



LATCHES HANDLES **ELECTRONICS**
CYLINDER AND KEY SYSTEMS ACCESSORIES



DLP LOCK MAG 2023

Innovative locking systems for the commercial vehicle industry

know how to open the world



D. LA PORTE SÖHNE GMBH

CUSTOMIZED PRODUCTS

made for the highest and heaviest demands

Our company

D. LA PORTE SÖHNE GMBH

know how to open the world

As a medium-sized family business DLP has a good name worldwide. With over 160 years of experience and consistent commitment to our customers, we face the tasks that each new project brings.

The high-precision locking systems from DLP are designed in every respect for use in the off-highway market. With the toughest demands, sometimes under extreme environmental and climatic conditions - we are familiar with the challenges of the commercial vehicle industry. We are at the service of this industry with innovative locking solutions for construction machinery, forklift trucks, tractors, industrial and special vehicles.

Adapted for off-highway use all DLP locking systems meet the highest requirements in terms of functionality, flexibility, load, service life, design, handling and splash and dust protection. The basis for this is our "Made in Germany" production:

In order to ensure and consistently maintain the high quality standards typical for DLP, we manufacture almost all components for our latches, external handles and electronic locking systems ourselves.

Due to the high 85% share of in-house production, we can influence the quality of our products to a maximum and meet the demands of our partners in the off-highway industry. The result is high-quality locking systems for use in construction machinery, forklifts, agricultural vehicles, tractors, cranes and other special vehicles, which are guaranteed to be ready when it counts: always.

Get comprehensive information now about what added value our locking systems can offer you. Including the One Key System from DLP, locking systems with remote control keys, keyless entry, keyless go and much more. For a large part of the DLP product portfolio there are numerous product variants, so that you can access many existing standard solutions for a wide range of applications.

Do you need an individual solution? We can develop and manufacture a product that meets your exact requirements for the installation. We look forward to your inquiries.

For us, customer proximity also means being where you are. In addition to our main plant in Germany, in 2009 we founded a subsidiary in the USA: D. La Porte N.A. LLC. Our American plant supports us not only in sales but in meeting tight timelines within development processes. Here we have "Made in USA" production so that we can respond directly to the specific requirements of the American commercial vehicle industry.

In 2011 we established D. La Porte Asia Ltd., which is based in China. Together with our subsidiaries we are a strong alliance with a common core: know how to open the world.





Environment

D. LA PORTE SÖHNE GMBH

Committed to protecting the environment

At DLP, the issues of environmental protection and energy efficiency have a high priority. We work consistently to avoid any kind of waste. Our production processes are therefore fundamentally designed on efficiency and precision. Here, our in-house production of 85% is a big advantage. Because of this, we get the opportunity to ensure our internal process chain is at an optimal level to have maximum impact and conserve resources.

The first photovoltaic system on the roofs of our production halls in Wuppertal dates back to 2012 – a time when solar energy was by no means as popular as it is today. In 2018, we expanded the plant and source electricity from our own production. Our in-house heat recovery system generates heating power. In this way, heat generated in the zinc-diecast foundry is used to generate heat for underfloor heating in the production rooms.

CO2 neutral and energy-efficient heating is our goal. Our latest project is the commissioning of a woodchip heater. Our managing director, Dipl.-Ing. Michael La Porte, wants to heat the buildings with over 10,000 m2 with such a modern and eco-friendly system. .

Each of our employees has the natural resource advantage to be used sparingly and ensure their activities have the least possible environmental impact.



We don't just talk about environmental protection, we take concrete action and measures to operate in a way that conserves our resources.



<20% ELECTRICITY PURCHASE THANKS TO 200 KWP PHOTOVOLTAIC MODULES



DOMESTIC WATER PRODUCTION FROM 5000L RAINWATER CISTERNS



HEAT RECOVERY FROM OUR OWN PRODUCTION

Business Sectors



AGRICULTURAL MACHINERY



CONSTRUCTION MACHINERY



INDUSTRIAL VEHICLES & FORKLIFT TRUCKS



OTHER

know how to open the world



LATCHES



CYLINDER AND KEY SYSTEMS



HANDLES



ELECTRONICS



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know how to open the world

Latches



DLP LATCHES

Quality that exceeds your expectations

GENERAL

Our latches are divided into door and cabin, flap and hood latches and door hold backs. They are installed in construction machines, agricultural and industrial vehicles. We offer a wide range of product lines with a large variety of standard parts. If you like, you can have numerous latches as a complete system with external handles of your choice and our remote control key.

INDIVIDUALITY

Your individual requirements and applications are all of great importance in order to be able to decide on the right product. An important aspect for example, is the force that is transmitted to the latches. This is determined by several factors such as the weight, size and material of the door.

FEATURES

The question of whether a door is either large or small is not easy to answer. The question becomes clearer if for example, we compare a combine harvester with a standard door and a tractor with large panoramic glass doors. However, it is easier to distinguish the material which the latch comes into contact with and desired service life of our products.

QUALITY

Our latches are tested under extreme loads and meet all the necessary standards required for use in vehicle doors. With most of our latches, we meet the transverse and longitudinal load standards required in the automotive industry. This puts us far above the level generally required in the off-highway industry.

DURABILITY

Our latches are very durable products. They are tested according to our own standards developed specifically for this industry. We can therefore assure you that our latches are usually designed for 50,000 cycles and more. If you want, we run tests to ensure that your individual application more than meets the requirements of your customers.

KNOW HOW TO OPEN THE WORLD

We know exactly what we are doing, because we have been manufacturing latches and handles for around 160 years, have a well-founded know-how and for this reason, we are one of the market leaders. As we produce a high proportion of our own assembly parts, we can influence the quality of our products to the maximum and respond to your demands and wishes. See for yourself!



Door and cabin latches



5000



5100



5200



5300



5400

Our latches are used in a wide variety of off-highway vehicles. Depending on the size, weight and application of the door, we jointly select a suitable locking system. There is a significant difference if you have a panoramic door made of solid glass or a smaller metal door. To complete the package, we offer you the handle and other accessories to create a harmonious overall concept. We will work with you on your project and give you our experienced advice.

HIGH DEMANDS

No matter whether our latches are exposed to heat or have to withstand the Arctic cold, we will work with you to determine the applicable environmental influences for your vehicle.

AREAS OF APPLICATION

Our latches for smaller doors are equipped with a rotary latch.

The latches with two rotors, called double rotor latches, are used mainly for heavy door concepts, as well as when there are high loads due to vibration.

DOOR AND HOOD LATCH

For safety reasons, every door latch must be equipped with a main and secondary lock according to the ECE R116 standard. Some of our series are also used in hoods and are available without secondary lock.

Characteristics	4600	5000	5100	5101	5200	5201	5300	5400	5500
 Safety device	✓	✓	✓	✓	✓	-	-	-	-
 Direct release	✓	✓	✓	✓	✓	✓	✓	✓	-
 Indirect release	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Inner release	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Inner handle	✓	✓	✓	-	✓	✓	✓	-	-
 Main and secondary lock	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Special rotors	-	-	-	-	✓	✓	-	✓	-
 Screw fixing M6	✓	✓	-	-	-	-	-	-	-
 Screw fixing M8	-	✓	✓	✓	✓	✓	✓	✓	-
 Hood/flap installation	-	✓	✓	-	✓	-	✓	-	✓
 Door installation	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Latch cover	-	✓	✓	✓	-	✓	✓	√ ²	-
 Tube	-	-	-	✓	-	✓	-	✓	✓
 Microswitch	-	-	-	-	✓	✓	-	✓	✓
 Remote control	-	✓	-	-	✓	✓	-	✓	✓

Hood and flap latches



5005



5006



5035



5036



5039

Characteristics	5005	5006	5035	5036	5039
Direct release	-	-	✓	✓	✓
Indirect release	✓	✓	-	-	✓
Inner release	-	-	-	-	✓
Inner handle	-	-	-	-	✓
Main and secondary lock	✓	-	-	-	✓
Main lock	✓	✓	✓	✓	✓
Screw fixing M6	✓	✓	-	-	-
Screw fixing M8	-	-	✓	✓	✓
Hood/flap installation	✓	✓	✓	✓	✓
Door installation	✓	-	-	-	✓
Microswitch	-	-	-	-	✓
Remote control key	✓	-	-	-	✓

Our latches meet your requirements. They are used in construction machinery, agricultural machinery and industrial vehicles. We offer you a wide range of products for large, small, heavy or light flaps and hoods.

DURABILITY

DLP hood latches are characterized by their persistence, even under the highest loads. We develop the latches according to your conditions and test them according to customer requirements. Whether tear resistance tests or corrosion protection tests: we provide what you need.

DIFFICULT INSTALLATION POSITIONS

In our product range you will find specially developed latches for the side flaps of harvesting machines as well as a latch series which are excellent for installation in difficult mounting positions or little installation space. We will be happy to advise you!

SPACE-SAVING

We have a particularly space-saving series that can be installed into the smallest hoods. Some of our flap latches can be opened manually or with a tool.












EXTENSIONS AND ACCESSORIES

For some years now, our latches can be optionally equipped with electronic components, so that they can be locked and unlocked by our remote control key. Further information on our electronics can be found in the electronics chapter.



Custom-fit products for the highest demands and heaviest loads

Door holdbacks

Characteristics	5030	5032	5034	5044
 Direct release	✓	✓	✓	✓
 Indirect release	✓	✓	✓	-
 Inner release	✓	-	✓	-
 Inner handle	✓	-	✓	-
 Main lock	✓	✓	✓	✓
 Screw fixing M6	✓	✓	✓	-
 Screw fixing EJOT	-	-	-	✓
 Hood/flap installation	✓	✓	-	-
 Door installation	✓	✓	✓	✓
 Metal installation	✓	✓	✓	✓
 Glass installation	-	-	✓	✓



DLP door holdbacks are used to keep a driver's door in the opened position. This ensures that the driver's cab is ventilated and the door does not close unintentionally.

INDIVIDUAL SELECTION

Depending on the situation we can recommend for the right product. We have a comprehensive selection of standard variants, which we gladly present to you. When making a selection, the type of material in your area of application (glass or metal) is an important factor.

DIFFERENT VARIANTS

Our door holdbacks have different release levers and are partially splash and dust protected (according to IP 64). Let us convince you with our selection.

SPECIAL STRENGTHS

Especially when the doors are exposed to high vibrations, such as in tracked vehicles, we offer you particularly stable door holdbacks. For each door holdback there is a matching counterpart, a locking bolt or bracket. Of course you can get both products together as a set from us.

AND TO CONTINUE

On the following pages you will find our different latch series with matching accessories. These have been summarized for the best possible way and we hope that you will find exactly what you are looking for.



The DLP door holdback delivers what it promises

Fields of application



Series 4600



Safety device



Direct release



Indirect release



Inner release



Main and secondary lock



Door installation



Inner handle



Screw fixing M6



Striker bolt 10,00 mm

TO KNOW

Our 4600 series was developed in the 70s. At that time, agricultural vehicles were equipped with cabs for the first time to protect drivers from wind and cold during work. DLP took the opportunity to establish itself in the market with this latch.

This series became the first mass-produced product and is still popular with many customers today. Most of the latches in this series have a reinforcement plate to withstand even higher demands.



61.4600.0002
Safety device



61.4600.0003
Inner release



61.4600.0013
Angled lever



61.4600.0027
Inner handle



61.4600.0031
Indirect release



61.4600.0034
Flap latch



61.4600.0043
Inner handle long



61.4601.0075
Without reinforcement plate

Series 4600

SAMPLES

Part number	Side	Safety device	Inner handle	Inner release	Indirect release	Angled lever	Reinforcement plate	Door	Hood
61.4600.0002	right	✓	✓	✓	-	-	✓	✓	-
61.4600.0003	left	-	✓	✓	-	-	✓	✓	-
61.4600.0013	left	✓	✓	✓	-	✓	✓	✓	-
61.4600.0015	left	-	✓	✓	-	✓	✓	✓	-
61.4600.0027	left	-	✓	✓	-	-	✓	✓	-
61.4600.0031	left	-	-	-	✓	-	✓	✓	✓
61.4600.0034	right	-	-	-	-	-	✓	-	✓
61.4600.0043	left	-	✓	✓	-	-	✓	✓	-
61.4601.0003	left	-	✓	✓	-	-	-	✓	-
61.4601.0027	left	-	✓	✓	-	-	-	✓	-
61.4601.0034	right	-	-	-	-	-	-	-	✓
61.4601.0075	left	-	✓	✓	-	✓	-	✓	-

AVAILABLE ACCESSORIES



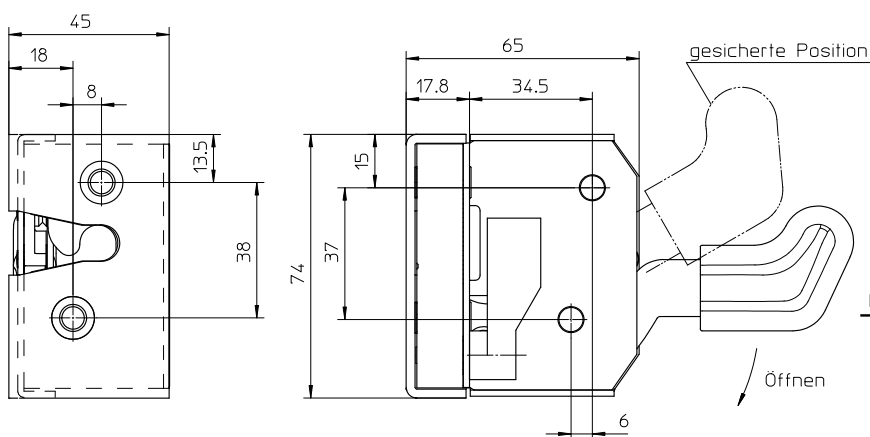
Striker bolt

Striker guard

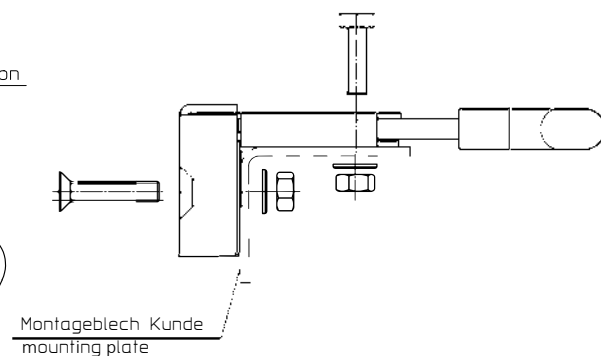
Inner handle

Reinforcement plate

TECHNICAL DRAWING



ASSEMBLY



View of series 4600 including reinforcement plate: Mounting with countersunk screws

Tightening torque	10 Nm
Screw	M6

Series 5000



Safety device



Direct release



Indirect release



Inner release



Main and secondary lock



Main lock



Anti-twist device



Child protection



Hood installation



Door installation



Inner handle



Screw fixing M6



Screw fixing M8



Latch cover



Remote control



Striker bolt 10,00 mm

TO KNOW

The 5000 series of latches was developed at the time of more modern manufacturing processes. The possibilities had improved due to innovative machines and processes. Good stability characterizes this latch, which is provided by beads and guides in the sheet metal.

The 5000 series only needs to be fixed with two screws. The series is especially suitable for small and light doors and the connection of a remote control key is possible without any problems. We also offer these latches with and without safety device. We have a standard cover available for this inexpensive variant.



61.5000.0003
With cover



61.5000.0005
Hood latch



61.5000.0007
Indirect release outside



61.5000.0031
Screw M6



61.5000.0054
Direct release



61.5000.0055
Child safety lock



61.5000.0067
Anti-rotation protection



61.5000.0082
Indirect control

Series 5000

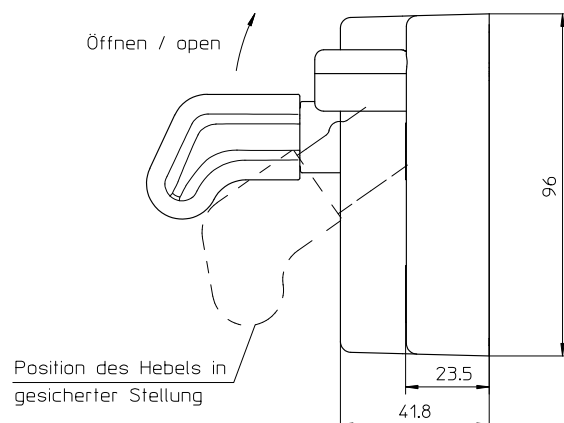
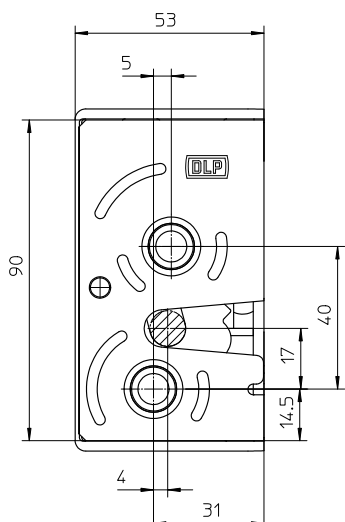
SAMPLES

Part number	Side	Safety device	Internal handle	Inner release	Indirect release	Direct release	Curved lever	Door	Hood
61.5000.0003	left	-	✓	✓	-	✓	-	✓	-
61.5000.0005	left	-	-	✓	-	✓	-	-	✓
61.5000.0007	left	-	✓	✓	✓	-	-	✓	-
61.5000.0010	right	-	-	✓	-	✓	-	-	✓
61.5000.0014	right	-	✓	✓	-	✓	-	✓	-
61.5000.0031	left	-	✓	✓	✓	-	-	✓	-
61.5000.0054	right	-	✓	✓	-	✓	-	✓	-
61.5000.0055	left	✓	✓	✓	-	✓	-	✓	-
61.5000.0067	left	-	✓	✓	-	✓	✓	✓	-
61.5000.0082	right	✓	-	-	✓	✓	-	✓	-
61.5000.0094	right	-	✓	✓	✓	-	-	✓	-
61.5000.0095	left	-	-	-	✓	-	-	-	✓

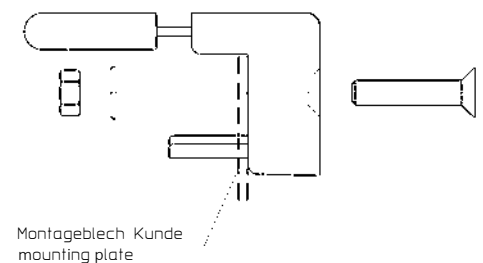
AVAILABLE ACCESSORIES



TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8

Series 5100



Safety device



Direct release



Indirect release



Inner handle



Main and secondary lock



Main lock



Hood installation



Door installation



Inner handle



Screw fixing M8



Latch cover



Striker bolt 10,00 mm

TO KNOW

The robust 5100 series is very versatile. It is specially designed for small and light doors and is one of our cost effective, but durable latches. The 5100 series is also popular in hood and flap applications.

The extra flat design helps to protect against injury in hood applications. A very practical combination is our plastic release handle mounted on the latch (67.5100.9001).



61.5100.0001
Cabin latch



61.5100.0004
With safety device



61.5100.0007
Direct release



61.5100.0010
Indirect release



61.5100.0013
Wide opening



61.5100.0018
Inner handle



61.5100.0033
Curved lever



67.5100.9001
Hood latch

Series 5100

SAMPLES

Part number	Side	Safety device	Internal handle	Direct release	Indirect release	Main and secondary lock	Wide opening	Door	Hood
61.5100.0001	left	-	✓	✓	-	✓	-	✓	-
61.5100.0002	right	-	✓	✓	-	✓	-	✓	-
61.5100.0003	left	✓	✓	✓	-	✓	-	✓	-
61.5100.0004	right	✓	✓	✓	-	✓	-	✓	-
61.5100.0007	left	-	-	✓	-	✓	-	✓	-
61.5100.0008	right	-	-	✓	-	✓	-	✓	-
61.5100.0010	right	-	-	-	✓	✓	-	✓	-
61.5100.0013	left	-	✓	✓	-	-	✓	✓	✓
61.5100.0014	right	-	✓	✓	-	-	✓	✓	✓
61.5100.0018	right	-	✓	✓	-	✓	-	✓	-
61.5100.0023	left	-	-	✓	-	-	-	✓	✓
61.5100.0033	right	-	-	✓	-	✓	-	✓	✓

AVAILABLE ACCESSORIES



Striker bolt



Striker guard



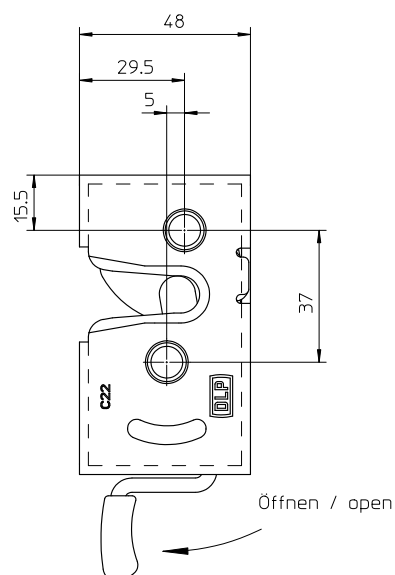
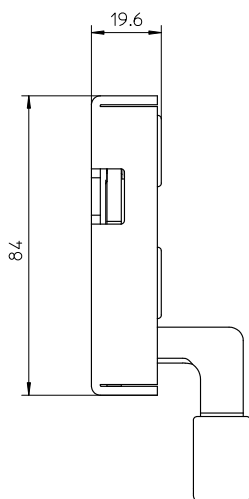
Inner handle



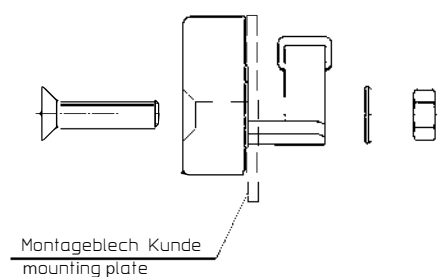
Cover



TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8

Series 5101



Safety device



Direct release



Indirect release



inner release



Main and secondary lock



Door installation



Screw fixing M8



Latch cover



Tube



Striker bolt 10,00mm

TO KNOW

Our robust 5101 series is particularly ergonomic due to its tube connection. The driver can conveniently unlock the latch via the release handle integrated in the rectangular tube.

We already offer a variety of different standard tube lengths, but can also produce individual tube lengths on request. If required, these latches can be supplied with an internal safety device.

DISTANCE TO INTERNAL RELEASE

All rectangular tubes have the same cut-out for the release handle, which is not variable. The distance from the latch housing to the release handle is always 138.40 mm.

For a higher flexibility in tube shapes and positioning of the release handle, we also offer round tube solutions as an alternative. The distance between the release handle and the latch is flexible and depends on your requirements.



61.5101.0001
With cover



61.5101.0009
Release handle



61.5101.0027
With safety device



61.5101.0045
Without tube



61.5101.0079
Round tube



61.5101.0097
Curved round tube



61.5101.0113
Basic latch



61.5101.0139
Square tube

Series 5101

EXAMPLES OF ARTICLES

Part number	Direct release outside	Direct release inside	Indirect re-release outside	Indirect re-release inside	Cover	Without tube	Round tube	Square tube	Total length
61.5101.0001	✓	-	-	✓	✓	-	-	✓	591,60
61.5101.0009	✓	-	-	✓	✓	-	-	✓	691,60
61.5101.0011	✓	-	-	✓	✓	-	-	✓	921,60
61.5101.0027	✓	-	-	✓	✓	-	-	✓	541,60
61.5101.0045	-	✓	✓	-	-	✓	-	-	-
61.5101.0069	-	✓	-	-	✓	✓	-	-	-
61.5101.0079	✓	-	-	✓	✓	-	✓	-	600,00
61.5101.0088	✓	-	-	✓	-	-	✓	-	548,20
61.5101.0093	✓	-	-	✓	-	-	✓	-	600,00
61.5101.0097	✓	-	-	✓	-	-	✓	-	497,80
61.5101.0113	✓	-	-	✓	-	-	-	-	-
61.5101.0139	✓	-	-	✓	-	-	-	✓	375,50

AVAILABLE ACCESSORIES

ROUND TUBE



Striker bolt



Cover



Release handle

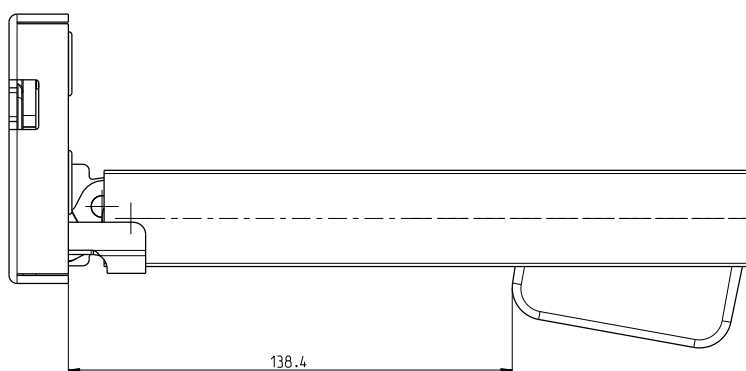


Tube end metal

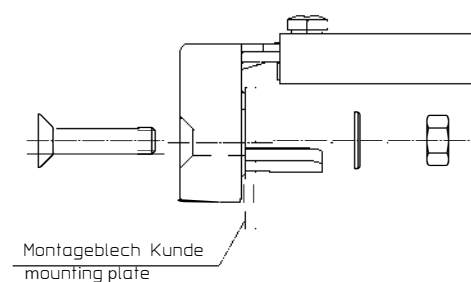


Tube end glass

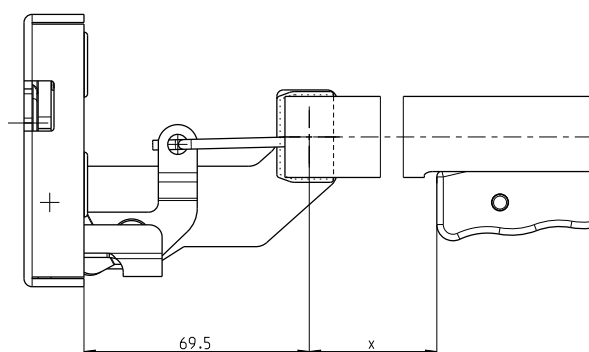
DISTANCE TO THE RELEASE HANDLE - SQUARE TUBE



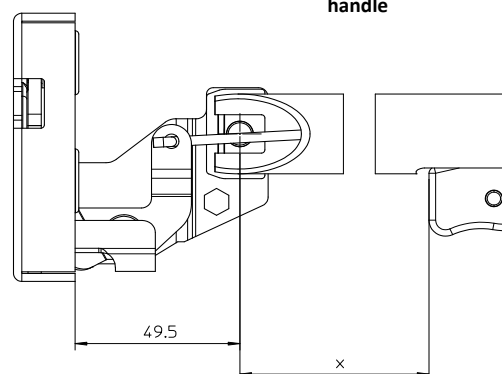
ASSEMBLY



DISTANCE TO THE RELEASE HANDLE - ROUND TUBE



x = variable distance to release handle

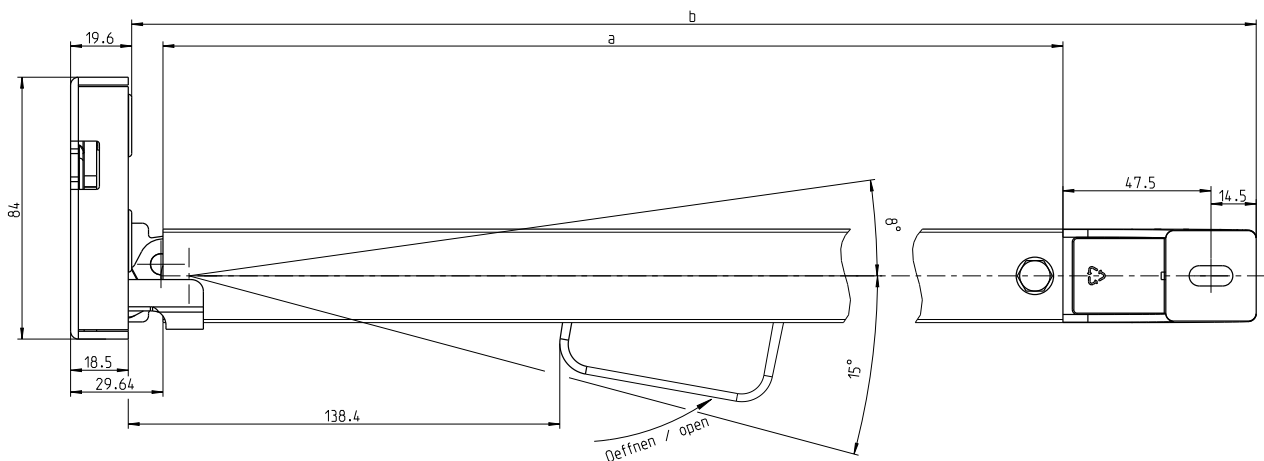


Series 5101



SQUARE TUBE - OVERVIEW

Part number	Mirror	Safety device	Direct release outside	Direct release inside	Indirect re-release outside	Cover	(a) Tube	(b) Tube assembly	Total length
61.5101.0055	61.5101.0056	-	✓	-	-	✓	229,50	301,50	321,10
61.5101.0029	61.5101.0030	-	✓	-	-	✓	233,00	305,00	324,60
61.5101.0063	61.5101.0062	-	✓	-	-	✓	233,00	305,00	324,60
61.5101.0135	61.5101.0136	✓	✓	-	-	✓	233,00	355,90	375,50
61.5101.0139	61.5101.0140	-	✓	-	-	-	233,00	355,90	375,50
61.5101.0060	-	-	✓	✓	✓	✓	240,00	507,00	526,60
61.5101.0035	61.5101.0036	✓	✓	✓	✓	✓	300,00	372,00	391,60
61.5101.0081	61.5101.0082	-	✓	✓	✓	✓	300,00	672,00	691,60
61.5101.0059	61.5101.0058	-	✓	✓	✓	✓	330,00	402,00	421,60
61.5101.0037	61.5101.0038	-	✓	✓	✓	✓	380,00	452,00	471,60
61.5101.0005	61.5101.0006	-	✓	✓	✓	✓	435,00	507,00	526,60
61.5101.0027	61.5101.0028	✓	✓	✓	✓	✓	450,00	522,00	541,60
61.5101.0049	61.5101.0050	-	✓	✓	✓	✓	450,00	522,00	541,60
61.5101.0015	61.5101.0016	-	✓	-	-	✓	490,00	562,00	581,60
61.5101.0137	61.5101.0138	-	✓	-	-	-	490,00	612,90	632,50
61.5101.0001	61.5101.0002	-	✓	✓	✓	✓	500,00	572,00	591,60
61.5101.0003	61.5101.0004	✓	✓	✓	✓	✓	500,00	572,00	591,60
61.5101.0115	61.5101.0116	-	✓	✓	✓	✓	500,00	510,00	529,60
61.5101.0047	61.5101.0048	-	✓	-	-	-	530,00	305,00	324,60
61.5101.0145	61.5101.0146	-	✓	✓	✓	✓	530,00	602,00	621,60
61.5101.0119	-	-	✓	✓	✓	✓	580,00	652,00	671,60
61.5101.0009	61.5101.0010	-	✓	✓	✓	✓	600,00	672,00	691,60
61.5101.0043	61.5101.0044	✓	✓	-	-	✓	600,00	672,00	691,60
61.5101.0017	61.5101.0018	✓	✓	✓	✓	✓	680,00	752,00	771,60
61.5101.0019	61.5101.0020	-	✓	✓	✓	✓	700,00	772,00	791,60
61.5101.0041	61.5101.0042	✓	✓	✓	✓	✓	700,00	772,00	791,60
61.5101.0071	-	-	✓	✓	✓	✓	700,00	772,00	791,60
61.5101.0072	-	-	✓	✓	✓	✓	700,00	772,00	791,60
61.5101.0103	-	-	✓	✓	✓	✓	700,00	802,90	822,50
61.5101.0104	-	-	✓	✓	✓	✓	700,00	672,00	722,50
61.5101.0074	61.5101.0073	-	✓	✓	✓	✓	721,00	672,00	691,60
61.5101.0033	-	-	✓	✓	✓	✓	740,00	812,00	831,60
61.5101.0011	61.5101.0012	-	✓	✓	✓	✓	830,00	902,00	921,60
61.5101.0061	-	-	✓	-	-	-	830,00	902,00	921,60
61.5101.0039	61.5101.0040	-	✓	-	-	✓	950,00	1022,00	1041,60



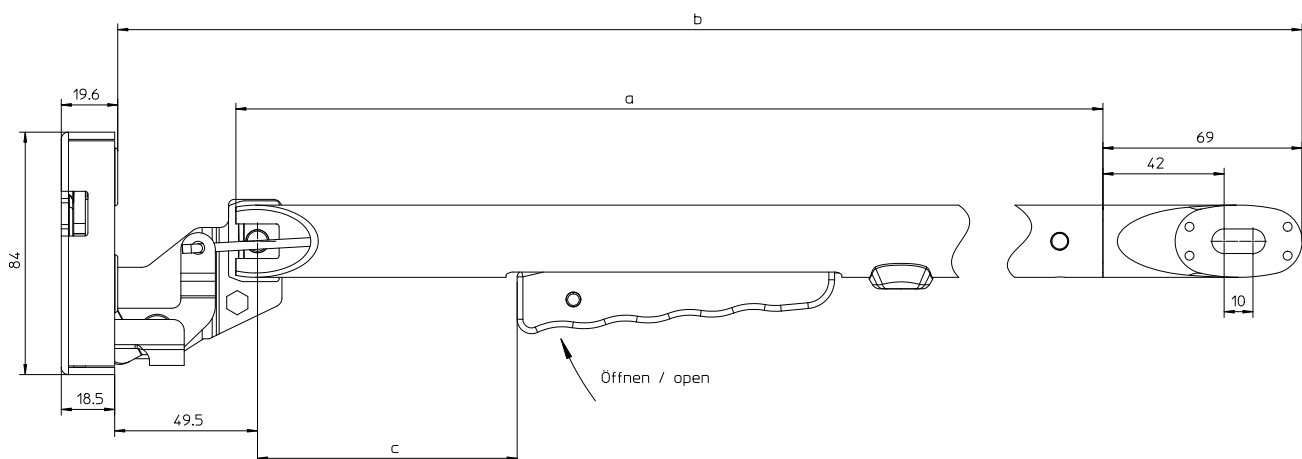
Series 5101

ROUND TUBE - OVERVIEW



Part number	Mirror	Direct release outside	Indirect release outside	Latch box short 49,50	(a) Total tube assembly	(b) Tube assembly	(c) Distance release handle	Total length
61.5101.0090	-	✓	-	✓	275,50	385,40	90,00	405,00
61.5101.0141	-	✓	-	-	285,00	414,90	70,00	434,50
61.5101.0079	61.5101.0080	✓	-	-	450,50	580,40	250,00	600,00
61.5101.0093	-	✓	-	✓	470,50	580,40	90,00	600,00
61.5101.0102	-	✓	-	✓	470,50	580,40	90,00	600,00
61.5101.0107	-	✓	-	✓	470,50	580,40	90,00	600,00
61.5101.0148	-	✓	✓	✓	470,50	600,40	90,00	620,00
61.5101.0144	-	✓	-	-	508,00	637,90	248,50	657,50
61.5101.0123	-	✓	-	-	552,50	682,40	315,00	702,00
61.5101.0152	61.5101.0153	✓	-	✓	643,20	753,10	438,10	772,70
61.5101.0153	61.5101.0152	✓	-	✓	643,20	753,10	438,10	772,70
61.5101.0109	-	✓	-	-	675,00	804,90	250,00	824,50

TECHNICAL DRAWING ROUND TUBE



CURVED TUBE - OVERVIEW

Part number	Mirror	Latch box short 49,50 mm	(a) Tube	(b) Total tube assembly	(c) Distance to release handle	Total length latch with tube
61.5101.0088	61.5101.0089	✓	418,70	528,60	90,00	548,20
61.5101.0089	61.5101.0088	✓	418,70	528,60	90,00	548,20
61.5101.0097	-	✓	368,30	478,20	90,00	497,80
61.5101.0111	-	✓	418,70	528,60	90,00	548,20

Series 5200



Safety device



Direct release



Indirect release



Inner release



Main and secondary lock



Main lock



Special rotors



Hood installation



Door installation



Inner handle



Screw fixing M8



Tube



Microswitch



Remote control



Striker bolt 13,75 mm



Striker bolt 17,13 mm



Key concepts for doors from the market leader

TO KNOW

Our double rotor latch of the 5200 series can be used for door and hood application. All latches generally have the two rotor latch positions of main and secondary lock (when used in flaps and hoods its available with only one main lock position). They are mounted with two screws.

This series is characterized by its durability and robustness. Heavy loads, vibrations and high cycles are no challenge for our top sellers. In order to meet our customers' requirements, and the individual installation situations, we offer a particularly large range of variants. Due to a close cooperation between our customers and our development department, some of our latches are customer-specific and therefore not available for free sale.

On the following pages we will show some of these variants as examples. On request, we also offer this latch series with special rotors with +/- 2 mm tolerance compensation and with Antifricor coated rotors and pawls.

Should you require a remote control key for your locking system, these latches are also offered with a microswitch to ensure lockout protection. In addition, we always ensure that our remote control key provides mechanical emergency locking and unlocking in the event of a power failure.

