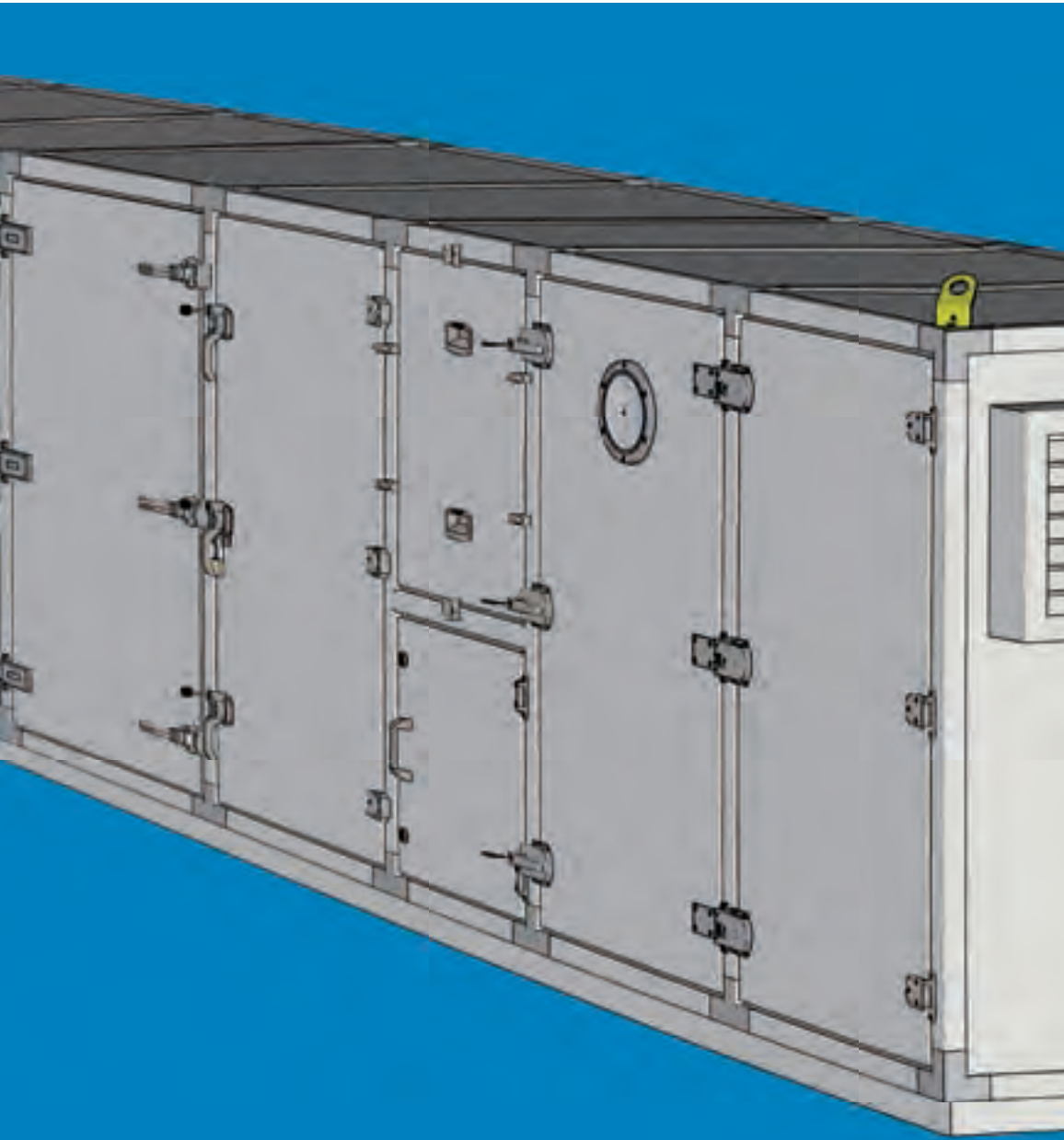


HVAC Equipment and Installations: Components for Enclosures



Locks / Latches

Hinges

Gasketing

Accessories



Heating units
and Chillers



Air Handling
Units



Airconditioning,
Dehumidifiers



Certified
Product Quality

Downloads of Solid Model Files



To assist design engineers EMKA provides a simple, and efficient service including free samples where possible.

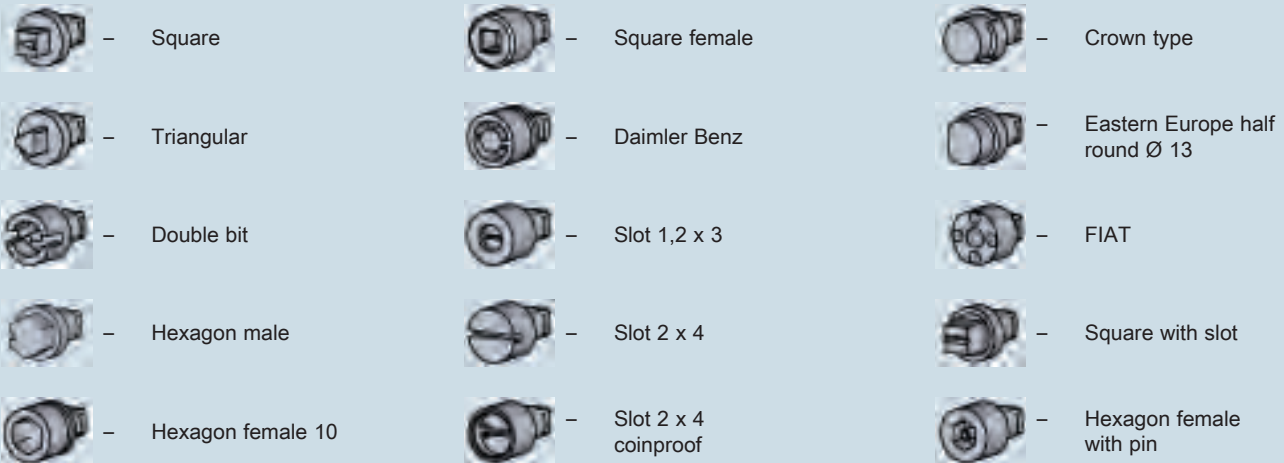
From the home page of any of the EMKA group's web sites solid models of EMKA parts can be easily downloaded and inserted into designs. The models are available in either STEP or IGES formats. Models can be searched either by part number or product group.

EMKA's models are generated in Pro/Engineer and so can easily be inserted into any CAD software.

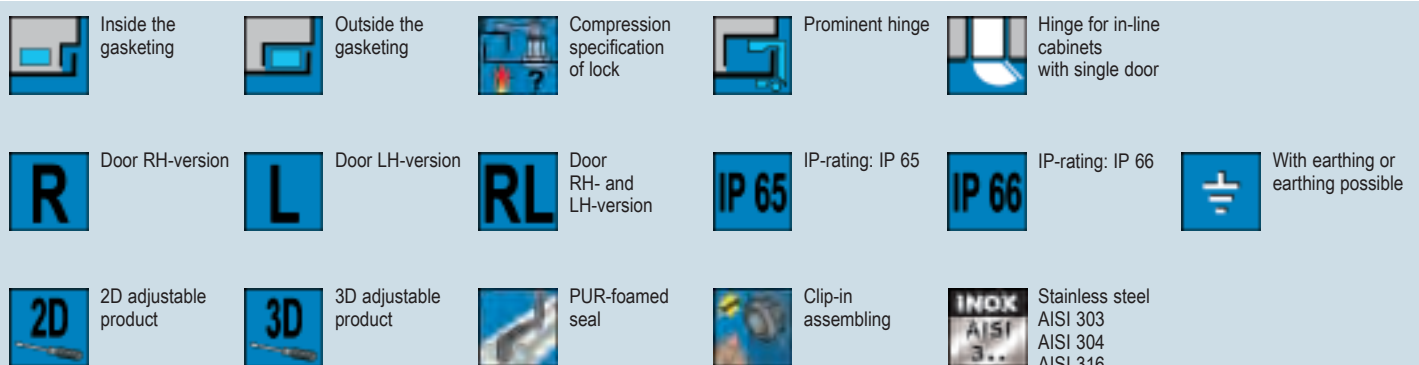
STEP

IGES

Summary of inserts



Explanation of pictograms



Assured quality provided from one source

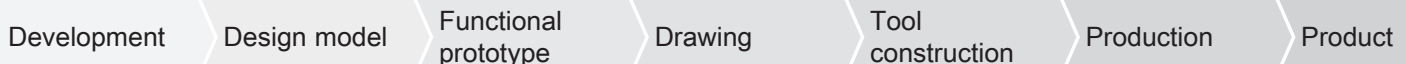


EMKA manufacturers a continually expanding range of products for the HVAC industry. Much of the range is modular thus offering the designer and end user many options. We have products that meet the relevant European standards: DIN EN 1886 and VDI 6022.

The quality of tools, machines and processes is documented in great detail. X-ray technology, profile projectors, spectrum analyzers, tensile and pressure testers as well as the most modern measuring instruments are used in our quality management. We are certified by Germanischer Lloyd for both quality and environmental management to ISO 9001 and 14001.

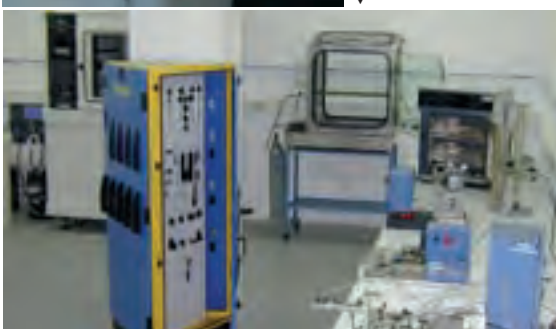
See general catalogue for parts without standard page numbers (e.g. 1B-105).

12 - 43	Locks / Latches
44 - 51	Hinges
52 - 53	Gasketing
54 - 58	Accessories



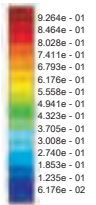
X-ray equipment

200m² (2,000 sq ft.) laboratory for life cycle and endurance tests, IP-rating tests



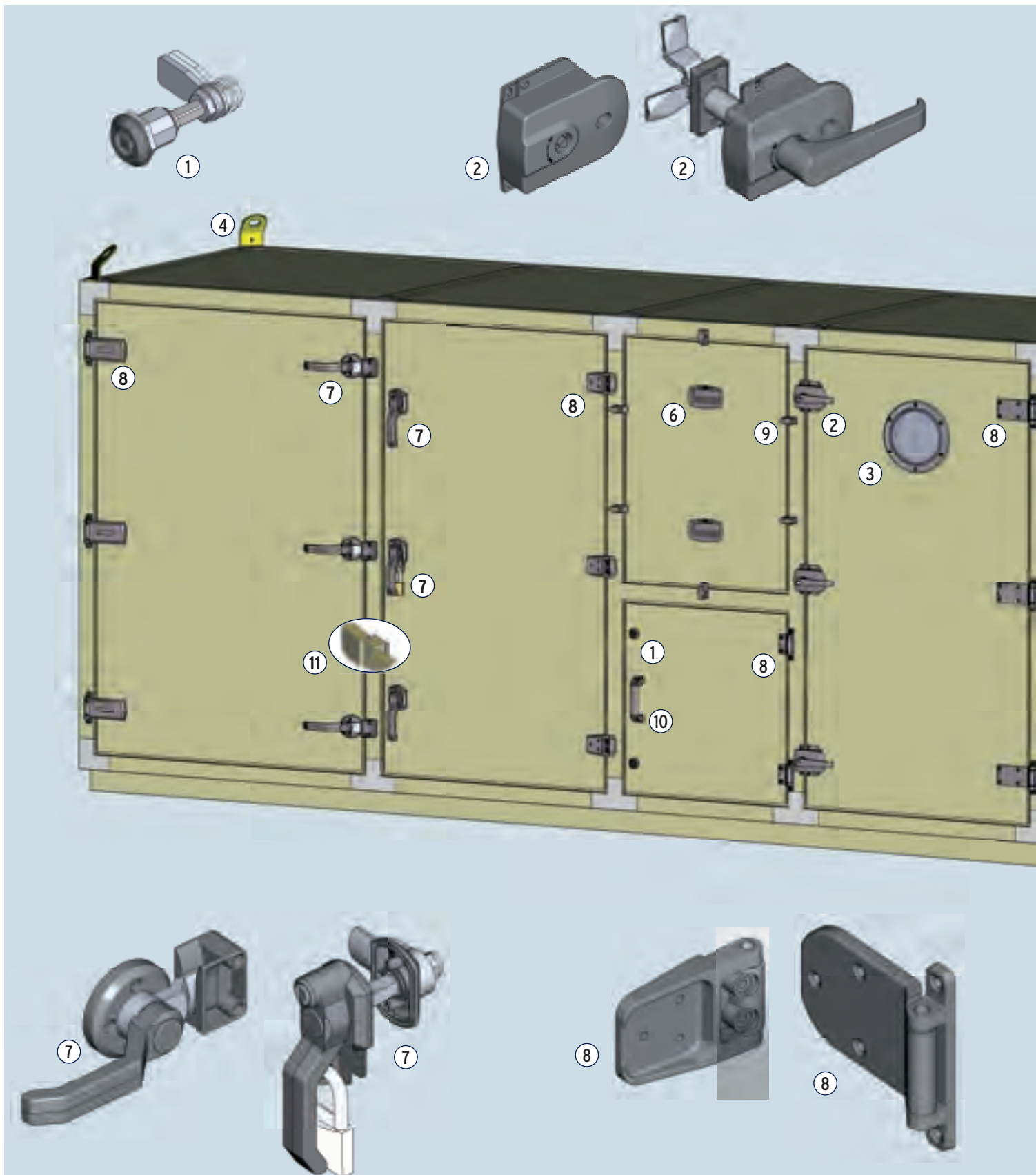
The latest tools help to develop and to produce a new product on it's way from the idea to the complete product. Customised products are developed through our own engineering departments. High-performance tools support the whole process:

- 3D onscreen animation including collision control via simulated motion-sequences
- Static FEA analysis
- Design studies, rapid-prototyping models
- Functional prototypes in low volume
- Overlapping data exchange with CAD, CAE, Moldflow, CAM and CAQ
- Verification by test samples, long term and accelerated tests in our own laboratories

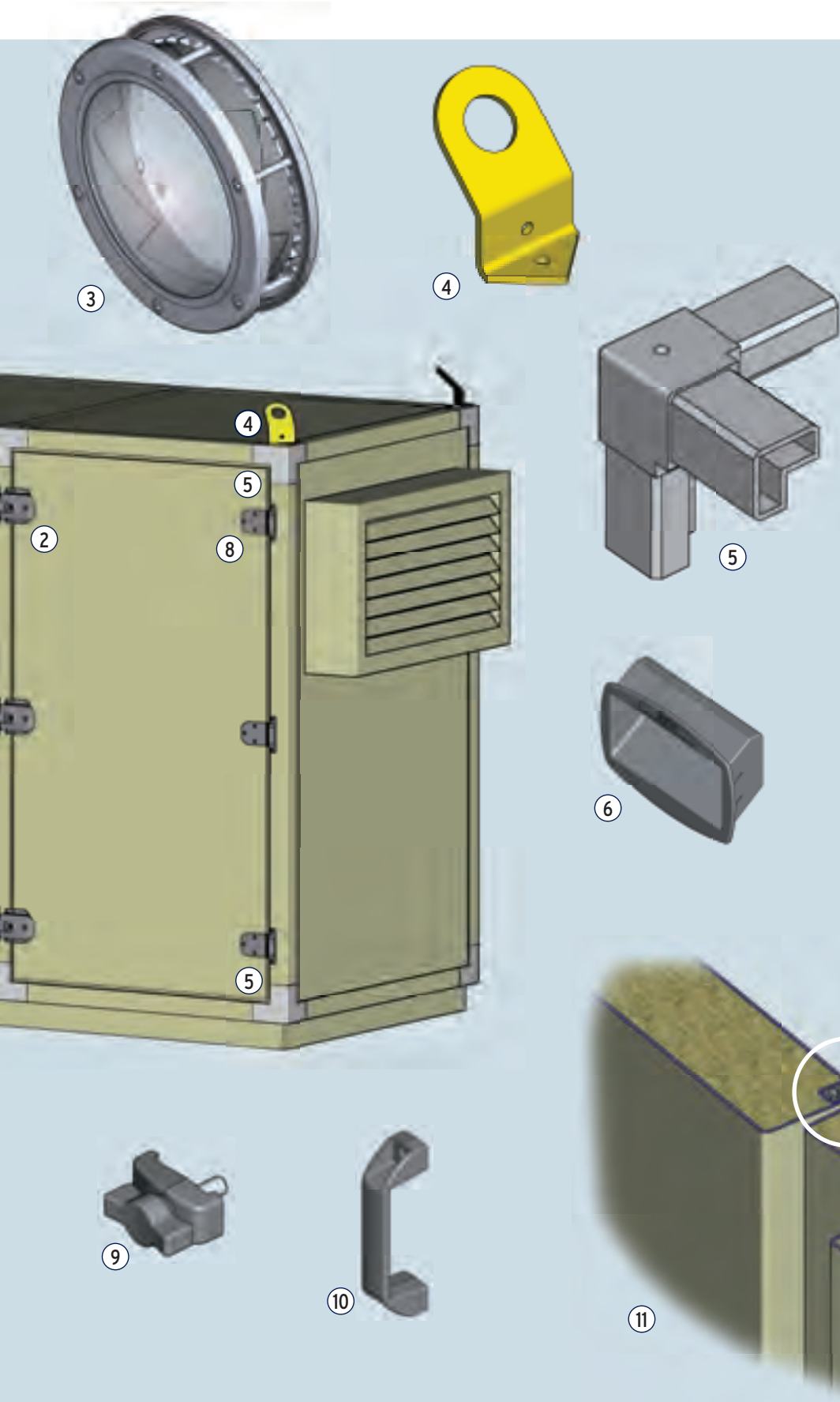


Using FEA to help optimize product design

Some Examples of EMKA Product Application



ns for HVAC Installations:



Index:

① Quarter turn, Compression latch	16 - 28
② Surface mounted door lock	12 - 15
③ Viewing window	8
④ Crane bracket, transport lug	9
⑤ Corner piece	7
⑥ Clip-in pull handle	42, 43 - 54
⑦ Heavy duty latch	30 - 39
⑧ Hinge	43 - 51
⑨ Bridge clamp system	41
⑩ Handle	55
⑪ Gasketing according to VDI 6022	52, 53

Related products - not illustrated:

- Customised solutions 10 - 11
- Adapter system for isolation doors 29
- Compression latch with handle 40
- Cam lock 42
- Door stop 56
- Key 57

Manufacturing technology provided from one source



▲ Tool and mould making

▼ Die casting technology

▶ Aluminium die casting and forging



▲ Powder coating line



▲ more than 40 bending, punching, and stamping machines

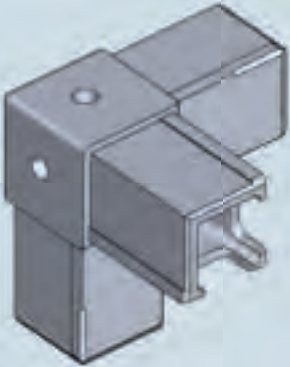


▲ Plastics technology: 50 injection moulding machines

The EMKA Group: manufacturing expertise

- Development, engineering
- Tool and mould making
- Processing of all Thermoplastics
- Cutting technology
- Bending, punching, and stamping machines
- Die casting technology
- Seal technology (foam-in-place)
- Surface coating
- Window manufacturing
- Laboratories
- Assembly

Corner pieces, design elements



Design example
Zinc casting

EMKA designs and produces corner pieces, selecting the optimum material.

