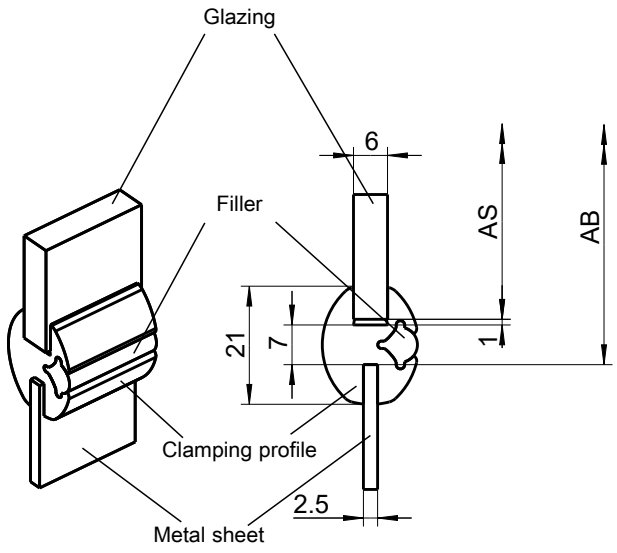




Sealing profile sponge rubber NBR 70 ± 5 Shore A, clamping profile NBR 70 ± 5 Shore A, blue	
	1011-S180

Clamping profile with filler made of FDA-compliant material

PROGRAM 1030



The indication of the bending radius is based on the pane receiver = AS +1 mm

AS = dimension of the glazing
AB = dimension of the cut out

Clamping profile silicon solid material 60 ± 5 Shore A, with filler silicon solid material 85 ± 5 Shore A, blue	
Clamping profile	1030-S14
Filler	1030-S13
2 tools for installation for glazing and filler	
	1030-U1

GERMAN INNOVATION AWARD '19
WINNER

Security and cleanliness with electronic access control

Electronic locking systems in a cleaning-intensive environment? At first sight this does not really fit together. At second glance, the use of electronic locking solutions makes all the more sense.

EMKA's electronic locking solutions are all located inside the door and are therefore protected against moisture and dampness. External cleaning is simplified, because where before there was a visible lock, with the electronic locking solutions "ePush Lock" and the "single point latch" from EMKA only a smooth surface is visible. Depending on the application, a simple opening authorization takes place, for example, by RFID card, APP, PIN code, LAN or can be controlled wirelessly.

The electronic cam lock "eCam" connects a mechanical opening by means of a quarter turn or compression latch with the internal electronics and provides a further security barrier in addition to the matching key.

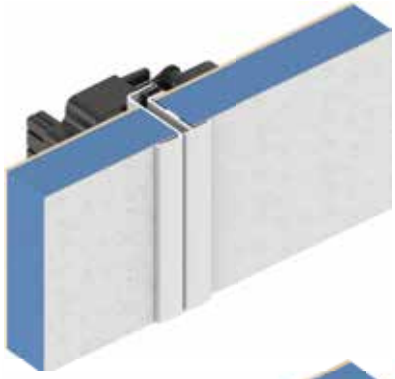
In addition to the considerable advantages in cleaning due to solutions free of fitting parts and the clear design, all electronic locking solutions from EMKA also offer the possibility of assigning individual access authorizations and monitoring accesses. This gives work areas requiring intensive cleaning an effective safety concept without having to compromise on hygiene requirements.

If you have further questions about our electronic locking solutions, we will be happy to advise you.

ePush Lock
Electromechanical push locking system
PROGRAM 3000

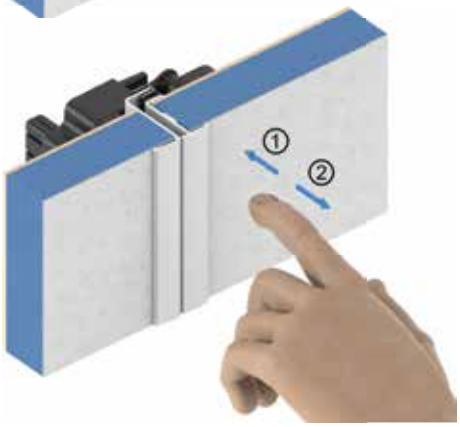
GERMAN INNOVATION AWARD '19 WINNER

The electromechanical push lock ePush Lock is used as an invisible lock from the outside in different applications.