Of course, our systems are capable of central locking and can be supplied for 12V or 24V vehicle electrical systems.



Series 5200



APPLICATION
EXAMPLE

Our latches 61.5200.0167/0168
can be supplied with
cover as a compact assembly.

AVAILABLE ACCESSORIES



Striker bolt



Striker guard



Inner handle



Microswitch



61.5200.0001



61.5200.0005



61.5200.0009



61.5200.0011



61.5200.0019



61.5200.0039



61.5200.0045



61.5200.0078

Series 5200



61.5200.0079



61.5200.0084



61.5200.0087



61.5200.0104



61.5200.0113



61.5200.00115



61.5200.0121



61.5200.0123



61.5200.0127



61.5200.0139



61.5200.0143



61.5200.0150



61.5200.0154



61.5200.0159



61.5200.0165



61.5200.0167



Variants with this symbol are customer-specific and are not freely available. We will be glad to offer you similar products. We are looking forward to your inquiry!

Series 5200



61.5200.0171



61.5200.0174



61.5200.0185



61.5200.0214



61.5200.0225



61.5200.0238



61.5200.0241



61.5200.0245

Series 5200



61.5200.0251



61.5200.0283



61.5200.0296



61.5200.0299



61.5200.0303



61.5200.0307



61.5200.0328



61.5200.0336



61.5200.0337



61.5200.0341



61.5200.0347



61.5200.0349



Variety is standard for us.
We have already developed over **430**
different versions of this series.



Series 5200



61.5200.0356



61.5200.0366



61.5200.0369



61.5200.0370



61.5200.0376



61.5200.0404



61.5200.0405



61.5200.0425

Customized locking systems

for the commercial vehicle industry

EQUIPMENT OPTIONS

Our double latch is a versatile product. It can be adapted in all functional areas. Due to the high number of variants, we can certainly offer you a latch made of standard products. If this is not possible, we will develop an individual product for you.



Series 5200

ROTORS



Standard rotors "without secondary lock" made for hoods and flaps



Standard rotors with Antifricor coated rotors and pawls



Special rotors with +/- 2mm tolerance compensation and Antifricor coated rotors and pawls



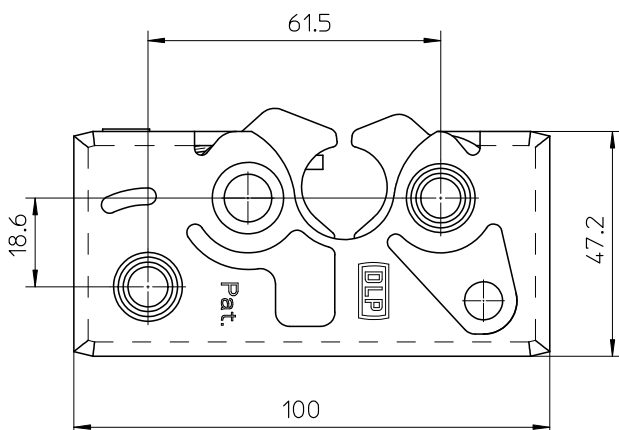
Special rotors with +/- 2mm tolerance compensation (oval hole/smaller bolt)

SPECIAL ROTORS WITH TOLERANCE COMPENSATION: Compensation option for poorly adjusted (hanging) doors

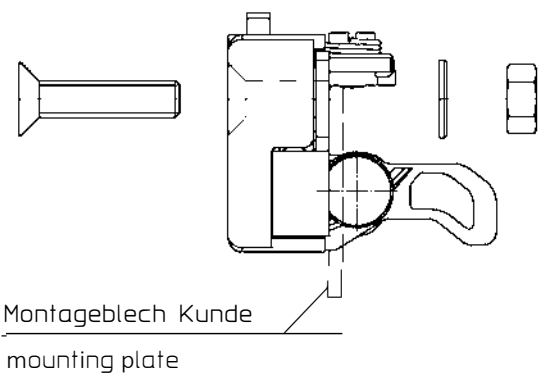
ANTIFRICOR COATED ROTORS:

Less friction, therefore particularly low maintenance and no greasing necessary

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8


Series 5200

SAMPLES

Part number	Side	Striker	Special rotors	Antifricor coating	One-piece latch cover plate	Latch cover plate divided	Latch case opened	Latch case closed	Special latch case
61.5200.0001	left	17,13	-	-	✓	-	-	✓	-
61.5200.0005	left	17,13	-	-	✓	-	-	✓	-
61.5200.0009	left	17,13	-	-	✓	-	-	✓	-
61.5200.0011	left	17,13	-	-	-	✓	-	✓	-
61.5200.0019	left	17,13	-	-	-	✓	-	✓	-
61.5200.0039	left	17,13	-	-	✓	-	-	✓	-
61.5200.0045	left	17,13	-	-	-	✓	-	✓	-
61.5200.0078	right	17,13	-	-	✓	-	-	✓	-
61.5200.0079	right	17,13	-	-	✓	-	-	✓	-
61.5200.0084	left	17,13	-	-	✓	-	✓	-	✓
61.5200.0087	left	17,13	-	-	✓	-	-	✓	✓
61.5200.0104	right	17,13	-	✓	-	✓	✓	-	-
61.5200.0113	left	17,13	-	-	-	✓	-	✓	-
61.5200.0115	left	17,13	-	-	✓	-	-	✓	-
61.5200.0121	left	13,75	✓	✓	-	✓	-	-	✓
61.5200.0123	left	13,75	✓	✓	-	✓	-	-	✓
61.5200.0127	left	17,13	-	-	-	✓	-	✓	-
61.5200.0139	left	13,75	✓	-	-	✓	-	✓	-
61.5200.0143	left	17,13	-	-	-	✓	-	✓	-
61.5200.0150	right	17,13	-	-	✓	-	✓	-	✓
61.5200.0154	right	10,00	-	-	-	✓	✓	-	-
61.5200.0159	left	17,13	-	-	✓	-	-	✓	✓
61.5200.0165	left	13,75	✓	-	-	✓	-	✓	-
61.5200.0167	left	17,13	-	-	-	✓	-	✓	-
61.5200.0171	left	17,13	-	-	-	✓	-	✓	-
61.5200.0174	right	17,13	-	✓	✓	-	-	✓	-
61.5200.0185	left	17,13	-	-	✓	-	✓	-	✓
61.5200.0214	right	17,13	-	-	-	✓	-	✓	-
61.5200.0225	left	17,13	-	-	✓	-	✓	✓	-
61.5200.0238	right	17,13	-	-	✓	-	-	✓	-
61.5200.0241	left	17,13	-	-	-	✓	-	✓	-
61.5200.0245	left	17,13	-	-	-	✓	-	✓	-
61.5200.0251	left	17,13	-	-	-	✓	-	✓	-
61.5200.0283	left	17,13	-	-	-	✓	-	✓	-
61.5200.0296	right	17,13	-	-	✓	-	-	-	✓
61.5200.0299	left	17,13	-	-	-	✓	-	✓	-
61.5200.0303	left	13,75	✓	✓	-	✓	✓	-	-
61.5200.0307	left	17,13	-	-	✓	-	✓	-	✓
61.5200.0328	right	17,13	-	-	✓	-	-	✓	-
61.5200.0336	right	17,13	-	-	-	✓	-	✓	-
61.5200.0337	left	17,13	-	-	-	✓	-	✓	-
61.5200.0341	left	17,13	-	-	-	✓	-	✓	-
61.5200.0347	left	17,13	-	-	-	✓	✓	-	-
61.5200.0349	left	17,13	-	-	✓	-	-	✓	-
61.5200.0356	right	17,13	-	-	✓	-	-	✓	-
61.5200.0366	right	17,13	-	-	✓	-	-	-	✓
61.5200.0369	left	13,75	✓	-	-	✓	-	✓	-
61.5200.0370	right	17,13	-	-	-	✓	-	✓	-
61.5200.0376	right	17,13	-	✓	-	✓	✓	-	-
61.5200.0404	right	17,13	-	-	-	✓	-	✓	-
61.5200.0405	left	17,13	-	-	-	✓	✓	-	-
61.5200.0425	left	13,75	✓	✓	-	✓	✓	-	-







Series 5200


SAMPLES









Part number	Safety device	Direct release outside	Direct release inside	Indirect release outside	Inner handle (Indirect release)	Microswitch	Door	Hood	 Customized
61.5200.0001	-	✓	✓	-	-	-	✓	-	✓
61.5200.0005	✓	✓	✓	-	-	-	✓	-	✓
61.5200.0009	-	-	-	✓	✓	-	-	✓	-
61.5200.0011	-	✓	-	-	✓	-	✓	-	-
61.5200.0019	-	✓	✓	-	-	-	✓	-	-
61.5200.0039	-	-	✓	-	-	-	-	✓	-
61.5200.0045	-	✓	✓	-	✓	-	✓	-	-
61.5200.0078	-	-	-	✓	✓	-	✓	-	-
61.5200.0079	-	-	✓	-	-	-	✓	-	✓
61.5200.0084	-	✓	-	-	-	-	-	✓	-
61.5200.0087	-	-	✓	✓	✓	-	✓	-	✓
61.5200.0104	✓	✓	✓	-	-	-	✓	-	✓
61.5200.0113	-	-	✓	✓	✓	✓	✓	-	-
61.5200.0115	-	-	✓	✓	✓	-	✓	-	-
61.5200.0121	-	✓	-	-	✓	-	✓	-	✓
61.5200.0123	-	✓	✓	-	-	-	✓	-	✓
61.5200.0127	✓	✓	✓	-	-	-	✓	-	✓
61.5200.0139	-	-	-	✓	✓	-	-	✓	-
61.5200.0143	-	✓	✓	-	-	-	✓	-	-
61.5200.0150	-	✓	-	-	-	-	-	✓	-
61.5200.0154	-	-	-	✓	✓	-	-	✓	-
61.5200.0159	-	-	-	✓	✓	-	✓	✓	-
61.5200.0165	-	✓	-	✓	✓	-	✓	✓	-
61.5200.0167	-	✓	-	-	-	-	✓	-	-
61.5200.0171	-	✓	✓	-	-	-	✓	-	-
61.5200.0174	-	✓	✓	-	-	-	✓	-	✓
61.5200.0185	-	-	✓	-	-	-	✓	✓	-
61.5200.0214	-	✓	-	✓	✓	-	✓	✓	-
61.5200.0225	-	-	-	✓	✓	-	✓	✓	-
61.5200.0238	-	-	-	✓	✓	✓	✓	-	-
61.5200.0241	-	-	-	✓	✓	-	✓	✓	-
61.5200.0245	-	-	✓	✓	✓	-	✓	-	-
61.5200.0251	-	✓	-	-	✓	✓	✓	✓	-
61.5200.0283	-	-	✓	✓	✓	-	✓	-	-
61.5200.0296	-	✓	-	-	-	-	-	✓	-
61.5200.0299	-	-	✓	✓	✓	-	✓	✓	-
61.5200.0303	-	-	✓	✓	✓	-	✓	-	-
61.5200.0307	-	✓	-	-	-	-	-	✓	-
61.5200.0328	-	-	-	✓	✓	-	✓	✓	✓
61.5200.0336	-	✓	✓	-	-	-	✓	✓	-
61.5200.0337	-	✓	✓	-	-	-	✓	-	-
61.5200.0341	-	✓	✓	✓	✓	-	✓	-	-
61.5200.0347	-	-	✓	-	-	-	✓	✓	-
61.5200.0349	-	-	✓	-	-	✓	✓	-	-
61.5200.0356	-	-	-	✓	✓	✓	✓	-	-
61.5200.0366	-	✓	-	-	-	-	-	✓	-
61.5200.0369	-	✓	✓	-	-	✓	✓	-	✓
61.5200.0370	-	✓	✓	-	-	-	✓	-	-
61.5200.0376	-	✓	-	-	✓	✓	✓	✓	-
61.5200.0404	-	✓	-	✓	✓	✓	✓	-	-
61.5200.0405	-	✓	✓	-	-	-	✓	-	-
61.5200.0425	-	✓	✓	-	-	✓	✓	-	-

Series 5201



-  Direct release
-  Indirect release
-  Inner release
-  Main and secondary lock
-  Main lock
-  Special rotors

-  Door installation

-  Inner handle
-  Screw fixing M8
-  Latch cover
-  Tube
-  Microswitch
-  Remote control
-  Striker bolt 13,75 mm
-  Striker bolt 17,13 mm

TO KNOW

The 5201 series is based on the 5200 latch, which is equipped with a round tube. Our double rotor latches with round tube are equipped with a fully integrated release handle, which can be flexibly positioned for your application and therefore optimally adapts to the conditions in your cabin. The round tubes have a standard diameter of 25,00 mm and can also be individually designed.

If desired, you can also connect your own tube to the double rotor latch. The connection between the latch and the internal actuation is made by cable, rod or Bowden cable. The round tubes are offered with different tube endings and if required, a mounting option for your gas spring.



61.5201.0011
Curved tube



61.5201.0025
Indirect release from the outside



61.5201.0026
Microswitch



61.5201.0127
Release handle



61.5201.0121
Tube with support bracket



61.5201.0185
Straight tube



61.5201.0219
Foamed tube



61.5201.0226
Direct release from the outside

Series 5201

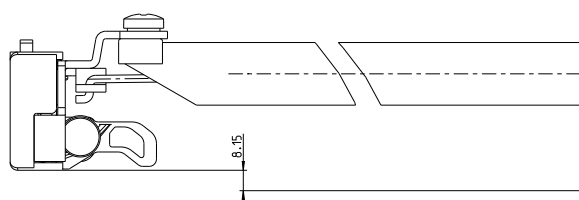
SAMPLES

Part number	Side	Tube straight	Tube with angle	Foamed tube	Direct release outside	Indirect release	Microswitch	Release handle clipsable	Total length
61.5201.0127	left	✓	-	-	✓	✓	-	✓	290,90
61.5201.0253	left	✓	-	-	-	✓	-	✓	366,30
61.5201.0011	left	-	-	-	-	✓	-	-	413,20
61.5201.0226	right	✓	-	-	✓	-	-	✓	431,90
61.5201.0205	left	-	-	✓	✓	-	-	✓	489,50
61.5201.0185	left	✓	-	-	✓	-	-	✓	544,00
61.5201.0219	left	✓	-	✓	✓	-	-	-	610,00
61.5201.0031	left	-	-	✓	✓	-	-	-	650,90
61.5201.0026	right	-	-	-	✓	-	✓	-	682,00
61.5201.0121	left	✓	✓	-	✓	-	-	-	715,80
61.5201.0025	left	✓	-	-	-	✓	-	-	830,30
61.5201.0019	left	✓	-	✓	✓	-	-	-	908,00

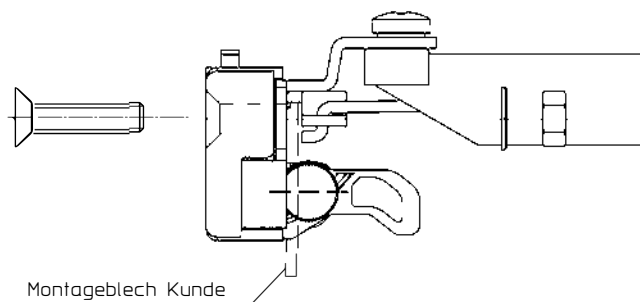
AVAILABLE ACCESSORIES



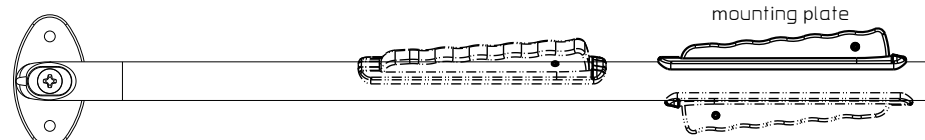
TECHNICAL DRAWING



ASSEMBLY



RELEASE HANDLE POSITION FLEXIBLE



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8

Series 5201

VERSATILE PRODUCTS

We also offer a selection of release handle variants and plastic covers for the latch as standard, which harmoniously completes the overall appearance.

We will be happy to create a set for you that includes all the necessary accessories, such as locking bolts, deflector brackets and also threaded plates and washers depending on your needs.

As a luxury option, you can choose a fully foamed version with integrated armrest. In the event of a collision, the completely foam covered tube provides higher safety for the operator or driver and also increases comfort, as you can rest your forearm on the foamed armrest.

RELEASE HANDLE



Clipsable Release handle
41.5211.3501



Screwable release handle,
adjustable 41.5201.0701



Release handle adjustable
41.5201.1803



Model 2021
Release handle - Lower release
force required 41.5215.4401

INDIVIDUAL TUBE DESIGN



Tube end metal



Tube end (glass installation)



Tube end (metal installation)



Tube end with thread



Gas spring connection



Tube end with support bracket



Tube with additional thread



Open tube end

COVER



Big cover

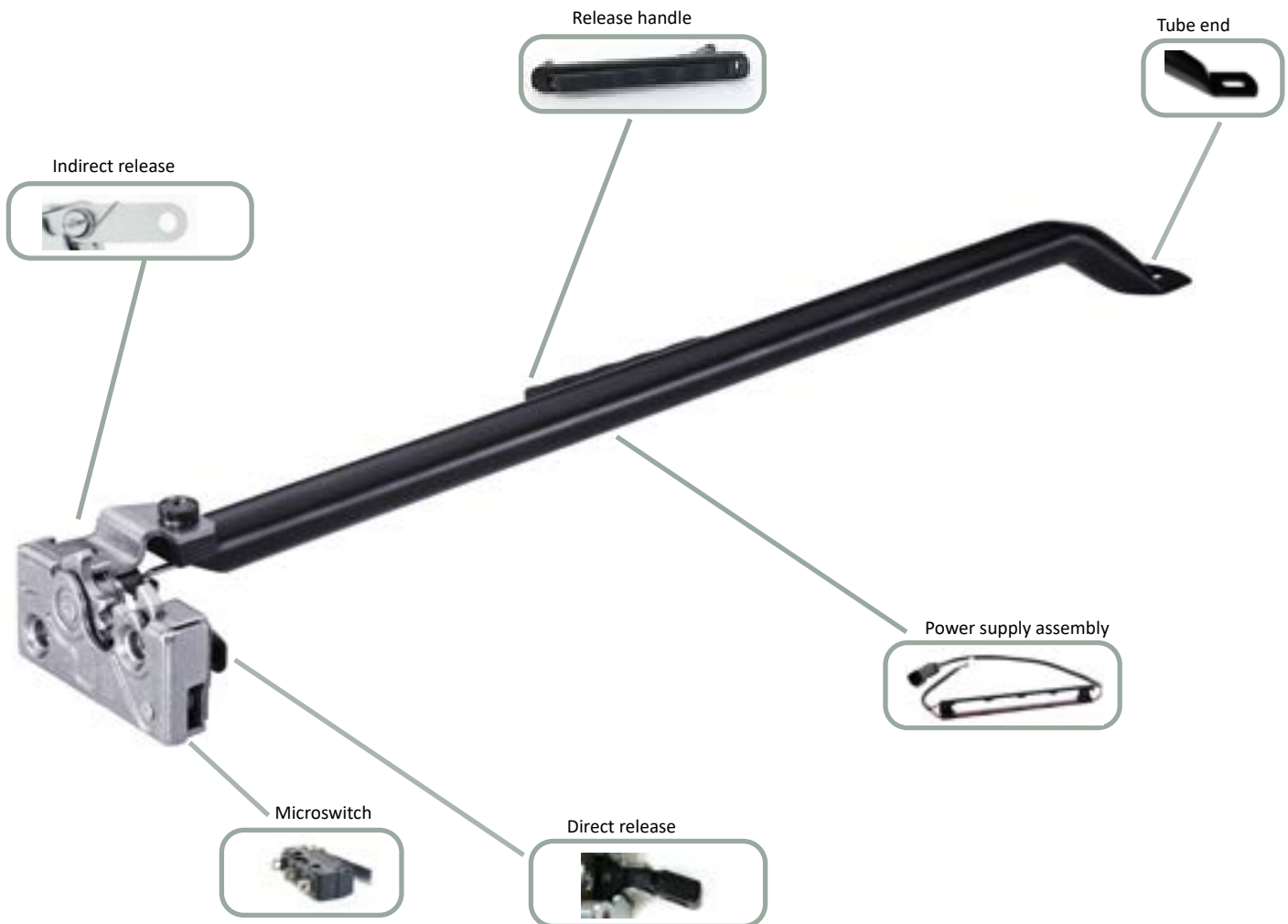


Small cover



Integrated cap for latch cover

Series 5201



We understand the wishes of our customers and convince with **excellent solutions**

ELECTRONIC COMPONENTS FOR MORE FUNCTIONS

For several years we have been supplying our double rotor latches to many customers in versions with remote control key. You can purchase our latches with microswitches which provide lockout protection in combination with the remote control key and central locking system.

In addition, we ensure that a mechanical emergency release is provided with our remote control key in the event of a power failure. Of course our components can be combined with a central locking system (12 or 24 volt).

CDL-motor



Logic box



Remote control key



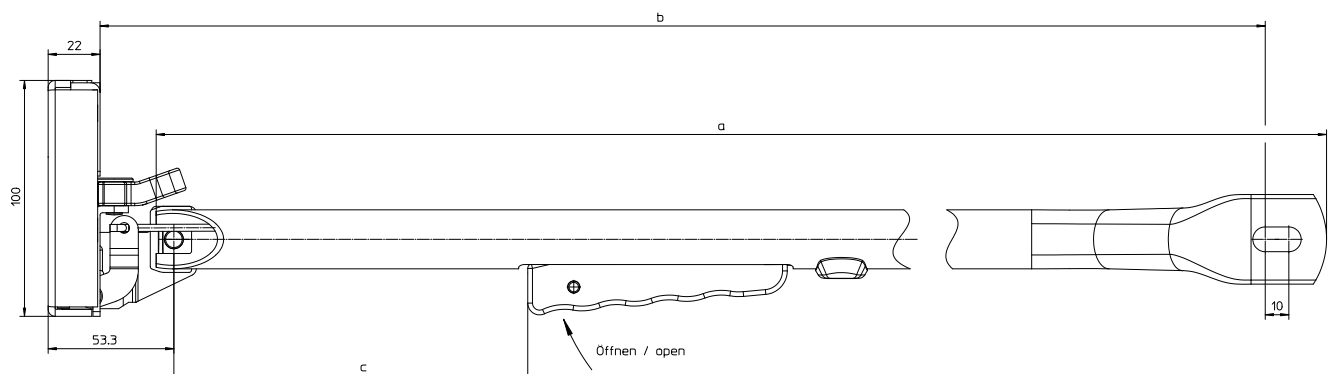
Series 5201



STRAIGHT ROUND TUBES - OVERVIEW

Part number	Direct release outside	Indirect release	Microswitch	Release handle clipsable	Tube end glass	(a) Tube length	(b) Tube assembly	(c) Screw to RH ¹	Total length
61.5201.0127	✓	✓	-	✓	-	245,10	237,60	49,50	290,90
61.5201.0253	-	✓	-	✓	-	251,50	286,00	63,00	366,30
61.5201.0256	✓	-	-	✓	✓	285,00	324,50	65,00	385,00
61.5201.0226	✓	-	-	✓	-	386,10	378,60	180,90	431,90
61.5201.0234	✓	-	-	-	-	391,50	426,00	178,70	506,30
61.5201.0254	-	✓	-	✓	-	426,50	461,00	181,00	541,30
61.5201.0185	✓	-	-	✓	✓	451,20	490,70	254,90	544,00
61.5201.0054	✓	-	-	-	-	496,50	531,00	276,90	584,30
61.5201.0095	✓	-	-	-	-	496,50	531,00	276,90	584,30
61.5201.0176	-	✓	-	-	-	485,60	520,10	278,10	600,40
61.5201.0191	✓	-	-	-	-	496,50	531,00	276,90	611,30
61.5201.0239	-	✓	✓	-	-	496,50	531,00	212,50	611,30
61.5201.0121	✓	-	-	-	-	670,00	625,00	182,50	715,80
61.5201.0222	-	✓	-	-	-	750,00	686,00	150,00	739,30
61.5201.0001	✓	-	-	-	-	694,50	661,00	212,50	740,30
61.5201.0030	✓	-	-	-	-	718,50	685,00	277,00	754,30
61.5201.0025	-	✓	-	-	-	768,50	761,00	330,00	830,30

TECHNICAL DRAWING STRAIGHT ROUND TUBE



¹RH- release handle

Series 5201

CURVED ROUND TUBE - OVERVIEW



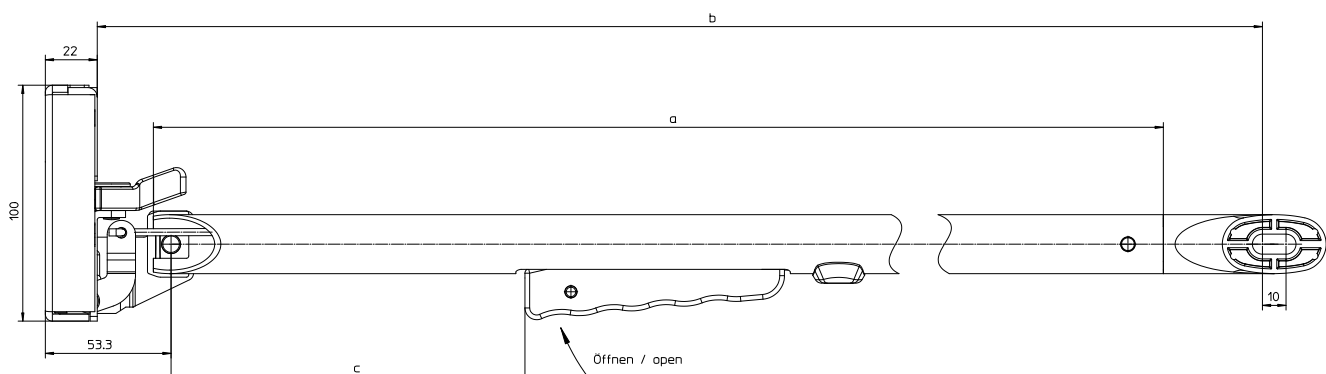
Part number	Direct release outside	Indirect release	Microswitch	Release handle clipsable	Tube end glass	(a) Tube length	(b) Tube assembly	(c) Screw to RH ¹	Total length
61.5201.0011	-	✓	-	-	-	467,40	359,90	184,00	413,20
61.5201.0026	✓	-	✓	-	-	630,20	612,70	90,00	682,00
61.5201.0168	✓	-	-	✓	-	642,60	668,40	194,70	732,90
61.5201.0035	✓	-	-	-	✓	615,10	662,50	276,90	734,10
61.5201.0169	-	✓	✓	-	-	827,30	797,00	166,20	850,30
61.5201.0040	-	✓	-	-	-	494,70	821,00	601,90	874,30
61.5201.0259	✓	-	-	-	-	912,10	904,60	213,60	983,90

FOAMED ROUND TUBE - OVERVIEW



Part number	Tube straight	Release handle clipsable	Cover assembly	Tube end glass	(a) Tube length	(b) Tube assembly	(c) Screw to RH ¹	Total length
61.5201.0205	-	✓	-	✓	385,30	369,00	135,60	489,50
61.5201.0219	✓	-	-	✓	515,50	555,00	277,60	610,00
61.5201.0031	-	-	-	-	598,10	597,88	209,40	650,90
61.5201.0077	✓	-	✓	✓	437,60	678,10	276,90	731,40
61.5201.0007	-	-	-	-	667,50	693,40	276,00	746,70
61.5201.0019	✓	-	✓	-	836,20	833,70	276,90	908,00

TECHNICAL DRAWING WITH SEPARATE TUBE END

¹RH- release handle

Series 5300



Direct release



Indirect release



Inner handle



Main and secondary lock



Main lock



Hood installation



Door installation



Inner handle



Screw fixing M8



Latch cover



Striker bolt 10,00 mm

TO KNOW

The 5300 rotary latch can be installed in an extremely space-saving manner. It is suitable for small doors as well as flaps. Its low weight is a convincing feature.

This new generation of latches is the result of scientific development in cooperation with the University of Wuppertal in order to meet changing market requirements. The calculations and designs were based on optimizing the interaction of all individual parts.

Both rotor latches are blocked by a separate pawl which results, among other things, in extremely low release forces. The special feature of this latch is its symmetrical design: elimination of the distinction between left and right.

The assembly is particularly user-friendly with only two screws. In addition, this series only needs to be cleaned and not greased.



61.5300.0001
Direct release outside



61.5300.0002
Direct release inside



61.5300.0003
Indirect release outside



61.5300.0004
Hood latch



61.5300.0005
Inner handle



61.5300.0006
Door latch




61.5300.0008
Release lever short



61.5300.0009
Latch with deflection

Series 5300

SAMPLES

Part number	Direct release outside	Indirect release outside	Direct release inside	Inner handle (Indirect release)	Internal handle	Door	Hood/ Flap	 Customized
61.5300.0001	✓	-	-	-	-	✓	✓	-
61.5300.0002	-	-	✓	-	-	✓	-	-
61.5300.0003	-	✓	-	✓	-	✓	-	-
61.5300.0004	✓	-	-	-	-	✓	✓	-
61.5300.0005	-	-	✓	-	✓	✓	-	-
61.5300.0006	✓	-	-	✓	-	✓	-	-
61.5300.0007	✓	✓	-	✓	-	✓	✓	-
61.5300.0008	✓	-	-	-	-	✓	-	-
61.5300.0009	-	✓	-	-	-	✓	-	-
61.5300.0010	-	-	✓	-	-	✓	-	✓

AVAILABLE ACCESSORIES



Striker bolt



Inner handle

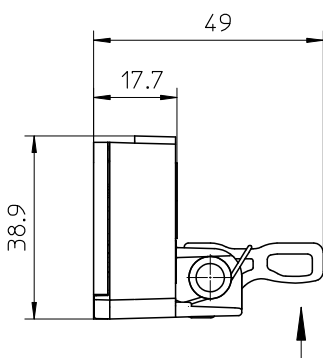


Cover

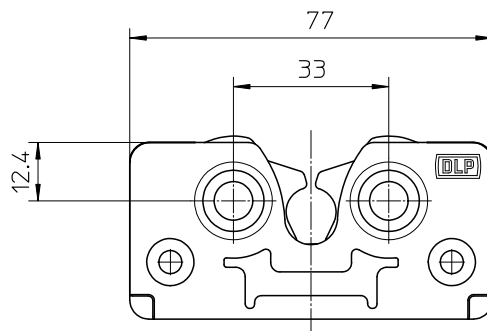


Our latch 61.5300.0002 can be used with cover 26.5300.0700 as a compact assembly for doors.

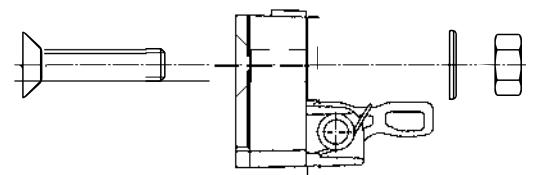
TECHNICAL DRAWING



Öffnen / open



ASSEMBLY




Montageblech Kunde
mounting plate


Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8

Series 5300



BENEFITS AT A GLANCE

 **Symmetrical design** (elimination of left/right distinction)

 **Simple mounting** (two M8 screws, DIN EN ISO 10642)

 **Chrome-VI free**

 **Low release force**

MODULAR PRINCIPLE

In this product series, the basic body remains unchanged. By adding different release mechanisms, the basic body can be completed into an independent latch concept by applying the modular principle. This allows the body of the basic latch to be produced on a fully automated line to meet today's high quality standards.

No matter whether it's a requirement of a customer or our own idea, we are continuously working on additional variants to make this series even more flexible for you. Currently we have two different basic latch bodies. Our rotor latches are available with main and secondary lock for doors or only with a main lock for flaps and hoods.

We will be happy to advise you and find the right product for your individual application.

ROTOR VARIANTS



Rotors with main and secondary-lock suitable for doors and hoods.



Rotors with main lock only suitable for hoods and flaps.



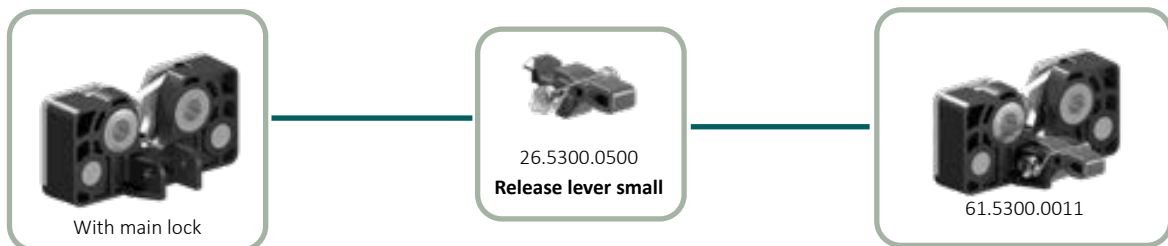
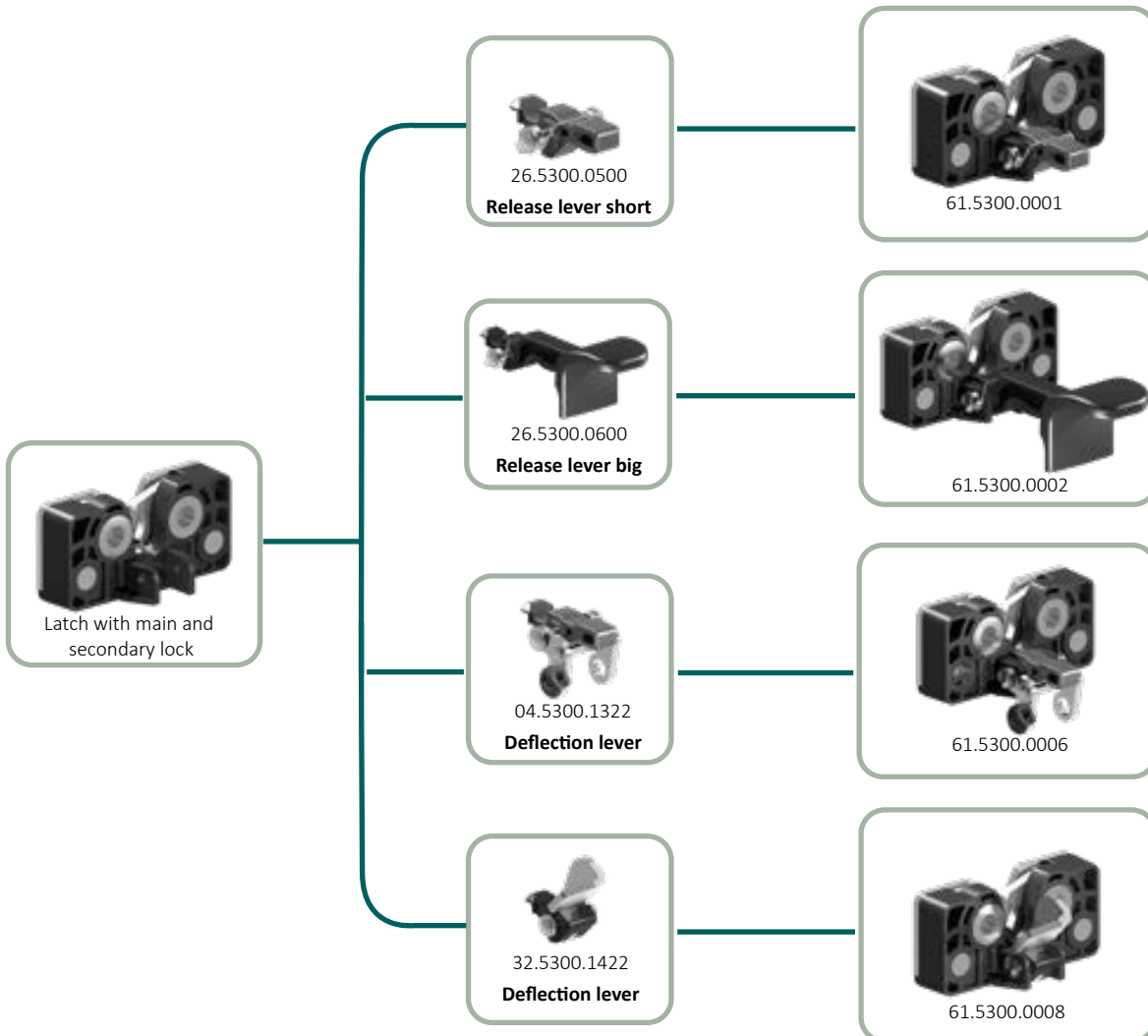
Detailed view

Series 5300

BASIC LATCH

RELEASE ASSEMBLY

PART NUMBER LATCH



MODULAR PRINCIPLE

For new release variants according to individual customer requirements, the standard products (basic latch and release lever) are used, so only the reversing lever has to be adapted to your needs.



61.5300.0004
Basic latch with release lever



Individual deflection lever

Series 5400



Direct release



Indirect release



Inner release



Main and secondary lock



Rotors with Antifricor coating



Door installation



Screw connection M8



Cover



Tube



Microswitch



Remote control



U-bolt

TO KNOW

This new generation of latches is the result of scientific collaboration with the University of Wuppertal. When the door is hanging or poorly adjusted, the guiding wedge of the striker guides the latch onto the ramp of the plastic housing into an optimal locking position.

Another advantage is the resulting reduced wear of the rotors and the u-bolt. This improves the opening and closing of the door and increases the service life of the locking components. This series also impresses with its low maintenance requirement as only cleaning is required and no subsequent greasing.