Application field EMKA develops and produces, e.g. corner pieces made of:

- Die cast zinc alloy
- Die cast aluminum
- Fiber reinforced polymers

Material selection includes consideration of:

- Strength, rigidity
- Weight
- Prevention of thermal bridges
- Surface

Zinc die casting:

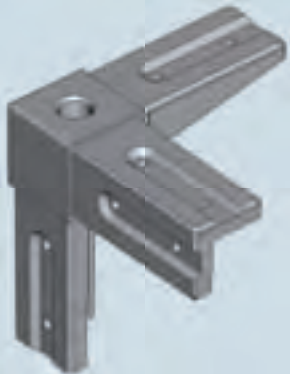
- Die casting machines 200 - 3150 kn
- Parts up to 2,5 kg (5.5 lbs.)
- Automated mechanical secondary operations
- Surface coating

Aluminium processing:

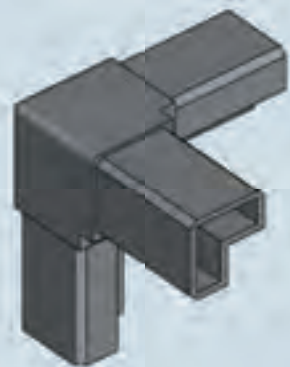
- 200 - 1,100 tons die casting machines
- Shot weight up to 12 kg (27 lbs.)
- Many secondary inhouse operations
- Surface treatment

Plastic injection molding:

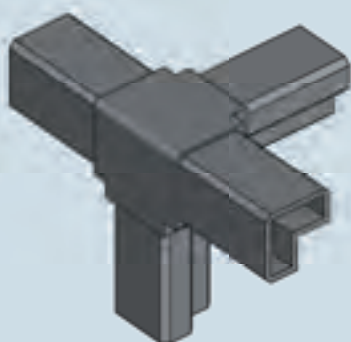
- Machines form 30 to 250 tons
- Shot weight up to 0,7 kg (1.5 lbs.)
- Molding most fiber reinforced polymers



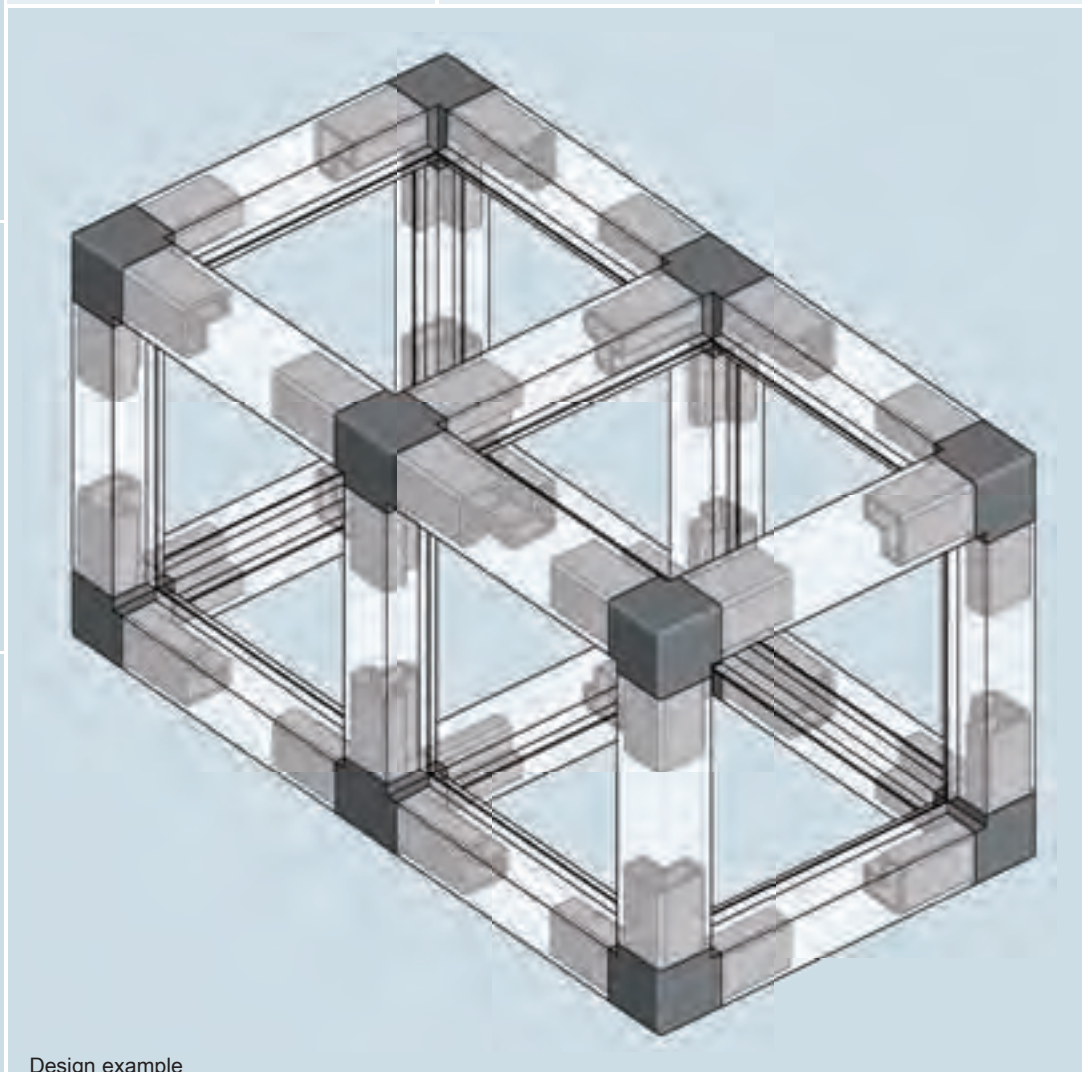
Design example
Aluminium die cast



Design example
Plastic molding



Geometry example



Design example

Viewing window, for insulated doors

Description:

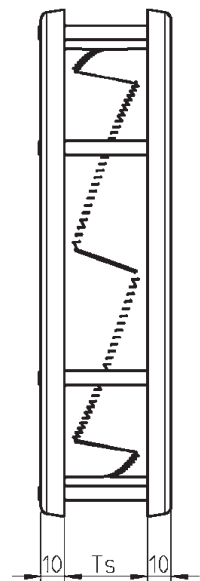
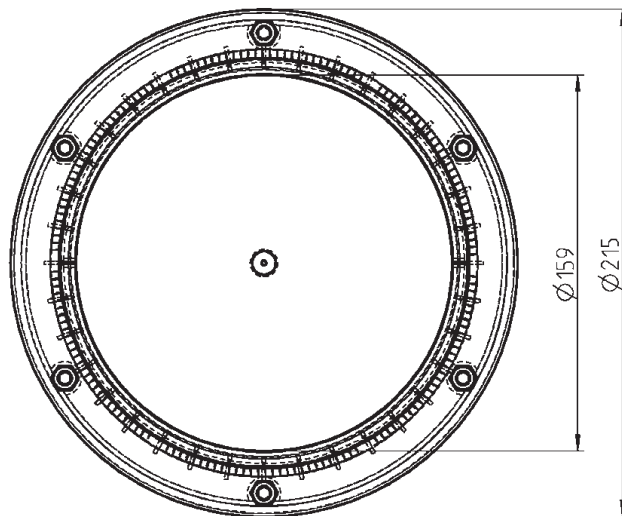
Viewing window with clear polycarbonate glass.
Annular spacer polyamide black, fixing material St galvanized, foamed seal.
The viewing window is adjustable from 35 to 55 mm door thickness by rotating the spacer ring.
Excellent sealing by foamed in place gaskets - no loose O-rings or Silicone required.



IP 65



Design example

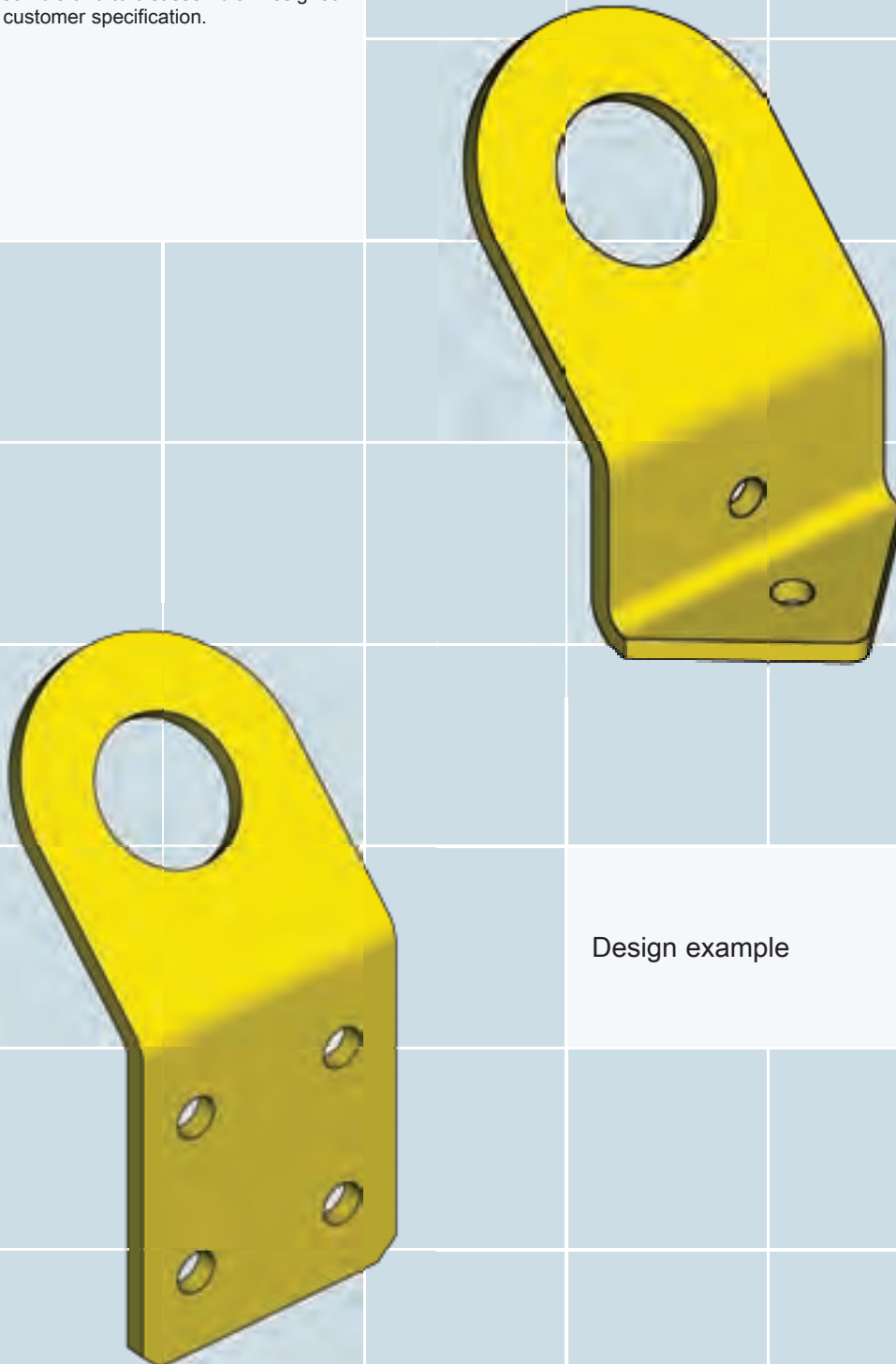


Ts = Door gauge

Crane bracket, transport lug

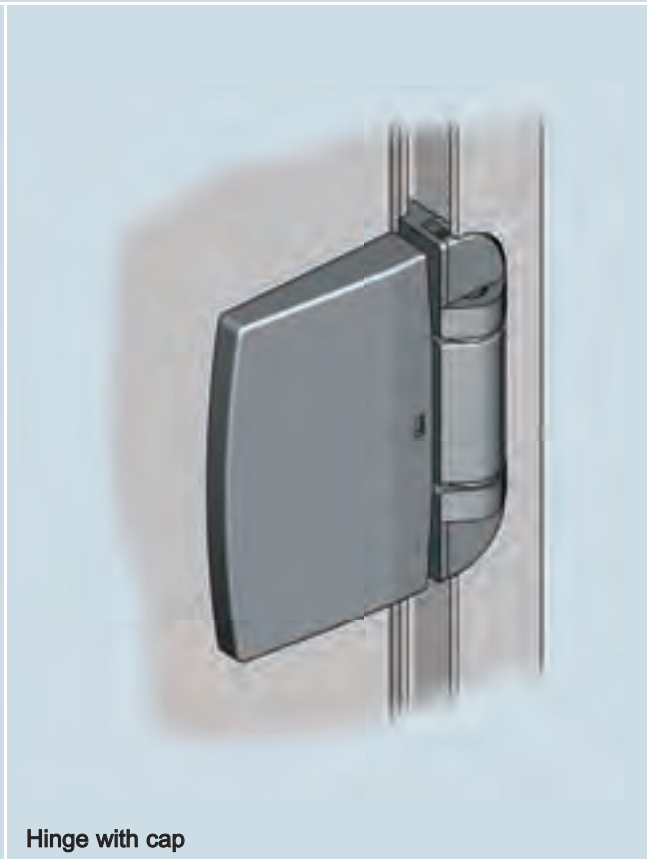
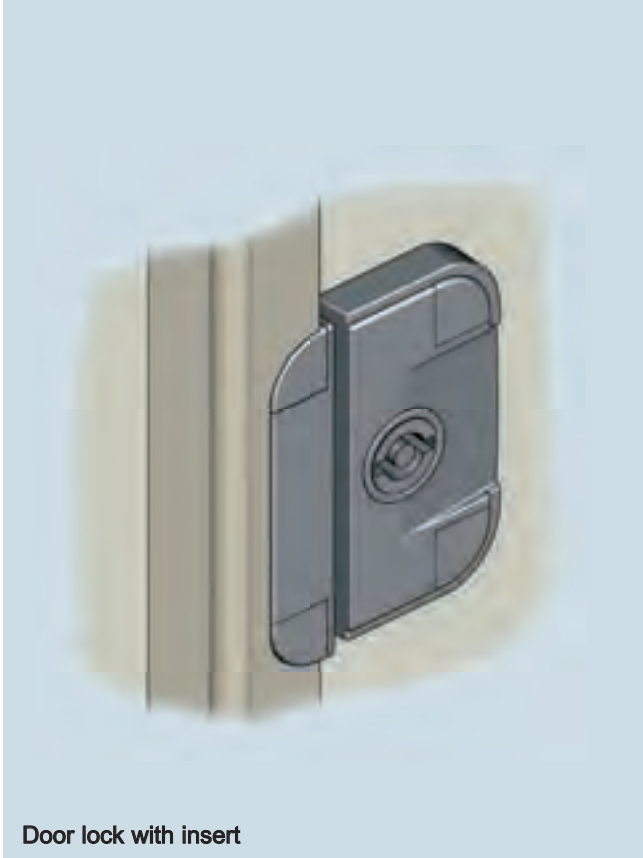
Description:

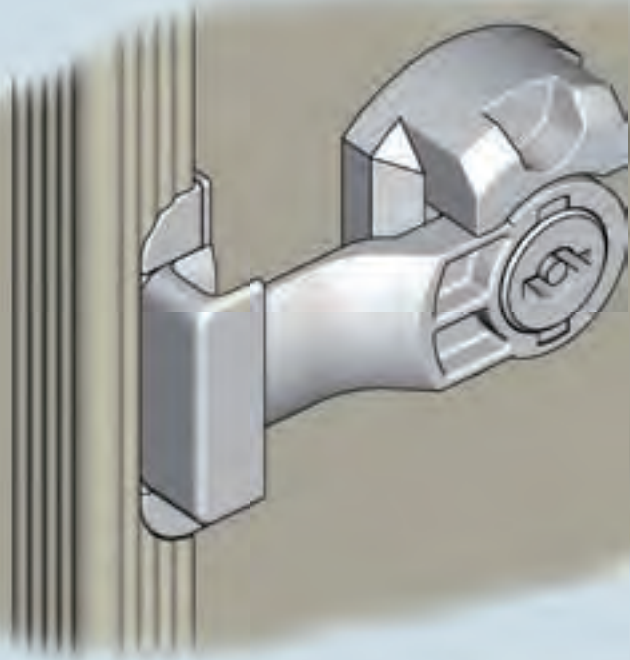
Crane brackets or transport lugs for safe transport of HVAC units.
Material: steel or stainless steel. Easy to assemble and to disassemble. Designed to customer specification.



Design example

Custom solutions

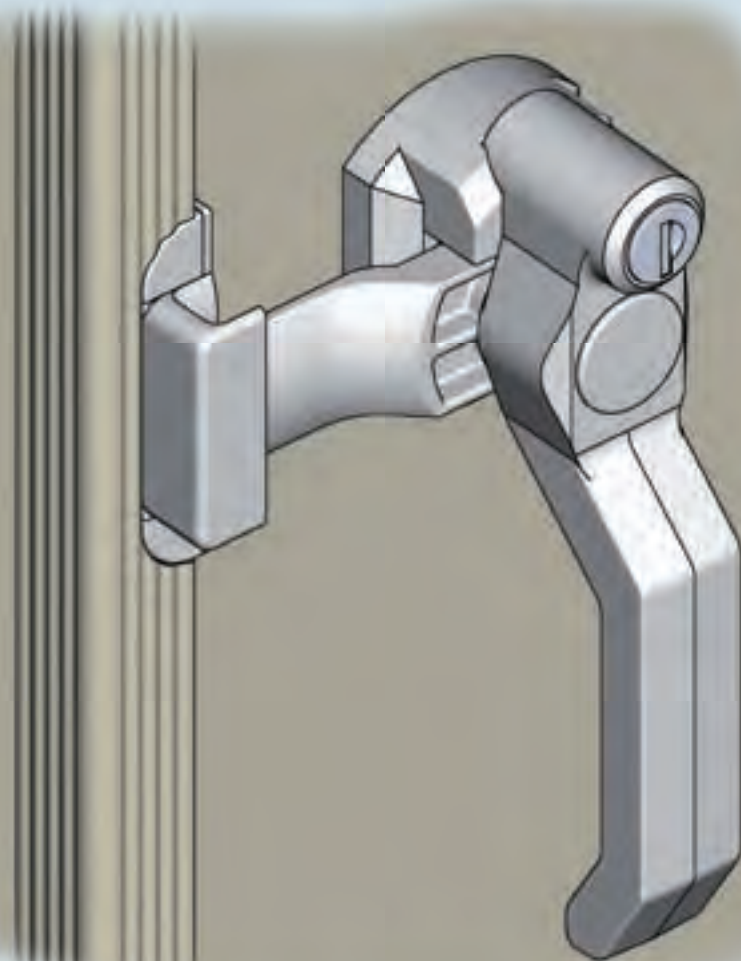




Lock with insert



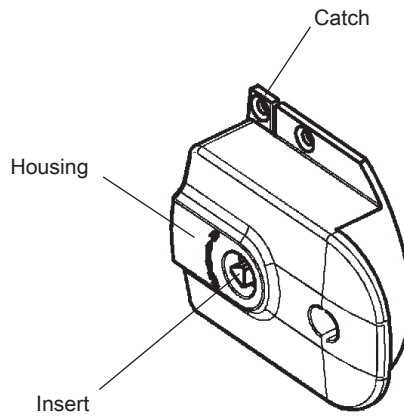
Inner handle for non-lockable lock



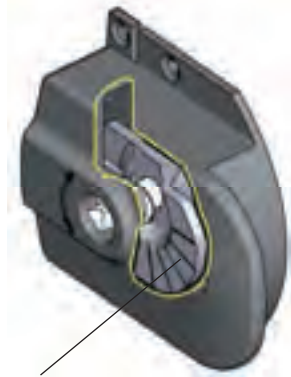
Heavy duty latch, lockable



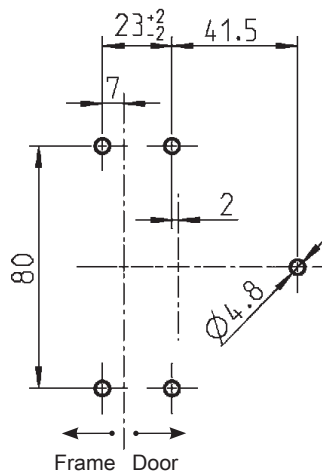
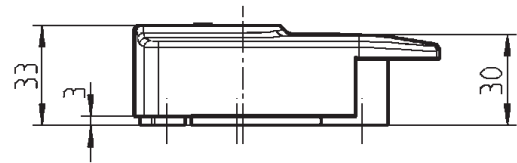
Catch



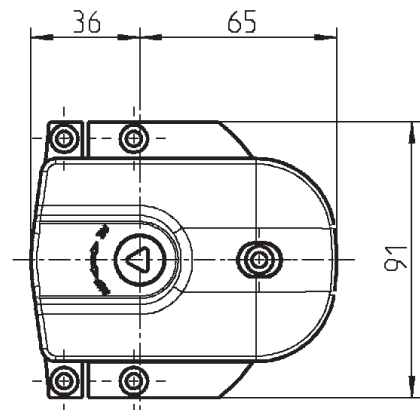
Reduction for rivet in housing and catch



Stepped cam



Cut out



Attention:
Insert not included

Catch to be ordered separately

Housing and catch with long slots on request!