Locked and invisible from the outside

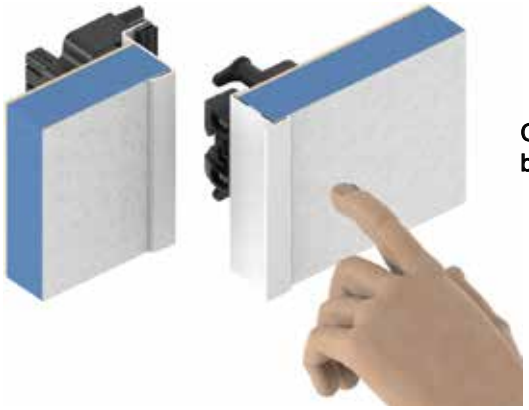
Closed



Opening

Open by pushing

Open

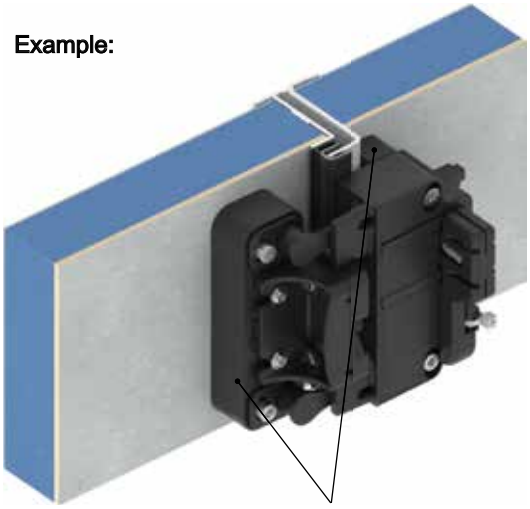


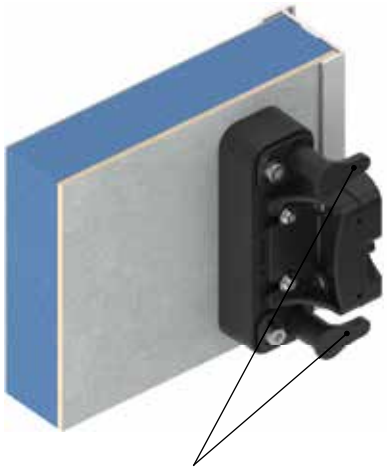
Closing

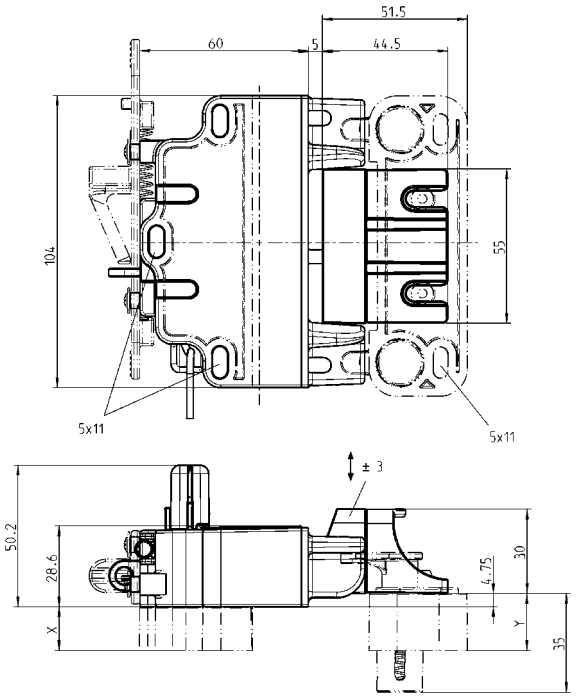
Close by pushing

Closed

Example:

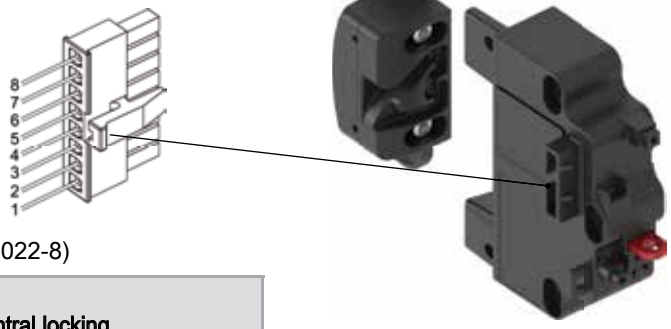






Features

- Wide supply voltage range from 9…32V DC, 200mA
- Digital output max. 26V, 30mA
- Open collector output for monitoring of lock status and door status
- Emergency opening possible via bowden cable in case of power failure