61.5400.0001
Basic latch



61.5400.0002
Direct release inside/outside



61.5400.0003
Microswitch on both sides



61.5400.0005
Indirect release inside/outside



61.5400.0006
Basic latch with microswitch



61.5400.0007
Basic latch with microswitch



61.5400.0008
Microswitch + direct release



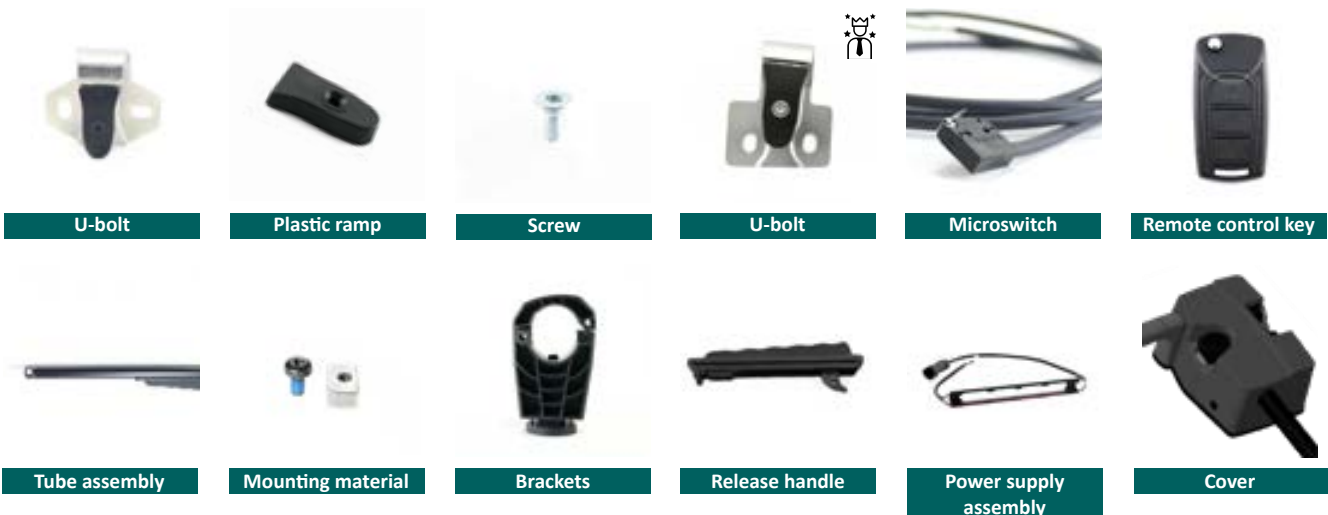
61.5400.0009
Microswitch + direct release

Series 5400

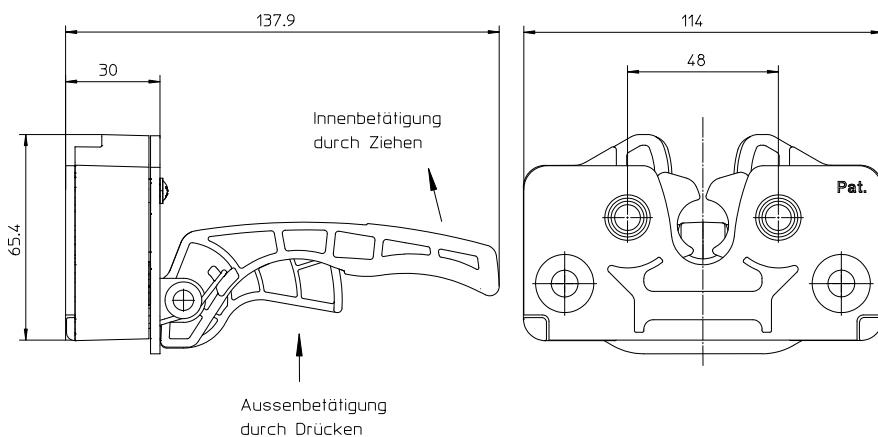
SAMPLES

Part number	Basic body	Direct-release inside	Direct release outside	Indirect release inside	Indirect release outside	Closure with motor	Release lever assembly	Micro-switch	Tube	Customized
61.5400.0001	✓	-	-	-	-	-	-	-	-	-
61.5400.0002		✓	✓	-	-	-	✓	-	-	-
61.5400.0003	✓	-	-	-	-	-	-	✓	-	-
61.5400.0004	-	-	-	✓	✓	✓	-	✓	-	✓
61.5400.0005	-	-	-	✓	✓	✓	-	✓	-	✓
61.5400.0006	✓	-	-	-	-	-	-	✓	-	-
61.5400.0007	✓	-	-	-	-	-	-	✓	-	-
61.5400.0008	-	✓	✓	-	-	-	✓	✓	-	-
61.5400.0009	-	✓	✓	-	-	-	✓	✓	-	-
61.5400.0010	-	-	✓	✓	-	-	-	-	✓	-
61.5400.0011	-	-	✓	✓	-	-	-	✓	✓	-
61.5400.0012	-	-	✓	✓	-	-	-	✓	✓	-

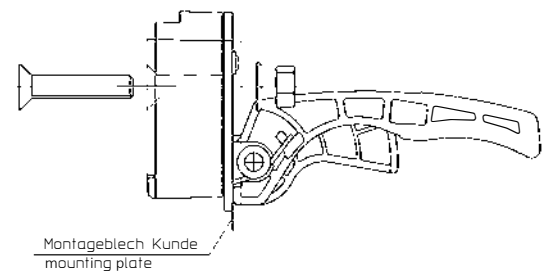
AVAILABLE ACCESSORIES



TECHNICAL DRAWING



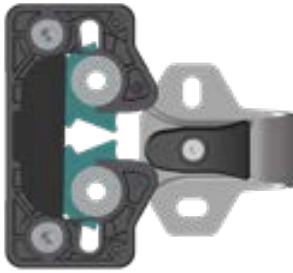
ASSEMBLY



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 10.9

Series 5400

FUNCTIONAL REPRESENTATION



1. The door starts to be lifted onto the ramp of the latch when it meets the guiding wedge of the closing bracket.



2. The guiding wedge brings the latch over the ramp of the plastic housing into an optimal locking position. This movement is supported by a rolling locking bolt sleeve which allows an easy run-in.



3. An ideal engagement of the latch bolt and latch rotors is achieved by the leading and lifting action.



4. The latch can be opened very easily due to the optimum pivot points, leverage and symmetrical design. The closing bracket and latch ramp absorb the weight of the door and therefore prevent the rotors and pawls from jamming.

MANY ADVANTAGES AT A GLANCE



Internationally patented new development of an extremely resilient double rotar latch (Designed & Made in Germany)



Symmetrical design
(elimination of left/right distinction)



Fulfils all **current standards** (M1, ECER11, SAEJ839, FMVSS 206, etc.)



Easy mounting (two M8 screws, DIN EN ISO10642)



Replacement of the plastic guide wedge possible after several 100.000 cycles (**low effort/ low costs**)



High tolerance compensation in the area of the locking bolt intake



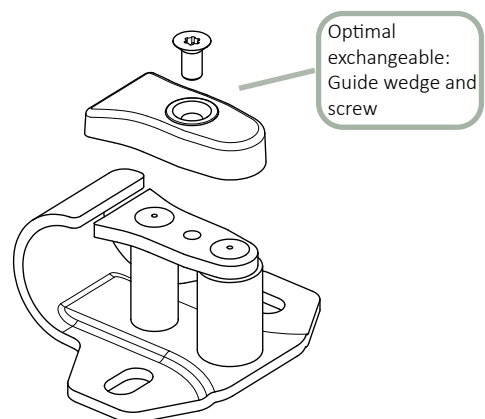
Chrome VI free



Low release force

SPARE PART

In case of a hanging or poorly adjusted door, the guide wedge guides the lock up the ramp of the plastic housing into an optimal run-in position (less wear on rotors/bolts). Replacing the guide wedge involves little effort and low costs.



Optimal exchangeable: Guide wedge and screw



44.5400.5001



26.5400.5600



05.0018.1802

Series 5400

APPLICATION
EXAMPLE**COMPLETE LOCKING SYSTEM**

The market shows us that our customers want a proven overall concept. With the new system, we offer you an attractive cover for your door.

The concept shows a latch with a direct thumb operation, which convinces by its very comfortable handling. The outside handle unlocks the latch through a rod.



View from outside



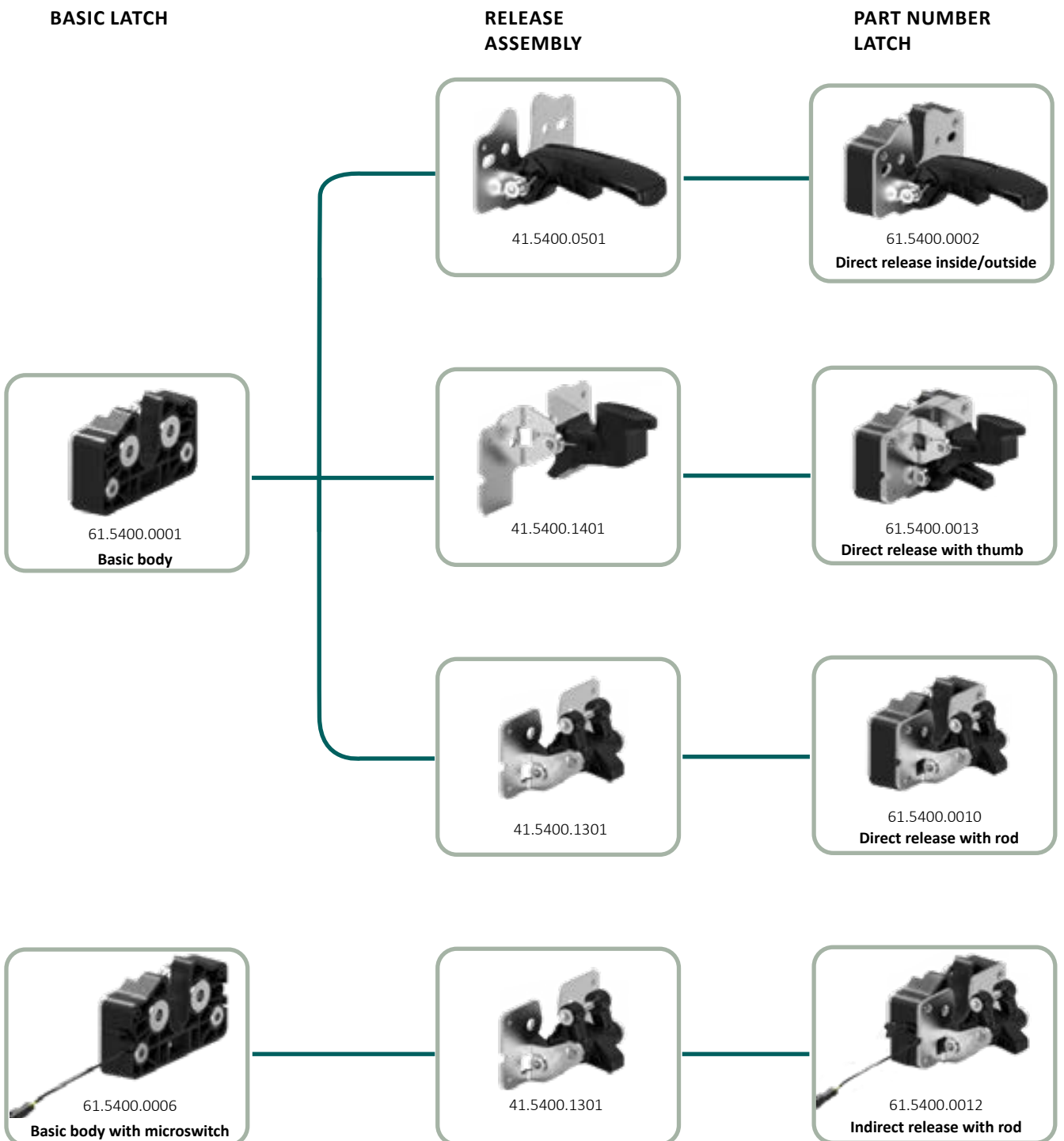
View from inside

Series 5400

MODULAR PRINCIPLE

Modern latches must be flexible enough to be adapted to different customer requirements. For this reason, we are constantly working on additional variants and options, either at the request of customers or based on our own ideas.

The basic latch body always remains unchanged and can be supplemented by adapting various components into a modular system. This means that the basic body can be produced fully automatically to a high quality standard.



Series 5400

BASIC LATCH



61.5400.0001

RELEASE ASSEMBLY



41.5400.1301

ASSEMBLY TUBE MOUNTING



Mounting plate

TUBE ASSEMBLY



Assembly tube with bracket



61.5400.0003



41.5400.1302



Bracket



Assembly tube with bracket

TO KNOW

The 5400 latch is prepared for a connection to a round tube. Our double rotor latch with round tube is equipped with a fully integrated internal release that can be flexibly positioned for your application and therefore optimally adapted to the conditions in your cabin. The round tubes have a standard diameter of 25,00 mm and can also be customized.

If desired, you can also connect your own tube to the double rotor latch. The connection between the latch and the internal release lever is made through a rod.

The tube is attached to the latch either by an adapter, an plate or our tube connector at your site. The scope of delivery therefore includes the desired basic latch with the internal release (mounted) and the tube assembly with the corresponding screws etc.

The round tubes are offered with different endings. We also offer a selection of internal release variants as standard. We will be glad to create a set for you that includes the required accessories according to your needs.



A good feeling right from the start

Series 5500

PULL CLOSE POWER LATCH



Indirect release



Inner release



Main and secondary lock



Door installation



Hood installation



Screw connection EJOT



Remote control



Tube



Microswitch



Striker



Electronics

TO KNOW

This latch has an integrated motor that enables the cabin door to be closed electrically. Depending on the settings, the closing process takes about 5 seconds.

Our 5500 series is particularly compact compared to our competitors products, as all components are perfectly matched to each other and therefore only a small installation space is required.

The latch must be equipped with an additional lever. This serves as an internal release, so that the latch can be unlocked manually. Alternatively, the electric opening motor ("Open Support") or a mechanical inside and outside actuation is connected to this release lever.

By using a CDL motor, additional features can be programmed.



61.5500.0001

SYSTEM REQUIREMENTS

Voltage:	13,5 Volt
Power consumption:	3,5 A
Comfort function:	ca. 5 sec
Normal pressure:	appr. 200N
Electronic function:	appr. 80.000 cycles
Temperature range:	-10°/+70°
Control unit (logic box):	needed

Series 5500

FUNCTIONAL DISPLAY OF ACTUATION POSSIBILITIES

RELEASE WITH DOOR HANDLE
Direct release from the outside



1. By operating the handle from outside, a lever is pressed to release the latch.

RELEASE WITH RELEASE HANDLE
Indirect release from the inside



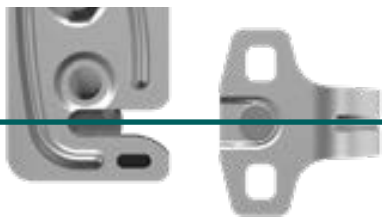
2. The latch is opened via an interior release in the tube and an additional release lever on the latch.

RELEASE WITH OS MOTOR
Electronic release



3. The Open-support motor is controlled by the remote control key or the electronic door sensor so that the latch is opened.

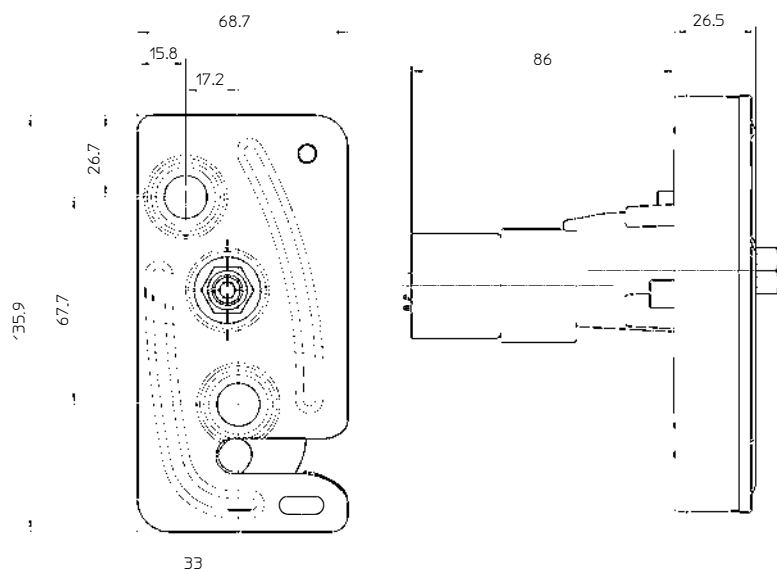
CATCH AND ENTRY AREA



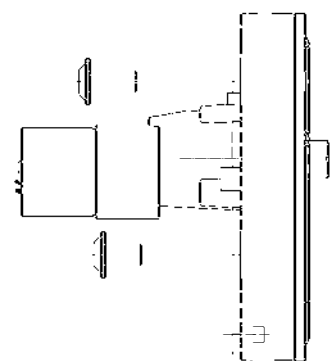
To ensure a perfect run-in, the latch must be installed parallel to the striker. The striker can be adjusted.

During installing, please ensure that the striker and the latch are well aligned to each other.

TECHNICAL DRAWING



ASSEMBLY



Montageblech
mounting plate

Tightening torque	25 Nm
Screw	M8

Series 5500

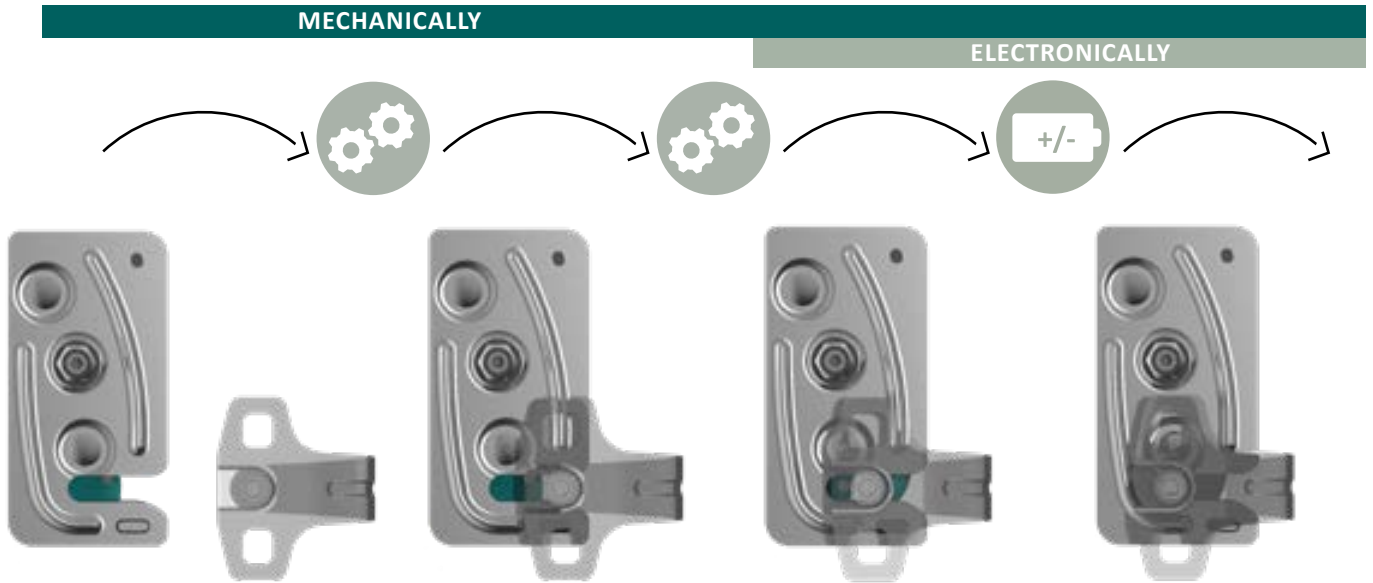
FUNCTION REPRESENTATION PULL

STANDARD FUNCTION

The latch can close the door mechanically without using the electronic function.

COMFORT FUNCTION

The latch can close the door electronically.



1. The striker and the latch are separate. The door is open.

2. The striker locates into the catch and entry area. The user closes the door.

3. The striker is in the secondary lock position. The mechanism in the latch recognizes the status and closes the door electrically.

4. The electronic locking mechanism is now complete. The striker is caught in the main lock. The door is completely closed.

MANY ADVANTAGES AT A GLANCE

Internationally **patented** new development of a latch closing aid (Designed & Made in Germany)

Precision components made from state-of-the-art materials

More **security and convenience** by querying the microswitch (for 100% locked state feedback)

Equipped with a **planetary gear** for power transmission

Chrome-VI-free surfaces

Easy construction

Compact assembly (latch and motor are one unit)

Slow closing of the door due to high power transmission

Quiet closing function

Controlled **air displacement** from the cabin (Overcoming the air cushion)

LIN-/CAN-Bus integration

Premium function possible (fully automatic closing of the door)

Series 5500

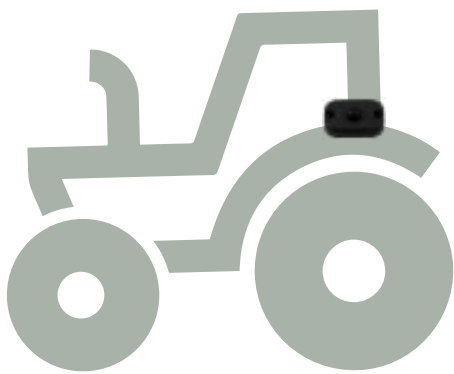
LUXURY VARIANT: DOOR OPENING

With our external door sensor, the vehicle door can be opened without operating the door handle. After this has been paired with the logic box, the door sensor can be positioned flexibly for your application on the outside at any location. Press the button by hand and the latch opens.

★ **The door swings open with the help of a gas pressure spring or an electronic spindle drive.**

For example the door sensor is used in the sprayer market. The advantage here is that the driver does not have to touch the door handle, which may be contaminated with chemicals, to open the door.

Another application is for door handles that are difficult to reach. It makes it easier for the driver to enter the cabin when the door is already open.



1. Unlock or open the door with the remote control key ★ (double-click lowest button) or unlock the door with a mechanical key.



2. Operate the external door sensor (when the locking system is unlocked) by pressing button and trigger the opening mechanism.



3. The latch is opened by using an additional motor. This supports the opening of the door and ★



COMPONENTS OVERVIEW

Electronic latch products



Latch



Logic box



Release lever



Striker bolt

Additional application products



External door button



Motor



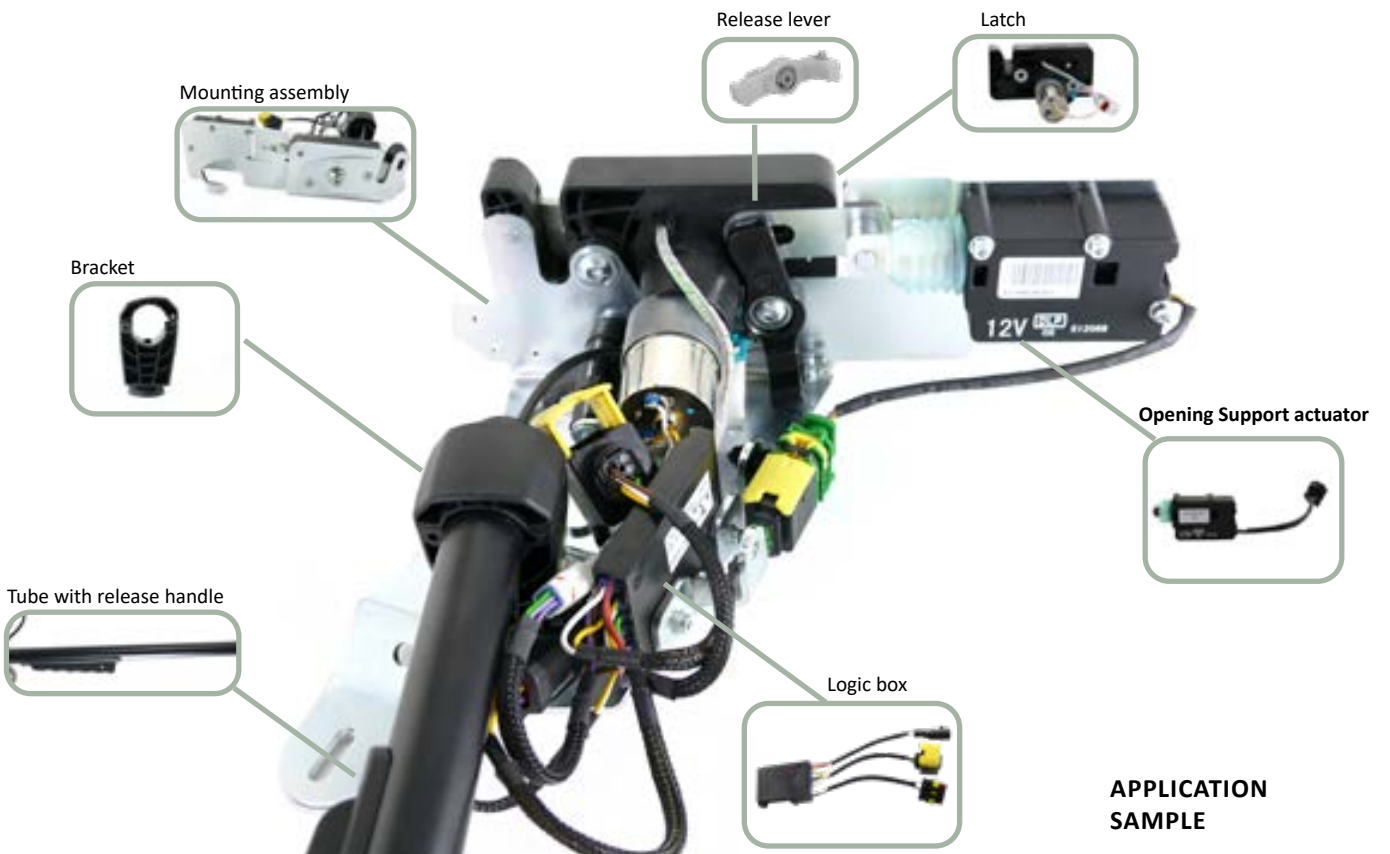
Remote control key



Gas spring/spindle drive

External product

Series 5500



Series 5500

COMPONENTS OVERVIEW

Central door locking products



Push button handle with impulse



Remote control key



Central-door-locking motor



Actuator central locking

Further products



Tube assembly



Mounting plate



Gasket



*customized product

End cap

FUNCTIONAL DESCRIPTION

The electronic latch with closing function is a comfort enhancement for your vehicle. Our latch already has an electric motor that can pull the door closed. The process of pulling the door closed takes about 5 seconds, depending on the setting. The latch is made up of different components.

A logic box is required for each latch to control the electronic functions. The assembly of an additional lever, which triggers the latch mechanically or electronically, is necessary.

The specially developed striker is an indispensable additional part for the electronic latch. Our open-support actuator operates the electronic opening of the latch.

The connection of a central locking system is a further expansion stage. The CDL motor assembly locks and unlocks the door handle. With the remote control key, you cannot only unlock the door, but also other features can be used.

We offer you a luxury variant with our external door sensor. This can be attached to any external position on the vehicle. With the help of a gas spring or an electronic spindle drive, the door opens at the push of a button.

Other products, that complete the electric door closing mechanism, are both the push-button handle and the assembly mounting plate or a sealing to protect the glass pane.

Our premium variant is the absolute highlight for your vehicle: the electronic closing of the door by remote control key. We offer you a closing of the door at the push of a button. A spindle drive, which you can purchase from many manufacturers, enables this function. The impulse needed for this can be given by our remote control key. Since our components are compatible with other products, we can offer you automotive luxury.



Series 5005



Indirect release



Main and secondary lock



Hood installation



Screw fixing M6



Striker bolt

TO KNOW

Our extremely resilient 5005 series latch for medium and heavy flaps or hoods is available in both right and left hand version without safety device. In combination with the flap handles of the 4713 series and our 7003 series interior release, you have a proven concept that is also used in a very similar form in the automotive industry.



61.5005.0001

OFL Fe/Zn X DS up to 240 hours salt spray resistance



61.5005.0002

OFL Fe/Zn X DS up to 240 hours salt spray resistance

CORRESPONDING STRIKER BOLT

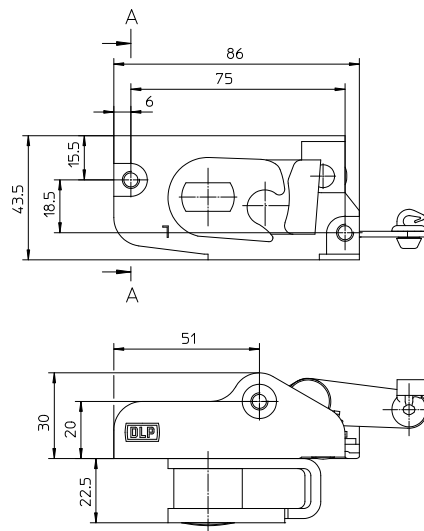


44.5005.1001

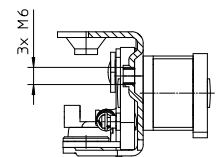


44.5005.1002

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	10 Nm
Screw	M6 8.8

Series 5005



Indirect release



Main and secondary lock



Door installation



Screw fixing M6



Striker bolt



TO KNOW

These latches are purely door latches, which you can obtain with internal security or even lock-out protection (61.5005.0101). The striker bolt with guide wedge was designed to match.

It is a durable latch concept that can withstand high loads. Opening the latch requires very low release forces even at high counter pressures.



61.5005.0017
Safety device



61.5005.0018
Lock-out protection

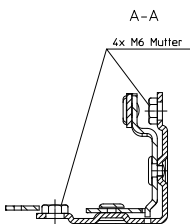


61.5005.0019
Direct release

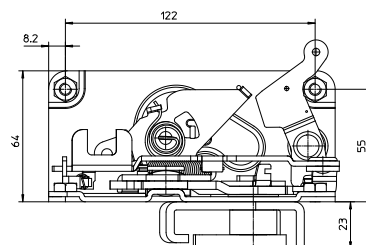
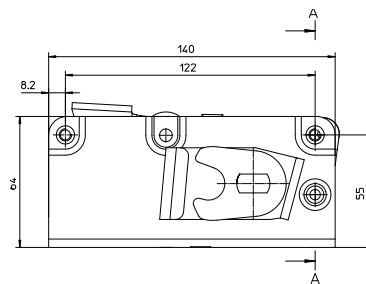


61.5005.0020
up to 240 hours salt spray resistance

ASSEMBLY



TECHNICAL DRAWING



CORRESPONDING STRIKER BOLT



44.5005.1005



44.5005.1006

Tightening torque	10 Nm
Screw	M6 8.8

Series 5005



Safety device



Indirect release



Main and secondary lock



Door installation



Screw fixing M6



Striker bolt

TO KNOW

The latch variants shown here are perfectly suitable for small doors. The latch can be locked and unlocked from the inside and offer a lock-out protection. To open the latch from the inside, an interior release mechanism must be added.

You can combine the latch with all our handles. The striker bolt with guide wedge was designed to match.



61.5005.0103
Left version



61.5005.0104
Right version



61.5005.0111
Left version



61.5005.0112
Right version

CORRESPONDING STRIKER BOLT

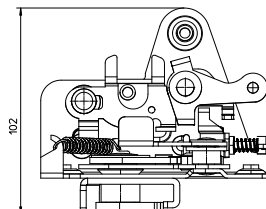
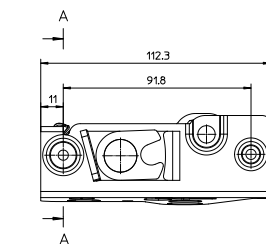


44.5005.1003

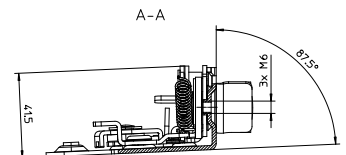


44.5005.1004

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	10 Nm
Screw	M6 8.8

Series 5006



Indirect release



Main lock



Hood installation



Screw fixing M6



Striker bolt



TO KNOW

Our extremely resilient 5006 series hood latch can be used in all hood types, but can only be installed in combination with the 44.5006.1001 striker bolt. It is characterized by its durability even under high loads.

The latch is operated from the inside via an indirect release. This locking system is a proven concept that is also used in the automotive industry.

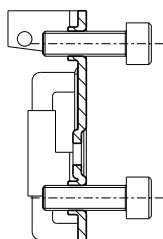


61.5006.0001
Indirect release inside



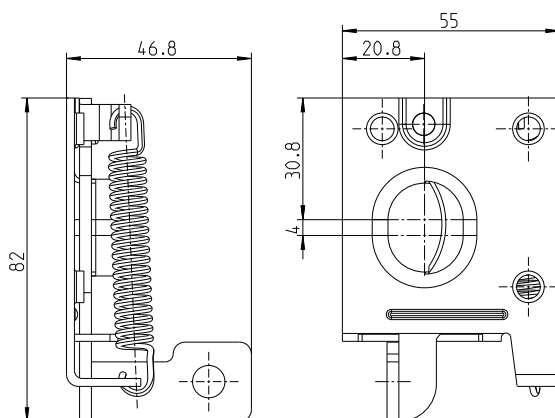
61.5006.0003
With riveted lug

ASSEMBLY



Tightening torque	10 Nm
Screw	M6 8.8

TECHNICAL DRAWING

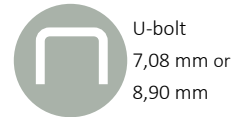


CORRESPONDING STRIKER BOLT



44.5006.1001

Series 5035



TO KNOW

Our 5035 series latches have been specially developed for the side flaps of harvesting machines such as combines, forage harvesters or balers. They meet the requirements of the ISO/TS 28923 standard, which states that no additional opening mechanisms such as handles or knobs are required to unlock these products from the outside. You can operate these flap latch with a simple tool.

The US variants of this series are available with an additional release knob. The flap latches with M6 threads with the hexagon on can be operated with a release knob. This series is of course also suitable for other flaps, hoods or service hatches. The items in this series do not have a secondary lock so they should not be used in doors. Various u-bolts are available as corresponding products for this latch.



61.5035.0001
Hexagon made of stainless steel



61.5035.0002
Rotor 8,00 mm



61.5035.0003
US-variant release knob



61.5035.0004
Open with tool M6



61.5035.0006
Hexagon length 40,00 mm



61.5035.0007
Rotor 9,00 mm



61.5035.0008
Open with hexagon key



61.5035.0012
Open with tool or coin

Series 5035

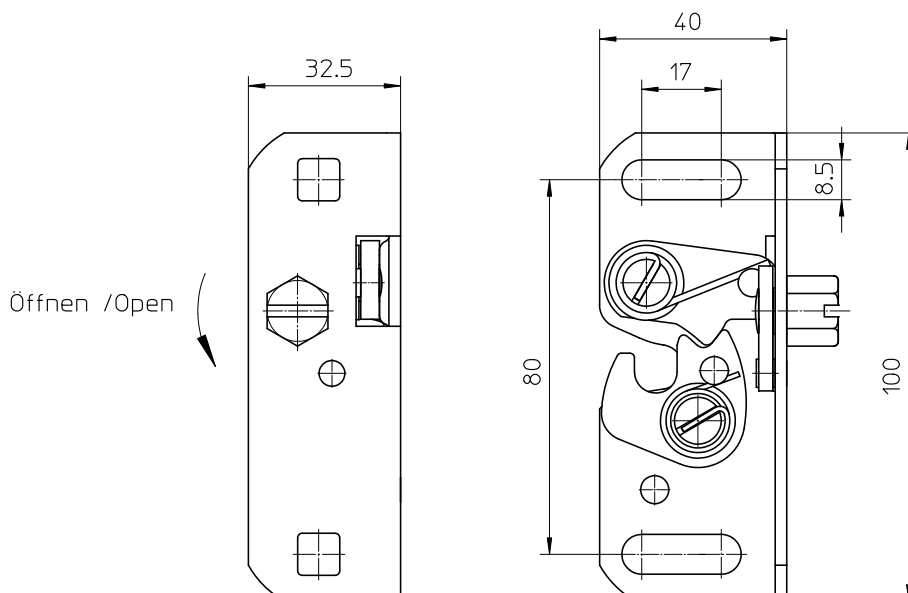
SAMPLES

Part number	Rotor in mm	Open with a coin	Open with tool M6	Length hexagonal in mm	Release knob available
61.5035.0001	9,00	✓	-	11,00	-
61.5035.0002	8,00	✓	-	11,00	-
61.5035.0003	8,00	-	✓	21,50	✓
61.5035.0004	8,00	-	✓	21,50	-
61.5035.0006	9,00	✓	✓	40,00	-
61.5035.0007	9,00	✓	✓	40,00	-
61.5035.0008	8,00	-	-	40,00	-
61.5035.0009	9,00	-	-	11,00	-
61.5035.0011	8,00	-	-	11,00	-
61.5035.0012	9,00	✓	✓	16,00	-
61.5035.0013	8,00	-	-	26,00	-

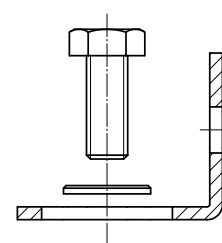
AVAILABLE ACCESSORIES



TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	M8-8.8

Series 5036



Direct release



Main lock



Hood installation



M8 Screw fixing



U-bolt 8,00 mm



U-bolt 7,08 mm or 8,90 mm



TO KNOW

Our 5036 latch series is used in hoods, flaps or hatches. Thanks to the use of large material thickness and the best steel qualities, it is characterized by its extreme load-bearing capacity. This series is ideally suited for installation in difficult applications, as it requires very little installation space. The adjustment of these latches is facilitated by the slotted mounting holes.