Further parts see page
– Door lock with internal handle
or pressure relief page 14 - 15
– Insert page 16

Surface mounted door lock black powder coated zinc die,
stepped cam zinc die

without insert

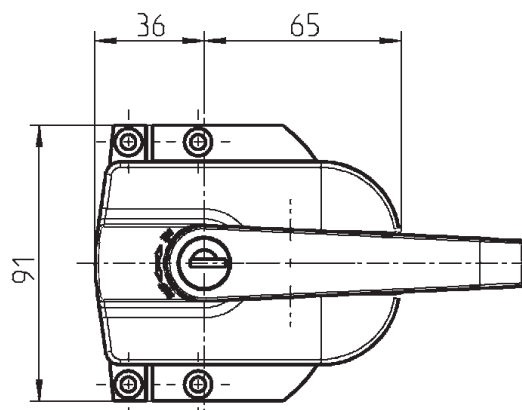
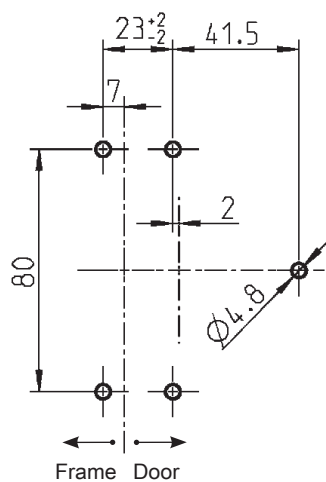
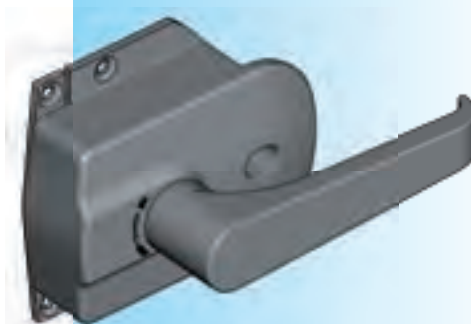
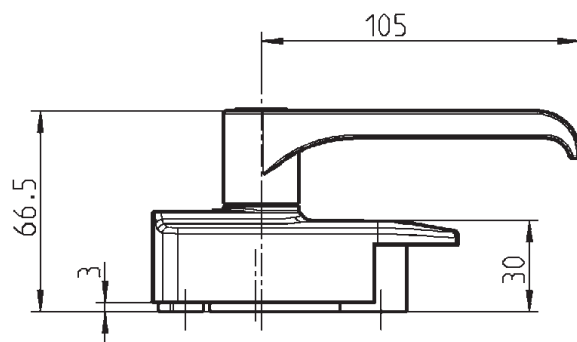
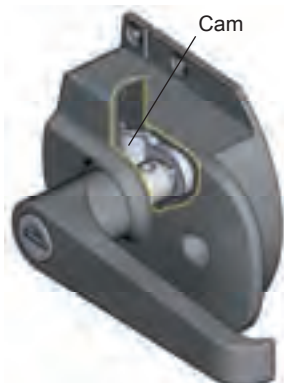
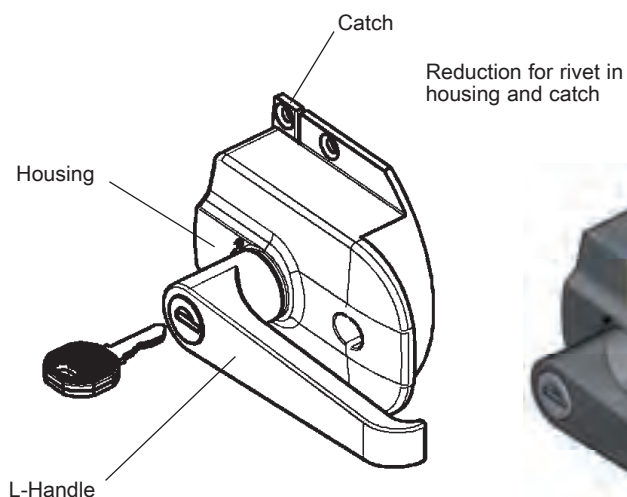
1000-U779

Catch zinc die black powder coated

1000-488

Surface mounted door lock

PROGRAM 1000



Catch

Cut out

Catch to be ordered separately

90° locking stroke with lockable handles

Housing and catch with long slots on request!

Matching lockable / non lockable T-handles on request!

Further parts see page
– Door lock with internal handle
or decompression page 14 - 15

Surface mounted door lock black powder coated zinc die,
L-Handle polyamide GF black, stepped cam zinc die,
screw zinc plated m.s.

non locking	1000-U780
-------------	-----------

Surface mounted door lock zinc die

keyed EK 333	1000-U781
--------------	-----------

keyed different	1000-U781-V
-----------------	-------------

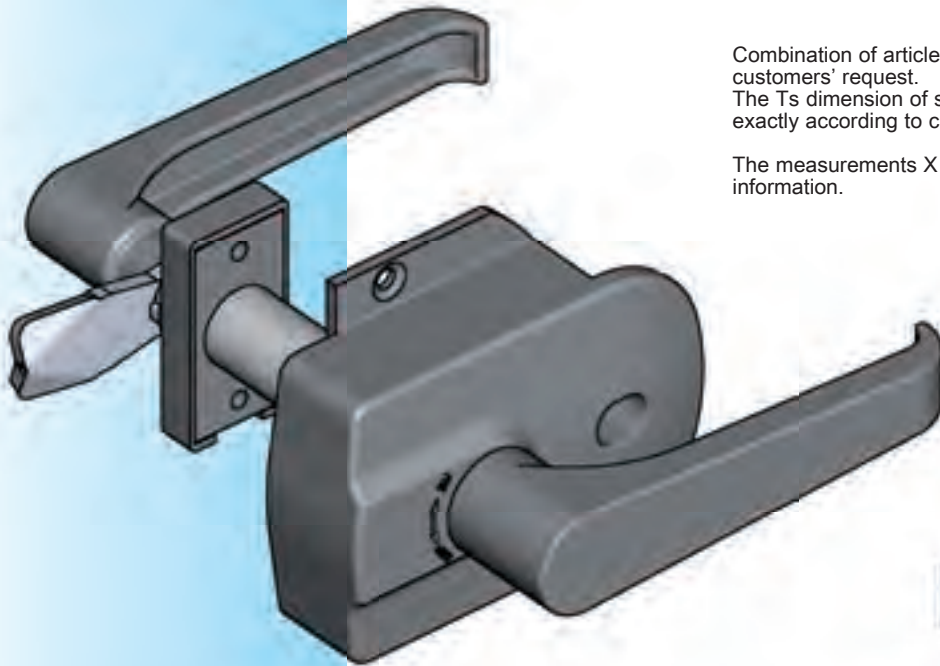
Catch zinc die black powder coated

	1000-488
--	----------

RL

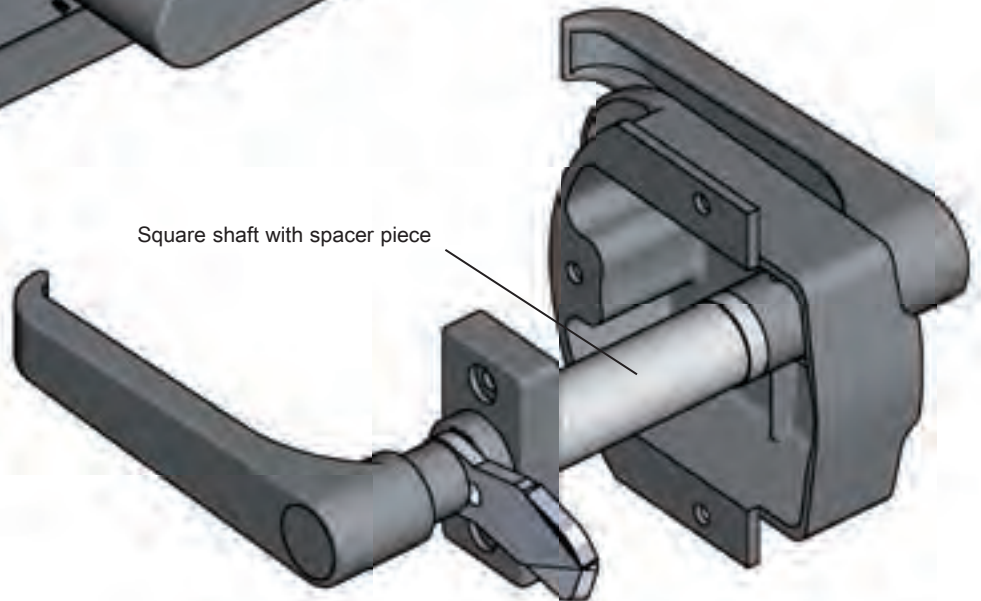


Example



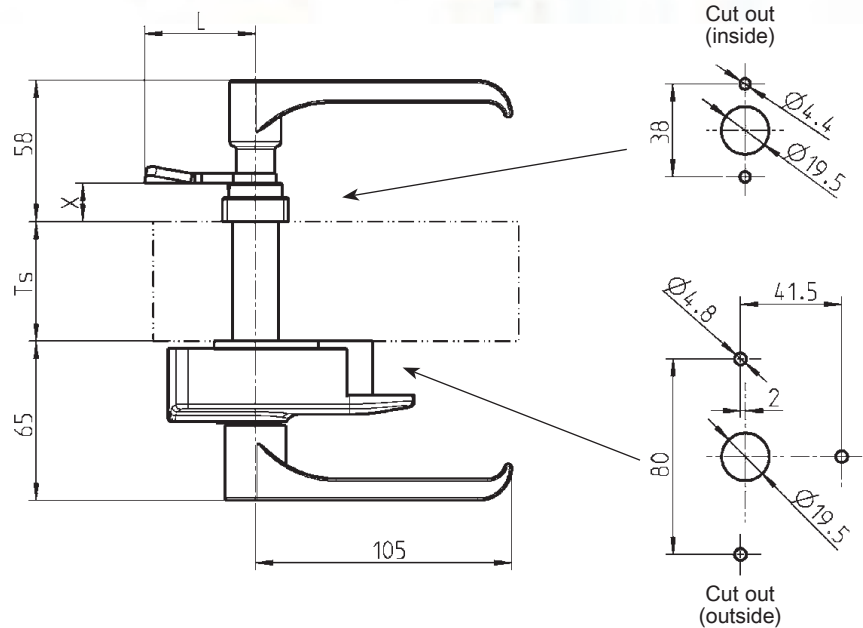
Combination of articles according to customers' request.
The Ts dimension of square shaft and spacer piece is defined exactly according to customers's request.

The measurements X and L are fixed according to customer information.



Square shaft with spacer piece

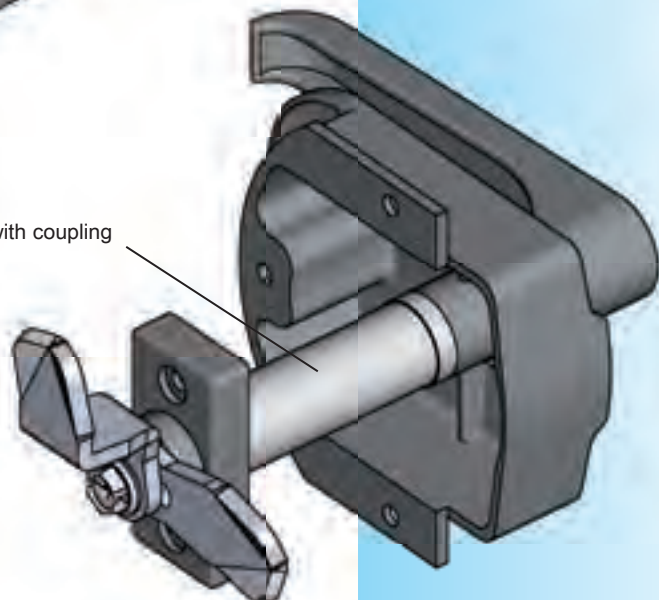
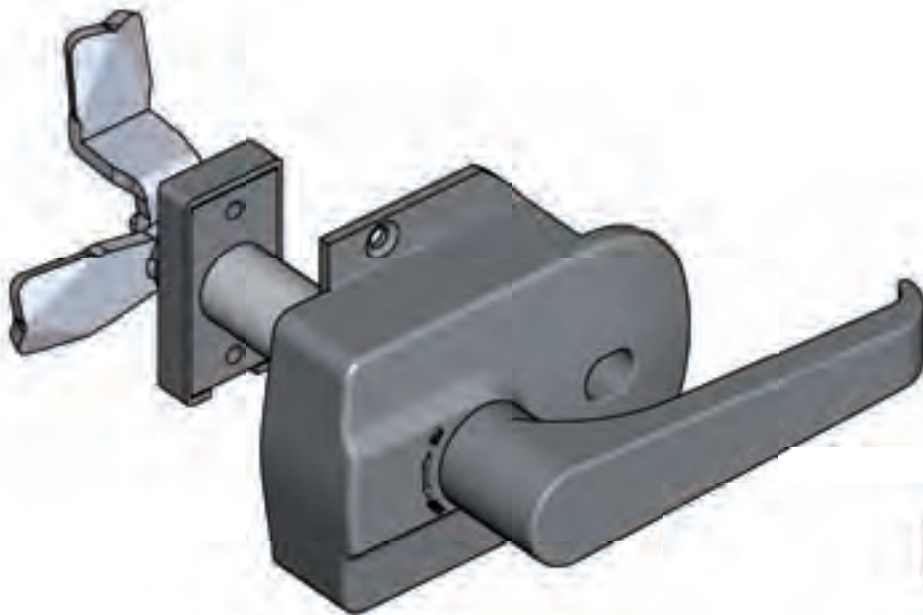
Attention:
Measurements Ts, X and L are fixed according to customer information



Surface mounted door lock with 2 step opening for pressure relief

PROGRAM 1000

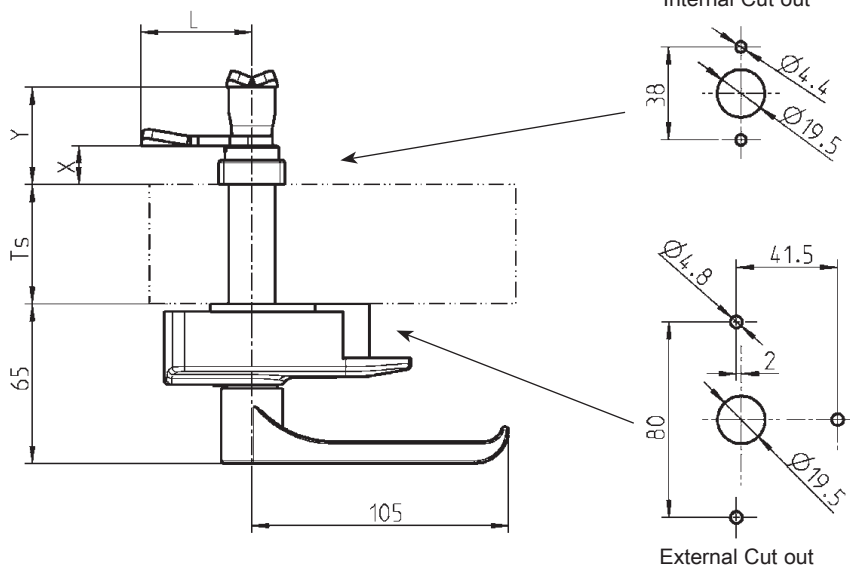
Example



Combination of articles according to customers' request.

The Ts dimension of square shaft and spacer piece is defined exactly according to customers's request.

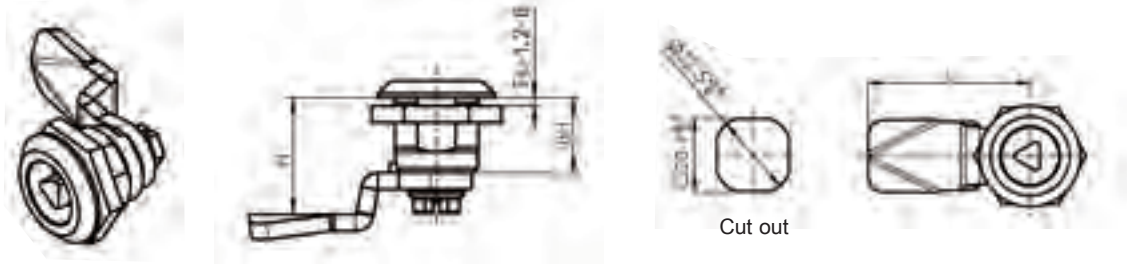
The measurements X and L are fixed according to customer information.



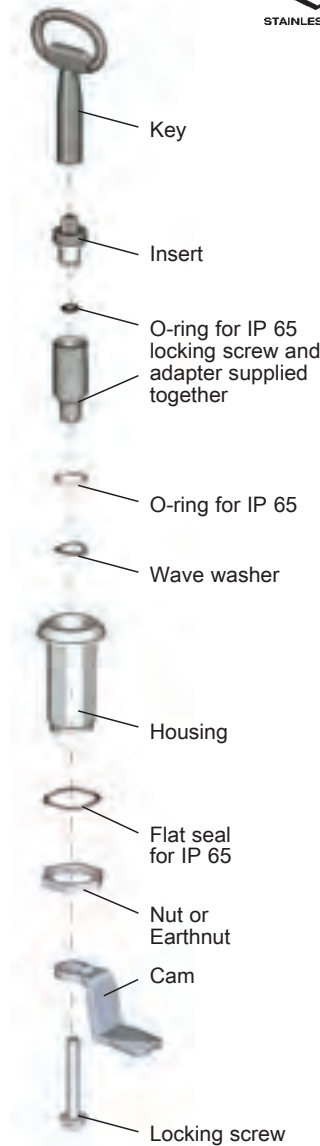
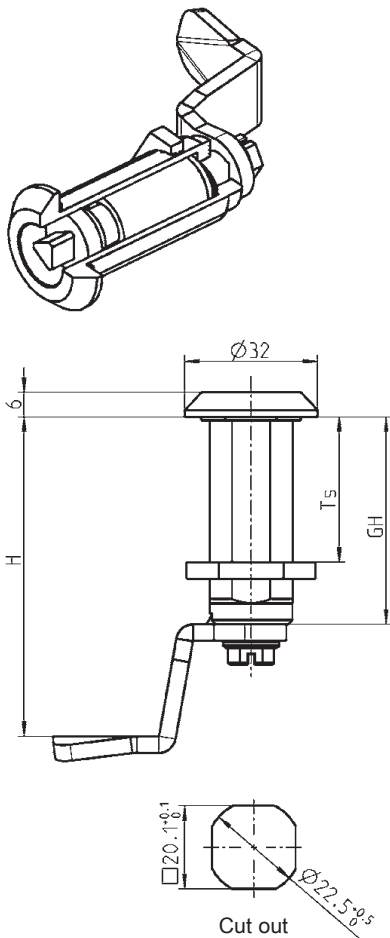
Attention:
Measurements Ts, X and L are fixed according to customer information