Emergency opening

Turn for emergency opening

Wiring information for version (plug type: Micro MATE-N-LOK 1445022-8)

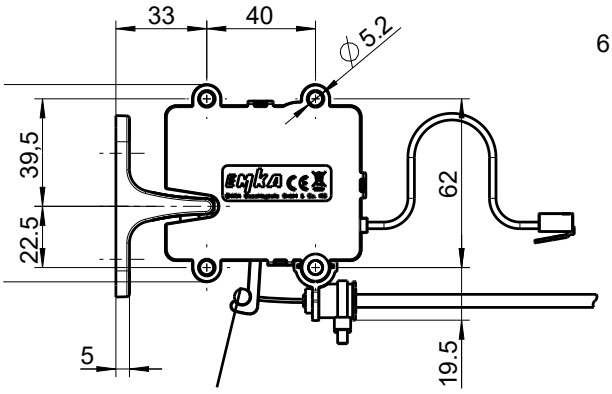
PIN	Button / Switch, central locking + permanent current (equal voltage level)	Central locking
1	Locking	Locking, channel 1
2	Unlocking	Unlocking, channel 1
3	—	—
4	V +	—
5	V -	V -
6	—	—
7	Lock status	Lock status
8	Door status	Door status

ePush Lock **Housing, catch, cap and cam disc polyamide GF black; locking pin AISI 303; emergency opening slider polyamide GF red; spring AISI 301; srew ms.s zinc plated; mounting and operating instructions**	
Lock with emergency opening for central locking	3000-U600-01
Lock with emergency opening for switch / button	3000-U600-02
Lock with emergency opening for central locking and turn for emergency opening	3000-U600-03
Lock with emergency opening for switch / button and turn for emergency opening	3000-U600-04
Lock for manual operation	3000-U600-05
Ejector **Housing polyamide GF black; plunger POM black; spring AISI 301**	
	3000-U600
Cable cover polyamide GF black	
	3000-112-10AA
Spacer for lock housing and catch polyamide GF black	
Dimension X and Y by choice of customer; X = 13 - 32,25 ; Y = 4,75 - 40	on request
Connection cable 2 m with connector and open wire ends	
	3000-111

Note:
Mirror image version of catch, lock housing and turn for emergency opening on request

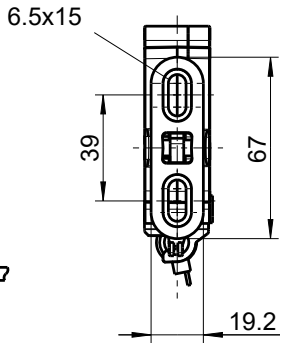
Single point latch with emergency opening