The unlocking is done from the outside by using one of our push buttons, handles or, as also practiced by some customers, by a simple hole in the metal plate, so that it can be unlocked by hand.

Some variants have a bracket guide in the latch sheet, so that tolerant or shaky applications can be safely guided into the latch. In combination with our 4706 and 4709 flap handles, you get a very stable and compact overall solution.



61.5036.0001
Length of lever 36,70 mm



61.5036.0002
Length of lever 22,50 mm



61.5036.0007
Rotor 8,90 mm



61.5036.0008
Curved lever



61.5036.0201
For flat handle 4709



61.5036.0203
For handle 4706



58.4706.0203
Latch with flat handle



58.4709.0201
Latch with flat handle

Series 5036

SAMPLES

Part number	Rotor in mm	Safety device	Lever 36,7 mm	Lever 22,5 mm	Curved lever	Lever with inner handle	for 4706	for 4709
61.5036.0001	8,00	-	✓	-	-	-	-	-
61.5036.0002	8,00	-	-	✓	-	-	-	-
61.5036.0004	8,90	-	-	✓	-	-	-	-
61.5036.0006	8,90	-	-	✓	-	-	-	-
61.5036.0007	8,90	-	-	✓	-	-	-	-
61.5036.0008	8,90	-	-	-	✓	-	-	-
61.5036.0009	8,90	-	-	✓	-	-	-	-
61.5036.0010	8,00	-	✓	-	-	-	-	-
61.5036.0011	8,90	-	-	-	✓	-	-	-
61.5036.0013	8,90	-	-	-	✓	-	-	-
61.5036.0201	8,00	-	-	✓	-	-	-	✓
61.5036.0203	8,00	✓	-	-	✓	✓	✓	-

AVAILABLE ACCESSORIES



U-bolt



U-bolt



U-bolt

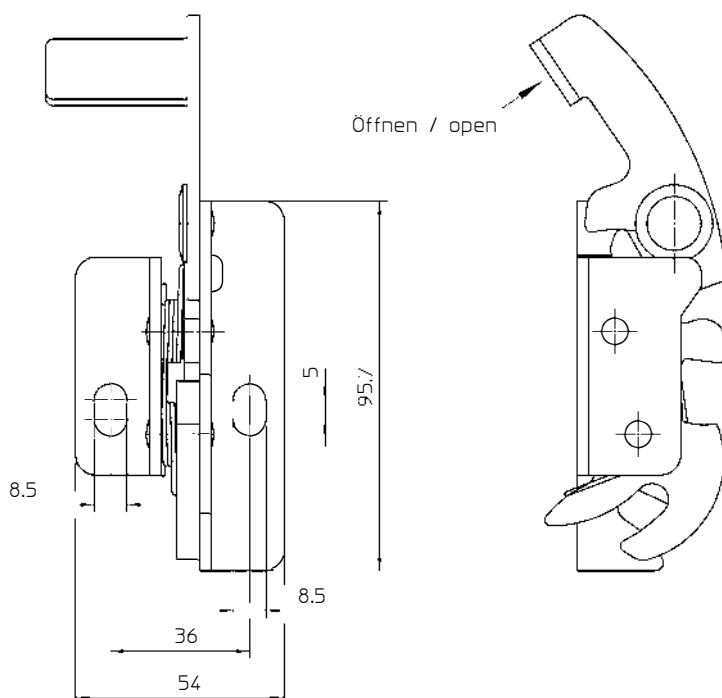


58.4709.0201

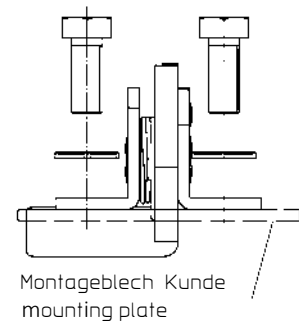


58.4706.0203

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	M8-8.8

Series 5039



Direct
release



Indirect
release



Inner
release



Main
lock



Hood
installation



Door
installation



Inner handle



Screw fixing
M8



Microswitch



Remote
control



Striker bolt
8,00, 12,00 or
22,00 mm



U-bolt
8,90 mm



TO KNOW

The latches of the 5039 series are extremely resilient single rotor latches for the heaviest applications. With this product you can choose from different rotors and surface coatings. We can define the latch depending on your individual application. We offer rotors with a possible capture diameter for striker or u-bolt striker in 8,00 mm, 12,00 mm or 22,00 mm.

There are also special customer requirements that are necessary in certain individual cases. For example, it was important for a well-known forklift manufacturer that the latch withstands higher vibrations. A forklift does not drive in premises only, but is also sometimes transported to work site by truck at speeds of over 50km/h. The solution is a latch with a hardened and tempered pawl and rotors, so that the locking parts are more robust than the standard parts due to the special hardening process.

Small installation dimensions allow these hood latches to be installed in applications with limited space. In the agricultural industry, you will find this type of latch in almost every tractor hood. In the construction machinery and industrial vehicle sector, well-known manufacturers such as Caterpillar, Claas, CNH, JCB, Linde, Still and Terex use our 5039 latch series.

We have already realized projects with this type of latch in which a sliding window or door can be operated. In a more advanced version, you can get our 5039 series latch equipped with a microswitch. With our remote control key and a control element/motor the hood or flap can be unlocked.

We understand the wishes of our customers and convince with excellent solutions.



Series 5039

APPLICATION
EXAMPLE



AVAILABLE ACCESSORIES



Striker bolt



U-bolt

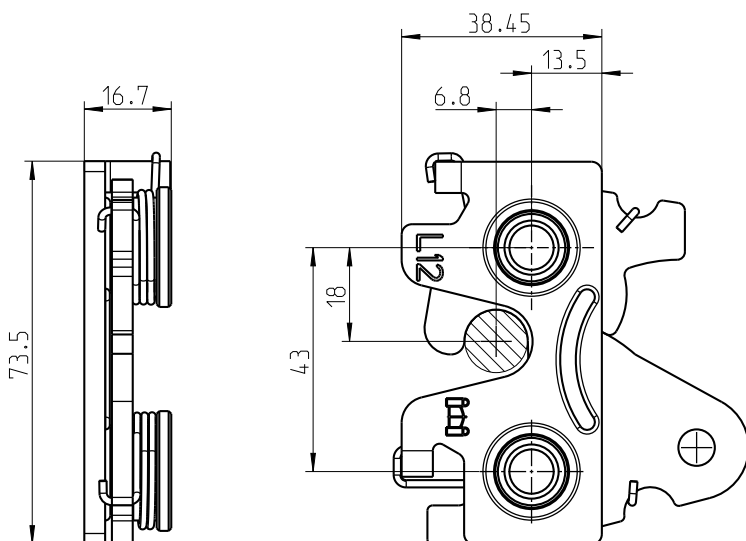


Inner handle

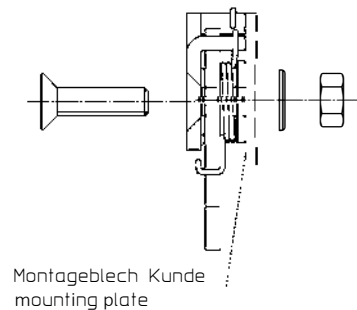


Remote control key

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	25 Nm
Screw	DIN ISO 10642 M8 8.8

Series 5039



61.5039.0001
Indirect release -
rotor 12,00 mm



61.5039.0003
Indirect release-
rotor 8,00 mm



61.5039.0007
Indirect release with clip -
mounted in front



61.5039.0010
Indirect release with clip -
mounted in front



61.5039.0012
Indirect release with clip -
backwards mounted



61.5039.0018
Special design -
locking parts tempered



61.5039.0020
Direct release
rotor 8,00 mm



61.5039.0025
Direct release
rotor 12,00 mm



Our 5039 is the Levis 501 under the hood latches - The **Original**



61.5039.0027
Direct release by lever



61.5039.0029
Direct release
offset lever



61.5039.0032
Direct release
offset lever



61.5039.0033
Direct release
offset lever



61.5039.0040
Direct release by inner handle



61.5039.0046
Direct release by lever



61.5039.0048
Indirect release with special
locking parts



61.5039.0051
Special design
locking parts tempered

Series 5039



61.5039.0052

Direct release by lever



61.5039.0060

With microswitch



61.5039.0065

Direct release



61.5039.0066

Direct release by lever



61.5039.0073

Direct release



61.5039.0087

Direct release



61.5039.0100

Direct release by lever



61.5039.0103

With secondary lock

SAMPLES

Part number	Striker Ø	Rod clip 3,00 mm	Inner handle	Direct release	Indirect release	Micro- switch	Main lock	Rotor hardened
61.5039.0001	12,00	-	-	-	✓	-	-	-
61.5039.0003	8,00	-	-	-	✓	-	-	-
61.5039.0007	8,00	✓	-	-	✓	-	-	-
61.5039.0010	12,00	✓	-	-	✓	-	-	-
61.5039.0012	12,00	✓	-	-	✓	-	-	-
61.5039.0018	12,00	✓	-	-	✓	-	-	✓
61.5039.0020	8,00	-	-	✓	-	-	-	-
61.5039.0025	12,00	-	-	✓	-	-	-	-
61.5039.0027	12,00	-	✓	✓	-	-	-	-
61.5039.0029	12,00	-	-	✓	-	-	-	-
61.5039.0032	12,00	✓	-	✓	-	-	-	-
61.5039.0033	12,00	-	-	✓	-	-	-	-
61.5039.0040	8,00	-	✓	✓	-	-	-	-
61.5039.0046	12,00	-	✓	✓	-	-	-	-
61.5039.0048	12,00	✓	-	-	✓	-	-	-
61.5039.0051	22,00	-	-	✓	-	-	-	✓
61.5039.0052	12,00	-	✓	✓	-	-	-	-
61.5039.0060	8,00	-	-	✓	-	✓	-	-
61.5039.0065	12,00	-	-	✓	-	-	-	-
61.5039.0066	12,00	-	✓	✓	-	-	-	-
61.5039.0073	8,90	-	-	✓	-	-	-	-
61.5039.0087	8,00	-	-	-	✓	-	-	-
61.5039.0100	8,00	-	✓	✓	-	-	-	-
61.5039.0103	12,00	-	-	-	✓	-	✓	-

Series 5030



Direct release



Indirect release



Inner release



Main lock



Hood installation



Door installation



Metal installation



Inner handle



Screw fixing M6



U-bolt 8,00 mm



U-bolt 7,08 mm or 8,90 mm

TO KNOW

Our 5030 series door holdback is made for the heaviest doors. Especially when the doors are exposed to high vibrations, such as tracked vehicles, this holdback is characterized by its stability. The installation of this door holdback should preferably be in metal. For an application in glass, our door holdbacks of the 5034 and 5044 are better suited.

Due to the many variants of this product and with the different release levers, this latch is of course also suitable for use in heavy hoods or flaps.

The holdback can be released either directly with an inside handle or remotely with a Bowden cable.



66.5030.0001
Inner handle



66.5030.0002
With cable



66.5030.0006
Hood latch



66.5030.0007
Indirect release



66.5030.0008
Variable lever length



66.5030.0014
Rotor 9,00 mm



66.5030.0018
Rotor 8,00 mm



66.5030.0020
Direct release

Series 5030

SAMPLES

Part number	Rotor Ø in mm	Internal handle	Direct release	Indirect release	Wire with rope
66.5030.0001	8,00	✓	✓	-	-
66.5030.0002	8,00	-	-	✓	✓
66.5030.0006	8,00	-	✓	-	-
66.5030.0007	8,00	-	-	✓	-
66.5030.0008	8,00	-	-	✓	-
66.5030.0014	9,00	-	-	✓	-
66.5030.0018	9,00	-	-	✓	-
66.5030.0020	8,00	✓	✓	-	-
66.5030.0021	8,00	-	-	✓	-
66.5030.0023	8,00	✓	✓	-	-
66.5030.0026	8,00	-	-	✓	✓
66.5030.0027	8,00	✓	✓	-	-

AVAILABLE ACCESSORIES



U-bolt



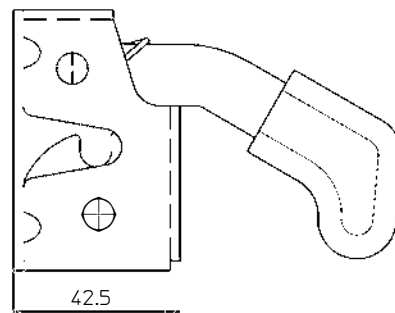
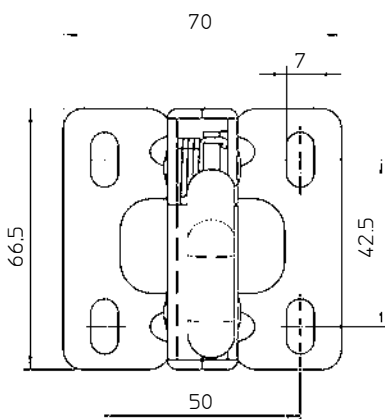
U-bolt



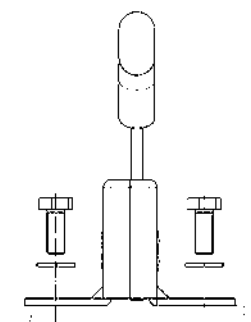
Inner handle



TECHNICAL DRAWING



ASSEMBLY

Montageblech Kunde
mounting plate

Tightening torque	10 Nm
Screw	4 x M6 8.8

Series 5032



Direct release



Indirect release



Main lock



Hood installation



Door installation



Metal installation



Screw fixing M6



U-bolt 8,00 mm



U-bolt 7,08 mm

TO KNOW

This door holdback has been designed for installation in metal and withstands high vibrations. Our 5034 and 5044 series are suitable for the glass installation. Due to the available variants with different release handles, this series is also suitable for use in heavy hoods or flaps.

Some variants of this series are delivered directly mounted with the necessary Bowden cable or connecting rod. This reduces the installation time in your production and additionally saves you time-consuming adjustment.

Of course, we also provide you with all the necessary accessories. You can also choose from our range of strikers and u-bolts to suit your installation.



66.5032.0001
Wire with sheath



66.5032.0002
Direct release



66.5032.0003
Rod connection



66.5032.0007
Connecting rod



66.5032.0009
Indirect release



66.5032.0010
Indirect release rod

Series 5032

SAMPLES

Part number	Direct release	Indirect release	Wire with sheath	Connecting rod	Door	Hood
66.5032.0001	-	✓	✓	-	✓	✓
66.5032.0002	✓	-	-	-	✓	✓
66.5032.0003	-	✓	-	-	✓	✓
66.5032.0004	-	✓	-	✓	✓	✓
66.5032.0005	-	✓	-	-	✓	✓
66.5032.0006	-	✓	✓	-	✓	✓
66.5032.0007	-	✓	-	✓	✓	✓
66.5032.0008	-	✓	-	✓	✓	✓
66.5032.0009	-	✓	-	-	✓	✓
66.5032.0010	-	✓	-	✓	✓	✓

AVAILABLE ACCESSORIES

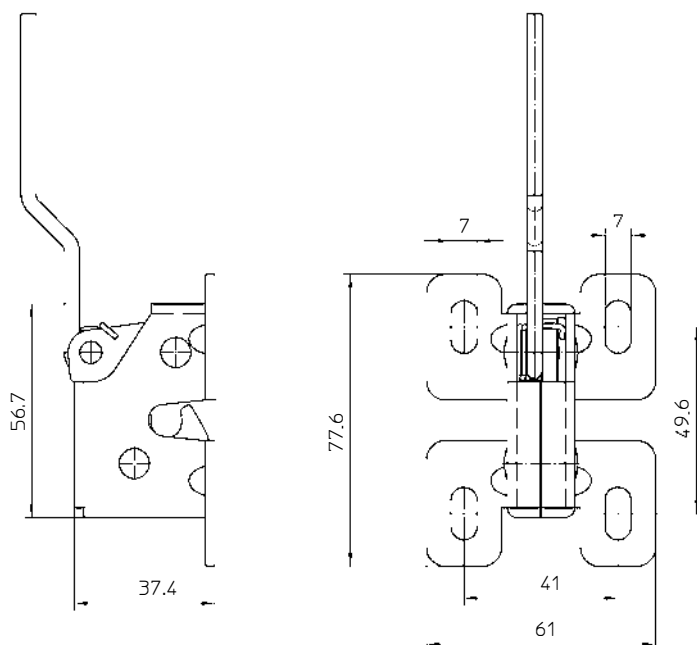


U-bolt

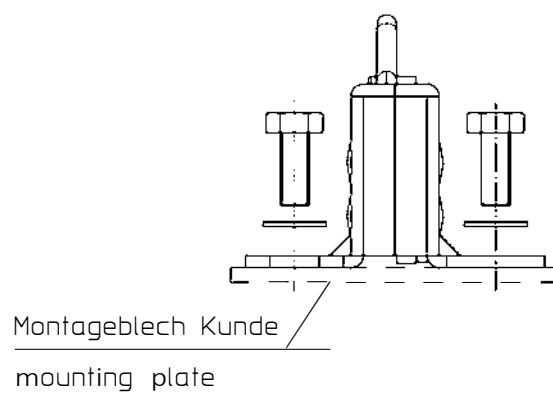
U-bolt



TECHNICAL DRAWING



ASSEMBLY



Tightening torque	10 Nm
Screw	4 x M6 8.8

Series 5034



Direct release



Indirect release



Inner release



Main lock



Door installation



Metal installation



Glass installation



Inner handle



Screw fixing M6



Striker bolt M8

TO KNOW

The 5034 series door holdback is optimally used for small to medium metal or glass doors. The system is opened by pressing the button or triggering an additional lever. We offer several different variants.

The installation of this product is very user-friendly via three screws for the metal type or a hexagonal nut for the glass variant. We also have a large selection and variants of the corresponding locking bolts with rubber buffers, which will exactly fit your installation.



66.5034.0002
Without lever



66.5034.0004
Inner handle



66.5034.0005
Metal installation



66.5034.0007
Inner handle



66.5034.0008
Glass installation



66.5034.0010
Indirect release



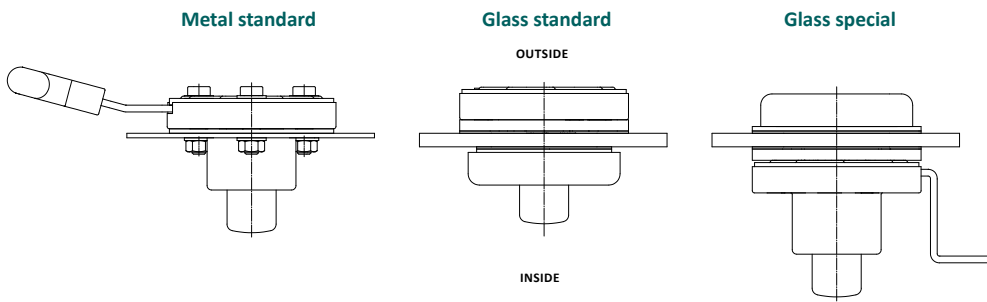
66.5034.0020
Curved lever



66.5034.0058
Lever straight

Series 5034

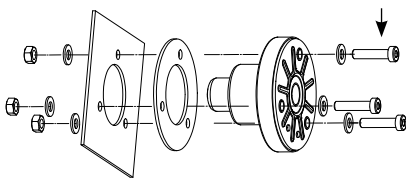
INSTALLATION VARIANTS



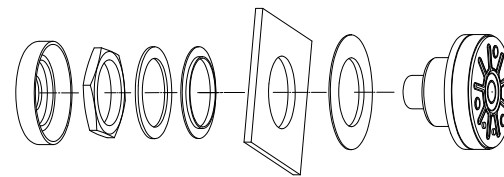
The **special glass version** includes a longer locking bolt with the advantage to add an internal indirect release for your application if required.

METAL INSTALLATION

Screws are not included



GLASS INSTALLATION



SAMPLES

Part number	Side	Direct release	Indirect release	Metal	Glass	Lever	Lever straight	Curved lever	Inner handle
66.5034.0002	right	-	-	✓	-	-	-	-	-
66.5034.0004	right	✓	-	✓	-	✓	-	✓	✓
66.5034.0005	left	✓	-	✓	-	✓	✓	-	-
66.5034.0008	right	-	-	-	✓	-	-	-	-
66.5034.0009	left	✓	✓	✓	-	✓	-	✓	-
66.5034.0019	left	✓	-	-	✓	✓	-	✓	-
66.5034.0020	right	✓	-	-	✓	✓	-	✓	-
66.5034.0058	right	✓	-	✓	-	✓	✓	-	-

AVAILABLE ACCESSORIES



Closing bolt

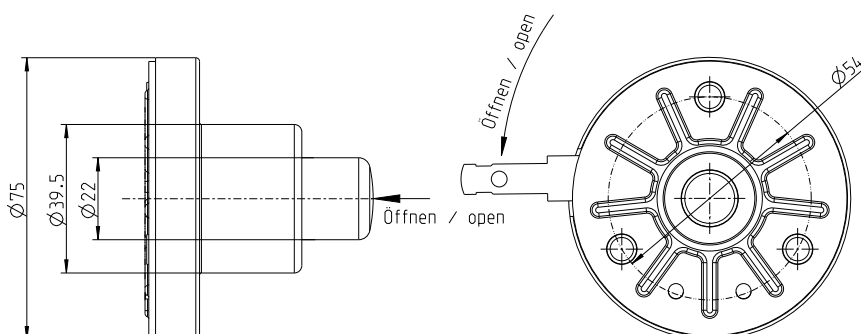
Closing bolt

Inner handle

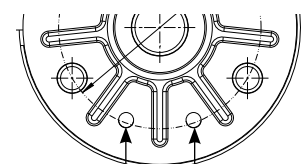
Gasket

Direct pull handle

TECHNICAL DRAWING



ASSEMBLY



The two rivet heads must be at the bottom.

Tightening torque	10-12 Nm
Screw	M6

Series 5044



TO KNOW

Our 5044 series door holdback is based on a consequent further development over the last few years of the 5034 series. The holdback and locking bolt do not have to be installed in a defined manner relative to each other, but can rotate 360° without impairing the function.

The system is released by pressing a button on both sides, i.e. both the hold-open device and the bolt can unlock the system. At the customer's request, we have developed a non-functional locking bolt so that the 66.5044.0001 holdback can only be released on one side.

This is similar to the principle of the 5034 series, but meets higher quality requirements in terms of protection and flexibility.

Of course this new product meets all modern specifications. In addition, this system is splash-proof and dust-proof according to IP 54. Optimally, this product is used for small to medium-sized metal or glass doors.



66.5044.0001
Door hold back



44.5044.1001
Striker straight



44.5044.1002
Angled striker



67.5044.9001
Door hold back set



67.5044.9002
Door hold back set



67.5044.9004
Striker set

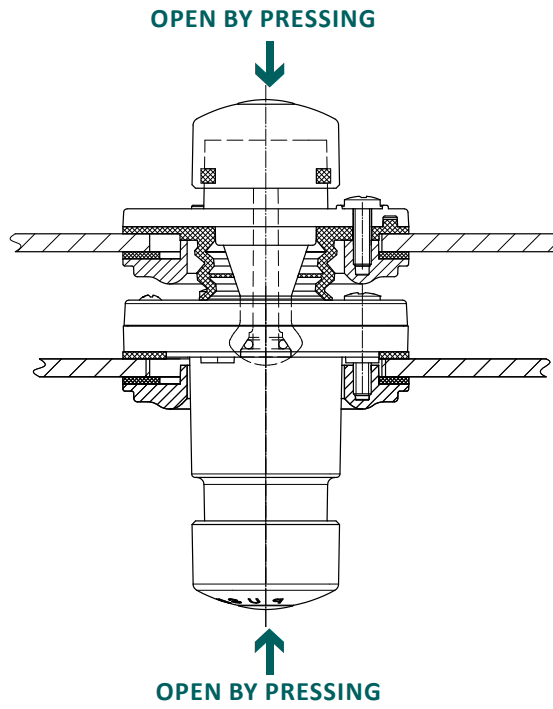


67.5044.9003
Striker set

Series 5044

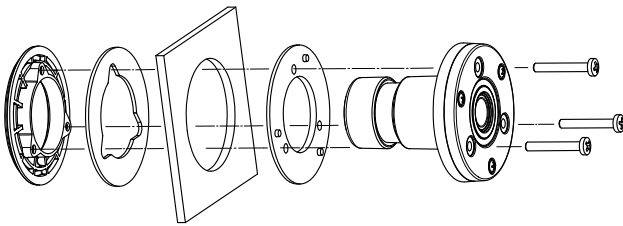


**DUST AND SPLASH
WATER PROTECTION**

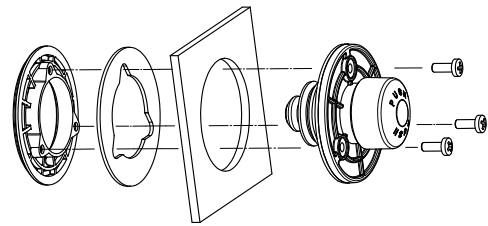


ASSEMBLE

INSTALLATION DOOR HOLD BACK



INSTALLATION STRIKER



AVAILABLE ACCESSORIES



Screwing plate

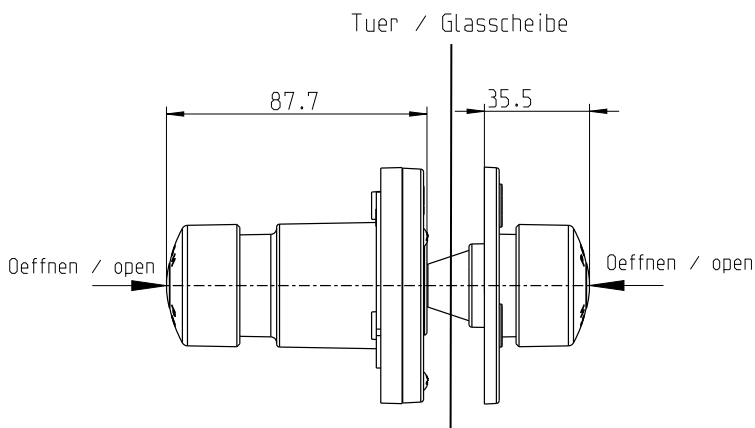
Rubber gasket

Rubber gasket

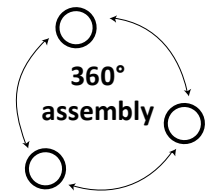
Spacer

Screw

TECHNICAL DRAWING



ASSEMBLY



Tightening torque	2 Nm
Screw	EJOT-PT-Schraube KA 50x25 oder KA 50x16 WN-1411

Striker bolts

RANGE OF APPLICATION

Striker diameter	Series
8,90 mm	5035, 5036
10,00 mm	4600, 5000, 5002, 5003, 5004, 5100, 5101, 5300
11,80 mm	5005, 5039
13,75 mm	5200, 5201
17,13 mm	5201, 5200
16,00 mm	5400
9,00 mm	5035
8,00 mm	5036, 5039
12,00 mm	5039



TO KNOW

We have a wide range of different striker bolts suitable for your application. Our wide range offers you particularly high quality.

Unfortunately, the quality and dimensions of the required elements are very often and completely unjustifiably underestimated. Our striker bolts in combination with our locking components are simply unbeatable. The right accessories are an essential prerequisite for long-lasting products.

We offer competitively priced cold-formed parts if large quantities are ordered. For smaller order quantities, we use material that is suitable for the turning process.

If you do not find the suitable striker bolt for your application in this catalogue, please do not hesitate to contact us.



05.0001.4022
10,00 mm



05.0079.4022
11,00 mm

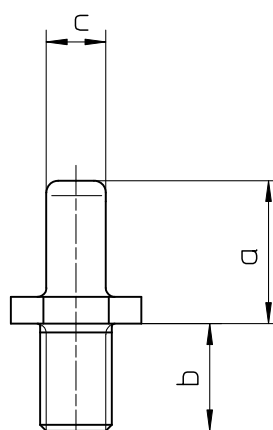
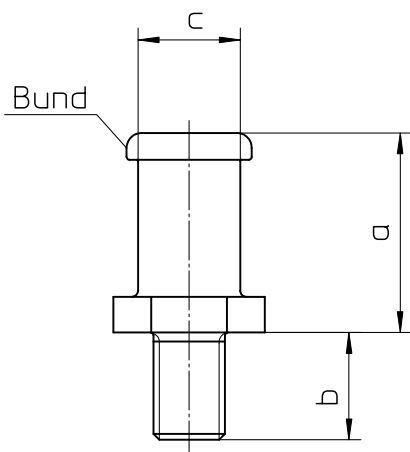


05.0027.4022
17,13 mm



05.0034.4022
17,13 mm

TECHNICAL DRAWING



LEGEND

- a = Length of pin
- b = Length of thread
- c = Outer diameter

As a rule, striker bolts with a collar are always used on access doors. Striker bolts without a collar are often used on flaps or hoods.

The tightening torque for hardened and tempered striker bolts must not exceed 90 Nm (for M12x1 thread), and must always be considered in relation to the corresponding materials that they are being secured into.

Striker bolts

SAMPLES

Part number	Length of pin in mm (a)	Length of thread in mm (b)	Striker Ø in mm (c)	Total length in mm	Collar
05.0025.4022	45,00	23,00	8,90	68,00	✓
05.0005.4022	24,00	8,00	10,00	32,00	✓
05.0004.4022	24,00	13,00	10,00	37,00	✓
05.0014.4022	27,50	13,00	10,00	40,50	✓
05.0016.4022	27,50	13,00	10,00	40,50	-
05.0001.4022	24,00	18,00	10,00	42,00	✓
05.0002.4022	24,00	18,00	10,00	42,00	-
05.0023.4022	24,00	18,00	10,00	42,00	-
05.0063.4022	24,00	18,00	10,00	42,00	✓
05.0010.4022	24,00	21,00	10,00	45,00	✓
05.0017.4022	27,50	18,00	10,00	45,50	-
05.0021.4022	27,50	18,00	10,00	45,50	-
05.0071.4022	27,50	18,00	10,00	45,50	✓
05.0067.4022	24,00	24,00	10,00	48,00	✓
05.0058.4022	27,00	22,00	10,00	49,00	✓
05.0069.4022	29,00	24,00	10,00	53,00	✓
05.0074.4022	29,00	24,00	10,00	53,00	✓
05.0055.4022	35,50	18,00	10,00	53,50	-
05.0079.4022	29,00	18,00	11,00	47,00	✓
05.0033.4022	26,00	18,00	11,80	44,00	-
05.0045.4022	31,00	18,00	11,80	49,00	-
05.0076.4022	31,00	18,00	11,80	49,00	-
05.0046.4022	27,00	33,00	11,80	60,00	✓
05.0083.4022	44,45	19,05	11,80	63,50	-
05.0077.4022	52,50	18,00	11,80	70,50	-
05.0054.4022	33,50	11,50	13,75	45,00	✓
05.0064.4022	33,50	18,00	13,75	51,50	✓
05.0066.4022	30,50	18,00	13,75	48,50	✓
05.0057.4022	33,50	18,00	13,75	51,50	✓
05.0070.4022	33,50	18,00	13,75	51,50	✓
05.0078.4022	26,50	13,00	17,13	39,50	✓
05.0034.4022	22,00	22,00	17,13	44,00	-
05.0081.4022	22,00	22,00	17,13	44,00	-
05.0027.4022	33,50	11,50	17,13	45,00	✓
05.0084.4022	30,00	15,00	17,13	45,00	-
05.0056.4021	26,50	24,00	17,13	50,50	✓
05.0020.4022	33,50	18,00	17,13	51,50	✓
05.0036.4022	33,50	18,00	17,13	51,50	✓
05.0065.4022	31,00	18,00	17,13	49,00	✓
05.0024.4021	33,50	23,00	17,13	56,50	✓
05.0024.4022	33,50	23,00	17,13	56,50	✓
05.0059.4022	30,00	26,50	17,13	56,50	-
05.0060.4022	33,50	23,00	17,13	56,50	✓
05.0072.4022	33,50	23,00	17,13	56,50	✓
05.0047.4022	42,50	20,00	17,13	62,50	-
05.0031.4022	33,50	33,00	17,13	66,50	✓
05.0061.4022	56,00	20,00	17,13	76,00	-
05.0085.4022	56,00	20,00	17,13	76,00	✓

Striker guards



32.4675.0122
Striker guard



32.4675.0122
Striker guard with striker



32.4675.0222
Striker guard



32.4675.0422
Striker guard

TO KNOW

Our striker guards, in combination with our striker bolts, serve as anti-trap protection. This additional protection is intended to prevent accidental entrapment or, for example, your coat

getting caught when entering the respective vehicle. We have a large selection available.

U-bolts



05.0080.4022
U-bolt 7,01 mm



05.5030.3322
U-bolt 7,08 mm



05.5036.0122
U-bolt 8,90 mm



46.5030.1002
U-bolt with plate

TO KNOW

U-bolts are used whenever the use of normal striker bolts is not possible. In combination with our latches, they offer a high level of security and, depending on the design, our locking brackets are perfectly adjustable.

Our u-bolts are unbeatable in combination with our locking components. The right accessories are an important prerequisite for durable products.

Threaded plates and washers



05.0902.0122
Washer



05.0001.3122
Washer 12,5x30x1,5



05.0006.2122
Threaded plate M12x1



05.0007.2122
Threaded plate M12 x 1

TO KNOW

Our washers and threaded plates complete our range of accessories for striker bolts, u-bolts and striker guards. Everything you need for the assembly of our main

components can be purchased entirely from us. Of course, we can also offer sets, so that you only have to manage one part number for the complete assembly.

Locking bolts for door hold back 5034



44.5034.1001
57,00 mm



44.5034.1002
70,00 mm



44.5034.1009
Locking bolt with rubber buffer



Example of installation

TO KNOW

Our 5034 series locking bolts are available in a wide variety of designs and lengths to suit your individual needs or installation situation.

As usual we differentiate according to the area of application, because for installation in metal applications and those in glass, we also differentiate the bolts.



APPLICATION
EXAMPLE

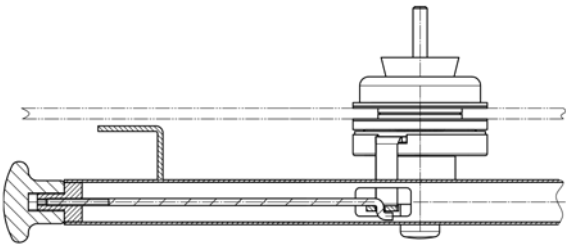
Direct handle for door hold back 5034



05.5201.9700
Handle



44.5201.1001
Handle assembly



Sample assembly

TO KNOW

This handle is used as direct actuation. Pulling the knob opens the door hold back via a connecting rod. We are happy to offer you a compact set with all the required items.

Release handle

Part number	Release force	Release stroke	Assembly time
41.5201.0715			
41.5211.3501			
41.5215.4401			



41.5201.0715
Adjustable



41.5211.3501
Clipsable



41.5215.4401
Clipsable

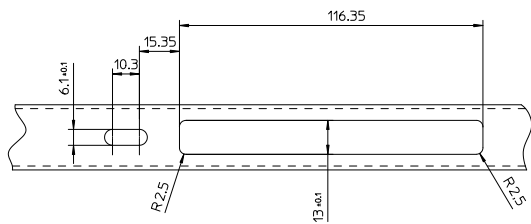
TO KNOW

Our release handles are installed in 25.00 mm or 32.00 mm round tubes. They are either clipped in or screwed in with an adjustment facility.

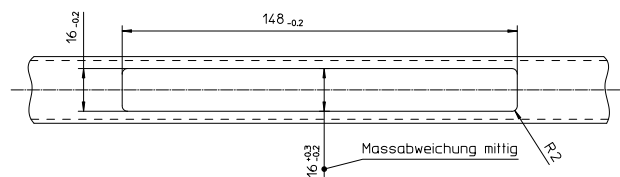
This product range can be operated with a Bowden cable or connecting rod. Also the colour can be flexibly adapted to your requirements.

The 41.5215.4401 variant has an even more comfortable release due to the lower release force.

TUBE CUTOUT



Adjustable



Clipsable

The basic difference between a screwable and clipsable release handle is that two long holes must be implemented into the tube for the screwable version. The second hole provides an adjustment possibility after installation.

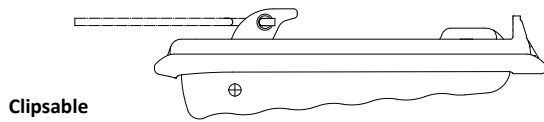
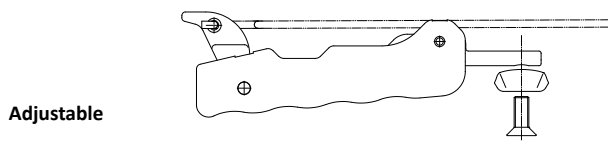
With the clipsable release handle, a long hole is milled into the pipe for mounting. When clipped in, the position is fixed and the connection to the latch cannot be adjusted.