Quarter turn; Housing GH = 18 and 30 - 60; Insert; Seal

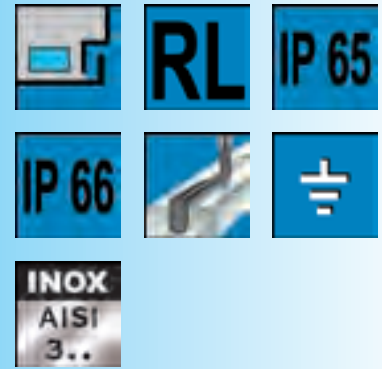
PROGRAM 1000



Housing with nut or earthnut m.s. zinc plated								
Head diameter								
Head height	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut
Material:	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut	Nut	Earthnut
Zinc die chrome plated	1000-U45	1000-U56	1000-U47	1000-U55	1000-U7	1000-U54	1000-U330	1000-U332
Zinc die chrome plated (with foamed seal)	1000-U45-G	1000-U56-G	1000-U47-G	1000-U55-G	1000-U7-G	1000-U54-G	-	-
Zinc die black powder coated	1000-U223	1000-U224	1000-U221	1000-U222	1000-U219	1000-U220	1000-U331	1000-U333
Black powder coated (with foamed seal)	1000-U223-G	1000-U224-G	1000-U221-G	1000-U222-G	1000-U219-G	1000-U220-G	-	-
Polyamide GF black	1000-U155	-	-	-	1000-U46	-	-	-
Poly GF black (with foamed seal)	1000-U155-G	-	-	-	1000-U46-G	-	-	-
Stainless steel (with foamed seal) AISI 304 AISI 316	1000-U134 1000-U530	- -	- -	- -	- -	- -	- -	- -
Insert zinc die, polyamide or stainless steel, fixing material m.s. zinc plated e.g. stainless steel			Zinc die chrome pl.	Zinc die black	PA 66 GF 50 black	Stainl.steel AISI 304	Stainl.steel AISI 316	
	Square 6		1000-U17	1000-U322	-	1000-U351	-	
	Square 7		1000-U1	1000-U323	1000-U184-N	1000-U135	1000-U531	
	Square 8		1000-U2	1000-U324	1000-U185-N	1000-U136	1000-U532	
	Square 8 slotted		1000-U18	-	-	1000-U352	-	
	Triangular 6,5 CNOMO		1000-U197	-	-	-	-	
	Triangular 7		1000-U3	1000-U325	-	1000-U334	1000-U536	
	Triangular 8		1000-U4	1000-U326	1000-U186-N	1000-U335	1000-U537	
	Triangular 9		1000-U194	-	-	-	-	
	Triangular 10		1000-U249	-	-	-	-	
	Double bit 3		1000-U5	1000-U327	1000-U187-N	1000-U183	1000-U533	
	Double bit 5		1000-U6	1000-U328	1000-U188-N	1000-U137	1000-U534	
	Hexagon female 10mm		1000-U96	-	-	-	-	
	Square female 6mm		1000-U168	-	-	-	-	
	Square female 7		1000-U182	-	-	-	-	
	Square female 8		1000-U169	-	-	-	-	
	Daimler Benz		1000-U20	-	-	-	-	
	Slot 1,2 x 3		1000-U195	-	-	-	-	
	Slot 2 x 4		1000-U142	1000-U329	1000-U196-N	1000-U630	1000-U631	
	Slot 2 x 4 coinproof		1000-U738	1000-U739	-	-	-	
	Crown type		1000-U336	-	-	-	-	
	Eastern Europe Ø 13 half-round		1000-U509	-	-	1000-U729	-	
	Hexagon female with pin		1000-U757	-	-	1000-U757-01	-	
	Star handle Wing knob		-	-	PA GF/Z. die black 1000-U13 1000-U78	PA GF black AISI 304 1000-U138 1000-U510	-	



Assembling instruction



IP 65 with:	
Flat seal	1000-23
O-ring	1000-24
IP 66 with:	
Seal-set	1000-U769
Assembly on request:	
without O-ring	1000-990
with O-ring	1000-991

Housing with nut or earthnut m.s. zinc plated						
GH	Ts 1,5 –	Zinc die chrome plated		Zinc die black powder coated		PA black Nut
		Nut	Earthnut	Nut	Earthnut	
30 mm	20 mm	1000-U51	1000-U65	1000-U225	1000-U226	–
– adapter				1000-U164		
36 mm	26 mm	1000-U246	1000-U248	1000-U317	1000-U318	–
– adapter				1000-U198		
40 mm	30 mm	1000-U66	1000-U67	1000-U227	1000-U228	1000-U737
– adapter				1000-U165		
50 mm	40 mm	1000-U68	1000-U69	1000-U229	1000-U230	1000-U736
– adapter				1000-U166		
60 mm	50 mm	1000-U504	1000-U505	1000-U506	1000-U507	–
– adapter				1000-U535		

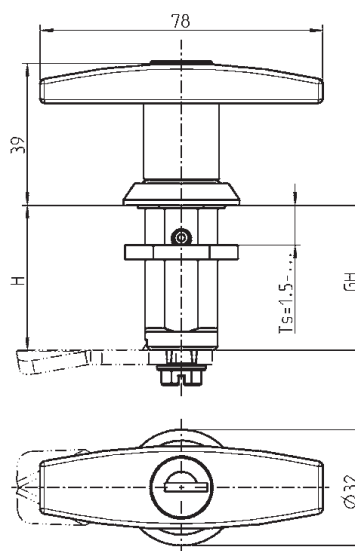
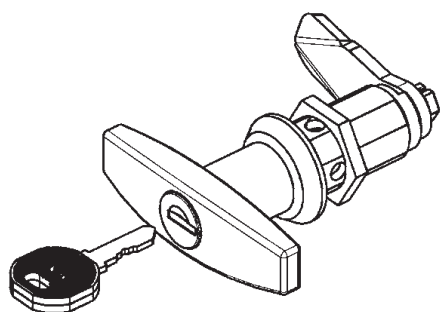
See general catalogue for parts without standard page numbers (e.g. 1B-105).

Note:
Quarter turn assembling 1B-105

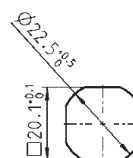
Further parts see page
 – Door lock prominent page 12
 – Cam page 22 - 23
 – Quarter turn with stepped cam page 28
 – Key page 57
 – Rotation prevention page 58
 – Housing 1B-760
 1B-680
 1B-820
 – Accessories from 1C-220
 – Insert with wing knob 1B-720

T-Handle

PROGRAM 1000



Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s. zinc plated. Key removable in both positions.



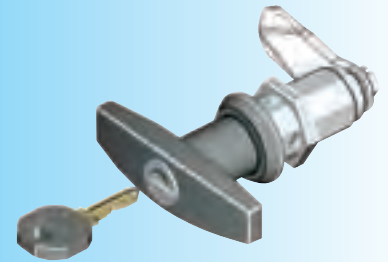
Cut out

T-Handle,
suitable for KABA-cylinder type 1036
for standard locking or master key system on request.

T-Handle		Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	Keyed different
18 mm	8 mm			
	with nut	1000-U9	1000-U10	1000-U11
	with earthnut	1000-U60	1000-U61	1000-U62
30 mm	20 mm			
	with nut	1000-U116	1000-U118	1000-U120
	with earthnut	1000-U117	1000-U119	1000-U121
40 mm	30 mm			
	with nut	1000-U122	1000-U124	1000-U126
	with earthnut	1000-U123	1000-U125	1000-U127
50 mm	40 mm			
	with nut	1000-U128	1000-U130	1000-U132
	with earthnut	1000-U129	1000-U131	1000-U133
60 mm	50 mm			
	with nut	1000-U594	1000-U596	1000-U598
	with earthnut	1000-U595	1000-U597	1000-U599



T-Handle		Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U337	1000-U338	1000-U339
	with earthnut	1000-U340	1000-U341	1000-U342
30 mm	20 mm			
	with nut	1000-U372	1000-U374	1000-U376
	with earthnut	1000-U373	1000-U375	1000-U377
40 mm	30 mm			
	with nut	1000-U378	1000-U380	1000-U382
	with earthnut	1000-U379	1000-U381	1000-U383
50 mm	40 mm			
	with nut	1000-U384	1000-U386	1000-U388
	with earthnut	1000-U385	1000-U387	1000-U389
60 mm	50 mm			
	with nut	1000-U600	1000-U602	1000-U604
	with earthnut	1000-U601	1000-U603	1000-U605



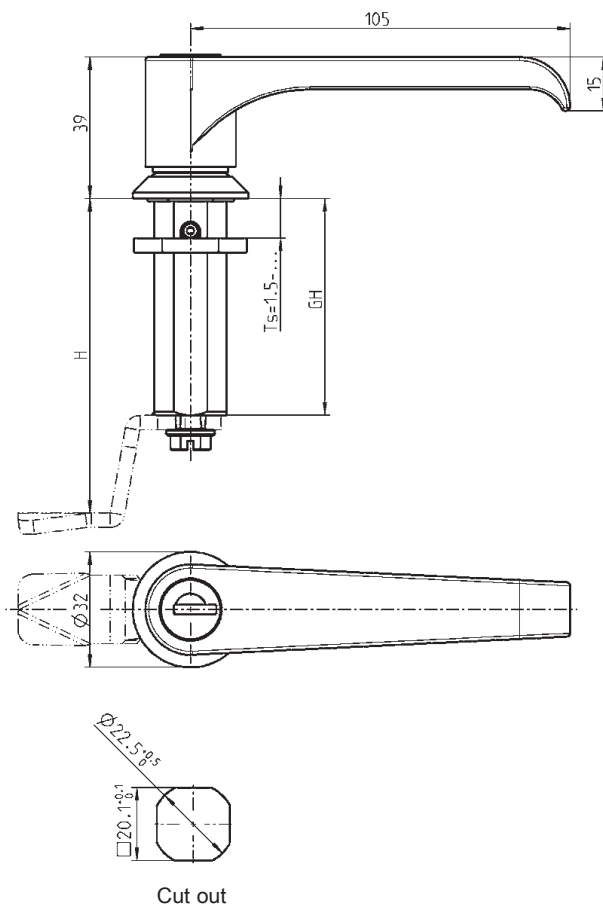
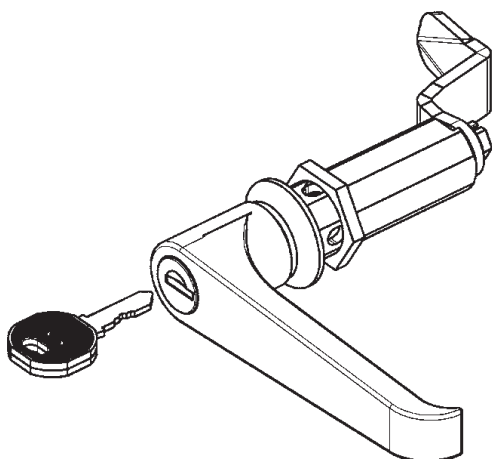
T-Handle IP 65		Handle, housing, nut and screw AISI 304, with seal		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U664		

T-Handle		Handle polyamide black Housing zinc die black, nut, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter		
GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U546	1000-U548	1000-U550
	with earthnut	1000-U547	1000-U549	1000-U551
30 mm	20 mm			
	with nut	1000-U552	1000-U554	1000-U556
	with earthnut	1000-U553	1000-U555	1000-U557
40 mm	30 mm			
	with nut	1000-U558	1000-U560	1000-U562
	with earthnut	1000-U559	1000-U561	1000-U563
50 mm	40 mm			
	with nut	1000-U564	1000-U566	1000-U568
	with earthnut	1000-U565	1000-U567	1000-U569
60 mm	50 mm			
	with nut	1000-U606	1000-U608	1000-U610
	with earthnut	1000-U607	1000-U609	1000-U611

Further parts see page
 – Cam page 22 - 23
 – Rotation prevention page 58
 – Accessories from 1C-340
 – Spare key 12B-140

L-Handle

PROGRAM 1000



Each cylinder has one silver steel key with polyamide GF grip black, screw and nut m.s. zinc plated. Key removable in both positions.

L-Handle, suitable for KABA-cylinder type 1036 for standard locking or master key system on request.

L-Handle

Handle and housing zinc die chrome plated, nut, earthnut and screw m.s. zinc plated, with seal cylinder zinc die with stainless steel cap and shutter

IP 65

GH	Ts 1,5 - 8 mm	non locking	keyed EK 333	Keyed different
18 mm	8 mm			
	with nut	1000-U14	1000-U15	1000-U16
	with earthnut	1000-U57	1000-U58	1000-U59
30 mm	20 mm			
	with nut	1000-U98	1000-U100	1000-U102
	with earthnut	1000-U99	1000-U101	1000-U103
40 mm	30 mm			
	with nut	1000-U104	1000-U106	1000-U108
	with earthnut	1000-U105	1000-U107	1000-U109
50 mm	40 mm			
	with nut	1000-U110	1000-U112	1000-U114
	with earthnut	1000-U111	1000-U113	1000-U115
60 mm	50 mm			
	with nut	1000-U612	1000-U614	1000-U616
	with earthnut	1000-U613	1000-U615	1000-U617



L-Handle Handle and housing zinc die black powder coated, earthnut and screw m.s. zinc plated, with seal Cylinder zinc die with stainless steel cap and shutter

IP 65

GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U353	1000-U390	1000-U391
	with earthnut	1000-U392	1000-U393	1000-U394
30 mm	20 mm			
	with nut	1000-U354	1000-U356	1000-U358
	with earthnut	1000-U355	1000-U357	1000-U359
40 mm	30 mm			
	with nut	1000-U360	1000-U362	1000-U364
	with earthnut	1000-U361	1000-U363	1000-U365
50 mm	40 mm			
	with nut	1000-U366	1000-U368	1000-U370
	with earthnut	1000-U367	1000-U369	1000-U371
60 mm	50 mm			
	with nut	1000-U618	1000-U620	1000-U622
	with earthnut	1000-U619	1000-U621	1000-U623



L-Handle Handle, housing, nut and screw AISI 304, with seal

IP 65

GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U658		

L-Handle Handle polyamide black
Housing zinc die black, nut, earthnut and screw m.s. zinc plated, with seal
Cylinder zinc die with stainless steel cap and shutter

GH	Ts 1,5 -	non locking	keyed EK 333	keyed different
18 mm	8 mm			
	with nut	1000-U570	1000-U572	1000-U574
	with earthnut	1000-U571	1000-U573	1000-U575
30 mm	20 mm			
	with nut	1000-U576	1000-U578	1000-U580
	with earthnut	1000-U577	1000-U579	1000-U581
40 mm	30 mm			
	with nut	1000-U582	1000-U584	1000-U586
	with earthnut	1000-U583	1000-U585	1000-U587
50 mm	40 mm			
	with nut	1000-U588	1000-U590	1000-U592
	with earthnut	1000-U589	1000-U591	1000-U593
60 mm	50 mm			
	with nut	1000-U624	1000-U626	1000-U628
	with earthnut	1000-U625	1000-U627	1000-U629

Further parts see page

- Cam page 22 - 23
- Rotation prevention page 58
- Accessories from 1C-340
- Spare key 12B-140

See general catalogue for parts without standard page numbers (e.g. 1B-105).

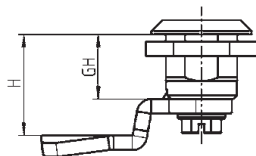
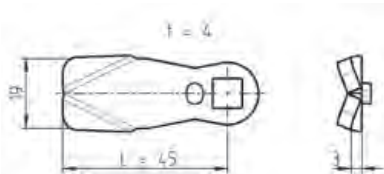
1B-580

(1B-282)

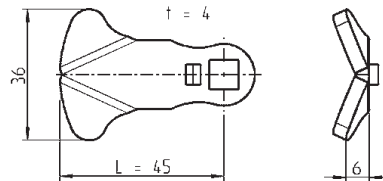
Cam m.s. for GH = 18, 30, 36, 40, 50 and 60

PROGRAM 1000

Cam



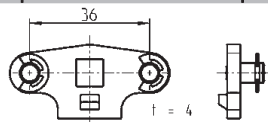
Cam



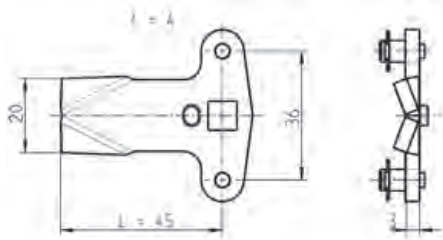
Cam m.s. zinc plated							Cam m.s. zinc plated				
H.....	GH = 18	GH = 30	GH = 36	GH = 40	GH = 50	GH = 60	H.....	GH = 18	GH = 30	GH = 36	GH = 40
4.....	1000-112	-	-	-	-	-	4.....	1000-286	-	-	-
6.....	1000-22	-	-	-	-	-	6.....	1000-287	-	-	-
8.....	1000-113	-	-	-	-	-	8.....	1000-288	-	-	-
10.....	1000-21	-	-	-	-	-	10.....	1000-289	-	-	-
13.....	1000-20	-	-	-	-	-	13.....	1000-290	-	-	-
14.....	1000-19	-	-	-	-	-	14.....	1000-291	-	-	-
16.....	1000-18	1000-112	-	-	-	-	16.....	1000-292	1000-286	-	-
18.....	1000-17	1000-22	-	-	-	-	18.....	1000-293	1000-287	-	-
20.....	1000-16	1000-113	-	-	-	-	20.....	1000-294	1000-288	-	-
22.....	1000-15	1000-21	1000-112	-	-	-	22.....	1000-295	1000-289	1000-286	-
24.....	1000-14	-	1000-22	-	-	-	24.....	1000-296	-	1000-287	-
25.....	1000-27	1000-20	-	-	-	-	25.....	1000-297	1000-290	-	-
26.....	1000-50	1000-19	1000-113	1000-112	-	-	26.....	1000-298	1000-291	1000-288	1000-286
28.....	1000-13	1000-18	1000-21	1000-22	-	-	28.....	1000-299	1000-292	1000-289	1000-287
30.....	1000-28	1000-17	-	1000-113	-	-	30.....	1000-300	1000-293	-	1000-288
31.....	-	-	1000-20	-	-	-	31.....	-	-	1000-290	-
32.....	1000-26	1000-16	1000-19	1000-21	-	-	32.....	1000-301	1000-294	1000-291	1000-289
34.....	1000-12	1000-15	1000-18	-	-	-	34.....	1000-302	1000-295	1000-292	-
35.....	1000-11	-	-	1000-20	-	-	35.....	1000-303	-	-	1000-290
36.....	1000-51	1000-14	1000-17	1000-19	1000-112	-	36.....	1000-304	1000-296	1000-293	1000-291
37.....	-	1000-27	-	-	-	-	37.....	-	1000-297	-	-
38.....	1000-52	1000-50	1000-16	1000-18	1000-22	-	38.....	1000-305	1000-298	1000-294	1000-292
40.....	1000-25	1000-13	1000-15	1000-17	1000-113	-	40.....	1000-306	1000-299	1000-295	1000-293
42.....	1000-53	1000-28	1000-14	1000-16	1000-21	-	42.....	1000-307	1000-300	1000-296	1000-294
43.....	-	-	1000-27	-	-	-	43.....	-	-	1000-297	-
44.....	1000-54	1000-26	1000-50	1000-15	-	-	44.....	1000-308	1000-301	1000-298	1000-295
45.....	1000-10	-	-	-	1000-20	-	45.....	1000-309	-	-	-
46.....	-	1000-12	1000-13	1000-14	1000-19	1000-112	46.....	-	1000-302	1000-299	1000-296
47.....	1000-55	1000-11	-	1000-27	-	-	47.....	1000-310	1000-303	-	1000-297
48.....	-	1000-51	1000-28	1000-50	1000-18	1000-22	48.....	-	1000-304	1000-300	1000-298
50.....	1000-56	1000-52	1000-26	1000-13	1000-17	1000-113	50.....	1000-311	1000-305	1000-301	1000-299
52.....	-	1000-25	1000-12	1000-28	1000-16	1000-21	52.....	-	1000-306	1000-302	1000-300
53.....	-	-	1000-11	-	-	-	53.....	-	-	1000-303	-
54.....	-	1000-53	1000-51	1000-26	1000-15	-	54.....	-	1000-307	1000-304	1000-301
55.....	-	-	-	-	-	1000-20	55.....	-	-	-	-
56.....	-	1000-54	1000-52	1000-12	1000-14	1000-19	56.....	-	1000-308	1000-305	1000-302
57.....	-	1000-10	-	1000-11	1000-27	-	57.....	-	1000-309	-	1000-303
58.....	-	-	1000-25	1000-51	1000-50	1000-18	58.....	-	-	1000-306	1000-304
59.....	-	1000-55	-	-	-	-	59.....	-	1000-310	-	-
60.....	-	-	1000-53	1000-52	1000-13	1000-17	60.....	-	-	1000-307	1000-305
62.....	-	1000-56	1000-54	1000-25	1000-28	1000-16	62.....	-	1000-311	1000-308	1000-306
63.....	-	-	1000-10	-	-	-	63.....	-	-	1000-309	-
64.....	-	-	-	1000-53	1000-26	1000-15	64.....	-	-	-	1000-307
65.....	-	-	1000-55	-	-	-	65.....	-	-	1000-310	-
66.....	-	-	-	1000-54	1000-12	1000-14	66.....	-	-	-	1000-308
67.....	-	-	-	1000-10	1000-11	1000-27	67.....	-	-	-	1000-309
68.....	-	-	1000-56	-	1000-51	1000-50	68.....	-	-	1000-311	-
69.....	-	-	-	1000-55	-	-	69.....	-	-	-	1000-310
70.....	-	-	-	-	1000-52	1000-13	70.....	-	-	-	-
72.....	-	-	-	1000-56	1000-25	1000-28	72.....	-	-	-	1000-311
74.....	-	-	-	-	1000-53	1000-26	74.....	-	-	-	-
76.....	-	-	-	-	1000-54	1000-12	76.....	-	-	-	-
77.....	-	-	-	-	1000-10	1000-11	77.....	-	-	-	-
78.....	-	-	-	-	-	1000-51	78.....	-	-	-	-
79.....	-	-	-	-	1000-55	-	79.....	-	-	-	-
80.....	-	-	-	-	-	1000-52	80.....	-	-	-	-
82.....	-	-	-	-	1000-56	1000-25	82.....	-	-	-	-
84.....	-	-	-	-	-	1000-53	84.....	-	-	-	-
86.....	-	-	-	-	-	1000-54	86.....	-	-	-	-
87.....	-	-	-	-	-	1000-10	87.....	-	-	-	-
89.....	-	-	-	-	-	1000-55	89.....	-	-	-	-
92.....	-	-	-	-	-	1000-56	92.....	-	-	-	-