PROGRAM 3000

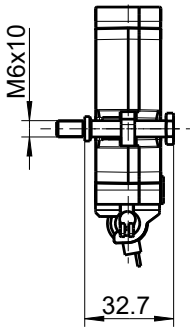


Lever for mechanic unlock, e.g. bowden cable

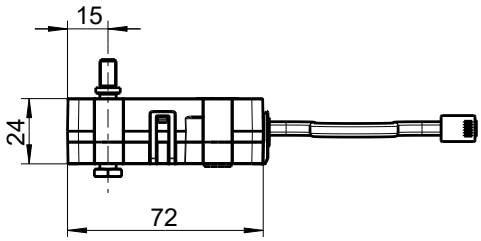
Single point latch with catch



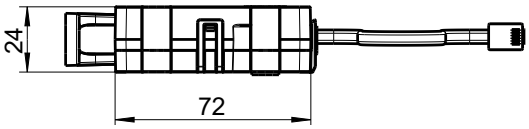
Single point latch with locking bolt

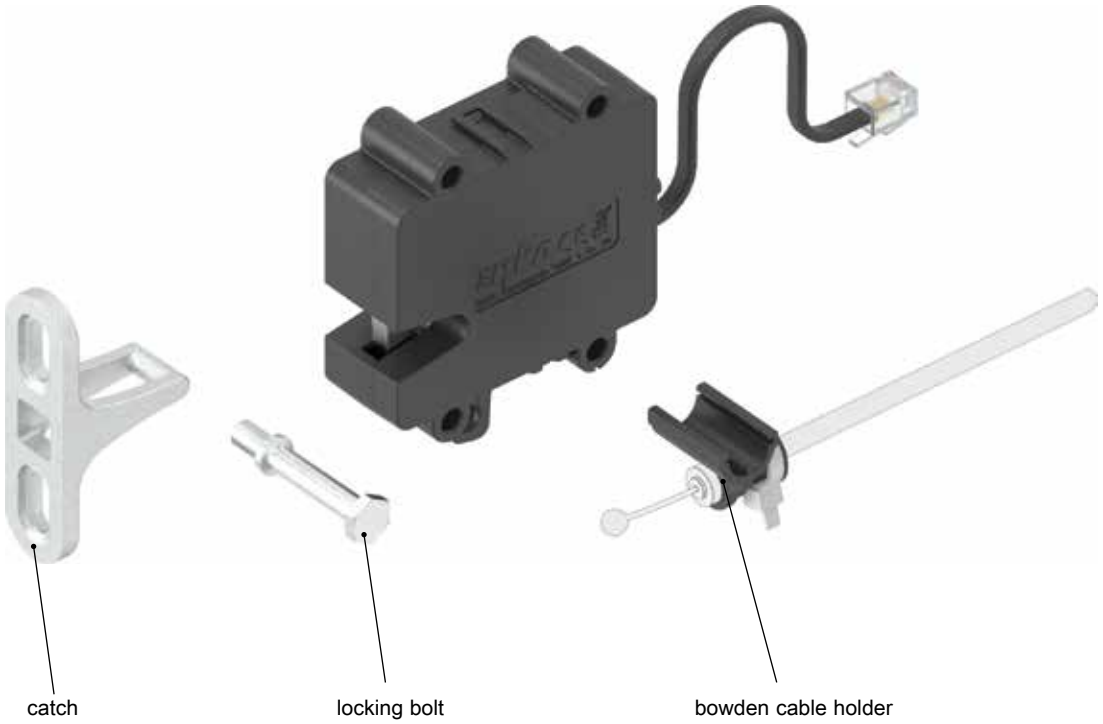


Single point latch with locking bolt



Single point latch with catch





The single point latch is used in various applications as concealed lock.

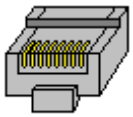
The following types are available:

– Basic = latch is opened by switching on the power supply and locked as soon as the door is closed again
– Basic delayed Re-Lock = latch is opened by switching on the power supply and remains in the position 'open' as long as the power supply is applied
– Energy store = latch opens when switching off of the power supply (alternative to magnetic locks)
– Battery backup = latch is permanently powered and opened via electrical pulse; protection class IP 56

Features

- Wide supply voltage range from 9 ... 32 V
- Potential-free switch for remote monitoring of latch status
- Emergency opening possible via bowden cable in case of power failure
- Connection possible to Locking Unit 3000-U32-x or Access Unit 3000-U47-x; adapter cable optional
- ATEX / UL-Ex approval in preparation

Wiring information for

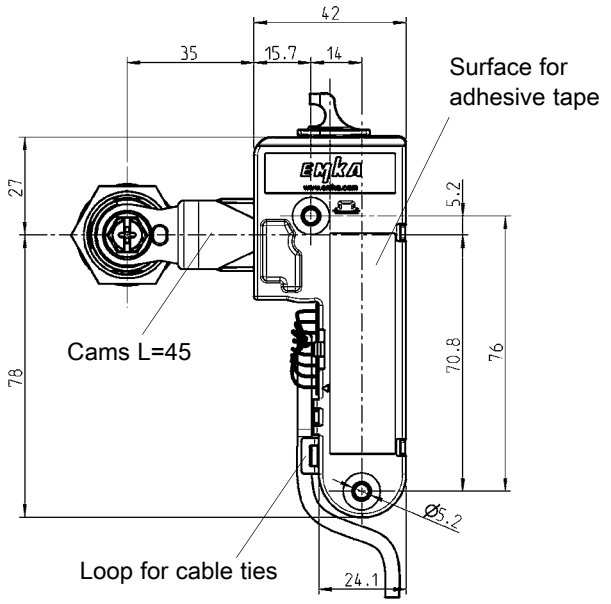
RJ45 plug front view	PIN	Basic Basic delayed Re-Lock Energy store	Battery backup	Wire colours
 87654321	2	–	V -	white
	3	Contact	V -	black
	4	V -	V -	red
	5	V +	Release +	green
	6	Contact	Open collector output	yellow
	7	–	V +	blue