COLOUR VARIANTS

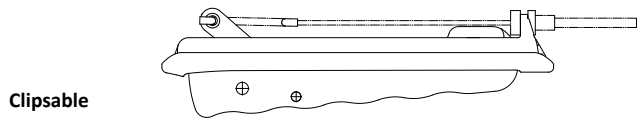
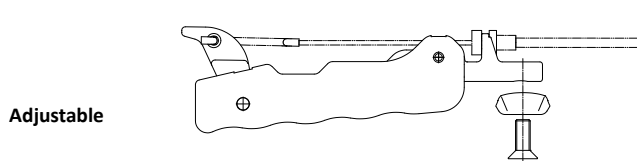


ASSEMBLY OPTIONS

Variants with rod connection



Variant with Bowden cable connection

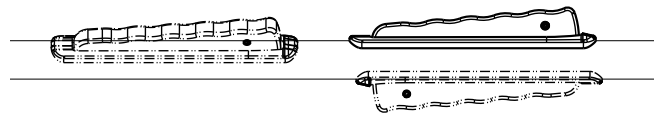


Flexible installation in tube

The release handles can be mounted flexibly into the tube depending on your installation situation. The internal release should be mounted on the underside of the tube to prevent unintentional actuation. The plastic lever on the release can be mounted in both directions.

We will be happy to assist you in selecting the right product.

Assembly sample



Cable bracket



26.5500.2500

Cable bracket



TO KNOW

If cable lines are pulled through the pipe, the lines may be damaged by the indirect release.

To avoid this problem, a cable holder is adapted to the pipe or to the indirect release, which guides the cables around the indirect release.

Bushings



67.1884.9001

Black



67.1884.900x

Blue



05.0967.0100

Gasket



34.1747.0103

Toggle

TO KNOW

Our bushings serve as protection for your screwed connections or as visual enhancement for external screwed connections.

We offer our bushings for M6 or M8 screws or hexagon nuts and in your colour (RAL) upon request.

Brackets



67.1883.9001

Bracket for 3,00 mm steel thickness

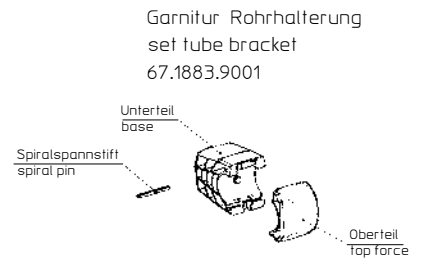


67.1883.9002

Bracket for 4,00 mm steel thickness



Product example



Garnitur Rohhalterung
set tube bracket
67.1883.9001

Assembly

TO KNOW

Our 1883 series bracket is one of our newer products which can be used with 5201, 5400 and also 5500 series round tube latches.

You can request the complete assembly instructions from us.

Tube endings



67.1885.9001

Tube end for glass installation



67.1885.9002

Tube end for metal installation



26.1886.0100

Screw cover cap for tube end



Product example

TO KNOW

Our round tube end pieces for 25,00 mm round tubes form a perfect finish for your locking system application.

You can combine our round tube end pieces with our 5101 or 5201 latch series. Here too, we differentiate between applications in glass or metal doors.

Bracket for gas spring



67.5201.9054

Bracket for gas spring



67.5201.9072

Bracket for gas spring



Product example



Sample application

TO KNOW

Our die-cast zinc bracket can be used to mount our 5201 round tube latches to another tube, or as a gas spring adaptor to easily mount your gas spring to our or your own round tube.

Connecting rods



TO KNOW

More and more applications require solutions that connect complex configurations. Our connecting rods are rigid and are used in our standard latches with tube 5101 and 5201.



SAMPLE APPLICATION

When the connections become more complicated, we usually offer our connecting rods with aluminium sheath (for more stability). We also offer stainless steel rods made of solid material on request.

Wire ropes



TO KNOW

If the connections are not straight, we use coated wire ropes. These are flexible and are often used in bent round tubes.



SAMPLE APPLICATION

In the illustration on the left, we show you different options for rope connections.

Bowden cables



TO KNOW

When the connections become more complicated, we offer our Bowden cables to get into the most twisted corner.



SAMPLE APPLICATION

Bowden cables are very flexible. The Bowden cable sheath serves as a guide for the cable and can therefore redirect it.

Inner handles



05.1898.0200/0300
3,00 mm or 4,00 mm



26.5000.0501
3,00 mm



26.5000.5700
3,00 mm



26.5200.7000
5,00 mm

TO KNOW

Our inner handles come in a wide variety of shapes. However, all variants have one thing in common, they are functional and cost-effective. Different internal recesses for different lever thicknesses as well as different lengths or colours can be individually combined with our latches or direct releases depending on the application.

We have developed variants that can be pressed together and are particularly suitable for narrow installation spaces. The particular advantage with these items is that they can be easily installed by hand after installation but cannot be removed after this process. This allows you to avoid damage to the visible inner handle to the end user during installation.



Pre-assembly or
with tool/jig



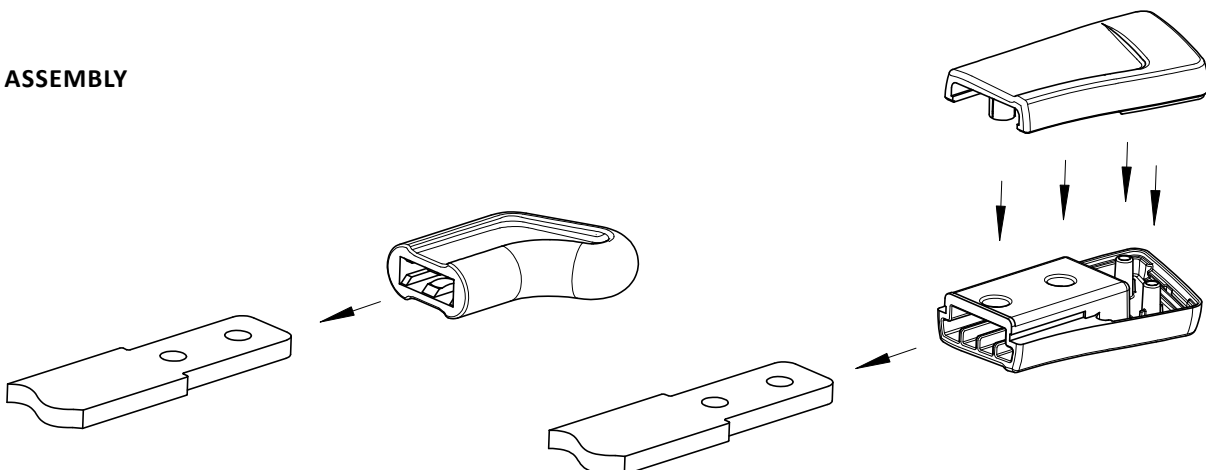
Manual assembly



As a rule, these variants are delivered pre-assembled. Subsequent assembly on site is possible with special tool or device.

These inner handles are designed for assembly after installation. They are particularly suitable for tight installation spaces and can be mounted without additional tools.

ASSEMBLY



Covers



26.5201.3300
For series 5201



36.5201.2302
For series 5201



26.5201.2400
For series 5201



26.5300.0700
For series 5300

TO KNOW

Our plastic covers create a beautiful finish when assembling your door. We have several covers in our program, which correspond to the various technical and optical conditions

of modern cabin concepts. In addition, the cover protects against dust and dirt.

Interior release mechanisms



56.7003.0012
Release right without security device



70.7003.0005
Release left with security device



70.7003.0001
Recess for interior release



70.7003.0002
Interior release

TO KNOW

Our interior releases are frequently used in areas where ergonomic opening of the door from the inside is a top priority. We offer a wide variety of solutions here, all of which ultimately integrate excellently with your door trim.

In conjunction with our Bowden cables or connecting rods, we will be happy to lay out the right design for you, so that you can be sure that everything works perfectly.

Fixing plate



32.5040.1137



32.5212.0522



42.5042.2202
Fastener set

TO KNOW

Our mounting plates are used for direct release. The plate creates a direct connection from the latch to the handle. Many of our customers make their own plates, which then

in combination with our products become a fully functional complete product. The latch assembly is equipped with motor so that the door can be controlled electronically.



know how to open the world

Key and cylinder system



DLP KEYS AND CYLINDERS

Security that inspires

IN-HOUSE PRODUCTION DEPTH

A major advantage of our high in-house production is clearly our wide product range of cylinders and keys.

VARIETY OF KEY CODES

Depending on the product, you can freely choose the key code, because you can be sure that we already manufacture the necessary standard product. Almost all locking options are possible in our final products. In our production of keys and cylinders we use only the best and highest quality materials.

QUALITY

Our keys convince by their durability, torsional stiffness and their weather resistance.

ONE KEY SYSTEM

Our key and cylinder systems allow you to have a One Key System. A heavy bunch of keys is a thing of the past. With only one key you can open all handles on the vehicle (e.g. doors, flaps, hood and tank).

INDIVIDUALIZATION

Combined with the possibility of generating your own key head by integrating your logo, this product also provides you with a high degree of individuality down to the smallest detail.

ELECTRONICS

Our new key and cylinder system, as well as the extension of the mechanical locking systems with our remote control key or keyless entry system, enables you to step into the future of security systems. Benefit from our many years of know-how.



The new **luxury** is personalization!



Key and cylinder systems



NON-LOCKABLE



S-PROFILE KEY CODE



REVERSIBLE KEY CODE



**DLP KEY CODE
CLIPSABLE CYLINDER**



S-Profile key



Key code 1001-1050



Key code 5401-5450



Key code 7701-7750

TO KNOW

Our nickel silver keys are available in three locking variants (1001s, 5401s, 7701s).

You can get the key with a plastic head or in nickel silver variant with our DLP lettering.

Reversible key



44.0611.1303

Reversible key 14603



44.0613.1101

Key with dust protection



44.0613.1606

Head with logo



44.0606.0101

Customized head



44.0644.0101

Coloured head



44.0652.0101

Customized head



44.0611.1101

Reversible key 201-250



44.0665.8888

Reversible key 8888-8920

TO KNOW

Reversible keys are well-known. Almost all of our handles have this locking option. So it is possible to operate all locking components on the vehicle with this key.

In addition, we can also offer a dust-protection cap. You can integrate your own logo on the plastic key head or even create your own key head.

DLP key



TO KNOW

This key is made of the highest quality materials and milled by using the Quattrocode process. This key corresponds to the level of automotive locking systems.

Due to a large variety of key codes, we can guarantee a high level of security. With this key and cylinder system, we offer you a modern One Key System for your vehicle. Of course, we can also tailor this key to your needs by integrating your own logo.

The matching cylinder also meets the highest requirements, such as splash water and dust protection classified according to IP 54. Furthermore, by integrating a passive RFID crypt transponder into the key, we can integrate additional functions that go beyond mechanical security, such as an immobilizer at the most technically secure level currently available.

Our remote control key is equipped with an emergency unlocking system (foldable mechanic key) so that your vehicle can also be opened manually in case of emergency.



Mechanical key



Key with RFID



Remote control key



Coloured key with logo



Key with logo



Key with logo



Individualized key



You want an individual key? We realize with your own shape, colour and logo.

Cylinder



Mounted
< 30 key codes



Reversible cylinder



Clipsable
< 1.000 key codes
IP 54 conformable



DLP standard cylinder



Clipsable
> 1.000 key codes
(compliance with the standard
ECE-R116, IP65)



DLP premium cylinder

TO KNOW

The reversible cylinders are only delivered pre-assembled. Subsequent mounting is not possible.

Our DLP cylinder is subsequently clipped into the handle.

The advantage is that the key code of the vehicle can be flexibly selected at the dealer or at the end of the assembly line.

You can buy a set of cylinders for the door handle, ignition starter lock, flap lock or more with the corresponding keys.

Cylinderdummies



For handles 4576/4577



For filler caps 4479



Transport protection



Application example

TO KNOW

Our cylinder dummies complete the key system. The dummies can carry out the respective locking mechanism. This gives you the opportunity to test the function of the handles. A big advantage is the universal use in the production and the decision to choose the desired key code at the end of the assembly line.

We manufacture the dummies from plastic or zinc die-casting. Our plastic product is a cost-effective alternative to the long-lasting zinc die-cast dummy. For numerous functional tests on your own assembly line, we therefore recommend our robust zinc die-cast product.

Remote control key



TO KNOW

For several years we have been supplying our locking systems to various customers in the expansion stage with remote control key. For example, our double rotor latch can be purchased with microswitches that ensure lockout protection in conjunction with the remote control key. In addition, with our remote control key we always ensure that there is a mechanical emergency release in the event of a power failure.

Of course our systems are central locking capable and can be delivered for 12V or 24V on-board networks. With full integration of our system into your vehicle electronics (CAN bus system) further functions (light signals etc.) can be adapted. We are happy to supply you with a fully integrated immobilizer.

By adding a passive RFID crypt transponder into the key and providing the reading unit and the immobilizer, we go far beyond the security possibilities of a purely mechanical locking system.

Our further expansion stages include even more electronic know-how. From the keyless entry variant to the keyless go system, we can offer you further convenience functions. You can find information on this in our electronics section on **page 164**.



DLP remote control key - more than a simple door opener

IMMOBILIZER



KEYLESS-ENTRY



LIGHTING



SENSOR TECHNOLOGY



For more information to our remote control keys, please refer to page **156**.

Customizable functions

TO KNOW

The new generation of remote control keys are equipped with three buttons that can be programmed with up to 8 operating commands. The keys can be equipped with customer-specific key symbols.

The driver can receive feedback via two RGB multicolour LEDs. For example, the green lights can be programmed for opening and the red LED's for closing the vehicle. There are almost no limits for the individualization of your key.



Door



Mobile crane



Light



Gearwheels



Crane



Car



Handheld transmitter or folding key



44.0663.1001

Handheld transmitter



44.0663.0201

Folding key



44.0663.1201

Folding key with logo



44.0663.xxxx

Folding key with logo

TO KNOW

For your vehicle either choose the remote control key as hand transmitter without locking function or our folding key. The key is only needed as an emergency release if there is an interruption in the power supply and the electronic unlocking is no longer guaranteed.

On the back of the key we can integrate your own logo, either as a raised lettering or as a colourful adhesive logo.

DLP locking system

CLIPSABLE CYLINDER



TO KNOW

Our DLP key and cylinder system combines form, function and feel at the highest level and is characterized in particular by the fact that you can clip it into almost all DLP products. This gives you the advantage of having an individual key and cylinder kit for every machine.

Clip in the cylinders at end-of-line or even when selling the respective vehicle. We distinguish between a standard and premium automotive (DLP) system. The Premium system has an even greater variety of lock codes and therefore offers greater security as well as compliance with ECE-R116 standard.

- DLP supplies to different manufacturers of cabin, tanks, hoods etc.
- DLP supplies the original equipment manufacturers

ONE KEY CODE FOR THE ENTIRE VEHICLE!



Plug

KEYS AND CYLINDER SETS

2x Vehicle keys
 1x Cylinder dummy
 2x Cylinder for cabin fitting
 1x Cylinder for hood fitting
 1x Cylinder for fuel filler cab
 (optional) plus a transport plug



HANDLES FOR CLIPSABLE CYLINDER

- Handle for door
- Push button for hood
- Filler cab for tank (also Ad-Blue)

DLP locking system

HANDLE WITHOUT CYLINDER



CABIN



PUSH BUTTON WITHOUT CYLINDER



HOOD



FILLER CAB WITHOUT CYLINDER



TANK



END-OF-LINE BY THE MANUFACTURER

**SUBSEQUENT ASSEMBLY**

Variant 1) The cylinders are clipped into the handles at the end of the assembly line. Therefore the vehicle receives its own key code and can be delivered to the customer.

Variant 2) Dealers receive the key and cylinder kits separately according to customer requirements. The vehicle is not fitted with its individual key code (one-key-system) until it is sold.



One Key System

We have various locking systems in our program. With the Merit or DLP key code locking we offer you a One Key System for your vehicle.

With only one key you can open all doors and flaps.



know how to



open the world



know how to open the world

HANDLES

**DLP HANDLES**

Quality that exceeds your expectations

GENERAL

Our handles are divided into push button handles, grip handles, push buttons and cylinder locks. We have a wide variety of product series with a large number of standard options available. If you wish, some of our handles can be combined as a whole with a latch including a microswitch and a remote control key. In the following chapter you can convince yourself of our diverse selection.

INDIVIDUALITY

To ensure that you receive a product that is right for you, your individual requirements and applications are our top priority. We offer you different variants for use in metal or glass doors and can provide you with comprehensive advice on your optimal individual solution.

FEATURES

We have different key and cylinder systems such as reversible and DLP key code. Some of our products are non-lockable (without cylinder) upon customer request, allowing the fastest possible access. Additional comfort is offered by our radio remote control system.

QUALITY

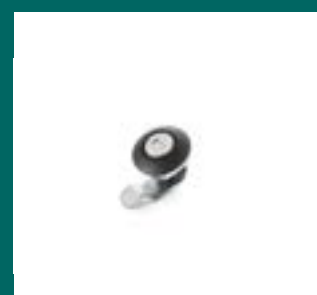
Our handles meet both design and technical requirements. All variants follow pragmatic criteria such as load, durability, splash and dust protection, functionality and easy handling. We rely on high quality materials and for this reason our plastic exterior handles are colourfast despite ozone exposure.

ONE KEY SYSTEM

Our exterior handles offer you the possibility to use a One Key System on your machine. You only need one key to operate the entire vehicle, even to start the engine. We can respond to your wishes regarding the optimal locking solution.

KNOW HOW TO OPEN THE WORLD

We know exactly what we are doing, because we have been manufacturing latches and handles for almost 160 years. We have a profound know-how and for this reason we are one of the market leaders. Due to our high in-house production share of 85%, we can influence the quality of our products to the maximum and respond to your wishes.



Push button handles

















Based on our many years of cooperation with the major brands in the off-highway industry, we have developed a comprehensive selection of exterior handles that meet the highest demands in terms of design and functionality.

As with all DLP products, durability under extreme conditions plays a paramount role. For this reason, for example, we use only the highest quality plastics, so that plastic exterior handles from DLP remain permanently colourfast despite ozone exposure. Indispensable for many of our customers: the DLP One Key System.

It enables the use of a single key for all lockable components inside and outside of the vehicle, including the ignition switch. Since we design the cylinders for well-known ignition switch manufacturers, your locking requirements can be optimally considered. Additional comfort is offered by our radio remote control system.

Especially for forklifts and construction machines it is important that no elements protrude the external surface of the vehicle. Numerous handles from DLP fully meet this requirement. In addition, they do not allow splash water or dust into the cabin.

Features	4526	4560	4561	4562	4563	4565	4570	4573	4576	4577
 Lockable	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Non-lockable (simple push button)	✓	✓	✓	✓	✓	✓ ²	✓	-	✓	✓
 Customized key code ¹	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 DLP-Premium key code clipsable	-	-	✓ ²	-	✓ ²	✓ ²	-	-	✓ ²	✓ ²
 DLP-Standard key code clipsable	-	-	✓	-	✓	✓	-	-	✓	✓
 Reversible key code mounted	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 S-Profile key code mounted	✓	✓	✓	✓	✓	✓	✓	-	-	-
 Dust and splash-proof	-	-	✓	-	✓	✓	-	-	✓	✓
 Remote control key	-	✓	-	-	-	-	-	-	✓	✓
 Emergency unlocking	-	✓	-	-	-	-	-	-	✓	✓
 Door installation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
 Hood installation	✓	✓	✓	✓	-	-	-	-	✓	✓
 Metal installation	✓	✓	✓	✓	-	-	-	-	-	-
 Glass installation	-	-	-	-	✓	✓	✓	✓	✓	✓

¹non over-the-counter key codes such as Komatsu, Cat, Bobcat and Hitachi

²on request

Pull handles

Features	4583 Standard	4581 Premium
Reversible key code	✓	✓
DLP-Standard/Premium key code	✓	✓
Glass installation	✓ (not recommended)	✓ with M28-threaded insert
Metal installation	✓	✓ with M6-threaded insert
With sensors	-	✓
Remote control key	-	✓
Keyless entry	-	✓
Classification	IP66	IP65



CUSTOMIZED PUSH BUTTON HANDLES/PULL HANDLES



These product lines have been developed specifically for our customers and their needs and are not for sale due to the specialized tooling.

Flat handles

Thought through! Especially for forklifts and construction machines, it is often important that the elements do not protrude - handles from DLP meet this requirement and also do not allow splash water or dust into your cabin.

In the area of handles, we offer a wide range of variants for your individual cabin concepts. Highly functional - the introduction of the gas injection process for even more contemporary requirements.

Features	4701	4706	4707	4709	4711	4712	4713
 Lockable	✓	✓	✓	✓	✓	✓	✓
 Non-lockable (simple push button)	✓	✓	✓	✓	✓	-	-
 Customized key code ¹	✓	✓	✓	✓	✓	✓	✓
 DLP-Premium key code clipsable	-	-	✓ ²	✓ ²	✓ ²	✓ ²	-
 DLP-Standard key code clipsable	-	-	✓ ²	✓	✓	✓	-
 Reversible key code assembled	✓	✓	✓	✓	✓	✓	-
 S-Profile key code assembled	✓	✓	-	✓	-	-	✓
 Dust and splash-proof	-	-	✓	✓	✓	✓	-
 Remote control key	-	-	-	✓	-	✓	✓
 Emergency unlocking	-	-	-	✓	-	✓	-
 Door installation	✓	✓	✓	✓	✓	✓	✓
 Hood installation	✓	✓	✓	✓	✓	✓	✓
 Metal installation	✓	✓	✓	✓	✓	✓	✓
 Glass installation	✓	✓	✓	✓	✓	✓	✓



4707



4709



4711



4712



4713

CUSTOMIZED FLAT HANDLES



4710



4584



4719

This product range was developed specifically for our customers and their needs and is not freely available due to the customer specialized tooling.

¹non over-the-counter key codes such as Komatsu, Cat, Bobcat and Hitachi

²on request

Fasteners



4463



4465



4471



4472



4473

Our fasteners and push buttons are usually used in small flaps, hoods and glove boxes. These products are available in almost all DLP key codes and can be combined with a wide range of locking tabs. In combination with the other locking components around the vehicle, we offer you the use of one single key.

Our DLP key and cylinder system provides you with security at the highest automotive level. These cylinders can be easily clipped-in into our handles at the end of your production line. With a wide range of possible key codes and IP54 classification, we offer you an extensive choice.

Features	0311	4463	4464	4465	4471	4472	4473
 Lockable	✓	✓	✓	✓	✓	✓	✓
 Non-lockable (simple push button)	✓	-	✓	-	-	-	✓
 Customized key code	✓	✓	✓	✓	✓	✓	✓
 DLP-Premium key code clipsable	-	✓ ²	-	✓ ²	-	✓ ²	-
 DLP-Standard key code clipsable	-	✓	-	✓	-	✓	✓
 Reversible key code assembled	✓	✓	✓	-	✓	-	✓
 S-Profile key code assembled	✓	-	✓	-	-	-	-
 Dust and splash-proof	-	✓	-	-	-	✓	-
 Door installation	-	-	✓	✓	-	-	-
 Hood installation	✓	✓	✓	✓	✓	✓	✓
 Metal installation	✓	✓	✓	✓	✓	✓	✓
 Glass installation	-	-	✓	✓	✓	✓	✓

CUSTOMIZED FASTENERS



4487



4488

These cylinder latches are customer-specific and are not for sale. We will gladly develop an individual product for you!

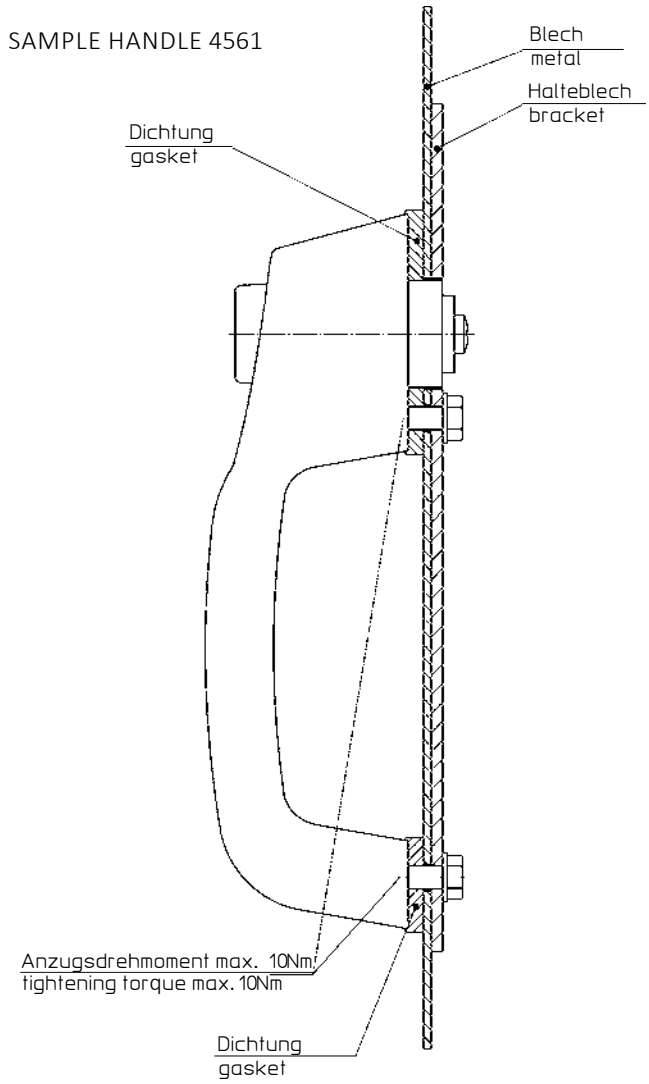
¹non over-the-counter key codes such as Komatsu, Cat, Bobcat and Hitachi

²on request

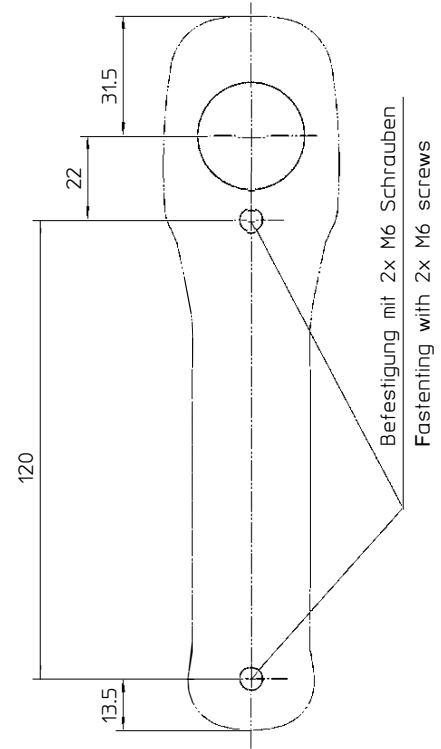


METAL INSTALLATION

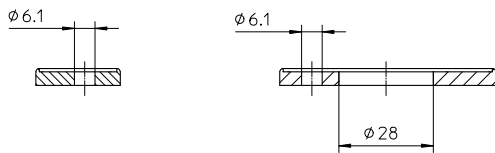
THIS PRINCIPLE APPLIES TO SERIES 4560, 4561 AND 4562



MOUNTING



GASKETS



GASKET EXAMPLES

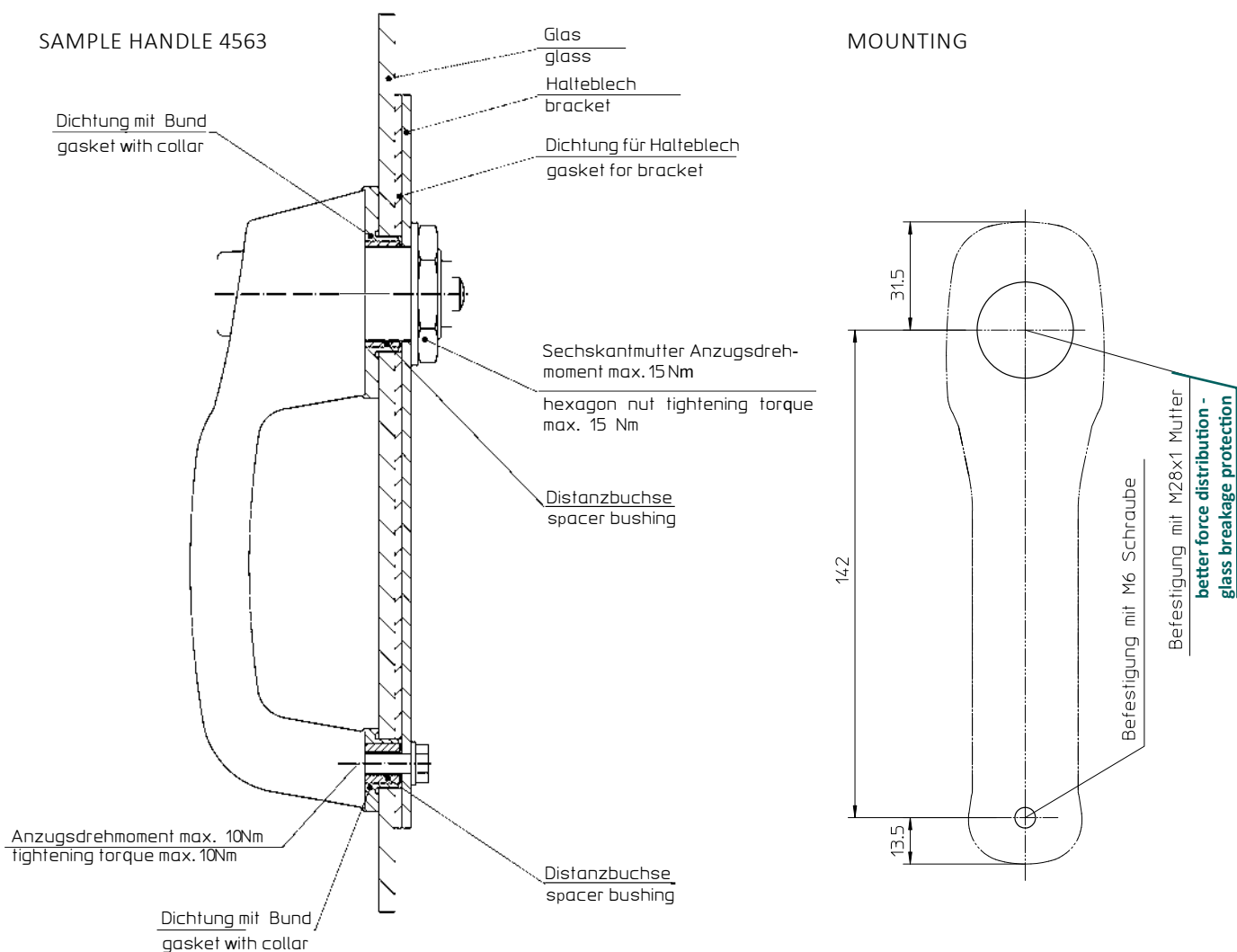


For mounting exterior handles on sheet metal we offer rubber seals, which regulate the contact area. We have a standard range of rubber gaskets available.

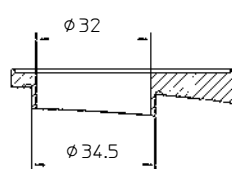
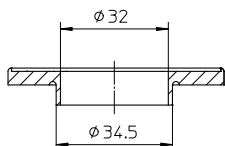
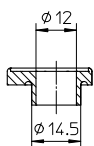


GLASS INSTALLATION

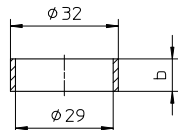
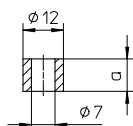
THIS PRINCIPLE APPLIES TO SERIES 4563, 4565, 4570, 4573, 4576 AND 4577



GASKET WITH COLLAR



SPACERS FOR GLASS SHEET PROTECTION












The rubber gasket for the corresponding handles have a collar (an elevation), which is passed through the glass and prevents the spacer bushing from coming into contact with the glass, therefore protecting the pane.

The spacer bushing are placed in the cut-out of the rubber seal during installation. The spacer bushing minimizes the load on the glass when fixing the handle. On the inside of the glass door a rubber seal and a retaining plate or a deflection is placed.



Series 4526



-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

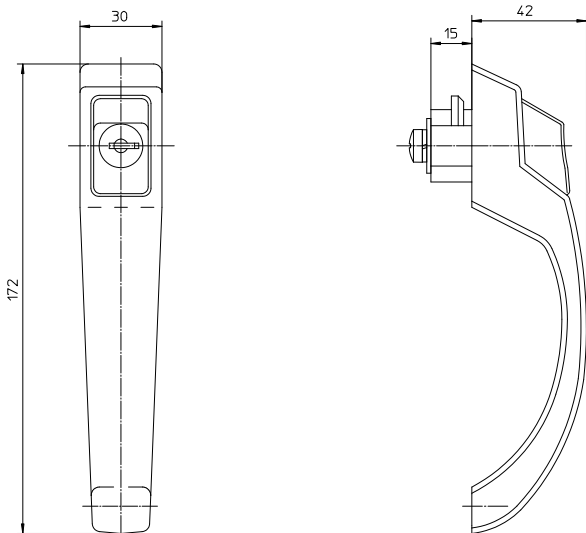
The 4526 series is a handle concept with a simple design for small to medium metal doors. Various cylinder systems can be selected for this handle. Alternatively, this handle can be delivered without a cylinder, so it is triggered only by the push button. The triggering mechanism is made by the mounted locking tabs.

It is possible to attach only a transport lock so that you can position your own release independently behind the handle. This is a proven concept in applications where cost-effective solutions are prioritized. High-quality materials ensure colour durability.

AVAILABLE ACCESSORIES



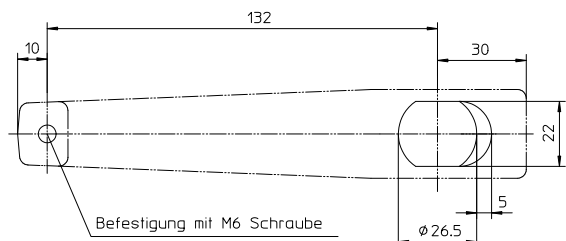
TECHNICAL DRAWING



SIDE VIEW



ASSEMBLY

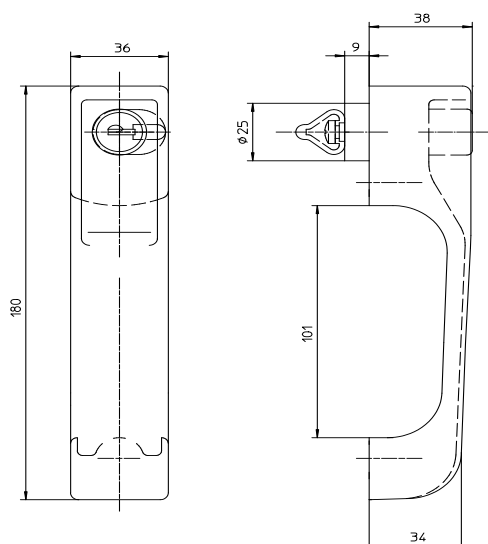
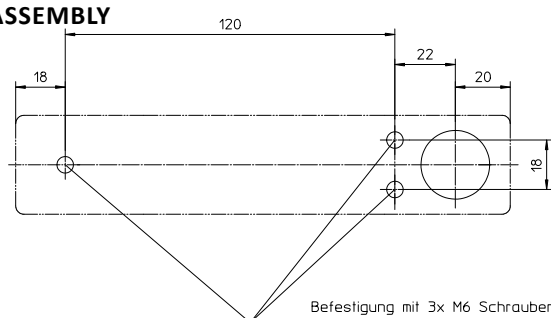


Series 4560

**TO KNOW**

Our 4560 series handles are for small to medium metal doors and are plain in design. There are different locking cylinders selectable with this handle. Alternatively, this handle can also be delivered without a cylinder, so it is triggered only by the push button.













The release mechanism is triggered by our mounted push buttons. It is possible to attach only a transport lock so that you can position your own release independently behind the handle. Even with this historical product, a remote control key can be integrated.

AVAILABLE ACCESSORIES**TECHNICAL DRAWING****SIDE VIEW****ASSEMBLY**

Series 4561

RIGID PUSH BUTTON HANDLE



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  S-Profile key code
-  Dust and splash-proof
-  Metal installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

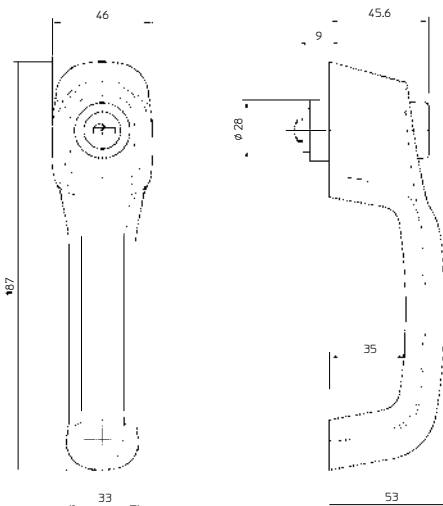
Our 4561 series push button handle is suitable for all metal doors and is a high quality handle concept. Almost all commercially available key codes can be supplied with this handle. The push button cannot be operated in the locked state.

The handle is extremely resilient due to high-quality materials. In connection with our automotive (DLP) cylinder system it is dust and splash-proof according to IP54. Our handle 4561 can also be ordered without cylinder, as a simple version with push button.