2-point rod control m.s. zinc plated

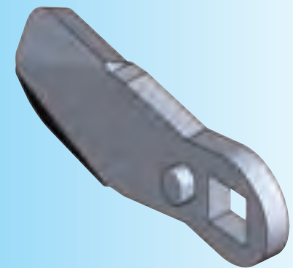
1000-U167



Cam with rod control



		Cam with rod control m.s. zinc plated						
GH = 50	GH = 60	H.....	GH = 18	GH = 30	GH = 36	GH = 40	GH = 50	GH = 60
-	-	4.....	1000-U63	-	-	-	-	-
-	-	6.....	1000-U21	-	-	-	-	-
-	-	8.....	1000-U64	-	-	-	-	-
-	-	10.....	1000-U22	-	-	-	-	-
-	-	13.....	1000-U23	-	-	-	-	-
-	-	14.....	1000-U24	-	-	-	-	-
-	-	16.....	1000-U25	1000-U63	-	-	-	-
-	-	18.....	1000-U26	1000-U21	-	-	-	-
-	-	20.....	1000-U27	1000-U64	-	-	-	-
-	-	22.....	1000-U28	1000-U22	1000-U63	-	-	-
-	-	24.....	1000-U29	-	1000-U21	-	-	-
-	-	25.....	1000-U30	1000-U23	-	-	-	-
-	-	26.....	1000-U31	1000-U24	1000-U64	1000-U63	-	-
-	-	28.....	1000-U32	1000-U25	1000-U22	1000-U21	-	-
-	-	30.....	1000-U33	1000-U26	-	1000-U64	-	-
-	-	31.....	-	-	1000-U23	-	-	-
-	-	32.....	1000-U34	1000-U27	1000-U24	1000-U22	-	-
-	-	34.....	1000-U35	1000-U28	1000-U25	-	-	-
-	-	35.....	1000-U36	-	-	1000-U23	-	-
1000-286	-	36.....	1000-U37	1000-U29	1000-U26	1000-U24	1000-U63	-
-	-	37.....	-	1000-U30	-	-	-	-
1000-287	-	38.....	1000-U38	1000-U31	1000-U27	1000-U25	1000-U21	-
1000-288	-	40.....	1000-U39	1000-U32	1000-U28	1000-U26	1000-U64	-
1000-289	-	42.....	1000-U40	1000-U33	1000-U29	1000-U27	1000-U22	-
-	-	43.....	-	-	1000-U30	-	-	-
-	-	44.....	1000-U41	1000-U34	1000-U31	1000-U28	-	-
1000-290	-	45.....	1000-U42	-	-	-	1000-U23	-
1000-291	1000-286	46.....	-	1000-U35	1000-U32	1000-U29	1000-U24	1000-U63
-	-	47.....	1000-U43	1000-U36	-	1000-U30	-	-
1000-292	1000-287	48.....	-	1000-U37	1000-U33	1000-U31	1000-U25	1000-U21
1000-293	1000-288	50.....	1000-U44	1000-U38	1000-U34	1000-U32	1000-U26	1000-U64
1000-294	1000-289	52.....	-	1000-U39	1000-U35	1000-U33	1000-U27	1000-U22
-	-	53.....	-	-	1000-U36	-	-	-
1000-295	-	54.....	-	1000-U40	1000-U37	1000-U34	1000-U28	-
-	1000-290	55.....	-	-	-	-	-	1000-U23
1000-296	1000-291	56.....	-	1000-U41	1000-U38	1000-U35	1000-U29	1000-U24
1000-297	-	57.....	-	1000-U42	-	1000-U36	1000-U30	-
1000-298	1000-292	58.....	-	-	1000-U39	1000-U37	1000-U31	1000-U25
-	-	59.....	-	1000-U43	-	-	-	-
1000-299	1000-293	60.....	-	-	1000-U40	1000-U38	1000-U32	1000-U26
1000-300	1000-294	62.....	-	1000-U44	1000-U41	1000-U39	1000-U33	1000-U27
-	-	63.....	-	-	1000-U42	-	-	-
1000-301	1000-295	64.....	-	-	-	1000-U40	1000-U34	1000-U28
-	-	65.....	-	-	1000-U43	-	-	-
1000-302	1000-296	66.....	-	-	-	1000-U41	1000-U35	1000-U29
1000-303	1000-297	67.....	-	-	-	1000-U42	1000-U36	1000-U30
1000-304	1000-298	68.....	-	-	1000-U44	-	1000-U37	1000-U31
-	-	69.....	-	-	-	1000-U43	-	-
1000-305	1000-299	70.....	-	-	-	-	1000-U38	1000-U32
1000-306	1000-300	72.....	-	-	-	1000-U44	1000-U39	1000-U33
1000-307	1000-301	74.....	-	-	-	-	1000-U40	1000-U34
1000-308	1000-302	76.....	-	-	-	-	1000-U41	1000-U35
1000-309	1000-303	77.....	-	-	-	-	1000-U42	1000-U36
-	1000-304	78.....	-	-	-	-	-	1000-U37
1000-310	-	79.....	-	-	-	-	1000-U43	-
-	1000-305	80.....	-	-	-	-	-	1000-U38
1000-311	1000-306	82.....	-	-	-	-	1000-U44	1000-U39
-	1000-307	84.....	-	-	-	-	-	1000-U40
-	1000-308	86.....	-	-	-	-	-	1000-U41
-	1000-309	87.....	-	-	-	-	-	1000-U42
-	1000-310	89.....	-	-	-	-	-	1000-U43
-	1000-311	92.....	-	-	-	-	-	1000-U44



Note:

The H-dimension will be reduced by 2 mm when used with finger pull (see page 1C-320)

Further parts see page

- Rotation prevention page 58
- Quarter turns page 16 - 21
- 1B-120
- 1B-320
- 1B-360
- 1B-420
- up to 1B-620
- 1B-680
- 1B-720
- 1B-760
- 1B-840
- 1B-860

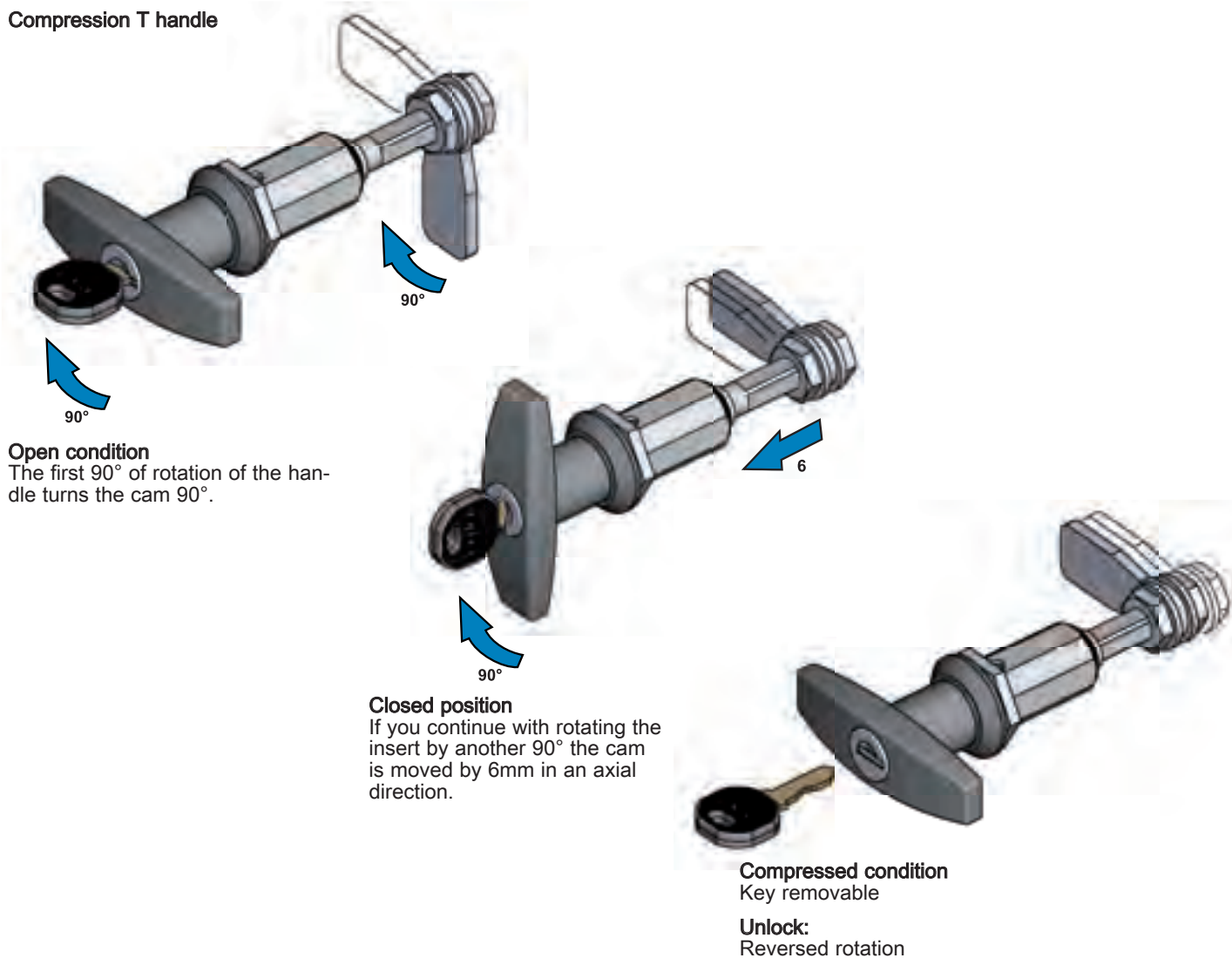
- Rod control or

- internal handle 1C-220
- Rod 1C-620
- Heavy duty latch 10A-620
- 10A-640

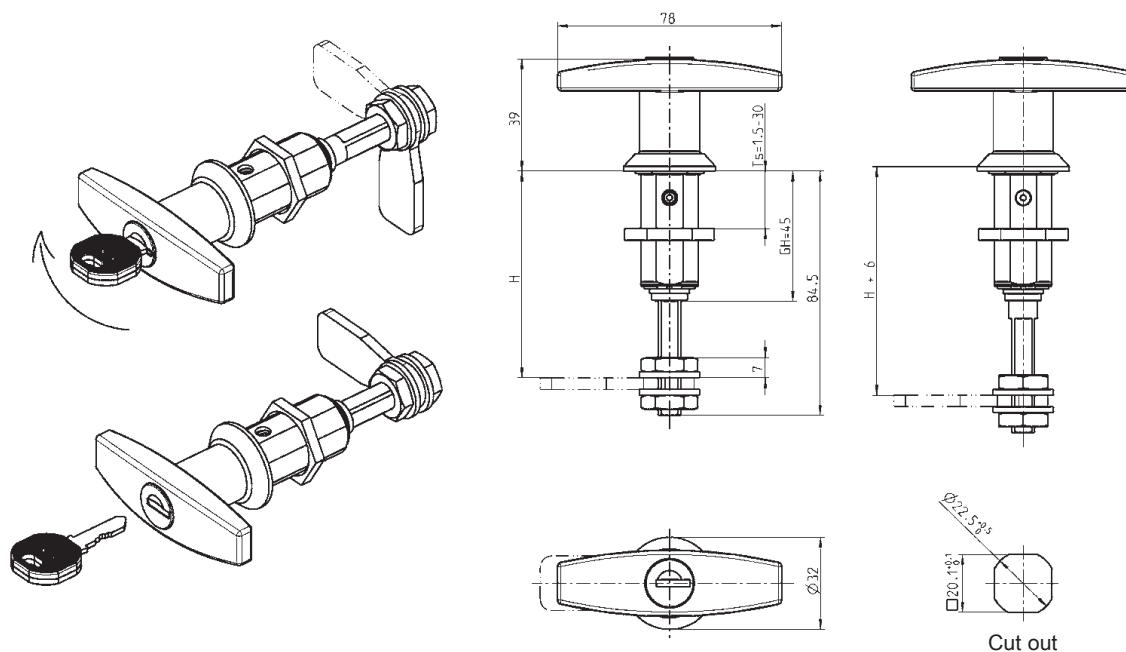
Compression Handles with adjustable Cams

PROGRAM 1000

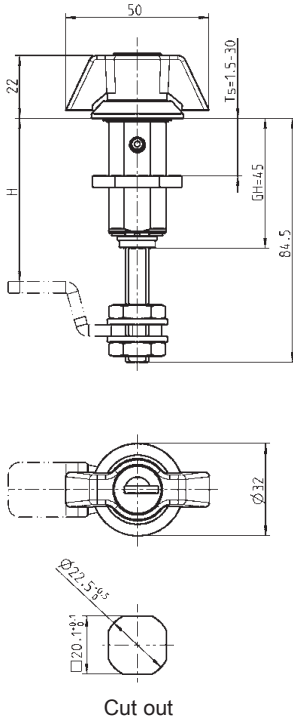
Compression T handle



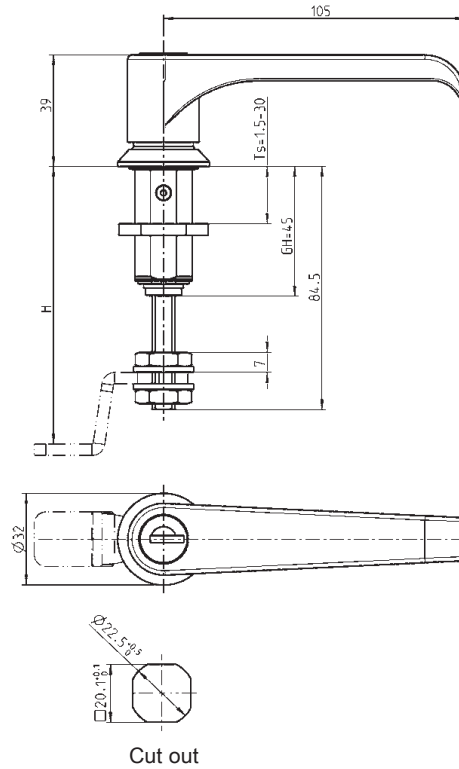
Compression latch with T-handle



Compression Wing knob



compression L handle



Vibration proof

This Compression latch is of a vibration-proof design.
This depends on the installation location and operational conditions.
Specific checks are necessary and/or supplementary measures of fastening required.

Handle and housing zinc die black powder coated,
round cylinder zinc die with stainless steel cap and dustcap,
washer and nut m.s. zinc plated, with spring and seal.
Each cylinder has one silver steel key with black polyamide grip.
Key removable in both directions.

	non locking	keyed EK 333	keyed different
Wing knob	1000-U790	1000-U789	1000-U791
T-Handle	1000-U785	1000-U784	1000-U792
L-Handle	1000-U788	1000-U787	1000-U793

See general catalogue for parts without standard page numbers (e.g. 1B-105).



IP 65



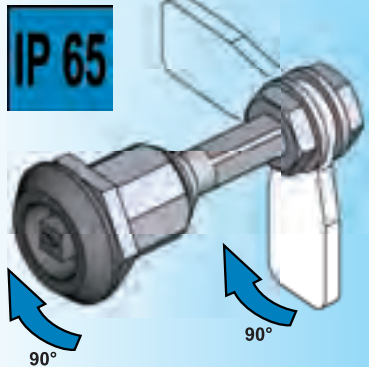
Note:
Only cams without a stop
can be used

Further parts see page
– Cam page 27
– Rotation prevention page 58
– Dust cap for T-Handle 1C-340

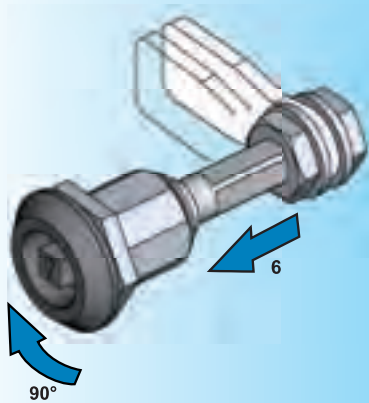
Compression latch - Adjustable Cam PROGRAM 1000

Vibration proof

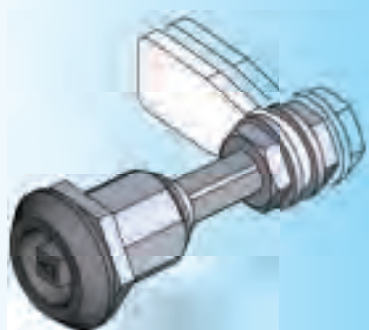
These latches are designed to be vibration resistant with a distinct "over-center" action. There may be some cases of extreme vibration where this detent is overcome. Therefore we recommend rigorous testing.



Open condition
The first 90° of rotation of the insert also turns the cam 90°.



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

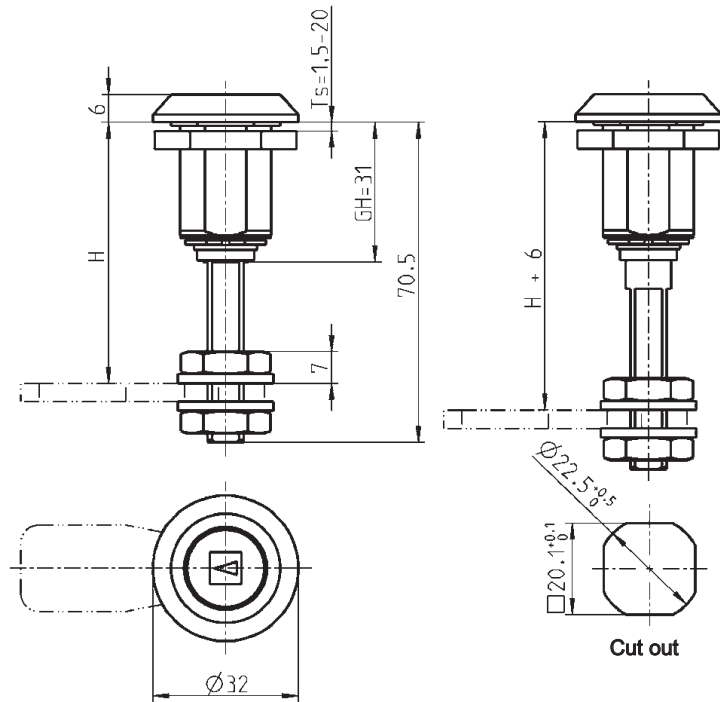


Compressed condition

Note:
Only cams without a stop can be used.

Stainless steel version on request.

Further parts see page
 - Cam page 27
 - Key page 57
 - Rotation prevention page 58
 - Accessories from 1C-220



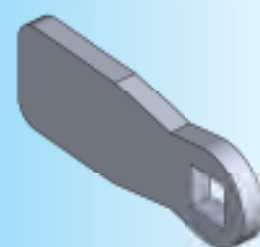
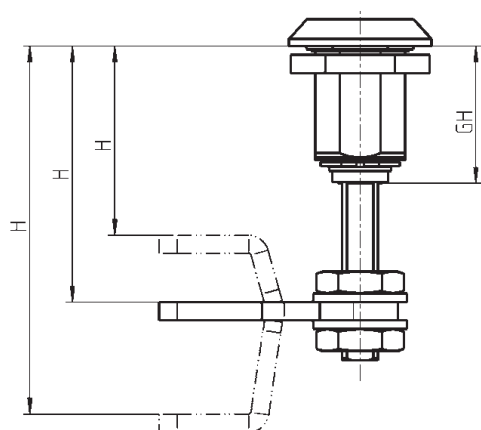
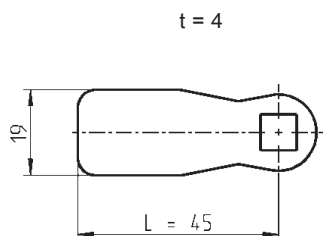
Housing and insert black powder coated zinc alloy, nut and screw zinc plated m.s.