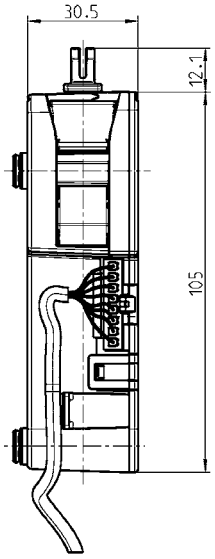
Single point lath with integrated status contact, housing polyamide GF black; ratch and pawl steel lubricant varnished; cable 150 mm with RJ45 plug; with mounting and operating instructions Power supply: 9 ... 32 VDC, 100 mA Contact switching power: max. 30 VDC, min. 1 mA, max. 100 mA	
Basic	3000-U301-01
Basic delayed Re-Lock; with delayed re-lock	3000-U301-02
Energy store; automatic unlock in case of power failure	3000-U301-03
Battery backup, IP 56	3000-U301-04
Catch material of your choice	
AISI 316	3000-78-PH
Zinc die zinc plated	3000-78-01KA
Striker bolt m.s. zinc plated	
	3000-102-JB
Mounting kit for bowden cable polyamide GF black; washer m.s. zinc plated and cable tie	
	3000-U303

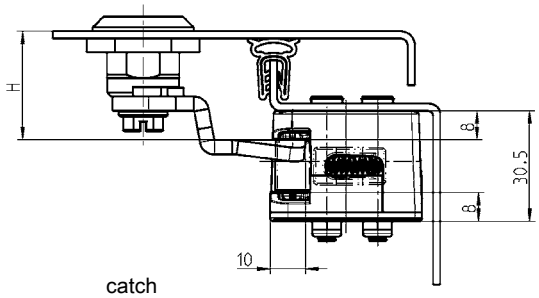
On request:
– Mounting plate
– Bowden cable

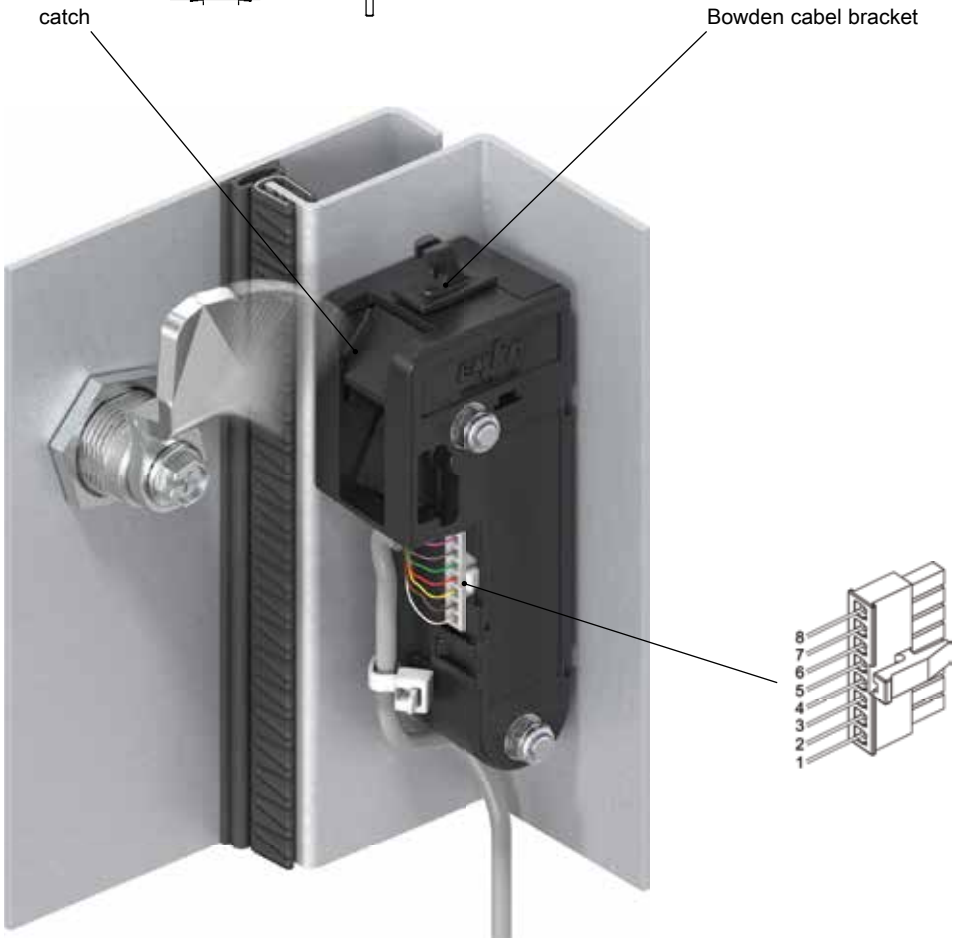
eCam
Electromechanical lock for cams
PROGRAM 3000