AVAILABLE ACCESSORIES



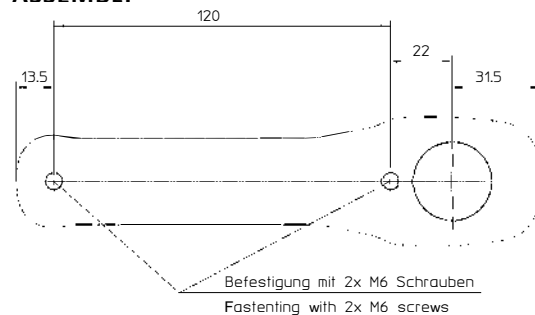
TECHNICAL DRAWING



SIDE VIEW












ASSEMBLY



Series 4562

RIGID PUSH BUTTON HANDLE

-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Door installation
-  Hood installation
-  Colourfast

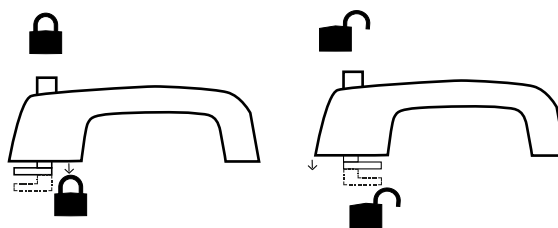


Schwenkbewegung Taster
turnable locking tab 180°

TO KNOW

The handle of the 4562 series differs in a few aspects from the 4561 variant. The push button is not locked but pivoted. The lock is not released when the tab is pressed in the locked state, since the integrated tab agitate past the lock (freewheeling). You will know this feature from the automotive industry.

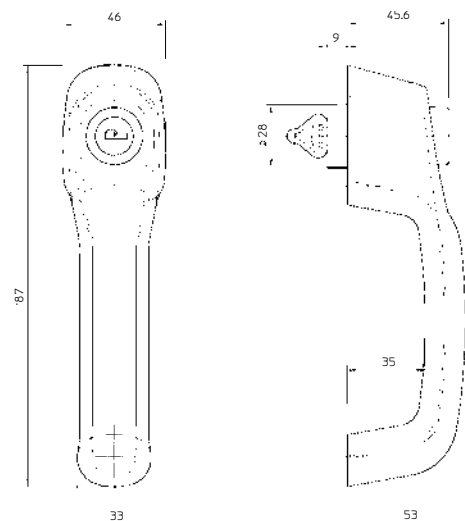
FUNCTIONAL ILLUSTRATION



AVAILABLE ACCESSORIES



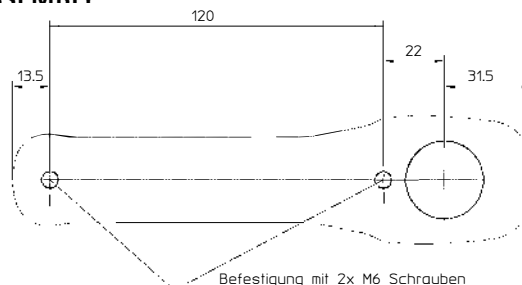
TECHNICAL DRAWING



SIDE VIEW














ASSEMBRY



Series 4563

RIGID PUSH BUTTON



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  S-Profile key code
-  Dust and splash-proof
-  Glass installation
-  Door installation
-  Colourfast

TO KNOW

Our high-quality handle concept of the 4563 series is suitable for use in all glass doors (4.00 mm thickness) due to the M28 metal thread. The handle impresses with its ergonomic design with pleasant handling. It is extremely resilient due to high-quality materials.

In combination with our DLP cylinder system, it is dust and splash-proof according to IP 54. This handle can also be delivered without cylinder, as a simple variant with push button.

AVAILABLE ACCESSORIES



05.0948/9.0100



DLP key



Reversible key

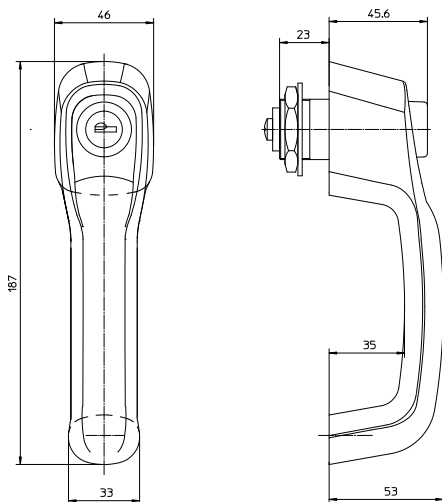


S-Profile key



Clip-in cylinder

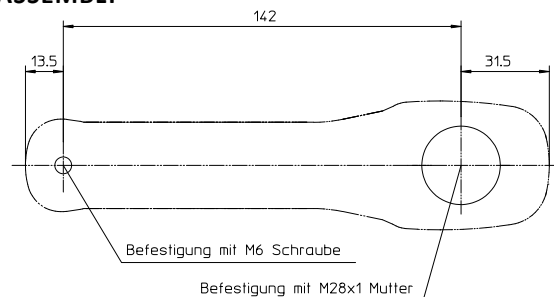
TECHNICAL DRAWING



SIDE VIEW














ASSEMBLY



Series 4565

RIGID PUSH BUTTON

-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  S-Profile key code
-  Dust and splash-proof
-  Glass installation
-  Door installation
-  Colourfast



TO KNOW

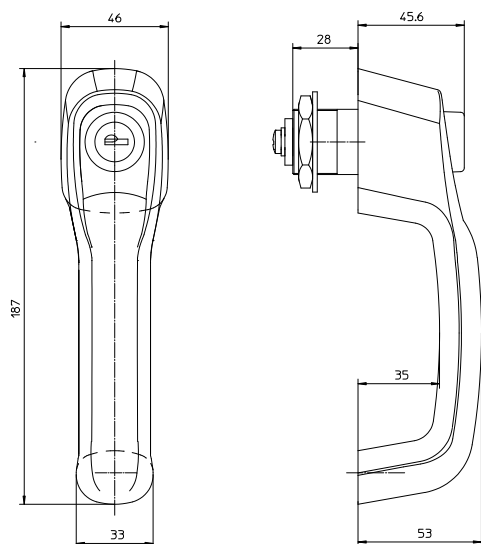
The 4565 series handle differs from the 4563 variant in only one aspect. The difference is the extra long M28 thread for use in all glass doors.

In combination with our automotive cylinder system, this handle is dust and splash-proof according to IP 54.

AVAILABLE ACCESSORIES



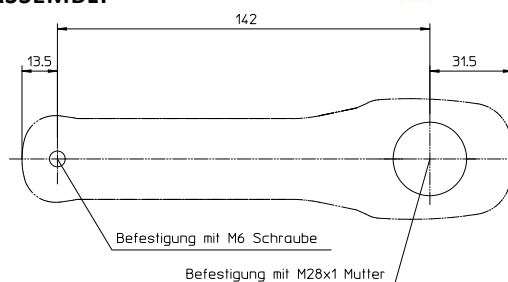
TECHNICAL DRAWING



SIDE VIEW











ASSEMBLY



Series 4570



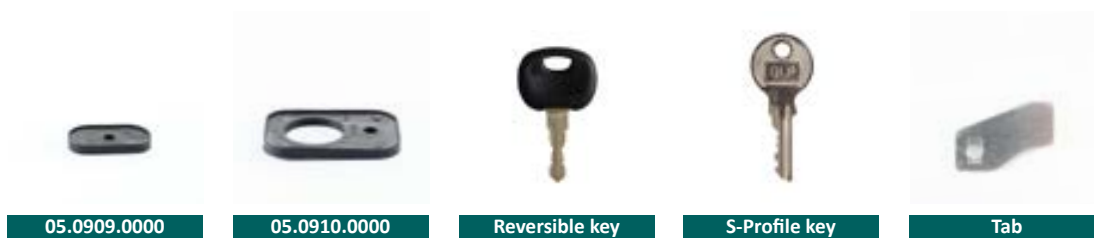
-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Glass installation
-  Door installation
-  Colourfast

TO KNOW

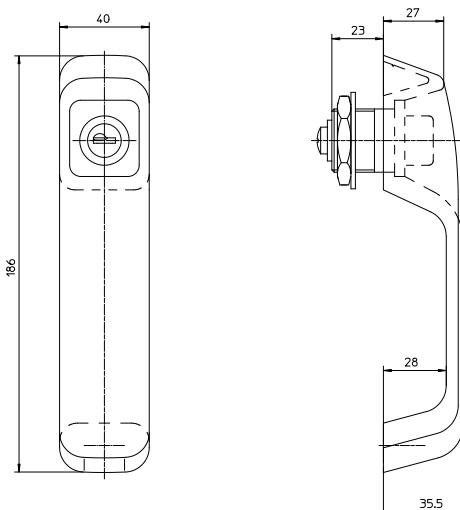
Our 4570 series is best suited for glass doors. Due to the use of high quality materials, this product series is particularly stable and colourfast. It can be delivered with the well-known reversible or DLP cylinder system.

This handle can also be delivered without a cylinder, as a simple variant with push button.

AVAILABLE ACCESSORIES



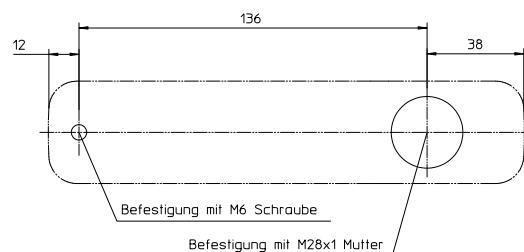
TECHNICAL DRAWING



SIDE VIEW



ASSEMBLY



Series 4573



Lockable



Customized key code



Reversible key code



Glass installation



Door installation



Colourfast



TO KNOW

The 4573 series is a simple handle concept for all glass doors. All known reversible key code and cylinder system can be supplied with this handle.

The handle is highly resilient due to the M28 metal thread. This solid handle is characterized by high quality materials.

AVAILABLE ACCESSORIES



05.0926.0000



05.0924.0000

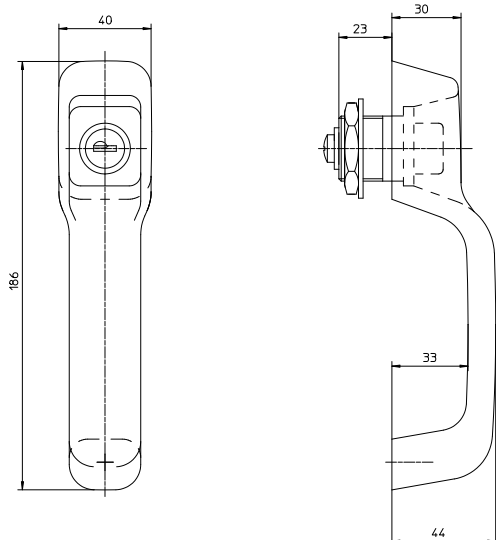


Reversible key



Tab

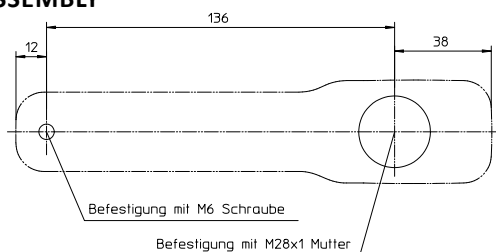
TECHNICAL DRAWING



SIDE VIEW



ASSEMBLY



Series 4576



Glass installation



Lockable



Non-lockable



Customized key code



DLP-Premium key code



DLP-Standard key code



Reversible key code



Dust and splash-proof



Remote control key



Emergency unlocking



Door installation



Hood installation



Colourfast

TO KNOW

Our 4576 series handle is a bestseller on the agricultural machinery market. You can choose between a lockable version or a simple push button (without cylinder). This handle is provided with an M28 thread and is therefore suitable for installation in all glass doors. The design and handling are very important for this series.

In addition, we have integrated our automotive (DLP) cylinder system into this ergonomic handle and can therefore offer a wide range of locking options and security. In conjunction with our automotive cylinder system, these handles are dust and splash-proof according to IP54. The adaptation of our remote control key is possible with this handle model. In principle, we ensure that a mechanical emergency release is provided in the event of a power failure.

AVAILABLE ACCESSORIES



05.0941/0942.0100



05.0986/0987.0100



DLP key



Reversible key

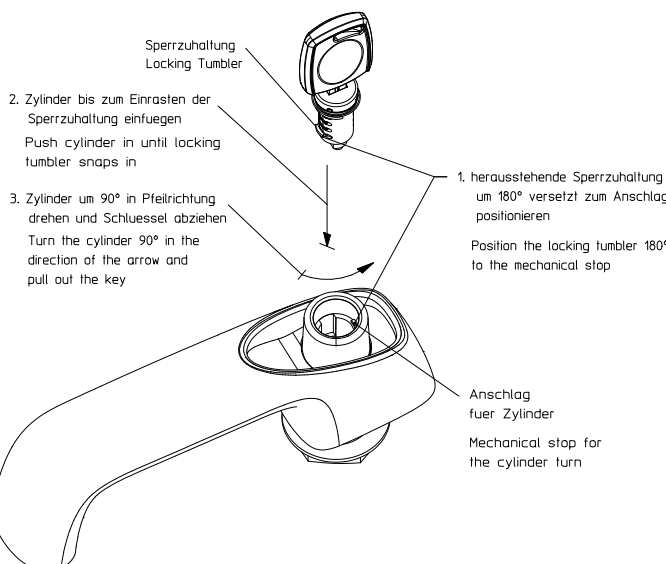


Remote control key



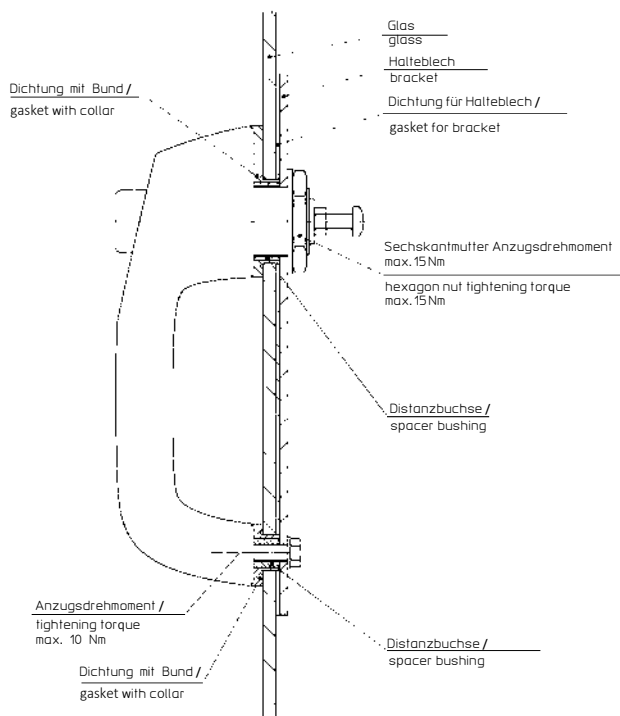
Clip-in cylinder

ASSEMBLY WITH AUTOMOTIVE CYLINDER SYSTEM



Series 4576

GLASS INSTALLATION



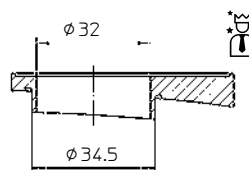
ASSEMBLY



GASKETS



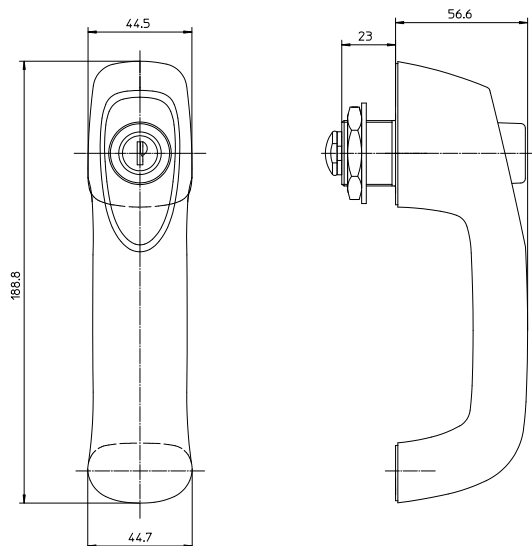
GASKET GLASS ADAPTED



SPACER FOR GLASS PROTECTION



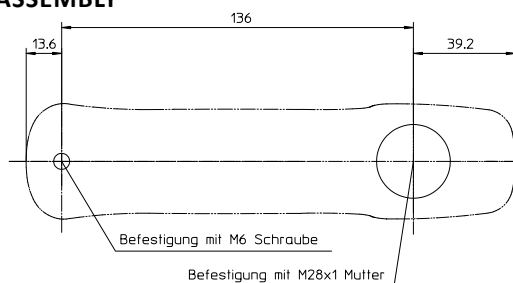
TECHNICAL DRAWING



SIDE VIEW
















ASSEMBLY



Series 4577



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  Dust and splash-proof
-  Remote control key
-  Emergency unlocking
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

The 4577 series was developed 20 years ago and new variants continue to be created to this day. This robust handle is particularly popular with construction equipment manufacturers. It is a very high quality handle concept and due to the M28 thread it is suitable for all glass doors. Almost all DLP cylinders can be supplied with this handle.

In addition, the handle can also be delivered without a cylinder, as a simple push button. Due to the use of high quality materials and the most modern manufacturing processes (gas injection process) this series is extremely resilient. In combination with our new cylinder system it is dust and splash-proof in accordance with IP54. Furthermore, this handle can be integrated into our radio remote control system.

AVAILABLE ACCESSORIES

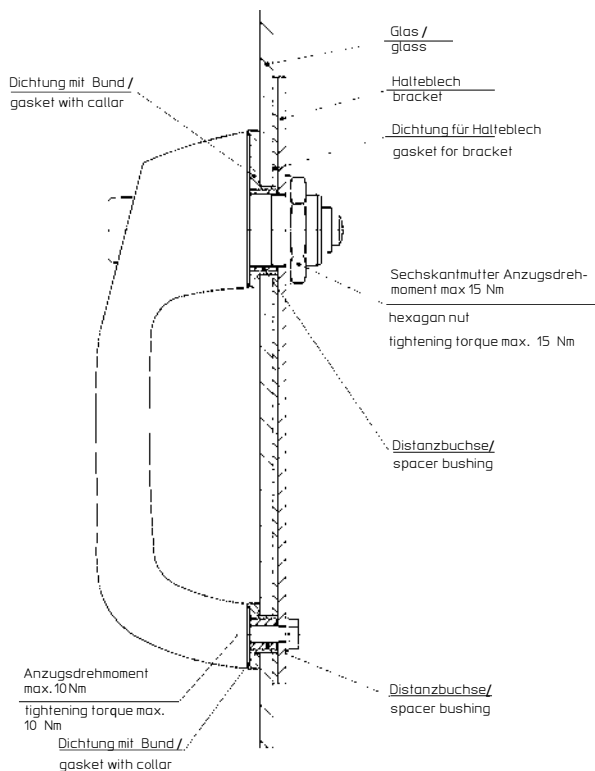


 We understand vehicle language - also in design.

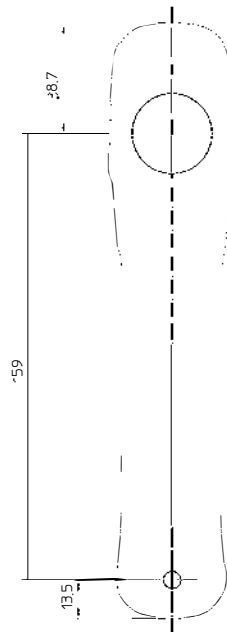


Series 4577

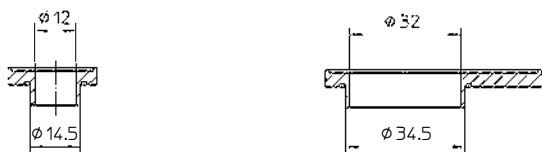
GLASS INSTALLATION



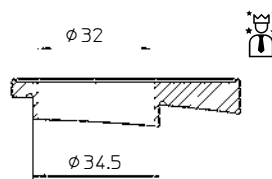
ASSEMBLY



GASKETS



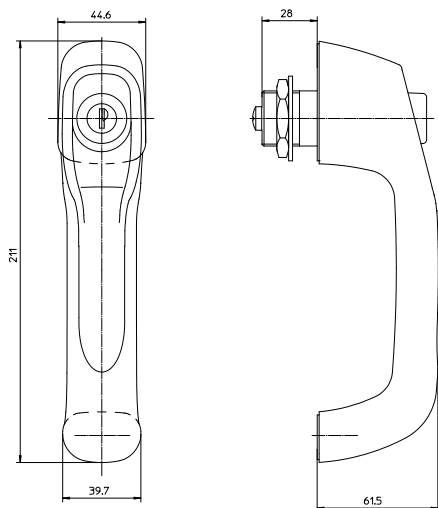
GASKET GLASS ADAPTED



SPACER FOR GLASS PROTECTION



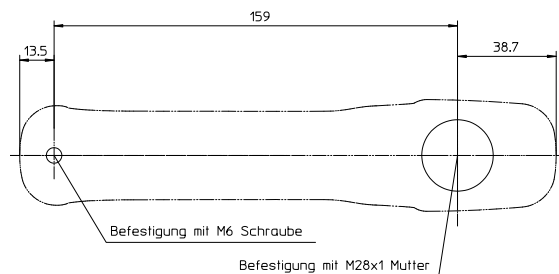
TECHNICAL DRAWING



SIDE VIEW



ASSEMBLY



Series 4581

PREMIUM-PULL HANDLE



Electronics



Lockable



DLP-Standard key code



Glass installation



Door installation



Customized key code



Reversible key code



Dust and splash-proof



Hood installation



DLP-Premium key code



Metal installation



Remote control key



Colourfast

TO KNOW

Our high-quality **premium pull handle** concept of the 4581 series is suitable for all glass and metal doors, optionally with M28 or M6 metal thread inserts. The adaptation of our remote control key is possible with this handle model. In principle, we ensure that a mechanical emergency release is provided in the event of a power failure. It is an ergonomic design with particularly comfortable handling.

The pull handle is extremely durable due to high-quality materials and state-of-the-art manufacturing processes. This handle can withstand extreme tensile loads of up to 1,000 kg. The common cylinders can be integrated, so that a **One Key System** is possible for your vehicle.

In combination with our automotive cylinder system, it is dust and splash-proof to IP 65. When locked, the handle of the glass version has a freewheel/idle stroke, just as you would expect in the automotive industry. The integration of electronic options is possible with the premium pull handle.

The door is opened via almost invisible soft-touch modules integrated on the inside of the pull handle. Only the remote control key on the person is necessary to open the door (key-less entry).

AVAILABLE ACCESSORIES



DLP key



Reversible key



Remote control key



Clip-in cylinder



Gasket



Deflection



SET EXAMPLE

Series 4581

APPLICATION
SAMPLE



FEATURES OF DLP-PULL HANDLES

Characteristics	Reversible key code	DLP key code	Glass installation	Metal installation	Gauge	Remote control	Keyless entry	Impermeability
4581 premium without freewheel	✓	✓	✓ not recommended	✓	120,00	-	-	IP65
4581 premium with freewheel	✓	✓	✓	✓ not recommended	159,00	✓	✓	IP65
4583 Standard	✓	✓	✓ not recommended	✓	120,50	-	-	IP66

SERIES 4581

With freewheel



Without freewheel



SERIES 4583

Without freewheel



Series 4581

SPECIAL FEATURES

RADIO REMOTE CONTROL



CONTROL FROM DISTANCE
Our remote control key can be used to unlock the premium pull handle. This contains many expandable functions for an intelligent overall concept.

SENSORICS



TOUCH DETECTION
DLP handles contain the future. Our premium pull handle can be equipped with a sensor. When you touch the door handle the door is unlocked and access to the vehicle is granted.

KEYLESS ACCESS



KEYLESS ACCESS
Keyless access to the vehicle is provided. When the vehicle is approached, radio signals unlock the door.

LED-LIGHTING



OPTIONAL ILLUMINATION
Our premium pull handle can be equipped with LED lighting.

DUST AND SPLASH-PROOF



IP65
We provide dust and splash-proof protection for our premium pull handles.

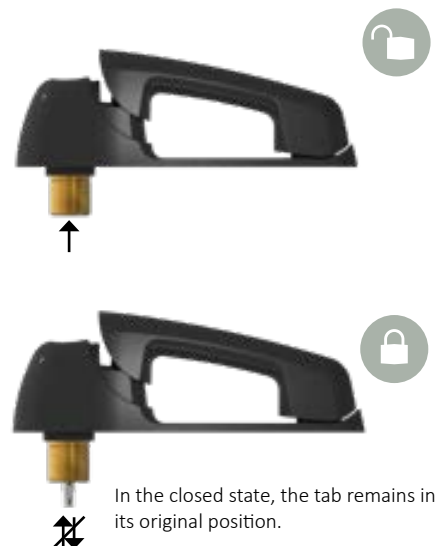
FREEWHEEL FUNCTION



MODERN HANDLE DESIGN
The glass version with M28 threaded bush has a freewheel/idle stroke when locked. This allows the user to pull the handle without opening the door of the vehicle.



LED-lighting

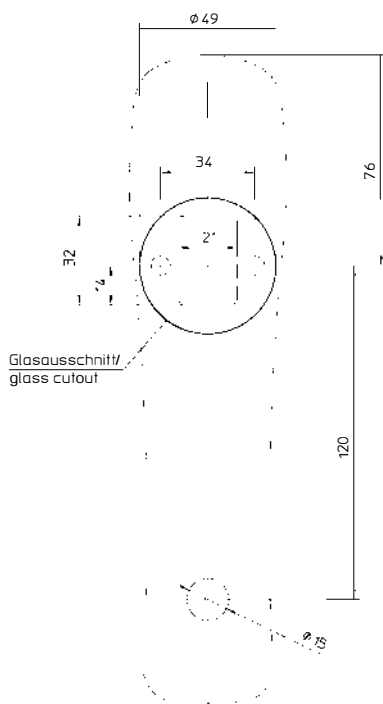


In the closed state, the tab remains in its original position.

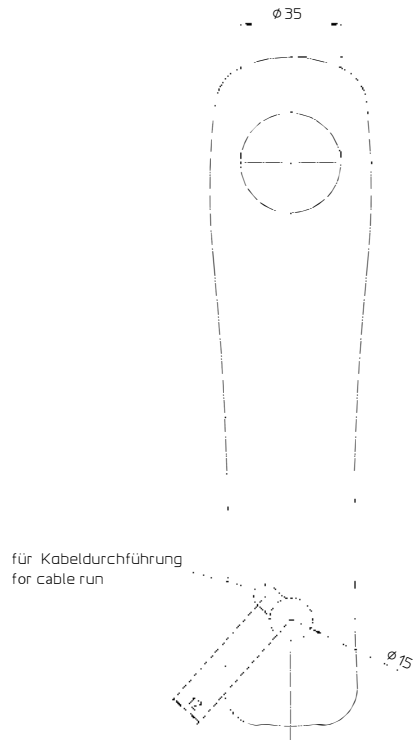
Series 4581

GLASS AND METAL INSTALLATION

METAL INSTALLATION



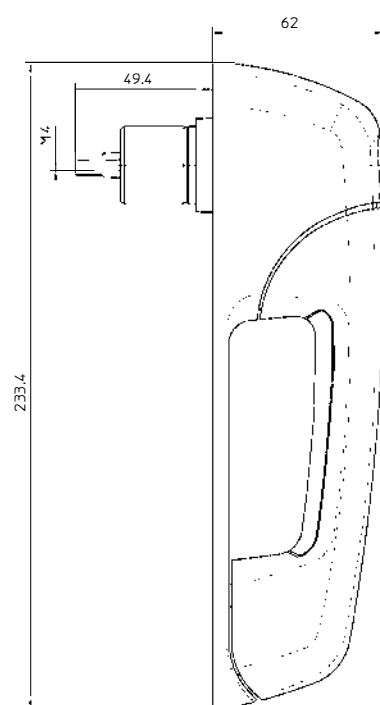
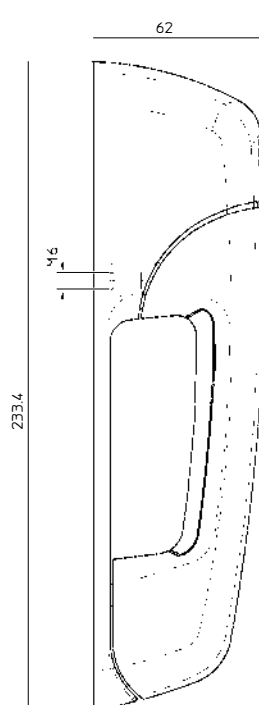
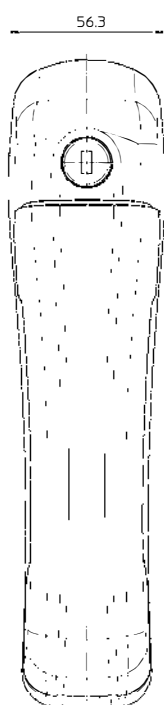
GLASS INSTALLATION



INSTALLATION EXAMPLE













TECHNICAL DRAWING



Series 4583

STANDARD-PULL HANDLE



-  Lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  Metal installation
-  Dust and splash-proof
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

Pull handles are the trend in the automotive industry (cars and trucks). The standard pull handle is most suitable for installation in metal. The application area of this external handle covers almost all vehicle areas of the off-highway industry. The pull handle, in conjunction with our automotive (DLP) cylinder, is dust and splash-proof according to IP66.

A particularly interesting feature of these pull handles is that opening the doors with high counter pressures is easier than with the familiar push button handles, since the direction of pull corresponds to the direction in which the door is opened.

The standard pull handle is available in reversible key code or with automotive locking cylinder.

If you want a different design of the pull handle or a free-wheel/idle stroke then you can choose our premium variant. The handles are interchangeable, as the installation mounting size was chosen to be the same.

For the latch connection, a deflection is usually used or a Garter fork head/clevis (external product). We will help you with the design construction of your door.

AVAILABLE ACCESSORIES

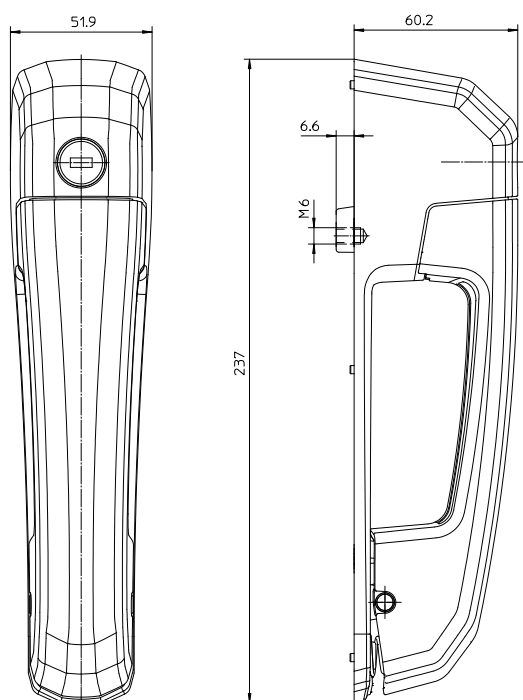


 DLP pull handles are proprietary and patented

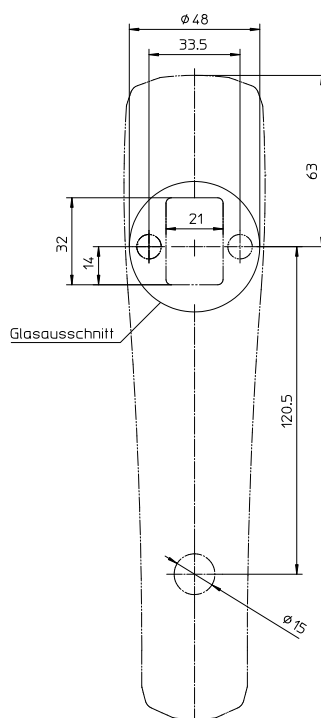
Series 4583

APPLICATION
SAMPLE

TECHNICAL DRAWING



ASSEMBLY













ASSEMBLY SAMPLE



Series 4701



-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

Our 4701 series handle is made of zinc die-cast. It has a push button and can be supplied either with or without a cylinder. We offer this product in silver colour or black powder coated.

The installation depth is controlled by the pin length with thread, which we have available in different lengths. The reversible and automotive key code can be integrated in this handle. This handle is often used for construction machinery.

AVAILABLE ACCESSORIES



26.0904.0000

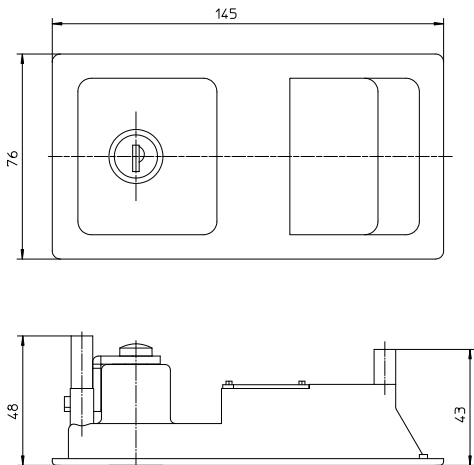


Reversible key

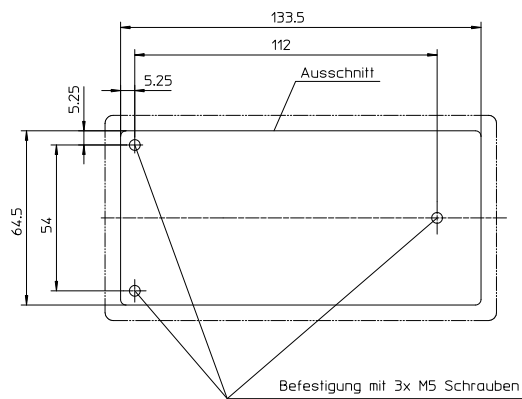


S-Profile key

TECHNICAL DRAWING













ASSEMBLY



SIDE VIEW



Series 4706

-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast



TO KNOW

Our 4706 series handle is made of plastic and has a large gripping surface for opening. Thanks to its flat design, it can be integrated into the smallest installation spaces. It's a proven and frequently used concept for construction machinery and forklifts.

There are already many variants of this handle for opening directly onto a latch or for simultaneous release of two latches. In the 58.4706.0201 variant, a flap latch has been integrated in order to offer a compact and very robust overall concept.

AVAILABLE ACCESSORIES

In combination with the 5036 series flap latch, we offer a proven overall concept.



05.0913.0000



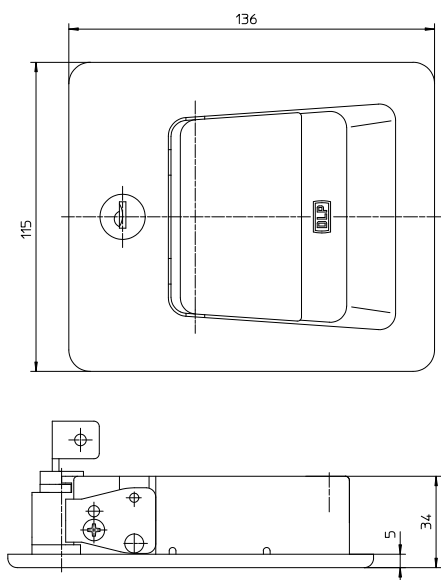
Reversible key



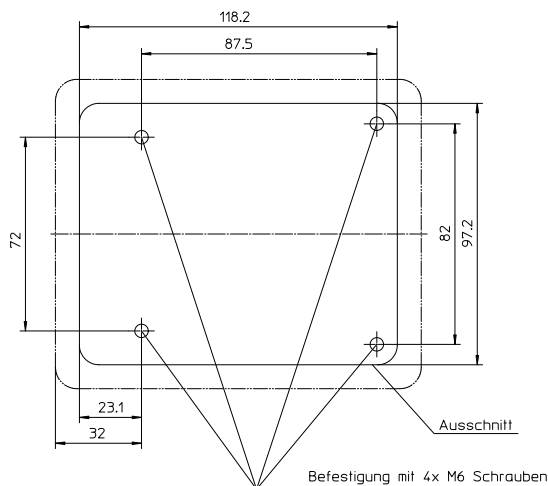
S-Profile key



TECHNICAL DRAWING



ASSEMBLY















SIDE VIEW



Series 4707



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  Dust and splash-proof
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

Our narrow 4707 series handle is ideal for small doors with limited installation space. This concept is often used in forklift trucks. All DLP cylinders can be integrated here and the handle is available with or without a cylinder.

This product is manufactured from high-quality materials using the most modern methods and therefore has an optimum price/performance ratio. In combination with automotive (DLP) locking cylinder, this handle is dust and splash-proof in accordance with IP54.