Square 6	on request
Square 7	1000-U786
Square 8	1000-U797
Square 8 slotted	on request
Square 8mm with arrow	1000-U799
Square 8mm with M6 thread and wing knob	1000-U801
Triangular 6,5 CNOMO	on request
Triangular 7	1000-U794
Triangular 8	1000-U802
Triangular 9	on request
Triangular 10	on request
Double bit 3	1000-U803
Double bit 5	1000-U804
Male hexagon 11mm with indicator	1000-U816
Hexagon female 8mm	1000-U808
Hexagon female 8mm with pin	1000-U806
Hexagon female 10mm	1000-U810
Square female 6mm	on request
Square female 7	on request
Square female 8	1000-U812
Daimler Benz	on request
Slot 1,2 x 3	1000-U814
Slot 2 x 4	1000-U813
Slot 2 x 4 coinproof	on request
Crown type	on request
Eastern Europe Ø 13	on request

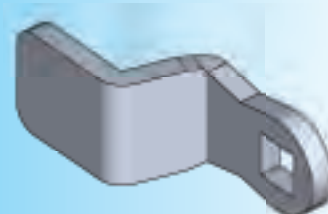
See general catalogue for parts without standard page numbers (e.g. 1B-105).

Cam m.s. for GH = 31 and 45 Compression latch

PROGRAM 1000



straight cam



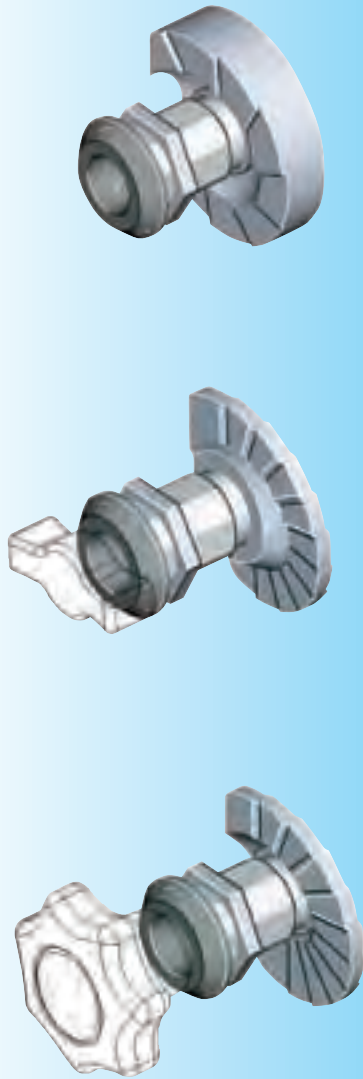
cranked cam

Note:
Insert of cranked cam optionally positive or negative

Cam m.s. zinc plated

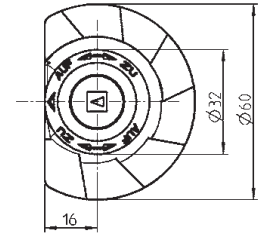
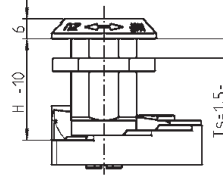
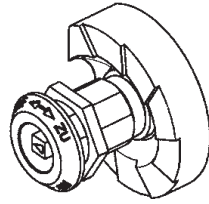
for GH = 31	H	GH = 31
straight	38 - 58	1000-476
offset +/- 14 mm	24 - 44; 52 - 72	1000-478
offset +/- 26 mm	12 - 32; 64 - 84	1000-477
for GH = 45	H	GH = 45
straight	52 - 72	1000-476
offset +/- 14 mm	38 - 58; 66 - 86	1000-478
offset +/- 26 mm	26 - 46; 78 - 98	1000-477

Further parts see page
 – Compression latch with handle page 24 - 25
 – Compression latch with insert page 26
 – Rotation prevention page 58

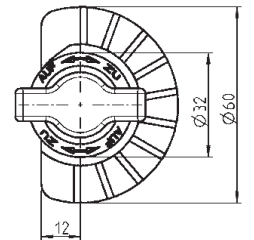
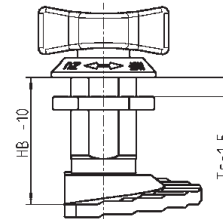
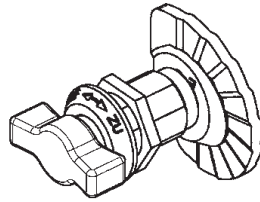


Housing with 270° stop

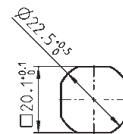
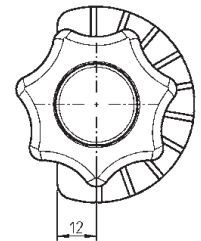
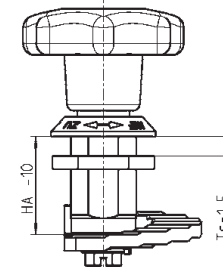
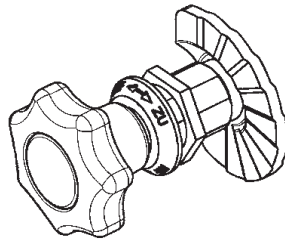
Version A



Version B



Version B



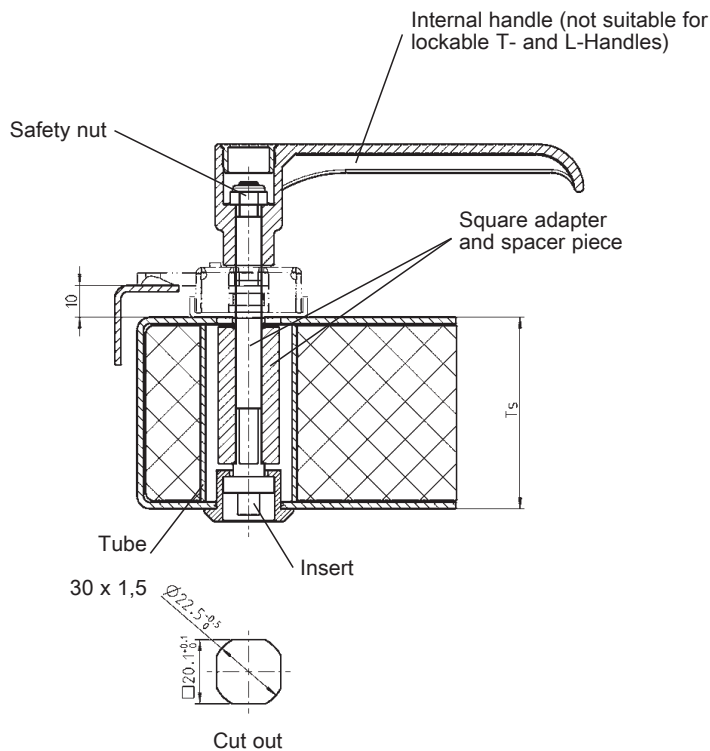
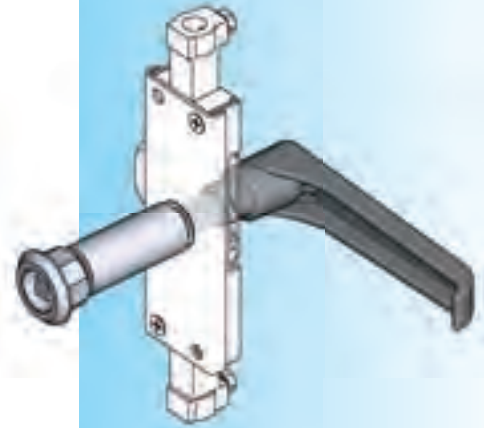
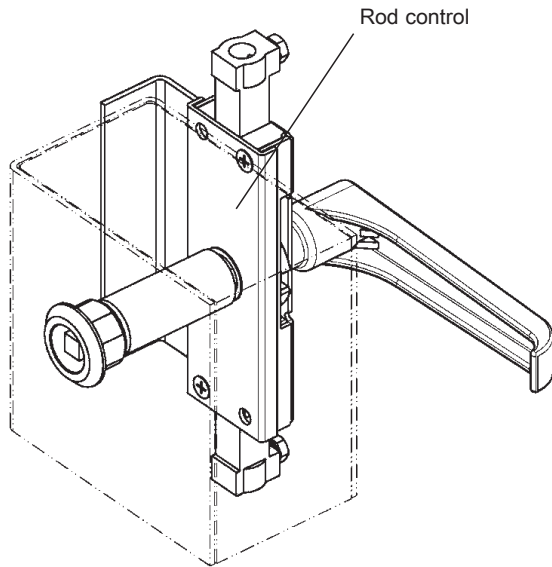
Cut out

Advice:
Quarter turn-Assembling 1B-105

Further parts see page
 - Insert page 16
 - IP 65 or IP 66 page 17
 - Key page 57
 - Rotation prevention page 58
 - Accessories from 1C-320

Stepped cam							
Version A		zinc plated m.s., no stop				1000-127	
		zinc plated m.s., with stop				1000-244	
Version B		zinc alloy, with stop				1000-387	
Housing zinc die with screw and nut, m.s. zinc plated							
Ts	H	HA	HB	Zinc alloy housing		with zinc adapter	Spacer, zinc alloy
1,5				chrome plated	black powder coated	(Flush mounted insert)	for 5 mm tolerance and screw zinc plated
-							
8	19	19	27	1000-U157	1000-U231	no need	1000-U539
20	31	31	39	1000-U158	1000-U232	1000-U164	1000-U540
26	37	37	45	1000-U247	1000-U250	1000-U198	1000-U541
30	41	41	49	1000-U159	1000-U233	1000-U165	1000-U542
40	51	51	59	1000-U160	1000-U234	1000-U166	1000-U543

See general catalogue for parts without standard page numbers (e.g. 1B-105).



System can be pre-assembled with handle or insert and retained with M6 safety nut.

Insert, m.s. zinc plated Key guide zinc die chrome plated Safety nut m.s.zinc plated	Door gauge Ts	Square adapter m.s.z.pl.	Spacer piece aluminium
Square 7	20	–	–
Square 8	40	1x1001-65	1001-69
Double bit 5	50	1x1001-66	1001-70
Adapter for internal handle m.s.zinc plated	60	1x1001-67	1001-71
	80	2x1001-66	1001-72
Int. handle polyamide black	100	2x1001-67	1001-73

Further parts see page
– Rotation prevention
– Rod control

page 58
2A-120
2B-120
2B-130
2B-180

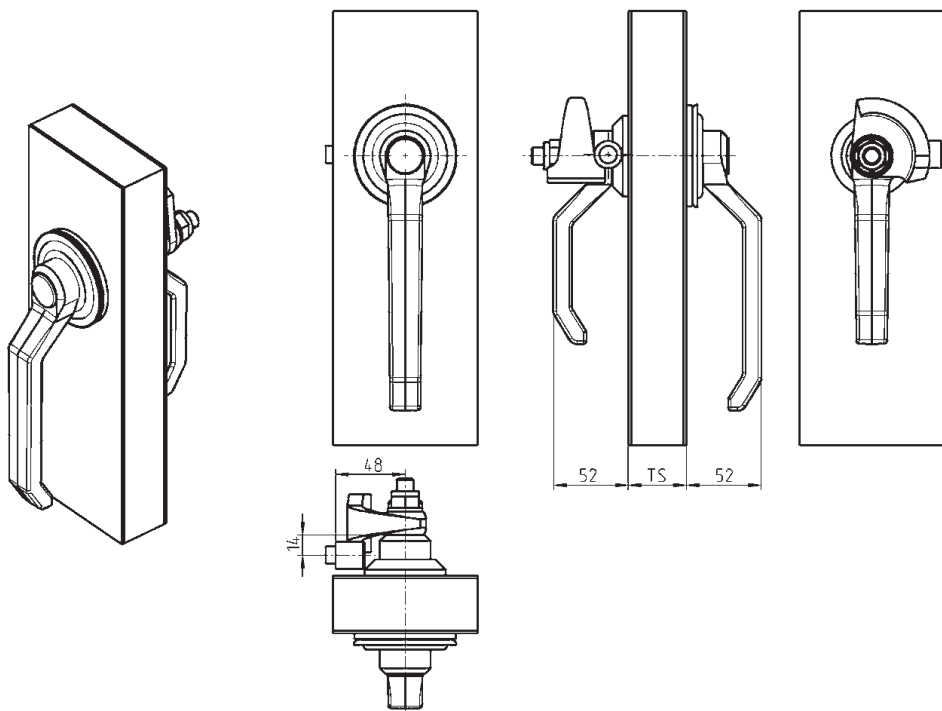
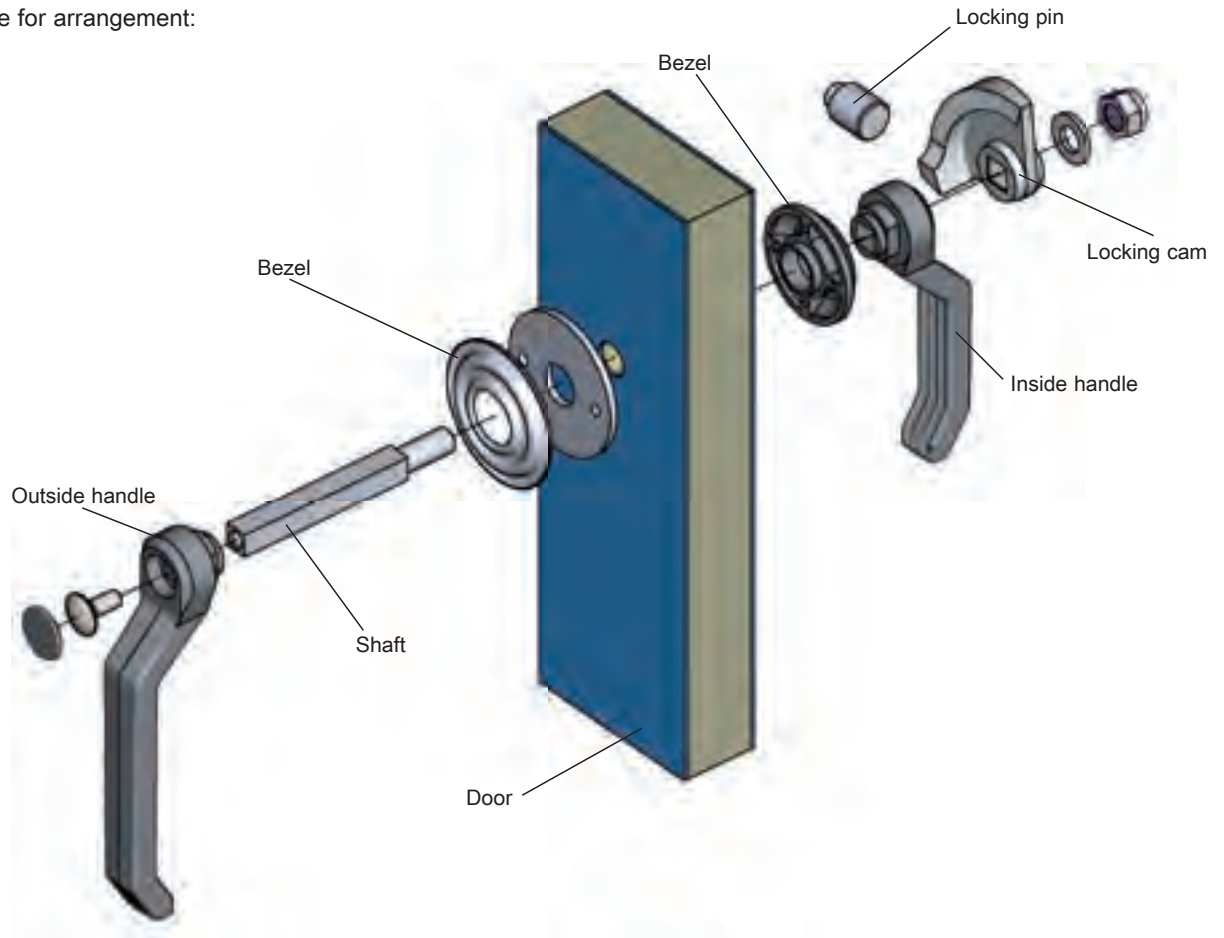
– T- or L-Handle
A = 26

2A-140

Heavy duty latch with m.s. shaft

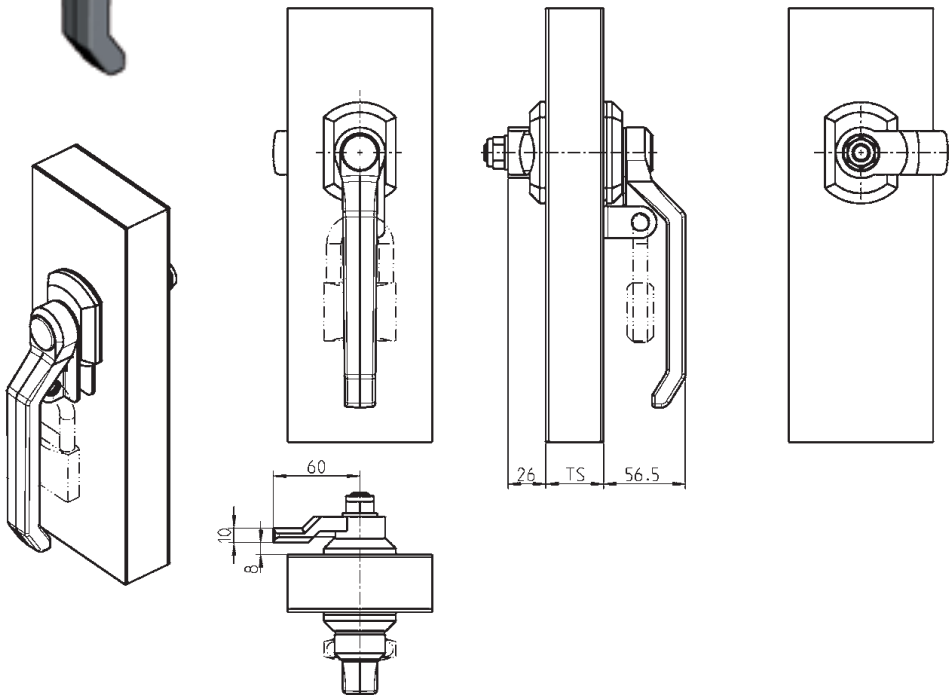
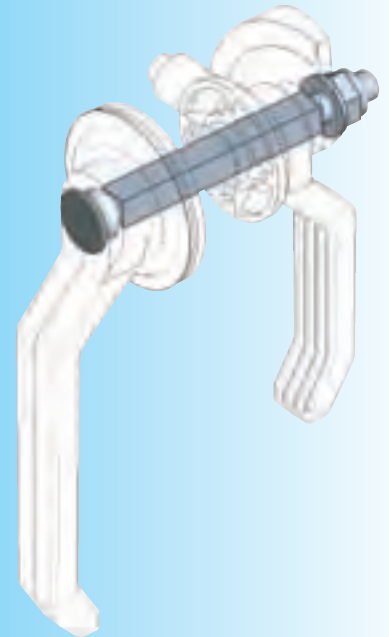
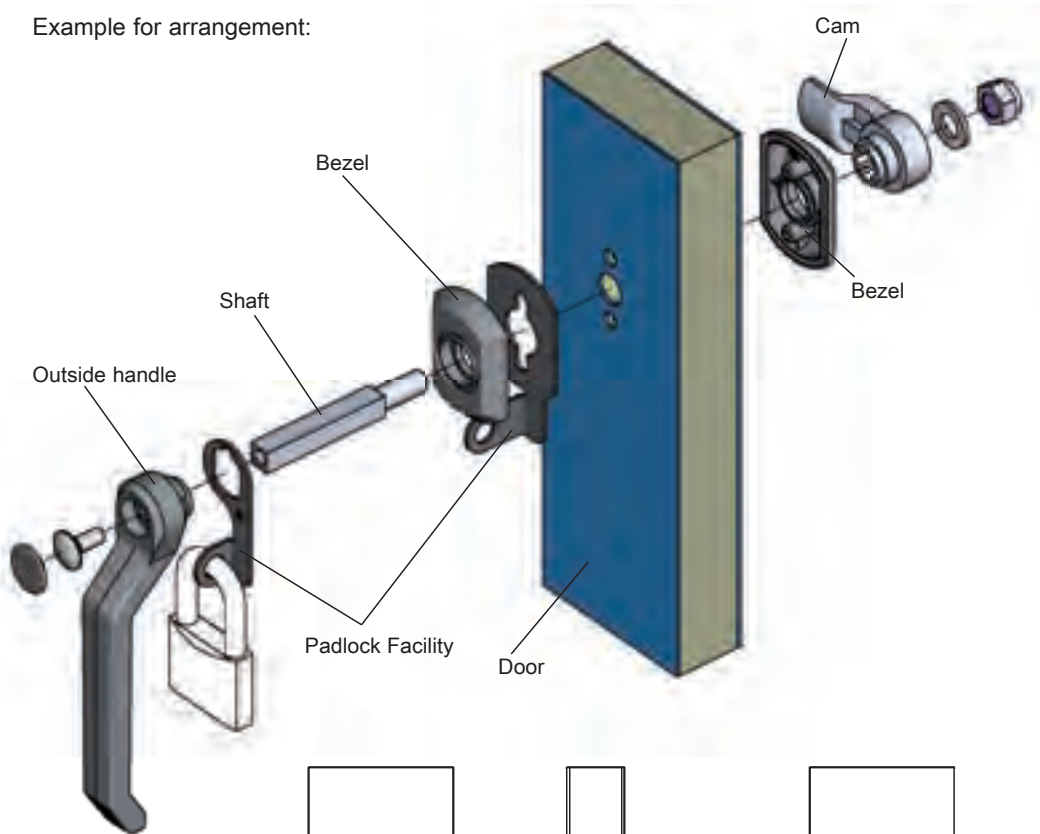
PROGRAM 1091