GERMAN INNOVATION AWARD '19 WINNER









The electromechanical lock for cams is used as concealed lock in different applications.

The following types are available:

- Basic: lock for cam without status feedback, UL508 certified
- Basic Plus: lock for cam with status feedback, UL508 certified
  Open collector output A1 indicates if cam is engaged in the catch
- Energy store: lock for cam with status feedback and automatic unlock of the catch in case of power failure, UL508 certified
  Open collector output A1 indicates if cam is engaged in the catch
- Safety: Type approved as "position switch, design type 1" acc. to EN ISO 14119 (Machine Directive) and as "monitoring device with performance level d" acc. to EN ISO 13849

Features

- Wide supply voltage range from 9 ... 32 V
- Open collector output for remote monitoring of lock status
- Emergency opening possible via bowden cable in case of power failure

Wiring information for version

PIN	Basic	Basic Plus	Energy store	Safety
1	—	Output A1	Output A1	NC R1
2	—	—	—	NC R2
3	Control input	Control input	Control input	Control input
4	V -	V -	V -	V -
5	V +	V +	V +	V +
6	—	—	—	—
7	—	Door contact A1	Door contact A1	COM R2
8	—	Door contact A2	Door contact A2	COM R1

eCam **Housing, catch, cam disc, plunger polyamide GF;** **magnet; gear motor; with springs; installation and operating manual** **Power supply: 9 ... 32 VDC, max. 100 mA, stand-by 3 mA** **Output signal Open collector (max. 30 V, 50 mA)**	
Basic: lock for cam without status feedback	3000-U304-01
Basic Plus: lock for cam with status feedback	3000-U304-02
Energy store: lock for cam with status feedback	3000-U304-03
Safety: lock for cam with status feedback	3000-U304-04
Connection cable 2 m with connector and open cable ends	
	3000-111
Adhesive tape for quick assembly	
	2834
bowden cable holder	
	on request

Further parts see page
– Quarter turn for hyigenic areas HYG-1
– Cam HYG-2 HYG-5

Success Story:

More than 10,000 quarter turns per year secure food processing machinery
Seydelmann sets high hygiene standards with EMKA

Look and taste are decisive factors in the food industry. However, in order to produce the optimum product, ultra-modern machines and a sterile working environment are the basic requirements. Hygiene and modern design can certainly go hand in hand, as EMKA and the renowned food machinery manufacturer Seydelmann from Aalen recently proved together. From now on EMKA equips eight types of Seydelmann machines with several thousand hygiene quarter turns.

EMKA quarter turns for hygienic areas meet the hygiene requirements acc. to DIN EN 1672-2, DIN EN 14159 and EHEDG Dok.8.

Maschinenfabrik Seydelmann KG has been driving the development, production and sale of high-quality, high-performance machines for food processing for 175 years. Master butchers and production managers of small and medium-sized enterprises as well as in large corporations on all five continents and more than 150 countries place their trust in the cutters, mixers, grinders and ultra-fine shredders of the traditional company. Though mainly used for the production of sausage and meat products, Seydelmann machines have also proven themselves over many years with also with manufacturers of vegan products made of vegetable proteins, manufacturers of cheese, vegetable, fish and pharmaceutical products as well as in the confectionery, soup, bakery and baby food industries.

To maintain a high standard in food production, Seydelmann relies on intensive research and continuous development. The engineers, technicians and designers place the highest demands on material, technology and processing during the planning and production. Since the hygiene regulations in the food industry are immensely high and new certifications are always necessary, it was essential to optimise specific machine components even more. Above all, Seydelmann saw the potential for improvement in the closure technology of its machines.