AVAILABLE ACCESSORIES



05.0950.0100

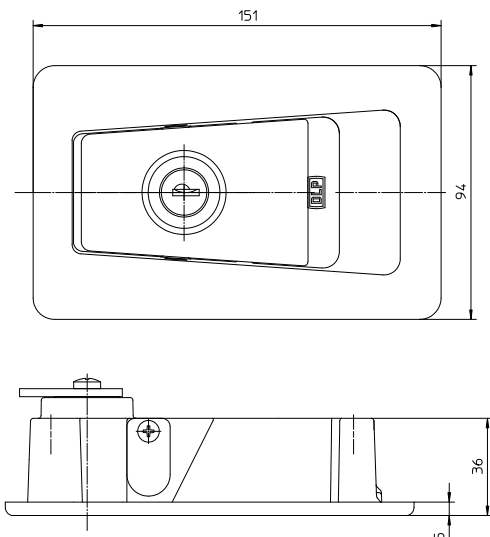
DLP key

Reversible key

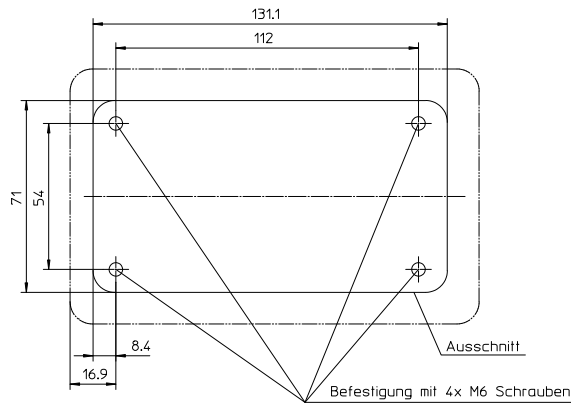
Tab 34.0407.0103

Clip-in cylinder

TECHNICAL DRAWING






ASSEMBLY



SIDE VIEW



Series 4709

 Lockable	 Non-lockable	 Customized key code		
 DLP-Premium and Standard key code	 Reversible key code	 S-Profile key code		
 Dust and splash-proof	 Remote control key	 Emergency unlocking		
 Metal installation	 Glass installation	 Door installation		 Hood installation

TO KNOW

Our 4709 series plastic handle shell can be excellently integrated into modern, attractive cabin concepts. It features a pleasant gripping surface due to its large recess. A wide variety of applications are possible by integrating various deflection. It is available with or without a cylinder.

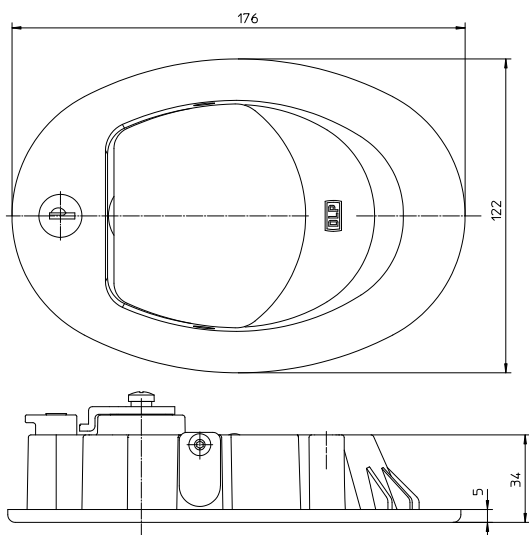
This product is manufactured using the highest quality materials and the most modern methods. In addition, this handle is splash-proof and dust-proof. In the case of the 58.4709.0201 variant, a flap latch from the 5036 series has been integrated to offer a compact and very robust overall concept.

AVAILABLE ACCESSORIES

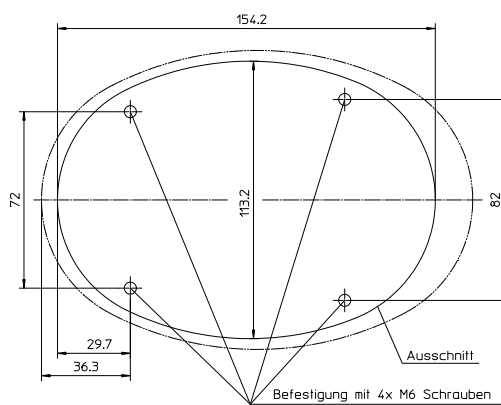
In combination with the flap latch Series 5036, we offer a proven overall concept.

					
05.0951.0100	DLP key	Reversible key	Remote control key	Clip-in cylinder	

TECHNICAL DRAWING



ASSEMBLY















SIDE VIEW



Series 4711



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Reversible key code
-  Dust and splash-proof
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

The installation dimensions have been kept extremely small for our modern 4711 series drawing handle shell with large gripping surface. This has a very flat construction principle. Our automotive cylinder system can be clipped in (IP54).

Of course, you can also purchase this handle with the well-known reversible key codes. All materials used are of very high quality and thanks to modern manufacturing processes this handle is particularly robust.

AVAILABLE ACCESSORIES



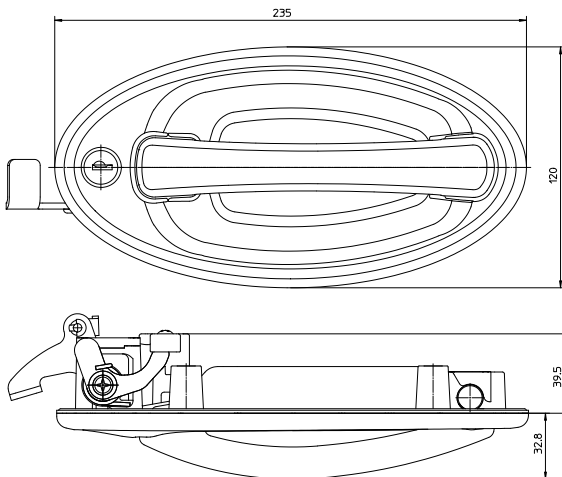
05.0963.0100

DLP key

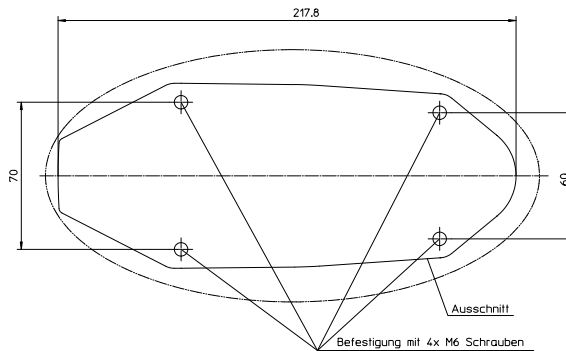
Reversible key

Clip-in cylinder

TECHNICAL DRAWING
















ASSEMBLY



SIDE VIEW



Series 4712






 Lockable	 Customized key code	 DLP-Premium key code	
 DLP-Standard key code	 Reversible key code	 Dust and splash-proof	
 Remote control key	 Emergency unlocking	 Metal installation	
 Glass installation	 Door installation	 Hood installation	

TO KNOW

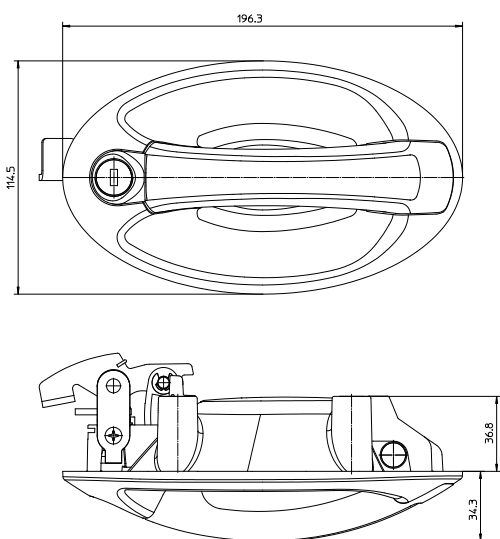
Our modern 4712 series pull handle has an attractive design and our DLP cylinder system can be clipped in afterwards. Of course you can also order this handle with the well-known reversible key code.

In addition to mechanical locking and unlocking, we can also offer this product with remote control key. All materials used are very high quality and thanks to modern manufacturing processes, this handle is very stable.

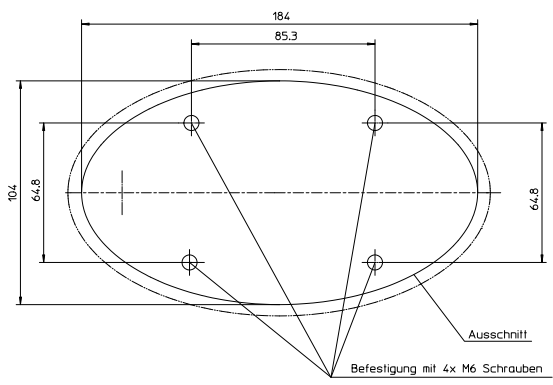
AVAILABLE ACCESSORIES

				
05.1011.0100	DLP key	Reversible key	Remote control key	Clip-in cylinder

TECHNICAL DRAWING



ASSEMBLY



SIDE VIEW



Series 4713



-  Lockable
-  Customized key code
-  S-Profile key code
-  Remote control key
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

Our high quality 4713 series handle concept is suitable for medium to heavy flaps, hoods or doors. The excellent transmission of the gears ensures low release forces. The cylinders are subsequently clipped in, creating a flexible overall concept.

Therefore, our 4713 series is a proven product in the automotive industry. These handles are available in open and closed handle variants. We offer manual, pneumatic or electronic actuation.

AVAILABLE ACCESSORIES



Reversible key

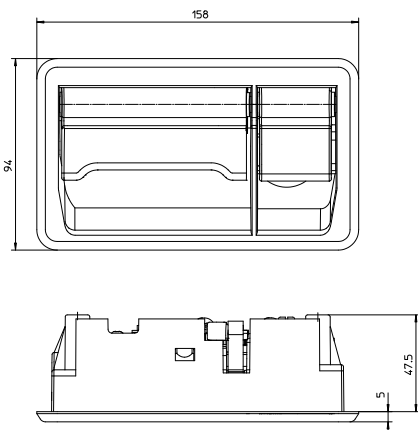


Clip-in cylinder

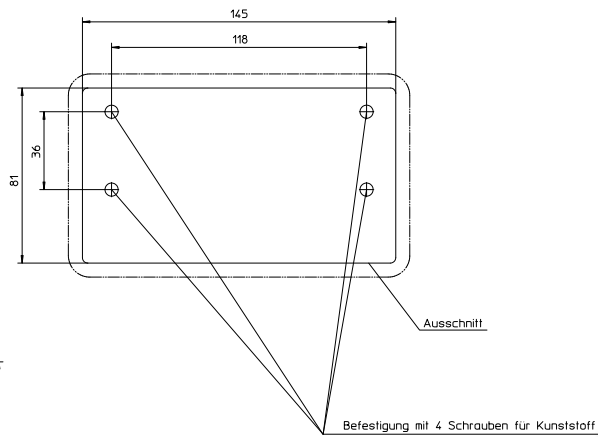
AVAILABLE VARIANTS

Part number	Open handle	Release
58.4713.0101	✓	manually
58.4713.0102	✓	pneumatic
58.4713.0201	-	manually
58.4713.0205	-	Motor 24V
58.4713.0206	-	Motor 12V

TECHNICAL DRAWING



ASSEMBLY



SIDE VIEW



VARIANT











APPLICATION SAMPLES



Series 0311



-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Hood installation
-  Colourfast

TO KNOW

Our 0311 series push buttons are made from die-cast zinc. The closing movement for these products is 180°. In combination with our large selection of release levers, these suit a variety of different applications.

This button is ideal for hoods or small service flaps. Our push buttons are available with or without M28 housing. The scope of delivery includes the hexagon nut and washer for fastening. This product range is also available as a non-lockable version (without cylinder).

AVAILABLE ACCESSORIES



Reversible key



S-Profile key

INCLUDED



Hex nut

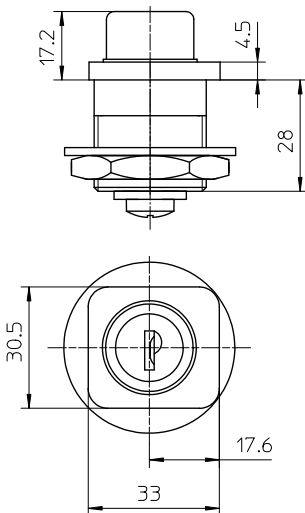


Washer



Screw

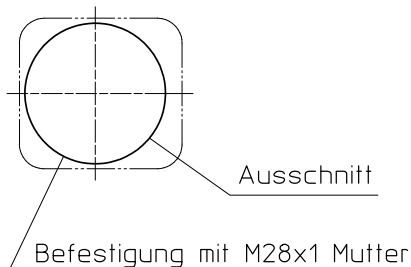
TECHNICAL DRAWING



VARIANTS

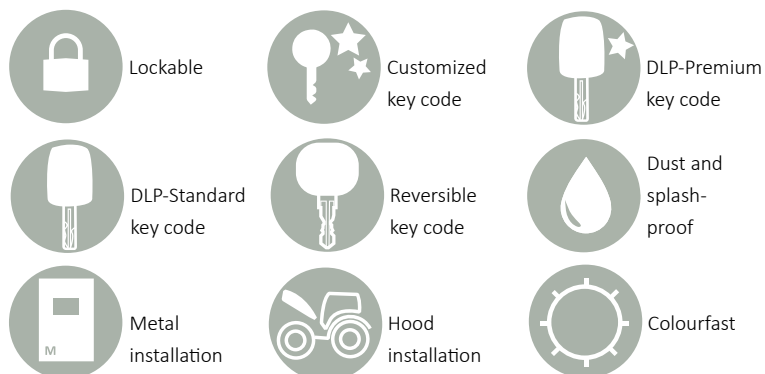


ASSEMBLY



Series 4463

SELF-LOCKING PUSH BUTTON



TO KNOW

The 4463 push button includes a self-locking mechanism (thus fulfilling the requirements of EU Regs. 167/2013, or 1322/2014 § 5.1.: "The hinged engine hood must only be able to be opened with a tool (...) and must lock itself when closed.")

Our push button can be equipped with reversible or DLP key code. The DLP cylinders can be easily clipped in subsequently (e.g. assembly line customer). The key then serves as the necessary tool.

AVAILABLE ACCESSORIES



DLP key



Reversible key

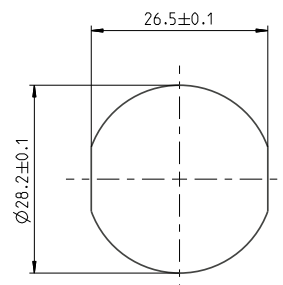


Clip-in cylinder



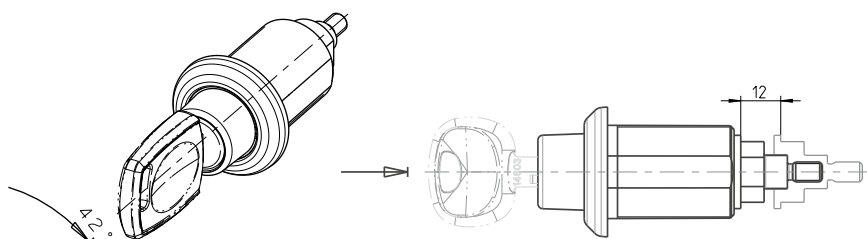
67.4463.9001

ASSEMBLY



FUNCTION OF THE PUSH BUTTON

To unlock the push button, turn the key 42° clockwise. Then the push button can be operated with the key. After releasing the key, the push button including the cylinder is returned to its initial position.



Open with key

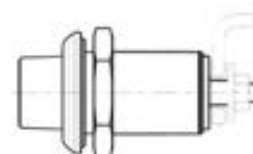
DLP



Reversible













Example connection of a release rod



Maximum tightening torque of the hexagon nut during assembly: 15 Nm

Series 4464



-  Lockable
-  Non-lockable
-  Customized key code
-  Reversible key code
-  S-Profile key code
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast

TO KNOW

The 4464 series is made of die-cast zinc. The closing movement for these products is 180°. We offer a wide variety of release mechanisms.

This button is ideal for hoods or small service doors. The push buttons are available with or without M28 housing. This product series is optionally available with or without cylinder.

AVAILABLE ACCESSORIES



Reversible key



S-Profile key

INCLUDED



Hex nut

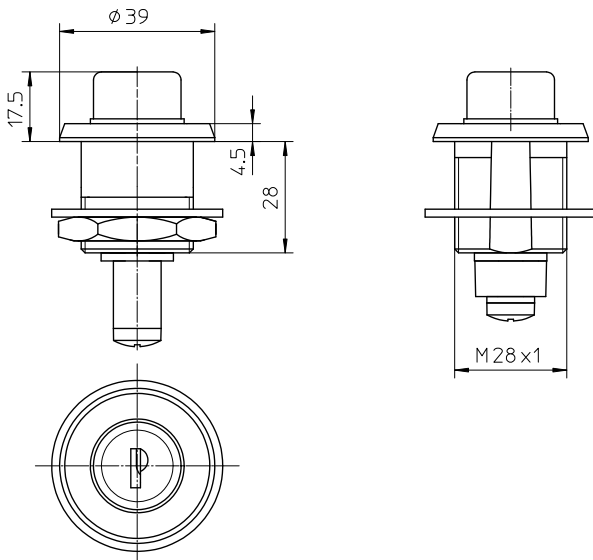


Washer



Screw

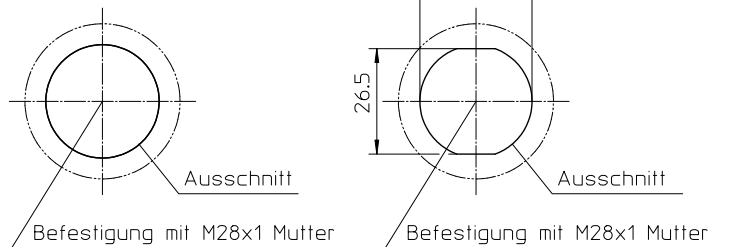
TECHNICAL DRAWING













VARIANTS



ASSEMBLY



Series 4465

-  Lockable
-  Customized key code
-  DLP-Premium key code
-  DLP-Standard key code
-  Metal installation
-  Glass installation
-  Door installation
-  Hood installation
-  Colourfast
-  Anti-rotation protection



TO KNOW

Our push button of the 4465 series is available either in high quality plastic or in zinc die-casting for an even higher stability. The closing movement of these products is 180° and the closing mechanism is very smooth. This push button is ideal for hoods or small service flaps.

Thanks to an injection-molded cylinder bushing, our modern automotive cylinders can subsequently be clipped in. This enables flexible handling. The zinc die-cast version is available with or without anti-twist protection. The cams on the housing hold the push button in position when tightening.

AVAILABLE ACCESSORIES



DLP key

INCLUDED



Hex nut

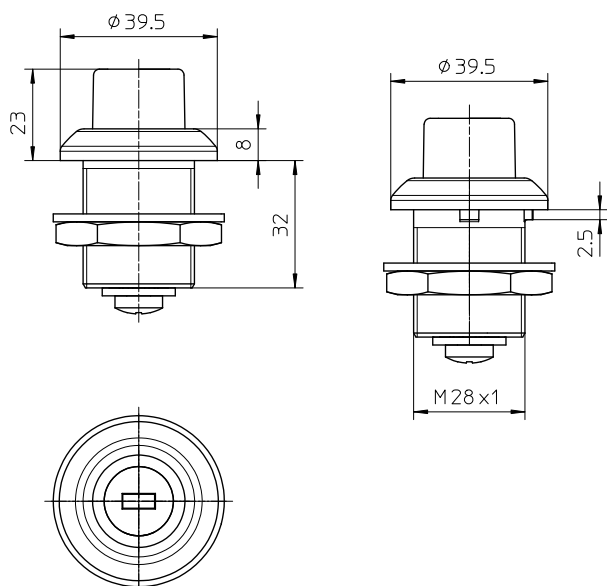


Washer



Screw

TECHNICAL DRAWING



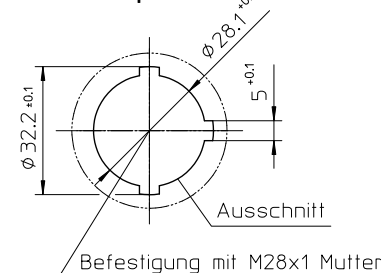
VARIANTS



ASSEMBLY










Anti-rotation protection



Series 4471

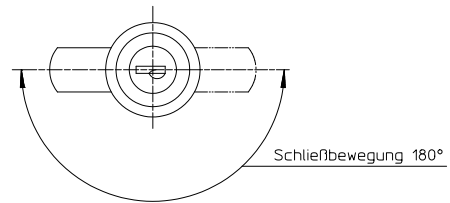


-  Lockable
-  Customized key code
-  Reversible key code
-  Metal installation
-  Glass installation
-  Hood installation
-  Colourfast

TO KNOW

Our 4471 series cylinder lock are supplied in a chrome-plated finish. The closing movement for these products is 180°. In conjunction with our large selection of push buttons, we offer a variety of release options. This closure is available in two different housing lengths. Series 4471 is often used as a tool box lock.

FUNCTIONAL PRINCIPLE



AVAILABLE ACCESSORIES



Customized key



Reversible key

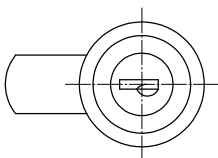
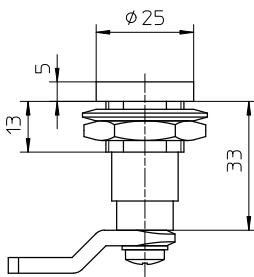


Tab 32.0433.1022



Tab 32.0433.0222

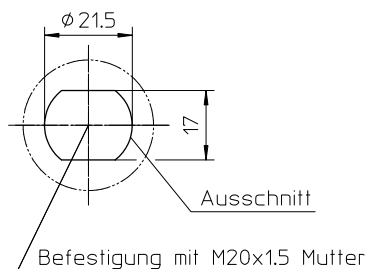
TECHNICAL DRAWING












VARIANTS



ASSEMBLY



Series 4472

 Lockable	 Customized key code	 DLP-Premium key code
 DLP-Standard key code	 Dust and splash-proof	 Metal installation
 Glass installation	 Hood installation	 Colourfast

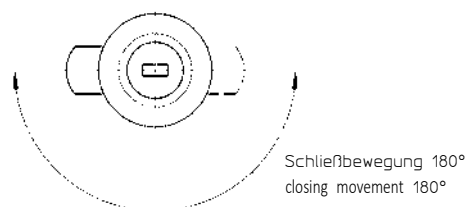


TO KNOW

Our 4472 series cylinder locks are made of either high-quality plastic or die-cast zinc. The locking movement for these products is 180° for the long housings and 90° for the short variants.

Thanks to a injected cylinder bushing, our modern DLP cylinders and keys can subsequently be clipped in. The dust and splash-proofing conforms to IP54.

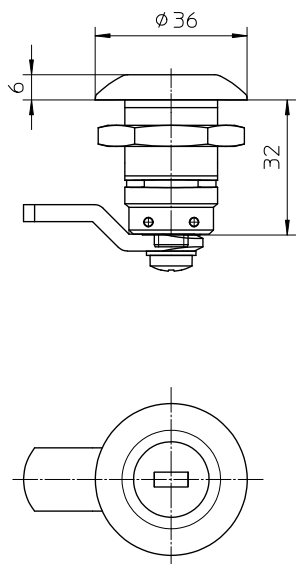
FUNCTIONAL PRINCIPLE



AVAILABLE ACCESSORIES

					
DLP key	Clip-in cylinder	Tab 32.0433.0522	Tab 32.0419.0222	55.4472.0001	55.4472.0010

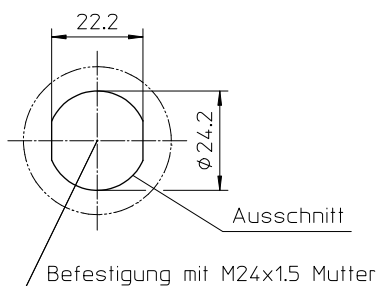
TECHNICAL DRAWING



VARIANTS












ASSEMBLY



Series 4473



-  Lockable
-  Non-lockable
-  Customized key code
-  DLP-Standard key code
-  Reversible key code
-  Metal installation
-  Glass installation
-  Hood installation
-  Colourfast

TO KNOW

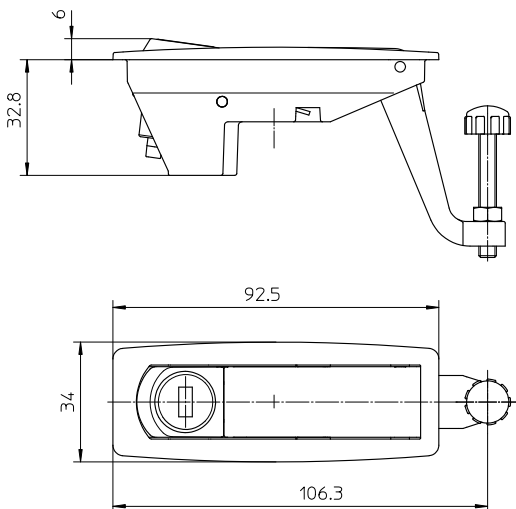
Our pleasing designed and extremely compact 4473 series handle with push button is a proven product in the automotive industry. The flat design makes this handle ideal for integration.

It is a high-quality handle for small flaps or hoods. The opening behaviour is very easy due to the push button. For more security, we also offer the handle with our well-known reversible key code or our automotive cylinders.

AVAILABLE ACCESSORIES



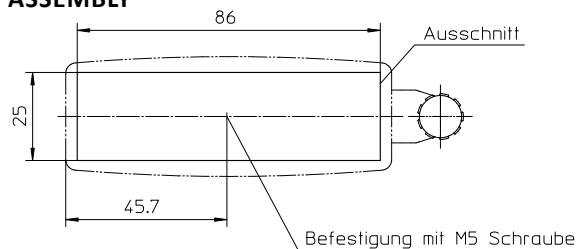
TECHNICAL DRAWING



SIDE VIEW



ASSEMBLY





CUSTOMIZED HANDLES



We understand the wishes of our customers and convince with excellent solutions

PUSH BUTTON HANDLES/PULL HANDLES



4578



4580



4584

FLAT HANDLES



4710



4719



4584

FASTENERS



4487



4488

TO KNOW

The products shown are customized and not for free sale. They have been developed specifically for our customers requirements. We offer you the possibility to develop your own product with us and to manufacture it exclusively for you.

We value your individual wishes and give you the opportunity to install a unique product. Your vehicles are our passion and have been for over 160 years.

Deflection



41.5041.0102
Deflection



41.5040.0105
Deflection with clip



41.5040.3501
Redirection customer exclusive



41.5040.8302
Deflection for drawing handle

TO KNOW

Our deflectors have been developed to match our handles. The external handle can operate a remotely mounted latch with a bell crank/deflector by changing the push button action into that of a pulling action.

This makes it possible to position the handle as desired position without having to mount the outside handle directly behind the latch.

Gasket



05.0913.0000
Gasket for flat handle



05.0949.0100
Gasket for push button handle



05.4581.2500
Gasket for pull handle



05.5500.3000
Customized gasket

TO KNOW

Our gaskets are basically intended to perform a sealing function, but depending on the area of application they are also used to for the protection of the applications.

We have the right gasket in our program for almost every application. We are constantly expanding our range by fulfilling customer-specific wishes, such as radius adaptations to the disc contour.

Steel spacer



05.0150.9222
Steel spacer



05.0232.9222
Steel spacer



05.0284.9222
Steel spacer



05.0285.9222
Steel spacer

TO KNOW

The steel spacer are used when installing handles to protect the washer. These are inserted into the seal with collar for glass installation.

For further explanations on their use, please refer to page 103.

Locking tab



32.0419.0122
for 4576



32.0439.0422
for 4570



32.0447.0322
for 4570



32.0472.0122
for 4561/4563

TO KNOW

Our range of tabs is very extensive. Depending on the end product, we have over 100 different locking tabs in our pro-

gram, which, in combination with the handle, establish the connection to the latch and thus guarantee a perfect function.

Grab handle



67.4490.9001



67.4566.9001



77.7000.9011



77.7000.9019

TO KNOW

Our grab handles come in a wide variety of lengths, but what they all have in common is that they are very sturdy and meet your requirements for the longevity of our products.

Our grab handle of the 4566 series has a fixed mounting of 150,00 mm and is price competitive.

Recessed handle



70.7000.0012



TO KNOW

Recessed grips are often used for service flaps. Especially when the application does not require a complex external fitting, but a flat design is preferred, our recessed grip is used.

Series 4479



Lockable



Non-lockable



Customized key code



DLP-Standard key code



Reversible key code



Dust and splash-proof



Metal installation



One Key-System

TO KNOW

Our tank caps can be delivered with or without ventilation and with or without cylinder. Almost all DLP key codes integrated into the tank cap by simply clipping them in. We distinguish the tank caps with threaded and with bayonet lock. If required, we can also supply you with AdBlue tank caps.

We can supply different diameters, but a 60,00 mm diameter tank cap is our standard product. We also supply the necessary accessories for our tank caps, such as threaded nozzles and filters.

CLOSURE OPTIONS



Thread lock



Bayonet lock

SAMPLES



Diesel



AdBlue

SAMPLES



55.4479.0005
Diesel reversible key code



55.4479.0008
Diesel DLP-Standard key code



05.4479.3700
AdBlue - non-lockable



05.4479.3900
Lockable

Series 4479

SAMPLES

Part number	Thread	Bayonet	Ventilated	Lockable	Key code	Diameter 60,00 mm	Symbol	Symbol chain
05.4479.0400	✓	-	✓	-	-	✓	Diesel	-
05.4479.0400	✓	-	✓	-	-	✓	Diesel	-
05.4479.3700	-	✓	-	-	-	✓	Adblue	✓
05.4479.3900	-	✓	✓	✓	Standard	✓	-	✓
05.4479.4300	✓	-	-	✓	Standard	✓	Diesel	-
55.4479.0001	✓	-	-	✓	Reversible	✓	Diesel	-
55.4479.0004	✓	-	✓	✓	Reversible	✓	Diesel	-
55.4479.0007	✓	-	-	✓	Reversible	✓	Diesel	-
55.4479.0012	✓	-	-	✓	Standard	✓	Diesel	-
55.4479.0014	-	✓	✓	✓	Standard	-	fuel pump	-
55.4479.0015	-	✓	-	✓	Standard	-	fuel pump	-

AVAILABLE ACCESSORIES

Thread insert,
screwable

Filter



DLP Key



Reversible key



Clip-in cylinder





Padlocks



Lockable



DLP-Standard
key code



Dust and
splash-
proof



Hood
installation



Metal
installation



One Key-
System

TO KNOW

Our product extensions include a selection of padlocks. The products we offer are particularly sturdy and visually very appealing.

In addition, you need the matching cylinder and key so that you have a functional product. Thanks to the interchangeable cylinder, you can combine several DLP products with the same key and only need one key **(thanks to the One Key System)** for your entire vehicle.



83WPIB / 53DLP

FOR HIGH SECURITY REQUIREMENTS - WATER-PROTECTED

Thanks to the plastic-coated lock body made of solid brass and the rust-free shackle made of hardened stainless steel, the lock is extremely resistant to corrosion and weathering.

The cylinder protection with drainage channel, which removes moisture that has penetrated the lock, also makes the ABUS 83WPIB padlock a reliable and durable companion.



83AL / 45 DLP



83AL / 50 DLP

LIGHT AND FLEXIBLE

Padlock 83AL Titalium is very suitable for locking grilles, doors, gates, cabinets, tool boxes, basement windows, switchgears or barriers. The latch body of the 83AL is made of particularly lightweight TITALIUM™ special aluminum, making it as strong and durable as ever.

The shackle is made of hardened special steel with NANO PROTECT™ coating. We offer the lock in different colours and in two sizes (45,00 and 50,00 mm).



APPLICATION
SAMPLE



APPLICATION
SAMPLE

Series 6000



TO KNOW

Our window latches are equipped with an intelligent click function that allows a defined engagement without having to keep an eye on the catch. The use of our window latch is extremely easy and by using high quality materials, this is a stable product with a long service life.

The core of our window latch is made of steel, so that even with high loads a good load capacity is achieved. In addition, this product is easy to install and available in many variations.



59.6000.0001
Long version
With screw fixing plate



59.6000.0003
Short version
Without screw fixing plate

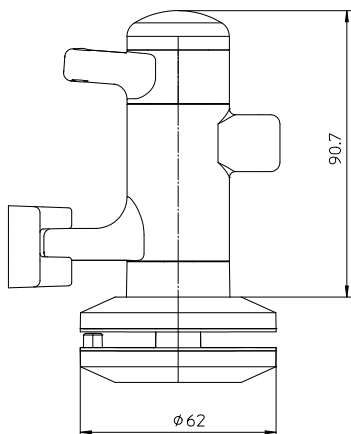


59.6000.0005
Short version
With screw fixing plate

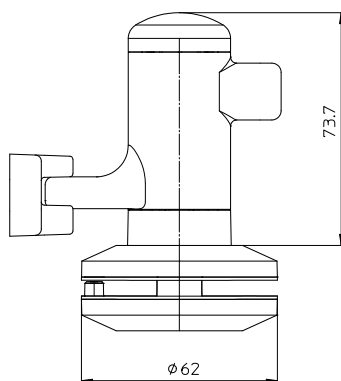


59.6000.0008
Long version
Without screw fixing plate

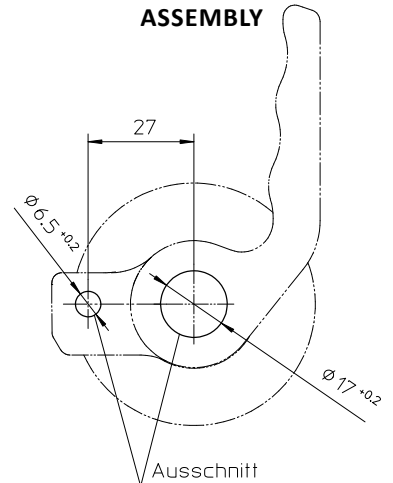
TECHNICAL DRAWING LONG



TECHNICAL DRAWING SHORT

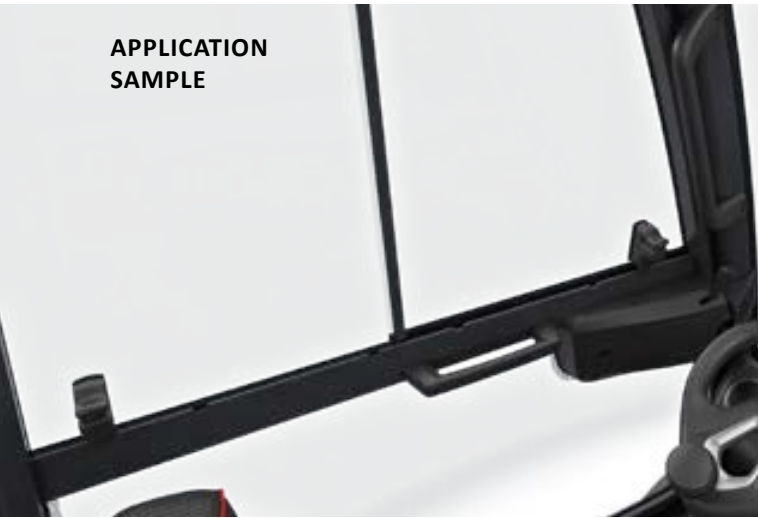


ASSEMBLY



Series 6001

APPLICATION SAMPLE



TO KNOW

Our window latch is a product designed for front and side windows. The locking bolt is retracted by pressing the operating lever. The window latch is a very compact latch that can be optimally used in the windshield area without impairing the view.

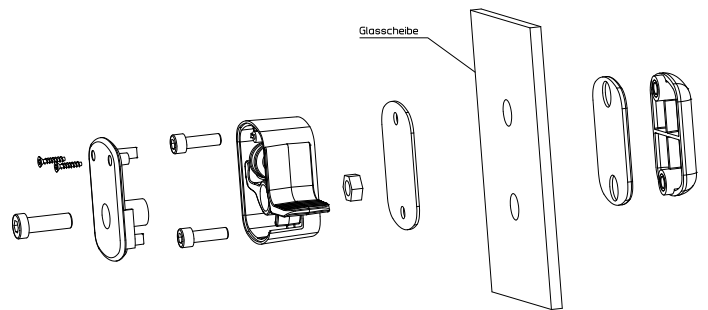
With this type of latch, there is no need for an additional striker plate or even a bolt, as a recess in the window frame is all that is needed to engage the locking bolt.