Example for arrangement:





Example for arrangement:



Heavy duty latch consisting of:

Shaft m.s. zinc plated, screw M8, washer A13, Nyloc nut M12, m.s. zinc plated and plastic plug black polyamide

Ts	20	30	40	50	60	80	100	Tolerance
for cam and inside handle								
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5
for cam without inside handle								
	1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13	± 10
for inside handle, or spacer and locking cam								
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14	± 5

Further parts see page

- Handle page 32
- Locking cam page 33
- Cam page 33
- Bezel page 34 - 35

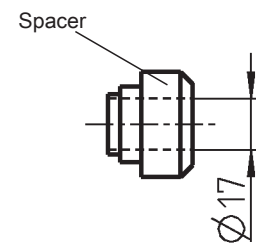
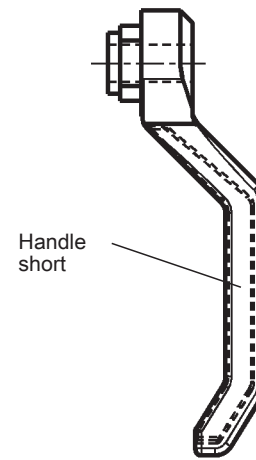
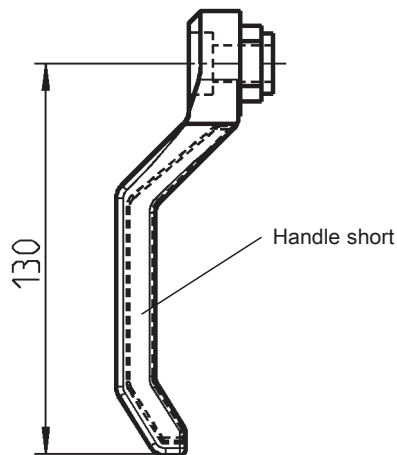
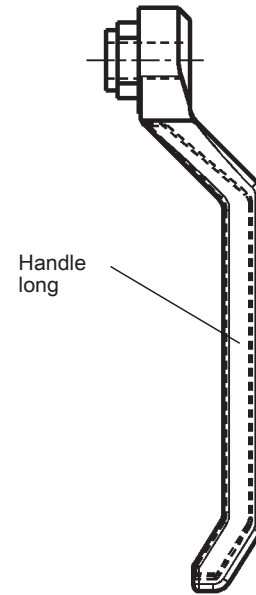
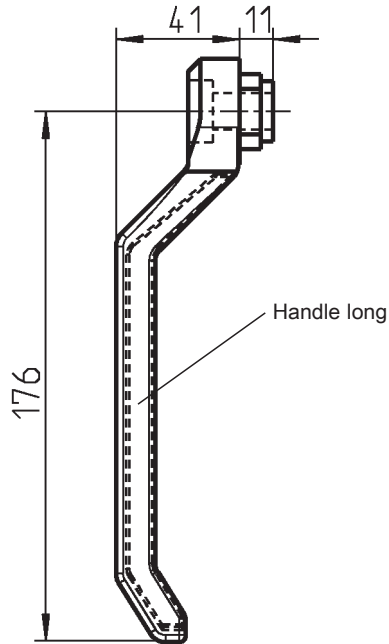
RL



Handles

Outside

Inside



Attention:

At the use of the locking cam without inside handle the spacer sleeve must be used.

Further parts see page

- Heavy duty latch page 30
- Heavy duty latch, outside the door page 39

Handle long, Polyamide black	1091-20	Handle long, Polyamide black	1091-24
Handle long, Polyamide black with embedded steel	1091-22	Handle long, Polyamide black with embedded steel	1091-26
Handle short, Polyamide black	1091-21	Handle short, Polyamide black	1091-25
Handle short, Polyamide black with embedded steel	1091-23	Handle short, Polyamide black with embedded steel	1091-27
		Spacer (replaces handle), m.s. zinc plated	1091-28

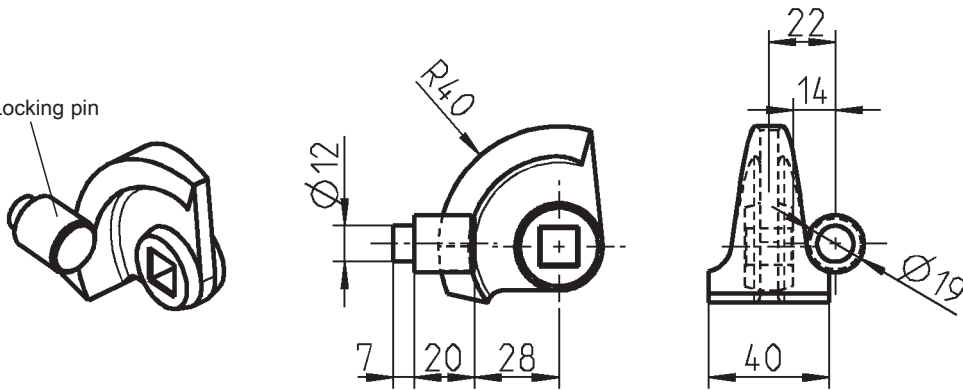
Accessories for heavy duty latch

PROGRAM 1091

Locking cam



Locking pin



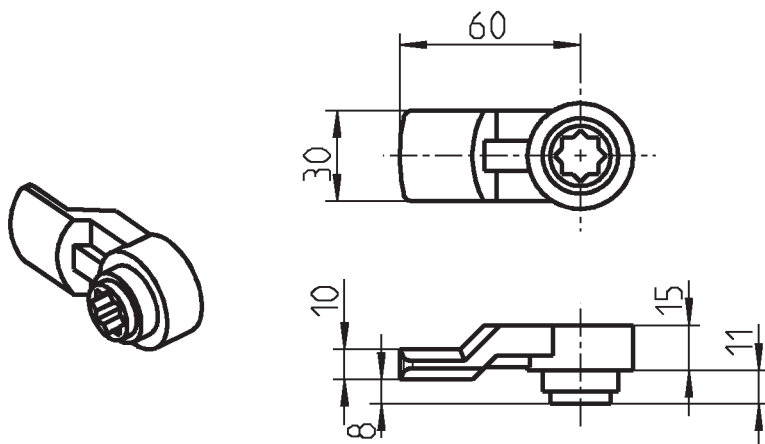
Locking cam zinc die

1091-04

Locking stud m.s. zinc plated

1091-01

Cam



Cam zinc die zinc plated

1091-18

Cam Polyamide GF Black

1091-18-01

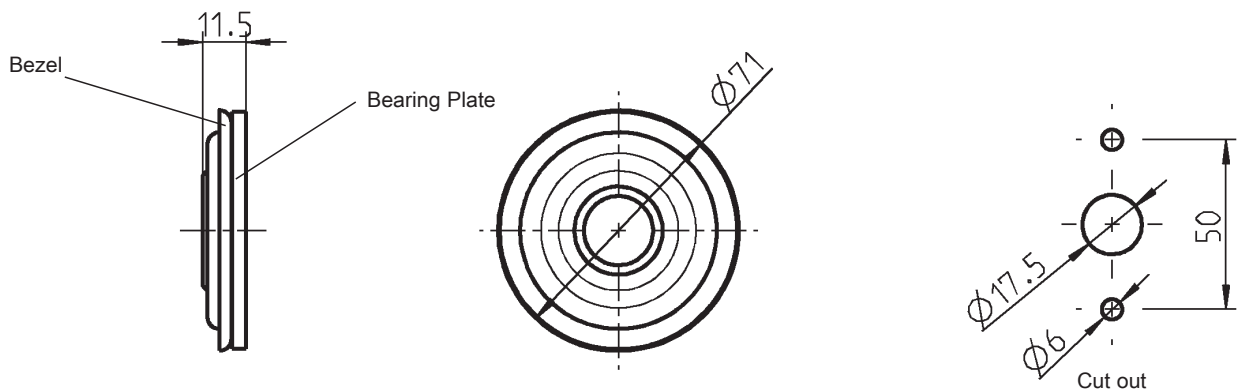
Further parts see page

– Heavy duty latch page 30

– Heavy duty latch (cam) page 39

Accessories for heavy duty latch

PROGRAM 1091

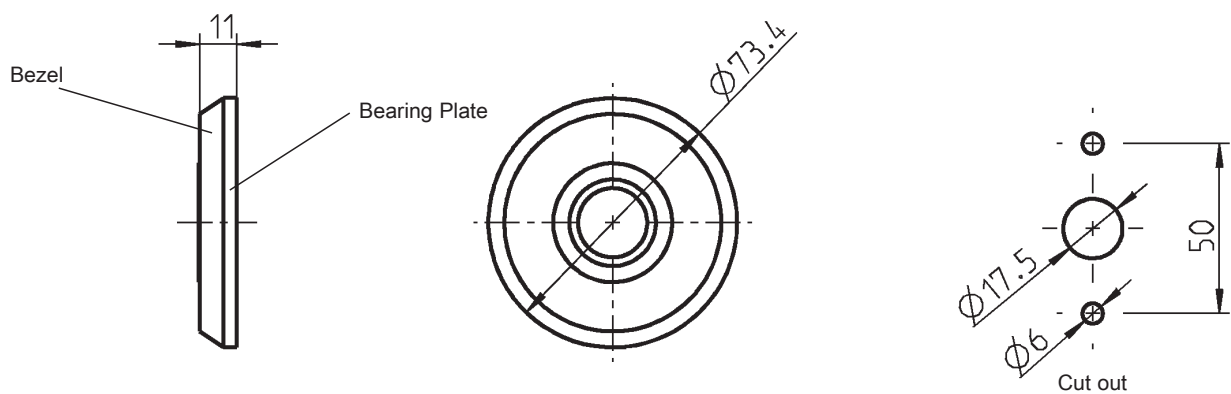


Bezel, m.s. zinc plated

1091-07

Bearing plate, m.s. zinc plated

1091-06

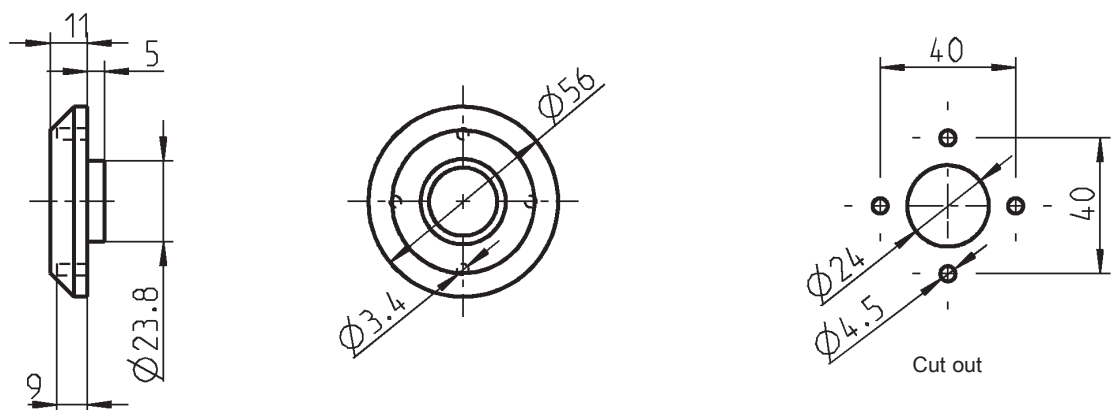


Bezel, polyamide GF black

1091-31

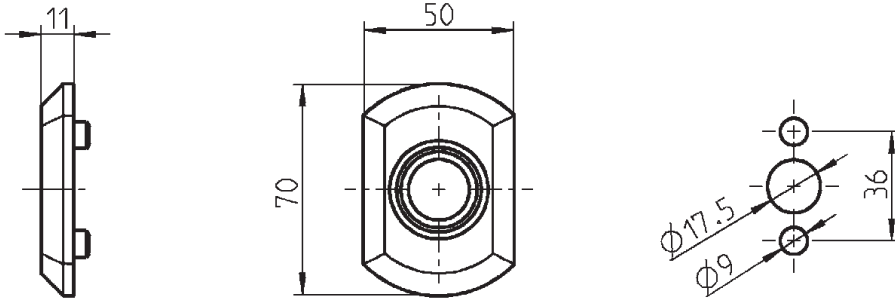
Bearing plate, m.s. zinc plated

1091-06



Bezel, polyamide GF black

1091-30



Cut out

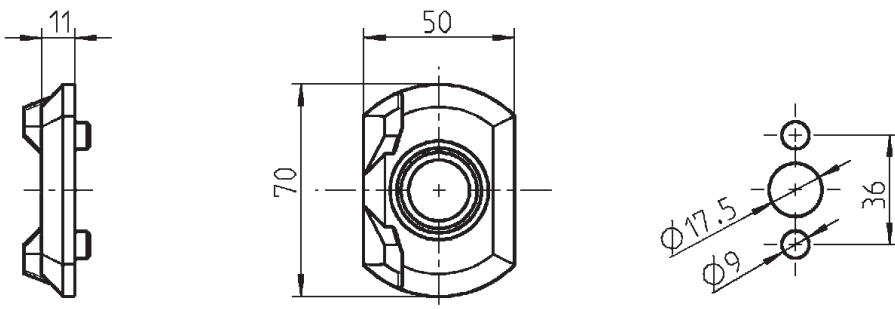
Bezel, polyamide GF black, with foamed seal

1091-17-G

IP 65 with:

set of O-ring

1091-U90



Cut out

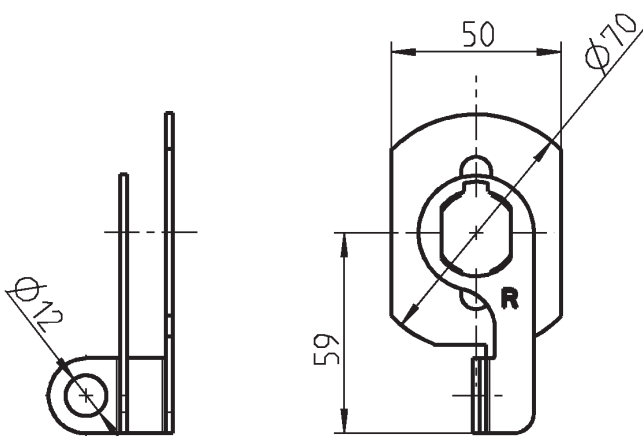
Bezel with dogs, polyamide GF black, with foamed seal

1091-17-01G

IP 65 with:

set of O-ring

1091-U90



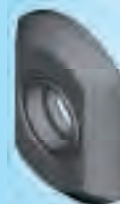
Padlock facility, m.s. black powder coated

RH version

1091-U86

LH version

1091-U87



Further parts see page

– Heavy duty latch page 30
page 36 - 38

– Bezel page 36, 38

Heavy duty latch with m.s. shaft PROGRAM 1091

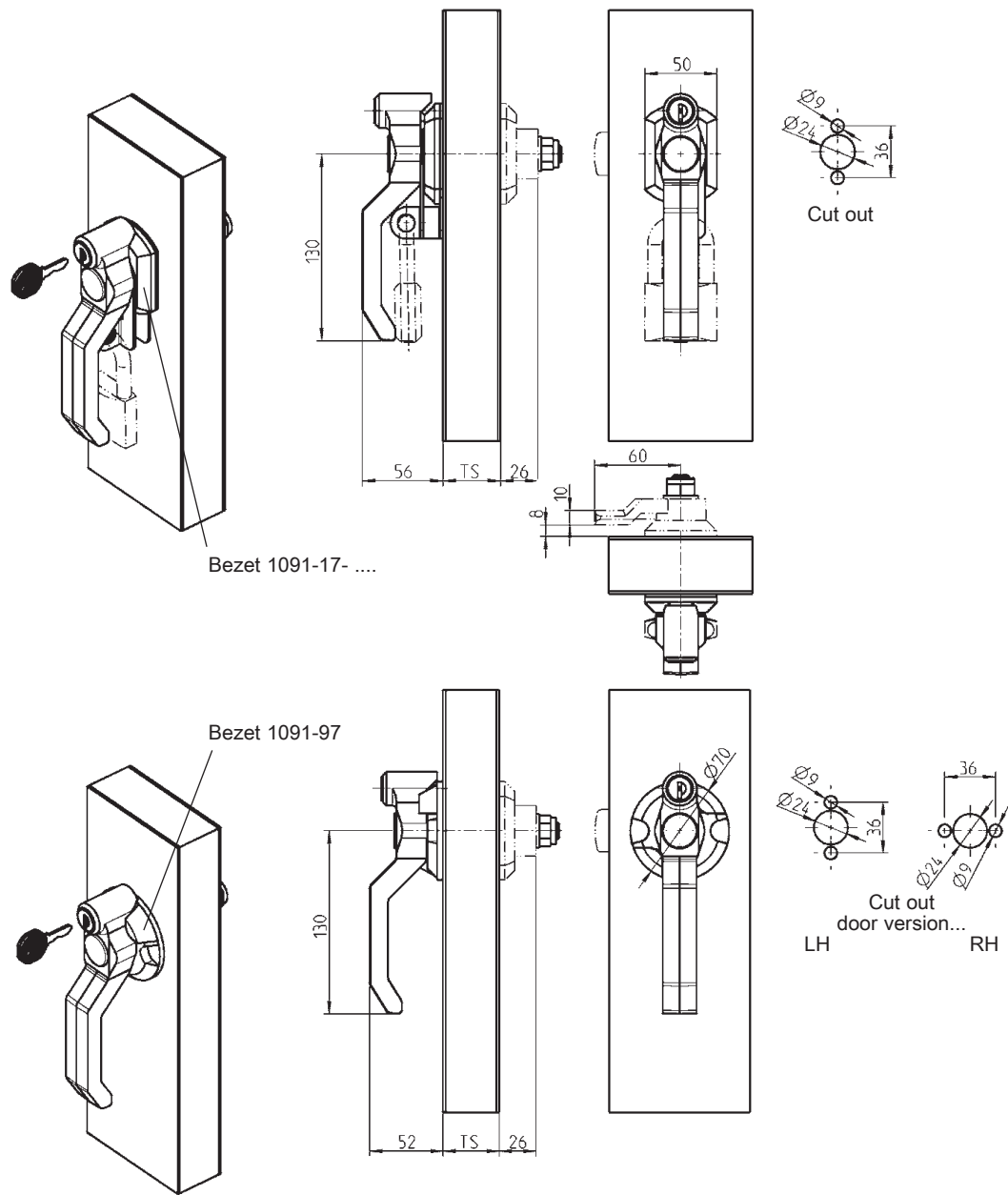


Round bezel with 90°-stopper 1091-97 also usable for unlockable handles.