The specification: The design of the machine covers should be carried out with a hygiene standard that even exceeds the existing standard. After all, the surface of the screw connections must not accumulate any impurities – not even in the infinitesimal quantities.

On average, 20 quarter turns are installed per machine - a total of >10,000 units per year.

Previously, the machine covers were screwed together, making the material more susceptible to dirt. But the practical aspect also played a role: it was, therefore, essential to reduce or altogether avoid the potentially easily loss of parts such as screws on the covers, which in turn saved manufacturing costs. The decisive factors in selecting the right supplier of closure technology were compliance with the strict hygienic requirements and a high-quality standard that guaranteed the long shelf life of the products used. The solution also had to be integrated into the existing design of the stainless machine frame. The various installation depths presented themselves as a challenge.

Efficient “Cleaning in place”

After testing the market in great detail, it turned out: To find someone to fulfil the many requirements mentioned was an easy decision for Seydelmann because EMKA and its newly developed hygiene quarter turns met all the specifications. The hygiene

quarter turn proved to be the optimal solution in the area of price/performance, as the lock can be integrated into existing machines with little effort. EMKA has developed its hygiene quarter turn, especially for sensitive environments in which there is a high demand for cleanliness and sterility. So the quarter turn complies with protection class IP 69K. It is dustproof even at low vacuum in the housing (<= 20mbar) and waterproof from four spray directions. The stainless steel components are robust and easy to clean, and can withstand the jet of a high-pressure cleaner, for example, to enable efficient “cleaning in place”. Seydelmann’s Project Manager Jochen Goos, MBA Operations Manager, and Johannes Wamsler, Design Manager, were particularly impressed by the time-saving aspect. “Thanks to the EMKA quarter turns, we can now install and uninstall our machine linings much more quickly and easily, especially during maintenance work. We save a lot of time and can concentrate on other core tasks”, says Jochen Goos, explaining the decision in favour of the closure expert. “The design of the quarter turn is very high-quality and robust and therefore fits very well into the existing design of our machine range”.

The hygiene quarter turn has an externally food-grade flat seal.

On average, 20 quarter turns are installed per machine – a total of 10,000 per year. Up to now, the quarter turns have been used in a large part of the Seydelmann’s portfolio, for example in industrial cutters and vacuum mixers, automatic grinders and ultra-fine crusher. In addition to the product quality, EMKA also scored with its fast delivery and flexible design.

EMKA Project Manager Stefan Keber, the regional representative for Baden-Württemberg, was always approachable and worked solution-oriented with Seydelmann to guarantee a fast project throughput.

EMKA was also able to react to short-term design requests with its hygienic quarter turns. When it turned out that the quarter turns sometimes needed cams with special dimensions when integrating them into the existing machine construction, EMKA delivered an optimized product within a very short time - just in time for the leading trade fair IFFA in May 2019 in Frankfurt. There Seydelmann presented itself and its innovations with more than 50 machines including quarter turns from EMKA on six exhibition days - an absolute success which underlines the excellent cooperation between the two companies. There are also joint plans for the future, for example with regard to sealing concepts and hinges, so that Seydelmann machines can continue to benefit from EMKA expertise and exploit their full potential.

The hygiene quarter turn is particular developed for environments with a high demand for cleanliness and sterility.

EMKA worldwide

ALGERIA
EMKA France
Tel. +33/254/320862
emka@emka-france.com

ARMENIA
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

AUSTRIA
EMKA Beschlagteile Ges.m.b.H.
Tel. +43/2143/43063
info@emka-beschlagteile.at