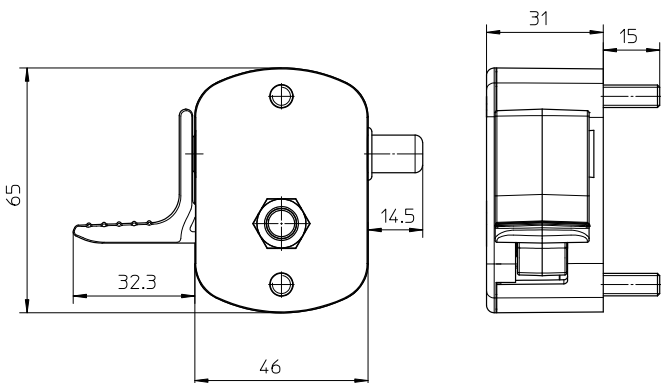
54.6001.0001
Left version



54.6001.0002
Right version

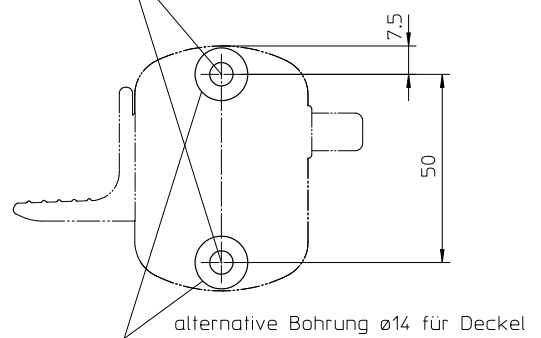


TECHNICAL DRAWING



ASSEMBLY

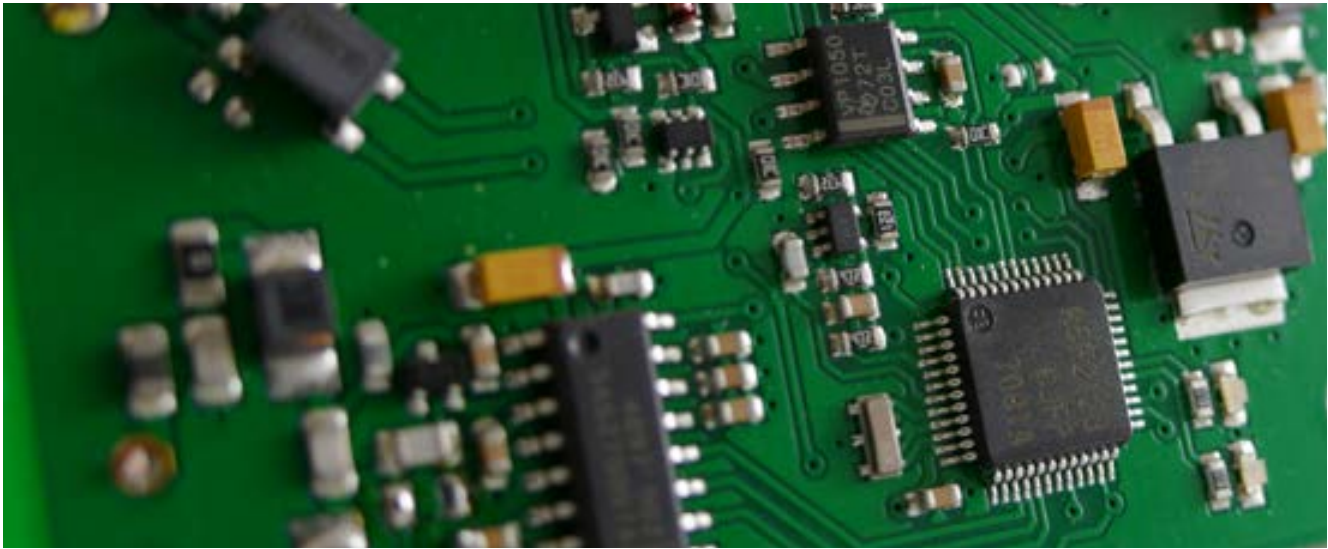
Befestigung mit 2x M6 Schrauben





know how to open the world

Electronics



ELECTRONIC PRODUCTS

More safety and comfort

TO KNOW

The industry is developing rapidly. We do the same and tune the development of our locking systems in detail to the needs of our customers. In addition to security, ease of convenience is playing an increasingly more important role. Accordingly, our electronic locking systems can do more than just lock and unlock a vehicle.

CAN-BUS

By integrating the latest electronic components, it is now possible to control many elements of the machine by remote control key. As our customer, you can choose from different stages of expansion which can be individually adapted to your vehicles with your desired applications.

SAFETY

What you can rely on: DLP remote control key today belong to the safest systems available in the automotive industry. The high level of security is achieved, among other things, by bidirectional AES-128 encryption, which ensures correct encryption identification so that only the machine which should be controlled is controlled. Suitable for your areas of application, our systems also have a modern, modular design that is designed to meet the toughest demands of the off-highway market.

MULTIPLE FUNCTIONS

A good feeling right from the start: we offer you not only a central locking system, but also solutions for an immobilizer up to a keyless go system. The remote control key will be programmed according to your chosen level of expansion.

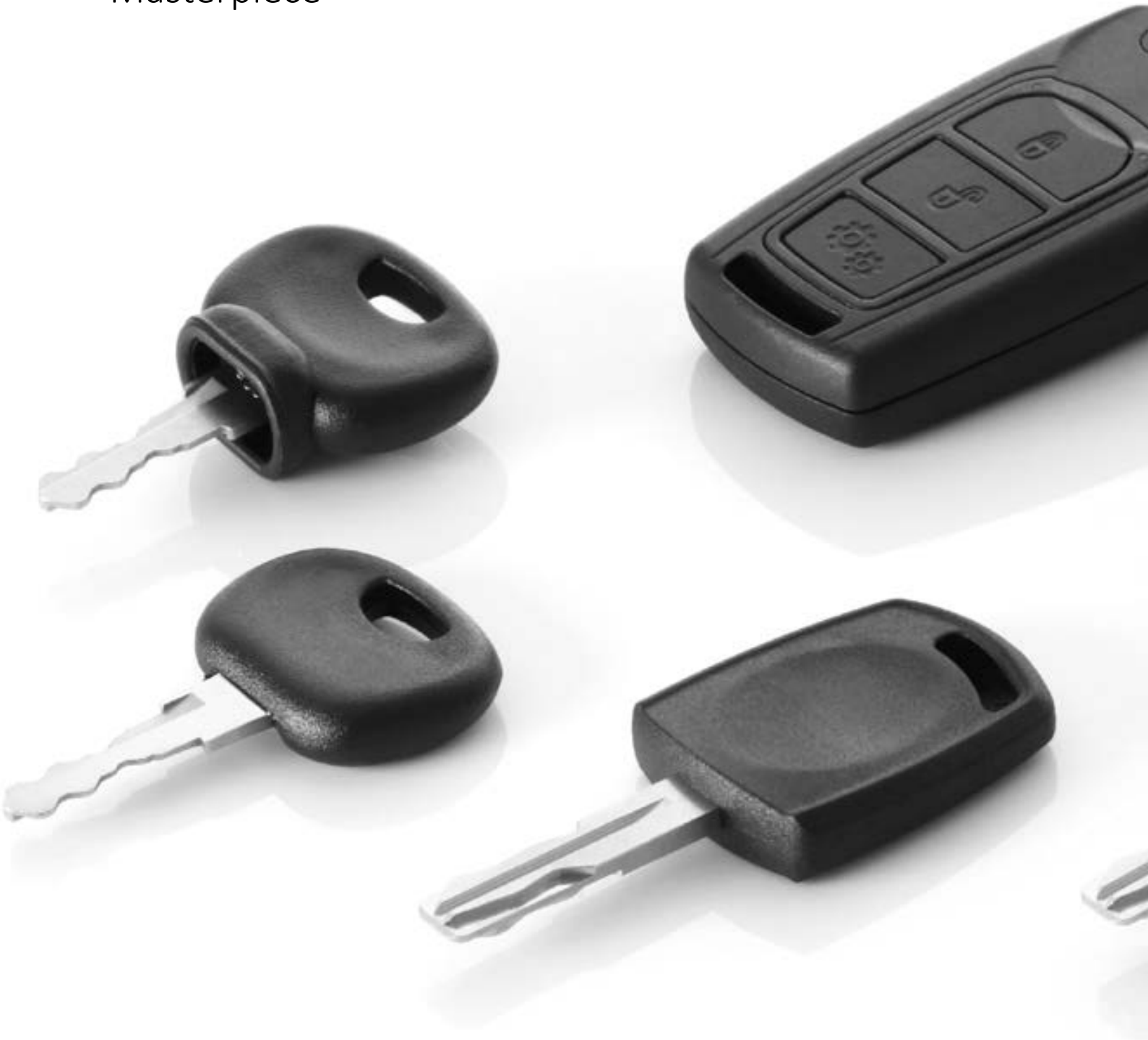
ALWAYS UP TO DATE

With our long-standing partner for OEM electronics solutions we are always up to date. TeraTron has been operating since 1999 and is the specialist in automotive electronics and therefore a particularly valuable business partner by D. La Porte Söhne GmbH.



THE KEY IN CHANGE

From the simple key to the electronic Masterpiece



**DEVELOPMENT BY TECHNOLOGY**

Thanks to automated production technologies, we can offer you a high level of flexibility and security with our modern keys. We also meet current standards and specifications with many products. Through the combination of mechanical and electronic technologies, keys have become more and more intelligent over the years.



The new luxury is Personalization!

- Individual solutions
- More flexibility and security
- Combination of mechanical and electronic technologies



Logo integration

Colour variants of key head according to your choice



Integration of embossed lettering



Colour printed or metal logos



Logo embossed



Metal logo



Customer logo metal

REMOTE CONTROL KEY

At the level of automotive systems



Modular key design

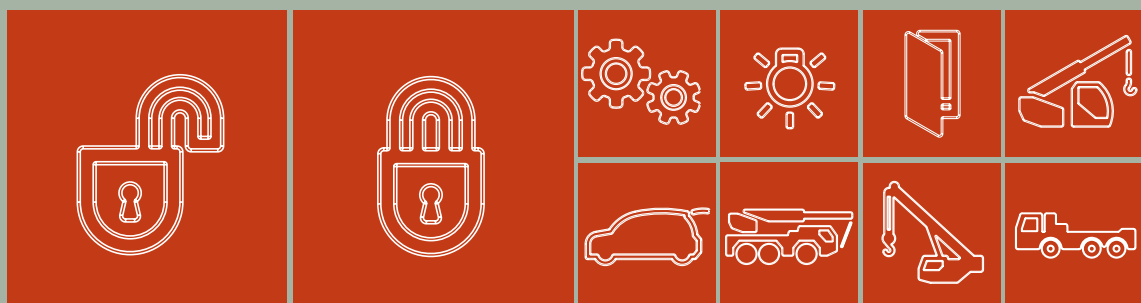
- Modern form
- Additional functions can be integrated into the key
- Automotive standards
- AES encryption
- 128 bit cryptology



CUSTOMIZABLE FUNCTIONS

In addition to standard symbols, our keys can also be delivered with customized key symbols. In combination with our electronic components, you can electrically unlock your door remotely and even open it automatically. Among other things, the activation of an acoustic feedback (horns) and the control of exterior and interior lighting is possible.

In addition, you can receive feedback via two RGB multicolour LEDs (red and green). Through different key assignments are given a variety of combinations of functions. Press the buttons single, double or long- up to 8 functions can be programmed depending on the assignment.



Series 0663



Radio



DLP-Premium key code



DLP-Standard key code



One Key-System



Dust and splash-proof



Immobilizer



Hood installation



Door installation



128 bit encryption



Keyless

TO KNOW

For several years now we have delivered our locking systems with remote control key to various customers within their vehicle development stage. For example, our double rotor latches can be delivered with contact switches, which maintain a locked capability in conjunction with the remote control key.

Furthermore, the system is designed with a mechanical emergency unlocking facility should there be a power failure. Our systems are suitable for central locking and can be supplied in 12 V or 24 V. With full integration of our system into your vehicle electronics (CAN-bus-system) further functions (light signals etc.) can be included.

We are happy to supply you with a full integrated immobilizer. By adding a passive RFID crypt transponder to the key and providing the reader unit as well as the immobilizer, we go far beyond the security possibilities of a purely mechanical locking system, as you can learn on the following pages.

The new generation of remote control keys are delivered with three buttons, which can be assigned multiple functions in addition to locking and unlocking. If required, we can customize the keys for you with customer-specific key symbols and logos.



BASIC
COMFORT
COMFORT PLUS
PREMIUM
PREMIUM PLUS

Series 0633



ELECTRONIC EXPANSION LEVELS

Features	Basic	Comfort	Comfort Plus	Premium	Premium Plus
Immobilizer	✓	✓	✓	✓	✓
Central locking system	-	✓	✓	✓	✓
Lighting	-	-	✓	✓	✓
Open the door/hood	-	-	✓	✓	✓
Close function	-	-	-	✓	✓
Close the door/hood	-	-	-	✓	✓
Keyless	-	-	-	-	✓
Coming/leaving home	-	-	-	-	✓

Information on the **individualization** of our remote control key can be found on **page 90**.



44.0663.0101
Handheld transmitter



44.0663.1501
Remote control key



44.0663.0201
Remote control key



44.0663.0901
Remote control key

BASIC

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COMFORT PLUS

PREMIUM

PREMIUM PLUS

Basic

IMMOBILIZER FUNCTION

Our DLP key already contains the future!

The function of an immobilizer is becoming more and more important and offers a modern theft protection for your vehicles. We offer this function either in combination with our key insert or in use with an ignition starter switch.

MANUAL DOOR UNLOCKING

In this version, access to the cabin is controlled by manual operation of the key. Thanks to the use of our automotive and redesigned cylinders, the security of this contemporary key is also mechanically much higher than with the traditional systems.

KEY WITH RFID CRYPT TRANSPONDER

Via a magnetic alternating field (CAN transponder reader) the contact-free identification and localization of the crypt transponder is made possible.

LEARNING PROCESS WITH MASTERKEY

The vehicle keys are taught matched to the immobilizer system by a programmed master key. The process can take place at your factory or even at your end customers. Feel free to look at possibilities of the learning process on page 169.



More than just standard!

Immobilizer

Manual door unlocking

Starting procedure via immobilizer Key insertion/ ignition starter lock

KEY INSERT

DLP offers you a key insert as a replacement for a conventional ignition starter lock. It can be used e.g. in the dashboard or centre console in combination with a start/stop button (not supplied by DLP) and offers an immobilizer function. The key insert is available with several plug variants (JST, Tyco) and a bezel. The engine is started when the start/stop button is pressed.



IGNITION STARTER SWITCH

As an alternative to the key insert, the immobilizer function can be implemented in combination with the ignition starter switch and a ring antenna. The CAN transponder reader is activated by turning the key in the ignition starter switch and reads the transponder in the key.

Starting the vehicle is only possible when the correct key is used. Our systems are compatible with the ignition starter switches from KAT and COBO.



CAN TRANSPONDER READER

This unit is needed to identify the correct key. The CAN transponder reader is used in the vehicle as a communication interface between the board electronics and the transponder in the key (via a CAN interface).



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PREMIUM PLUS

Comfort



CENTRAL LOCKING SYSTEM

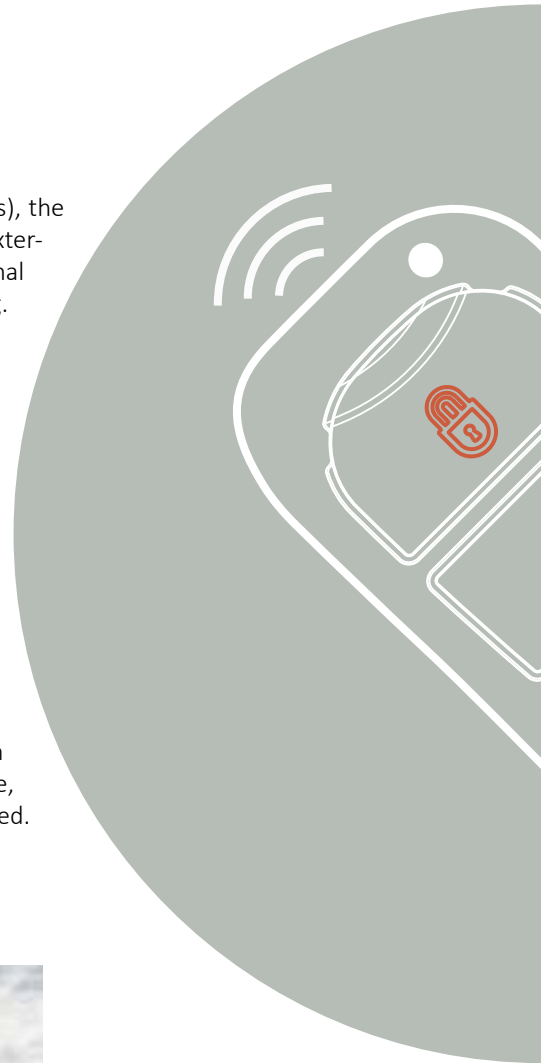
With central locking, several mechanical and electronic elements work together. The basic function is to unlock all desired locks around your vehicle at the same time. With only one remote control key, several doors or flaps can be controlled from a distance.



ELECTRONIC DOOR RELEASE

By means of a radio pulse (pressing the key buttons), the logic box controls the locking or unlocking of the external handles via the CDL motor. Here, the bi-directional radio communication takes place via 128-bit coding. This AES encryption is very secure. The obligatory use of a latch with microswitch ensures a lock-out protection.

For **information** on customizing our remote control key, please refer to **page 90**.



LED FEEDBACK

By installing two LED lights in the remote control key, the driver receives visual feedback on the selected function. When closing the vehicle, they may, for example, light up red if the vehicle could not be locked.



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PREMIUM

PREMIUM PLUS

Do you want some extra comfort?

Immobilizer

Manual door unlocking

Starting procedure via immobilizer Key insertion/ ignition starter lock

Central locking system

Electronic door release

LED feedback

HANDLE WITH IMPULSE

For the use of our remote control key with central locking an external fitting with impulse button (with spring reset) is necessary. Visually, it is indistinguishable from the outside from a classic push button handle.



LOCKING ASSEMBLY

This is an assembly controlled by the CDL motor that performs the actual locking/unlocking of the exterior hardware. A microswitch in the CDL motor provides a feedback about the current status.



LATCH WITH MICROSWITCH

The microswitch reports the status of the latch and thus whether the door is open or closed (ensuring lockout protection).



LOGIC BOX

The desired functions are programmed on our logic box in coordination with our electronics partner TeraTron. The software can be individually adapted to your requirements. In the Comfort version, the logic box controls the CDL motor or the CDL motors (Central Door Locking) of the assembly latch. If required, side flaps or service hatches can also be controlled. The logic box is a fully encapsulated system to meet the toughest requirements (impact, dirt and dust as well as water).



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Comfort Plus



OPEN SUPPORT SYSTEM

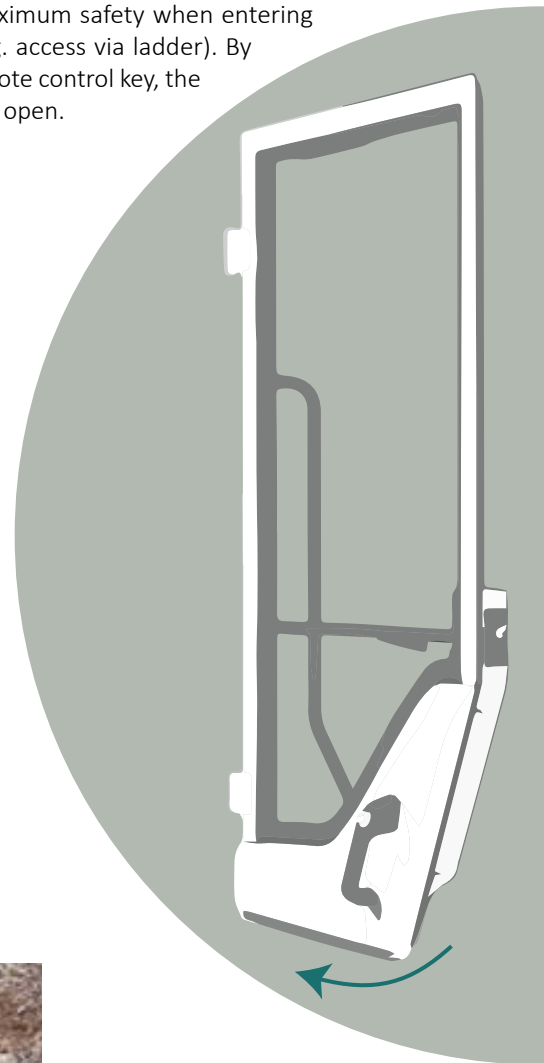
The Open Support System is a convenience function that enables the door to be opened automatically by combining it with a manual gas spring or electric spindle drive (in each case not supplied by DLP).

This guarantees the vehicle user maximum safety when entering cabins that are difficult to reach (e.g. access via ladder). By pressing the lowest button of the remote control key, the latch is unlocked and the door swings open.



OPTIONAL LIGHTING

With us you can get a selection of handles with optional LED lighting. This visual feedback gives the driver the assurance from a distance that the vehicle is indeed locked. The LED illumination is programmable in all RGB colours.



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PLUS

Can it be a little more comfort?

Immobilizer

Manual door unlocking

Starting procedure via immobilizer Key insertion/ ignition starter lock

Central locking system

Electronic door release

LED feedback

Open the door by button push

Lighting on outside fitting



OPEN-SUPPORT-MOTOR

The logic box receives the signals from the remote control key. The open-support motor pulls directly on the latch via a mechanical connection and executes the opening mechanism. This enables contactless entry. This increases safety and the prevention of accidents significantly (e.g.: with large wheel loaders).

ADDITIONAL COMPONENTS

If you want your door or flap to open without contact, you will also need a gas pressure spring or a spindle drive. These products must be adapted to the ambient conditions with the respective manufacturer. Often they are already included in the existing cabins or flaps and only need to be used or set differently.

EXTERNAL DOOR SENSOR

If the locking system is in the unlocked state, the vehicle door can be opened electrically by operating the external door sensor without having to use the remote control key.

It can be operated completely independently because it has its own power supply. This is especially useful for particularly large vehicles with steps. Thanks to the extremely high level of dust and water protection (IP67K), the door sensor can be positioned anywhere on the vehicle.



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PREMIUM PLUS

Premium

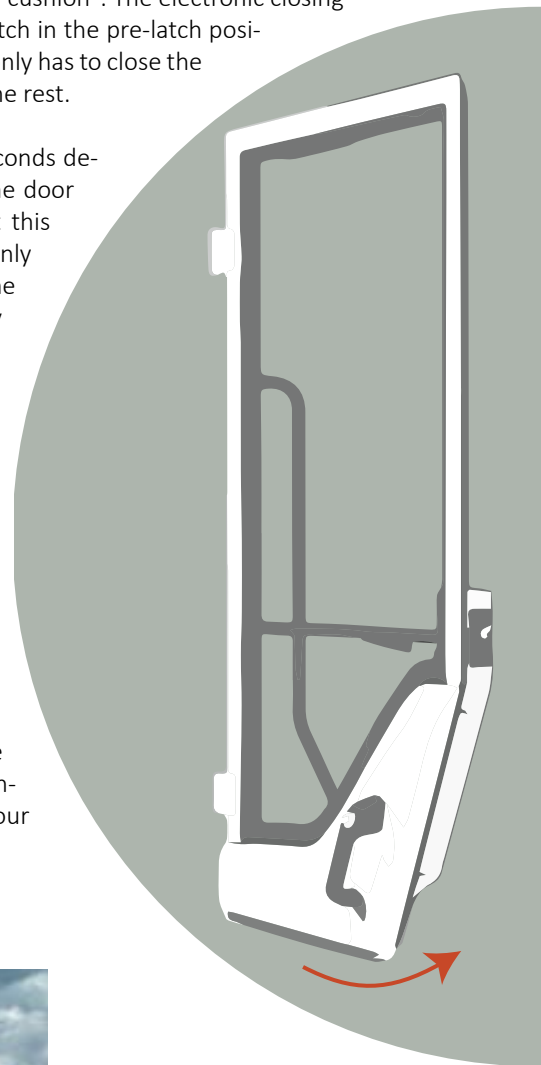
ELECTRONIC LATCH WITH PULL CLOSE FUNCTION

The electronic latch with closing function is a comfort enhancement for your vehicle. Particularly in the case of cab concepts that require an enormous overall air tightness, closing a door manually can be extremely difficult and force intensive due to the existing "air cushion". The electronic closing function is started by engaging the latch in the pre-latch position which means that the customer only has to close the door slightly and the electronics do the rest.

The closing process takes about 5 seconds depending on the setting. Of course, the door can still be closed manually without this function. However, this option not only save your power when closing the door, but it is also a high-end luxury function and seen in the premium vehicles of the automotive industry.

ELECTRONIC CLOSING OF THE DOOR

Our premium variant is the absolute highlight for your vehicle. We offer you electronic closing at the push of a button. The necessary impulse can be given by our radio key or the external door button. An electronic spindle drive, which you can purchase from the well-known manufacturers, enables this function in combination with our products.



BASIC

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PREMIUM

PREMIUM PLUS

Premium features that inspire.

- Immobilizer
- Manual door unlocking
- Starting procedure via immobilizer Key insertion/ ignition starter lock
- Central locking system
- Electronic door release
- LED feedback
- Open the door by button push
- Lighting on outside fitting
- Electronic latch with pull function
- Electronic door closing



5500 LATCH

Our electronic latch is a particularly compact concept with integrated motor and gearbox. It offers more security and convenience through the interrogation of the microswitches.



STRIKER

The specially developed striker is an indispensable additional part for our electronic latch.



LOGIC BOX

One logic box is required per lock to control the electronic functions.



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 COMFORT PLUS
 PREMIUM
 PREMIUM PLUS

Premium Plus



KEYLESS

Keyless functions are understood to mean locking or unlocking the door when approaching or leaving the vehicle. With the remote control key located in the trouser pocket for example, with the need to be actively operated. Even the starting of the vehicle can be done passively by the use of our key insert in connection with a start/stop button.

Depending on the application and your individual wishes, we offer practical options for integrating keyless functions into your vehicles.



With the **COMING/LEAVING HOME** feature, you can define what should be controlled in your vehicle when locking and unlocking. A practical example of this is light activation on the vehicle for a certain period of time or the sounding of the horn.

KEYLESS-ENTRY is another very convenient function that can enable automatic unlocking when the user approaches the machine with the vehicle key.



KEYLESS-START enables keyless starting of the vehicle engine. To begin the starting process, all you have to do is press the start/stop button (and usually apply the brake at the same time for safety).



KEYLESS-GO is the combination of keyless entry and keyless start, which offers you absolute convenience. The vehicle key, depending on programming (automatic locking when removed), only needs to be carried by you and no longer operated by hand.



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The ultimate- our top functions

Immobilizer	Manual door unlocking	Starting procedure via immobilizer Key insertion/ ignition starter lock
Central locking system	Electronic door release	LED feedback
	Open the door by button push	Lighting on outside fitting
	Electronic latch with pull function	Electronic door closing
		Keyless

If the driver does not think about the key, we have reached our goal. Access to the vehicle is convenient only if the key does not have to be actively operated.

START/STOP BUTTON

The start/stop button is necessary for the keyless start function or keyless go function (keyless start + keyless entry).

Since every vehicle interior is different, there is no standard start/stop button. Each product is customized and is usually chosen by the customers themselves.



INDOOR AND OUTDOOR ANTENNAS

Depending on the application, indoor and outdoor antennas are required. The number of antennas depends on your requirements and the specific vehicle conditions.



SENSORS

We currently offer an external fitting with integrated sensor technology. This enables the recognizing of touches and is therefore essential for the keyless entry function.

When the door handle is touched, the latch is unlocked and access to the vehicle is granted. The application is particularly power-saving- the components only respond when touched and do not permanently search for communication partners.



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Symbol directory

	Anti-rotation protection		Glass installation		Microswitch
	Can-Bus		Hood installation		Non-lockable
	Child protection		Immobilizer		One Key System
	Clipsable		Indirect release		Remote control key
	Colourfast		Inner handle		Reversible key code
	Customized		Inner release		Rotors with Antifricor coating
	Customized key code		Keyless go		Safety device
	Direct release		Keyless		Screw fixing
	DLP-Premium key code		Latch cover		S-Profile key code
	DLP-Standard key code		Lockable		Striker bolts
	Door installation		Main lock		Tube
	Dust and splash-proof		Main and secondary lock		U-bolt
	Electronic		Mechanical		U-bolt
	Emergency unlocking		Metal installation		128 bit encryption

DLPeDia- electronics



PAIRING PROCESSES

Decide for yourself whether you would like to have our electronic products, such as the remote control key, taught or whether this process should take place on during the production process or at the end customer. There are different possibilities to carry out the pairing process between keys and logic box. Depending on your circumstances and your wishes (security aspect and required flexibility), different components are needed. In the following, we will show you two proven processes.

PAIRING REMOTE CONTROL KEYS

This process is to be used for locking systems where each vehicle contains its own 128-bit secret key. The central locking components (CDL logic box + remote control key) are paired with a vehicle at the end of the production line. DLP offers special barcode identification tags with a 128 BIT secret key for this process. These are able to cover the radio frequencies used worldwide.

You need a wide barcode reader (90.00 mm) for the pairing process.

Two radio USB sticks are required, which are connected to the PC at the same time. This is done independently of the radio frequency.

For the pairing process, we provide special diagnostic software for the PC which transfers the respective secret key code to the remote control key and save it on the key.

As soon as the pairing software is installed, you can start programming the remote control key (max. 20 pcs./vehicle).



Identification tag



USB-stick

PAIRING OF THE IMMOBILIZER

Our master key is used to learn or unlearn the immobilizer on the remote control key or the CDL electronics. The master key can be used for several vehicles and any number of keys. The master key contains a numerical code (secret key) which is individually coded.

This system offers you flexibility and security. Even at the end customer, lost or stolen keys can be deleted of from the vehicle electronics and new keys can be programmed. Your customers does not need to contact a service employee, as he can program a new key on his own.



Master key



Diagnostic software

SERVICE

Due to our long-term electronics partner we are able to implement a wide range of possibilities in the electronic sector.

MOBILE SECURITY

We offer you mobile access to important vehicle functions. You can lock and unlock the vehicle with your own online service or conveniently check the vehicle status via your PC.

UP-TO DATE

We can implement an update capability so that your software is always up to date. Simple firmware updates via radio enable this function.

DLPedia

ACTUATOR

We refer to the 12 or 24 volt motors as actuators.

ANTIFRICOR

Antifricor® is a proven combination system for optimizing friction, wear and lubrication of components moving against each other. It has a positive effect on the service life of the friction parts. Our latches with Antifricor-coated rotors are low-maintenance.

ANTI-ROTATION PROTECTION

This feature prevents our latches from turning when being fixed into position.

BOLT ADJUSTMENT

When installing our cabin latches in the door, it is very important to pay attention to the correct position of the striker bolt in the door frame.

CAN BUS SYSTEM (CONTROLLER AREA NETWORK)

Bus systems are line systems for data transmission between various components. Electronic systems have to communicate with each other and are networked via control units, e.g. CAN bus systems, in which all components connected with each other.

CDL- CENTRAL DOOR LOCKING SYSTEM

The central locking system allows simultaneous locking and unlocking of all doors and usually also of the flaps (tailgate, side flap) of a vehicle by operating one of the latches or by remote control key.

CLOSING

Closing means the movement of the open door into closed position until the latch is locked.

CUSTOMIZED

The symbol "King" means that the product was designed individually for a customer and is not free for sale.

CYLINDER

The cylinder is part of an external fitting into which the key is inserted for locking or unlocking.

DEFLECTION

The deflection changes the actuating direction of the respective external fitting, e.g. by pressing by using the push button of the external fitting, the deflection pulls on the latch.

DIRECT RELEASE

Our locks can be supplied with direct actuation. This means that the outside fitting is placed directly above the latch and when actuated, presses directly on the latches release lever.

DLP KEY CODE

Our DLP keys are milled from four sides.

DLP Cylinder System

Our new key generation is milled with an outer track as known in the automotive industry. With this we can offer you a wide range of key codes.

DURABILITY

We guarantee the longevity of our latches by performing cycle tests.

DUST PROTECTION

Our fittings are tested against dust penetration according to known standards.

EMERGENCY UNLOCKING

Emergency unlocking is the mechanical unlocking with the mechanical key in the event of a power failure.

EXTERIOR FITTINGS

We define all handles that are mounted outside the vehicle as exterior fittings.

FREEWHEEL

Freewheeling means that you can operate a handle in the locked state, but the door remains closed.

GASKET

Rubber parts used as protection between the handle and the glass pane or door are called gaskets.

INNER RELEASE

On latches with direct release, the driver can unlock the latch directly from the inside by pulling the release lever of the latch.

IP PROTECTION CLASS

The protection class of mechanical casings and electrical enclosures are defined by the IP symbol and a two-digit code number. The first digit indicates the protection against contact or solid particles (dust), the second digit the protection against liquid ingress.

KEYLESS SYSTEM

Keyless is a comfort locking system for your vehicle where the key no longer has to be actively operated, e.g. unlocking the door and starting the engine.

LOGICBOX

This component is the control centre for all electronic functions.

LOCKING

During the locking process, the rotors of the latch are blocked to prevent the door from opening.

MAIN LOCK

When locked, the latch is located in the main detent.

MICROSWITCH

A microswitch is an electrical switch that is used, for example, to check the status of a latch (locked or unlocked) and transmit it to the logic box.

MOUNTING PLATE

A mounting plate is used to screw our latches and exterior fittings to a door.

OPEN

We are talking about opening the door after unlocking the latch.

ONE KEY SYSTEM

Our goal is to be able to operate all lockable components around your vehicle with a single key.

PAWL

A pawl is a form-fitting counterpart to the rotor, which prevents the rotor from turning back. Releasing the pawl allows the rotor of the latch to move again.

REMOTE CONTROL KEY

A key with various functions which can be controlled from a distance via radio.

INDIRECT RELEASE

We speak of indirect release when the outside fitting is positioned so far from the latch that it must be released via a rod, cable or Bowden cable.

REVERSIBLE KEY

This is a well-known key that has been proven in the construction and agricultural machinery industry for decades. It is a reversible key that offers a limited number of locking variations.

RFIG

The abbreviation stands for radio frequency identification. By integrating an RFID crypt transponder in our key, the transponder reader recognizes whether the key is authorized.

ROTOR

A latch is equipped at least one rotor and pawl. The rotors hold the locking bolt in the closed state.

SET

When we speak of a set, we mean the combination of several individual products in one set article number.

SECRET KEY

This is a secret key code that can be used to program electronic products. There is usually an individual secret key for each vehicle.

SENSOR TECHNOLOGY

Electronic components with touch detection have a sensor that wakes up the electronic to perform the authorization of a key. This reduces power consumption.

SECONDARY LOCK

According to the ECE-R11 standard, the additional use of a pre-lock to the main lock in the latch is necessary for the main door latches.

SAFETY DEVICE

The door can be locked from the inside using the safety device on the latch to prevent unauthorized access from the outside.

SPACER

For mounting our handles in glass, we have developed spacer bushes which are placed in the cut-out of the rubber gasket during installation. These minimize the load on the glass and protect it from damage.

SPASH WATER PROOF

Our fittings are tested against water penetration according to known standards.

STRIKER BOLTS

Our accessories include the striker bolts which are installed in the door frame. The rotors of the latch surround the striker bolt and hold the latch in position.

UNLOCKING

During the unlocking process, the rotors of the latch unblock the striker. The opening of the door is possible afterwards.



DLP facts and figures



300 EMPLOYEES

At our site in Wuppertal, we currently employ around 300 people. Of these, 76% are permanent employees.



OUR CUSTOMERS

DLP operates worldwide and our locking systems are well known. We supply most major manufacturers.



EXPORT

We export 75% of our goods. Our products are on the roads, on the tracks and also in the air.



€ 37,6 MILLION IN SALES

Despite the global corona pandemic, we succeeded in making 2021 our most successful year in terms of sales.



OVER 9,100 SHIPMENTS ANNUALLY

We ship over 13.000 packages containing our products annually. That's almost 36 shipments with an average of 51 packages per day.



LOCKING SYSTEMS PER YEAR

We produce 2 million locking systems every year. That's over 7.000 units every day.



1860 FOUNDATION

Our company was founded in 1860 by Dietrich La Porte in Voerde Germany, and soon specialized in the production of locks and HANDLES for the furniture and construction industry.



COMPANY HEADQUARTERS

DLP's current headquarters is in Wuppertal, Germany, and we will be expanding in 2022 with the addition of an adjacent building.



ENVIRONMENTAL PROTECTION

We care about our environment and do our best to protect it and continuously improve our processes for its benefit.



DIN ISO 9001

DLP has been certified according to DIN ISO 9001 since 1999. This ISO 9001 certificate ensures compliance with the highest quality standards for all processes in production, development, purchasing, sales and distribution and distribution.



ÖKOPROFIT

In December 2008 we could make the first step on the way to DIN EN ISO 14001 by achieving the Ökoprofit award. This award was given to us because we contribute to the sustainable preservation of the environment through several measures. Each year, DLP saves 200,000 kWh of electricity and 51 tons of carbon monoxide through these measures. Therefore, we make an important contribution to preserve the environment!



CODE OF CONDUCT

For many years, we have been living in a constantly changing society. Our corporate guidelines guarantee all our employees, suppliers and customers that we adhere to the guidelines of the "Global Compact" and that equal opportunities, fair dealings, anti-corruption and the protection of our environment are our highest priorities!



DID YOU ALREADY KNOW?

DLP **promotes the health** of its employees by using job bikes.

We use **sheep** instead of lawnmowers to maintain the surrounding *green spaces*.

Many employees remain loyal to the company throughout their lives - **from training to retirement**.

We are one of the pioneers in heating with **wood chips**.

Did you know that we were founded in **1860** and at the beginning of our own production we manufactured *furniture latches*?

Special Projects

TO KNOW

Our products can be used in a variety of ways. There are always exciting projects where DLP is chosen as the specialist for locking components.

Our products are not only suitable for construction and agricultural machinery, but can be used in very everyday areas.

Babboe cargo bike

OUR HANDLE OPENS THE HOOD
OF THE CARGO BOX

In 2005, Babboe BV was founded in the Netherlands by a group of parents who were looking for a good quality and affordable cargo bike. Together with an engineer, they developed the first Babboe cargo bike: Babboe Big, which was launched two years later.



Knot cityroller

THE DLP SYSTEM HOLDS THE SCOOTERS
IN THE DOCKING STATION

Since 2016 we design, produce and install docking stations for scooter services. Our mission is to provide sustainable and accessible sharing and charging infrastructure for micromobility services. You don't have to choose between free-floating and docking based - combine advantages of both.



Microlino

OUR LOCKING MECHANISM
OPENS THE TAILGATE

On average, a car is occupied by only 1.2 people and driven just 35km per day. This means that normal cars are too big for 95% of their usage. Sounds stupid, right? The Microlino is designed to be ideal for daily use, whether it is commuting to work, visiting friends or going shopping.







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know how to open the world