AUSTRALIA *
Lock Focus Pty. Ltd.
Tel. +61/3/97981322
lockf@lockfocus.com.au

AZERBAIJAN
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

BELARUS
EMKA Polska Sp.Z o.o.
Tel. +48/323606026
info@emka.net

BELGIUM
EMKA Benelux B.V. Service Office
Tel. +31/413/323510
sales@emka.org

BOSNIA-HERZEGOVINA
EMKA Bosnia d.o.o. Goražde
Tel. +38/738/241310
info@emka.ba

CANADA
EMKA Inc.
Tel. +1/717/9861111
info@emkausa.com

CHILE *
NDU Ingenerieria Ltda.
Tel. +56/2/29639861
ventas@ndu.cl

CHINA
EMKA Industrial Hardware CO.Ltd.
Tel. +86/22/82123759
info@emka.cn

CROATIA
EMKA Okovi d.o.o.
Tel. +385/35/270073
info@emka-okovi.hr

CZECH REPUBLIC
EMKA Beschlagteile CZ
Tel. +43/214343063
info@emka-solutions.cz

DENMARK *
A/S Megatrade Beslag
Tel. +45/44916700
mega@megatrade.dk

ESTONIA
EMKA Polska Sp.Z o.o.
Tel. +48/323606026
info@emka.net

FINLAND
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

FRANCE
EMKA France
Tel. +33/254/320862
emka@emka-france.com

GEORGIA
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

GREECE *
EMKA Hellas
Tel. +30/21041/83183
info@emka-hellas.com

HUNGARY
EMKA Beschlagteile
Tel. +36/1/2360032
info@emka.hu

INDIA
EMKA India P. A. Pvt. Ltd.
Tel. +91/80/48542727
info@emka.in

ISRAEL *
Kornass Mechanical Engineering
Tel. +972/76/5400789
sales@kornass.com

ITALY
EMKA Italia s.r.l. Unipersonale
Tel. +39/045/6471070
info@emka.it

JAPAN *
TOCHIGIYA Co., Ltd
Tel. +81/48/2283072
support@tochigiya.co.jp

KAZAKHSTAN
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

LATVIA
EMKA Polska Sp.Z o.o.
Tel. +48/323606026
info@emka.net

LITHUANIA
EMKA Polska Sp.Z o.o.
Tel. +48/323606026
info@emka.net

MEXICO
EMKA Mexico Beschlagteile
Tel. +52/44/22095217
info@emka.mx

MONTENEGRO
EMKA Bosnia d.o.o. Goražde
Tel. +38/738/241310
info@emka.ba

NETHERLANDS
EMKA Benelux B.V.
Tel. +31/413/323510
info@emka.org

NORWAY
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

POLAND
EMKA Polska Sp.z o.o.
Tel. +48/326663300
info@emka.net

PORTUGAL
EMKA Beschlagteile Ibérica S.L.
Tel. +351/910904688
info@emka-iberica.pt

ROMANIA
S.C. EMKA Beschlagteile S.R.L.
Tel. +40/269/222700
info@emka.ro

RUSSIA *
OOO "EmTechProm"
Tel. +7/812/4492928
info@emtechprom.ru

SERBIA
EMKA Okovi d.o.o.
Tel. +385/35/270073
info@emka-okovi.hr

SINGAPORE *
VF Fastening Systems PTE Ltd.
Tel. +65/675/23033
vincent@vffastening.com.sg

SLOVAKIA
EMKA Beschlagteile Ges.m.b.H.
Tel. +43/214343063
miro.emka@ba.telecom.sk

SOUTH AFRICA *
Enclosure Solutions
Tel. +27/11/9737260
info@enclosuresolutions.co.za

SOUTH COREA *
Geo Jeon Co. Ltd.
Tel. +82/314/335508
geojeon@emkakorea.co.kr

SPAIN
EMKA Beschlagteile Ibérica S.L.
Tel. +34/672262672
info@emka-iberica.es

SWEDEN
EMKA Scandinavia
Tel. +46/36/314130
info@emka.se

SWITZERLAND
EMKA Beschlagteile AG
Tel. +41/33/8260220
info@emka.ch

TURKMENISTAN
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

TURKEY
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

UAE
EMKA Middle East FZE
Tel. +971/42844528
info@emka.ae

UKRAINE
EMKA Ukraine
Tel. +38/096/7535875
info@emka.in.ua

UNITED KINGDOM
EMKA (UK) Ltd.
Tel. +44/2476/616505
info@emka.co.uk

USA
EMKA Inc.
Tel. +1/717/9861111
info@emkausa.com

UZBEKISTAN
EMKA Kilit Sistemleri Metal
Sanayi ve Ticaret Ltd. Şti.
Tel. +90/262/2909097
info@emkakilit.com.tr

VIETNAM *
Terramar Engineering and
Machinery (Pte.) Ltd.
Tel. +84/8/39153209
cam@terramar.com

*Agency

www.EMKA.com

EMKA Beschlagteile GmbH & Co. KG
Langenberger Str. 32 • 42551 Velbert, Germany • Tel.: +49/2051/273-0 • Fax: +49/2051/273-128 • E-Mail: info@emka.com • www.emka.com