Other inserts available on request

Further parts see page

- Spacer page 32
- Cam page 33
- Locking cam page 33
- Padlock facility page 35
- Key page 57
- Spare key 12B-140



Handle Polyamide GF black for m.s. shaft, round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated

keyed EK 333	1091-U50	keyed different	1091-U51
Square 7	1091-U52	Square 8	1091-U53
Triangular 8	1091-U54	Double bit 3	1091-U55
Double bit 5	1091-U56	Slot 2 x 4	1091-U57

**(order separately)
Bezel Polyamide black for lockable handle**

180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05	90°-stopper, round bezel	1091-97

Shaft m.s., screw, nut M12 and washer A13 m.s. zinc plated, blind plug Polyamide GF black

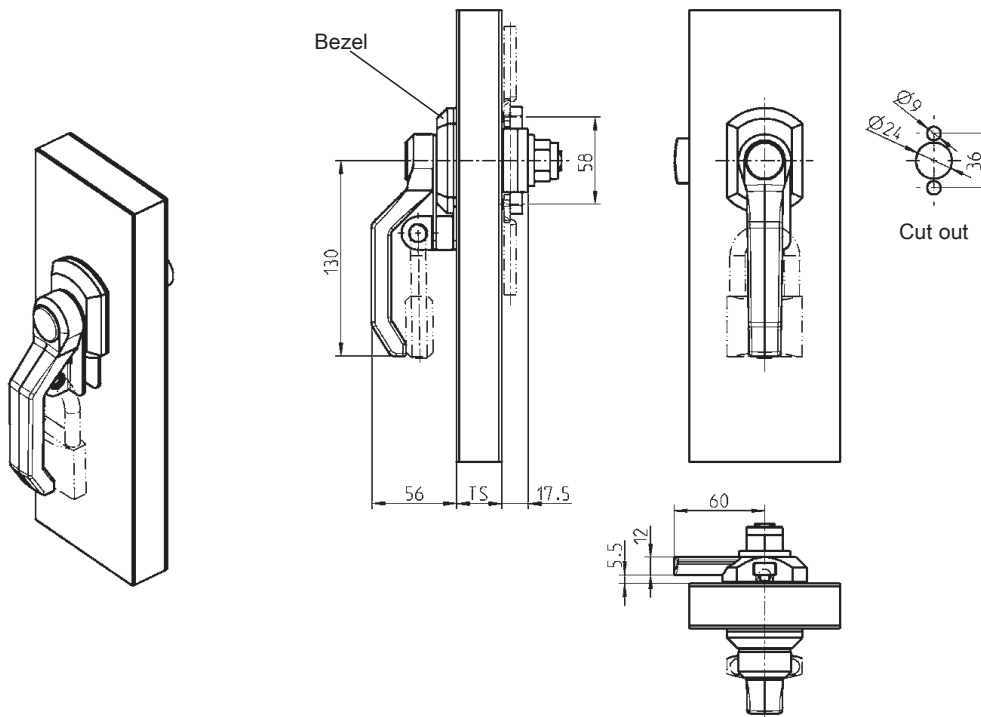
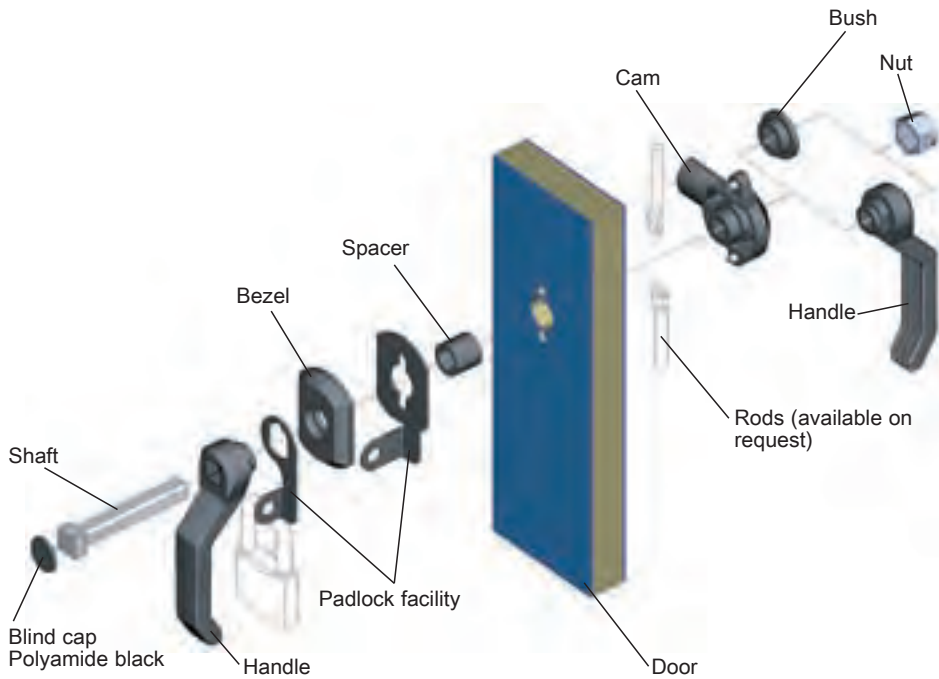
Ts	20	30	40	50	60	80	100
for cam							
	1091-U6	1091-U7	1091-U8	1091-U9	1091-U10	1091-U12	1091-U13
for spacer and locking cam							
	1091-U8	1091-U9	1091-U10	1091-U11	1091-U12	1091-U13	1091-U14

See general catalogue for parts without standard page numbers (e.g. 1B-105).

Heavy duty latch with zinc die shaft

PROGRAM 1091

Example for arrangement



Attention:
If an internal handle is installed, the maximum door gauge is reduced by 10 mm

Handle Polymide GF black (outside and inside)

1091-42

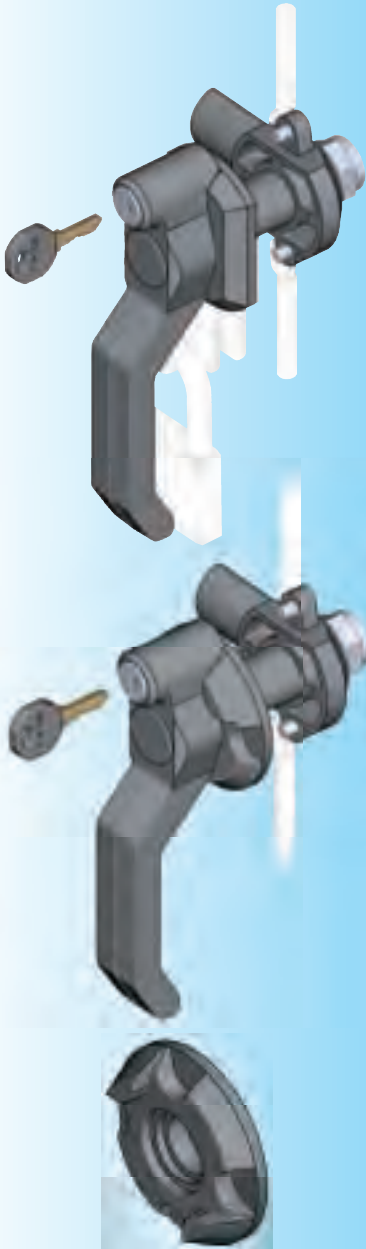
Shaft zinc die, Nut m.s.zinc plated, cam, spacer, bush and blind plug Polyamide GF black

Ts	10 – 30	31 – 50	51 – 70
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

Further parts see page

- Bezel page 34 - 35
- Padlock facility page 35
- rods on request

Heavy duty latch with zinc die shaft PROGRAM 1091

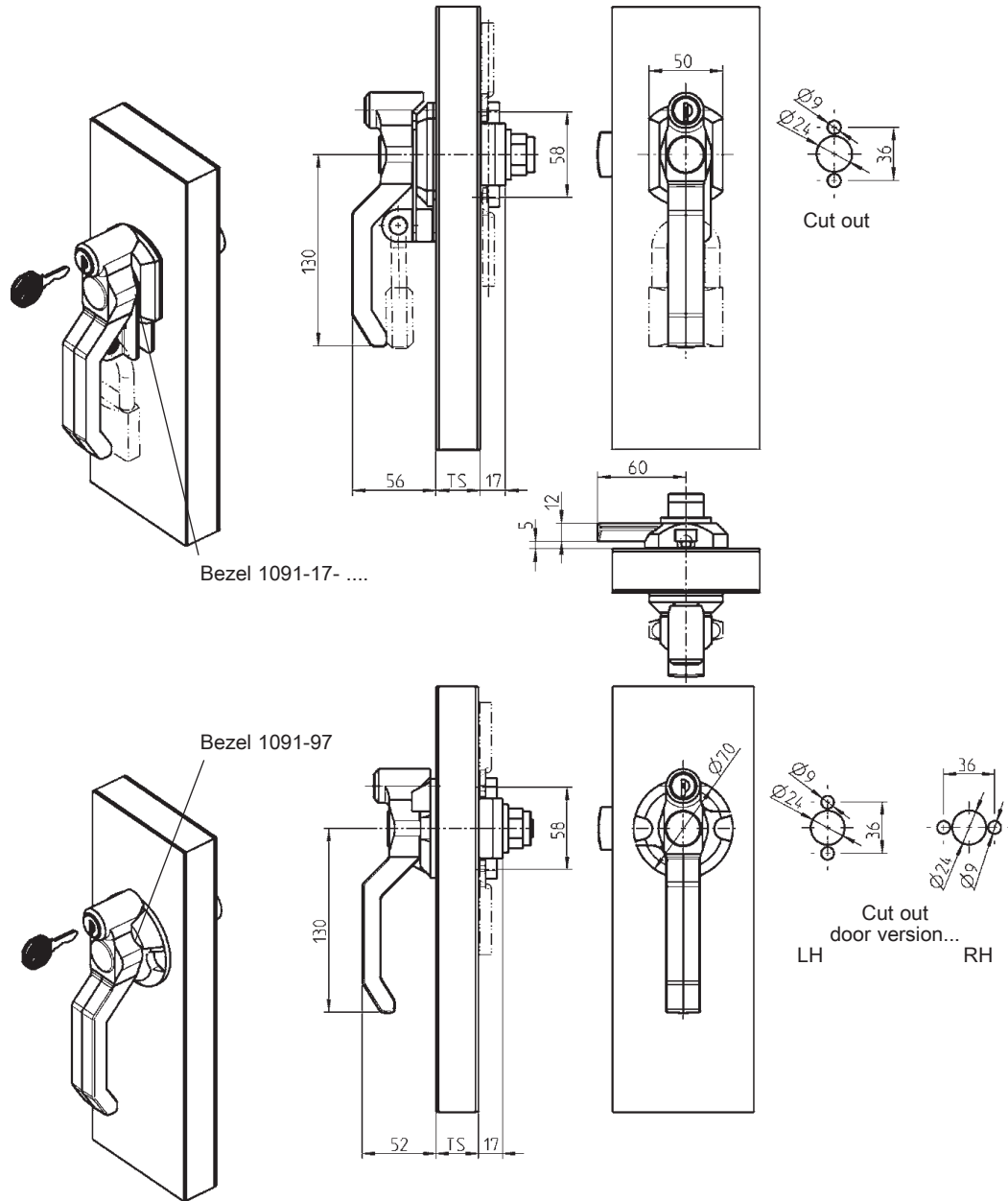


Round bezel with 90°-stopper 1091-97 also usable for unlockable handles.

Other inserts available on request!

Further parts see page

- Padlock facility page 35
- Key page 57
- Rod on request
- Spare key 12B-140



Handle Polyamide GF black for zinc die shaft, round cylinder zinc die with stainless steel cap and dust cover, insert zinc die chrome plated

keyed EK 333	1091-U72	keyed different	1091-U73
Square 7	1091-U74	Square 8	1091-U75
Triangular 8	1091-U76	Double bit 3	1091-U77
Double bit 5	1091-U78	Slot 2 x 4	1091-U79

(order separately)

Bezel Polyamide black for lockable handle

180°-stopper	1091-17-03	90°-stopper, LH	1091-17-04
90°-stopper, RH	1091-17-05	90°-stop, round bezel	1091-97

Shaft zinc die, nut M12 m.s., cam, spacer, bush and blind plug Polyamide GF black

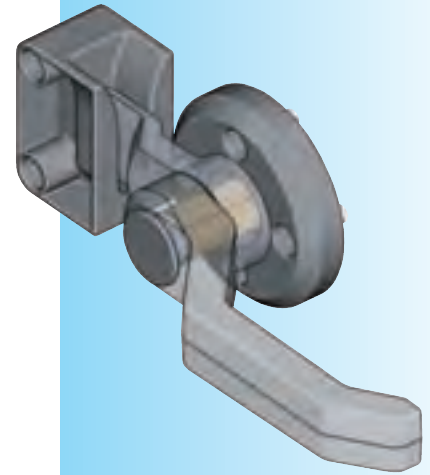
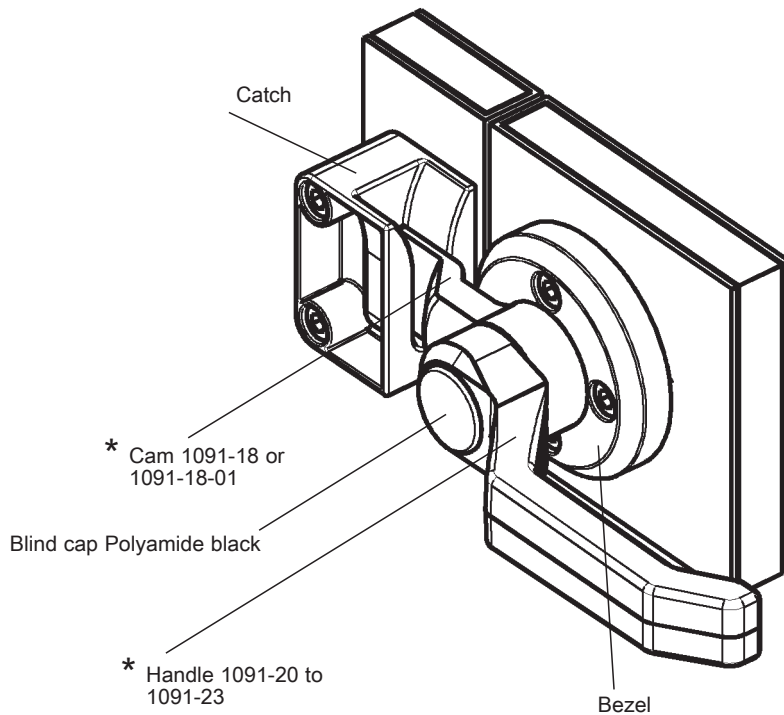
Ts	10 - 30	31 - 50	51 - 70
with single point cam	1091-U80	1091-U81	1091-U82
with 3-point cam	1091-U83	1091-U84	1091-U85

See general catalogue for parts without standard page numbers (e.g. 1B-105).

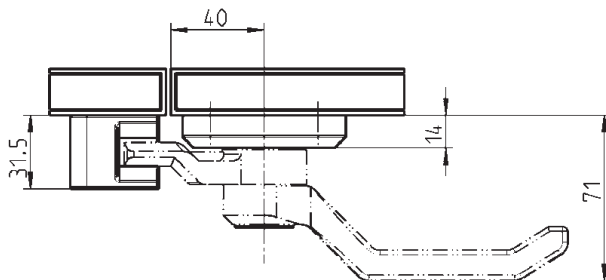
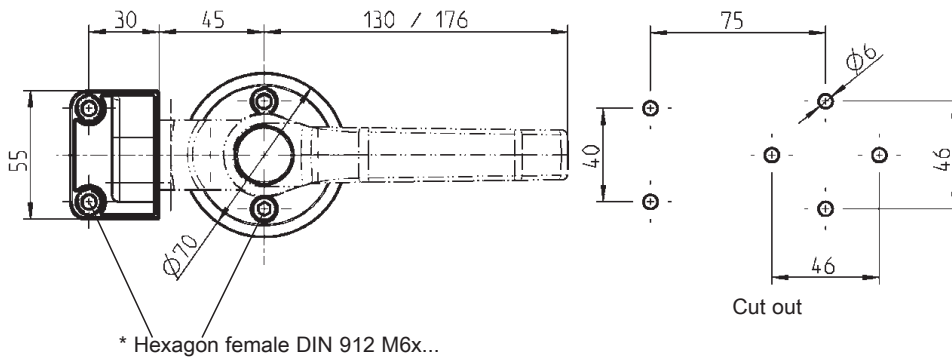
Heavy Duty latch, outside the door

PROGRAM 1091

Beschlagteile



Combination of:
1091-U121; 1091-96,
handle 1091-21 and
cam 1091-18



* must order separately

Bezel and blind plug Polyamide GF black. Shaft brass, fixing m.s. zinc plated

1091-U121

Catch Polyamide GF black

1091-96

Further parts see page

– Outside handle

page 32

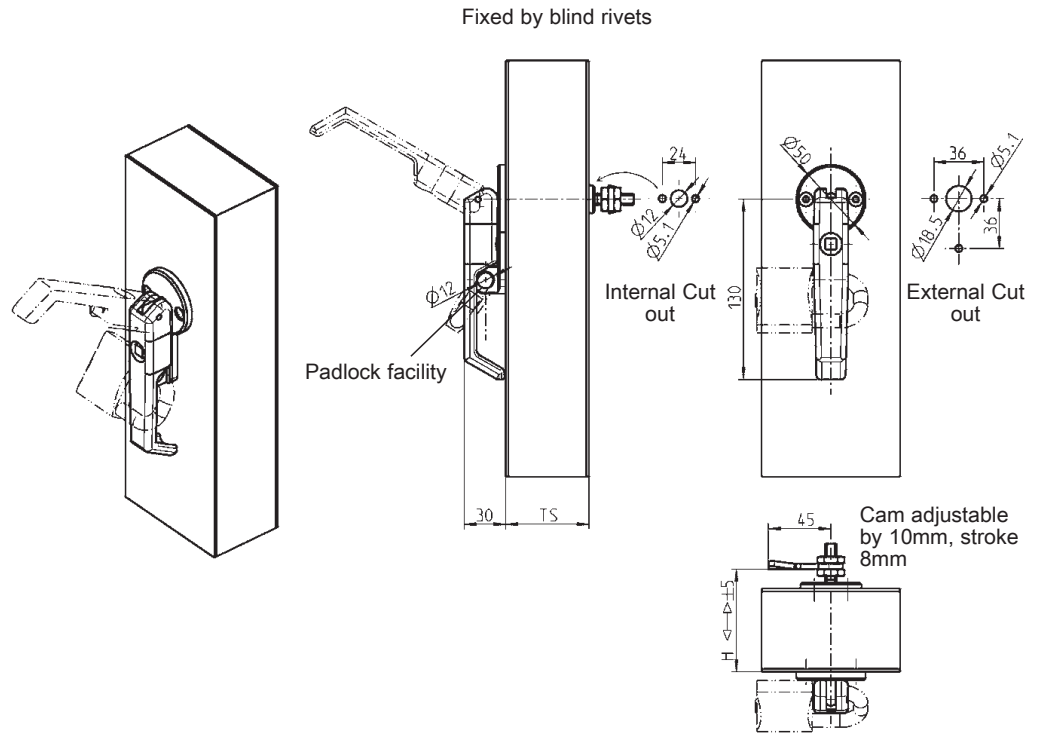
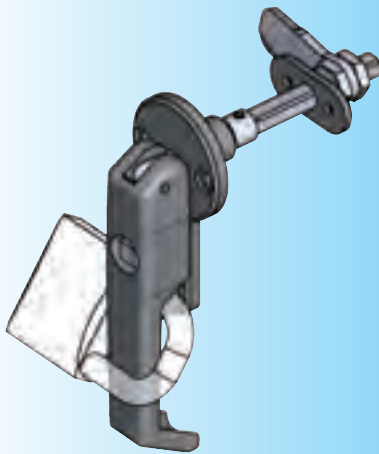
– Cam

page 33

See general catalogue for parts without standard page numbers (e.g. 1B-105).

10A-420

(6B-190)



Lift and turn handle consisting of Handle Polyamide GF black with shaft m.s. zinc plated, back plate zinc die black, cam for insert m.s. zinc plated, bearing plate zinc die zinc plated, rivets and nuts

1091-U95

Cam m.s. zinc plated

straight	1000-203
cranked 10 mm	1000-392
cranked 20 mm	1000-391
cranked 30 mm	1000-390

Inserts: Chrome plated zinc alloy

Square 6	1121-U11	Double bit 5	1121-U17
Square 7	1121-U12	Daimler Benz	1121-U18
Square 8	1121-U13	Slot 2 x 4	1121-U123
Triangular 7	1121-U14	Eastern European Ø 13 dia	1121-U143
Triangular 8	1121-U15	Blind plug	1091-83
Double bit 3	1121-U16	Assembly	1000-990

Shaft m.s. zinc plated (to be pinned to the handle boss)

Ts max.	H-dim. depends on the cam				
	1000 – 390	1000 – 391	1000 – 392	1000 – 203	
40	20 – 30	30 – 40	40 – 50	50 – 60	1091-59-01
60	40 – 50	50 – 60	60 – 70	70 – 80	1091-59-02
80	60 – 70	70 – 80	80 – 90	90 – 100	1091-59-03
100	80 – 90	90 – 100	100 – 110	110 – 120	1091-59-04
120	100 – 110	110 – 120	120 – 130	130 – 140	1091-59-05
140	120 – 130	130 – 140	140 – 150	150 – 160	1091-59-06

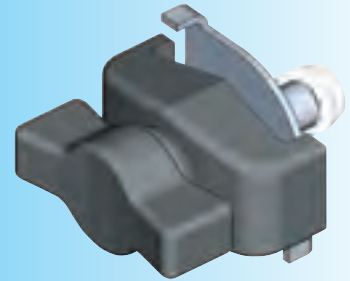
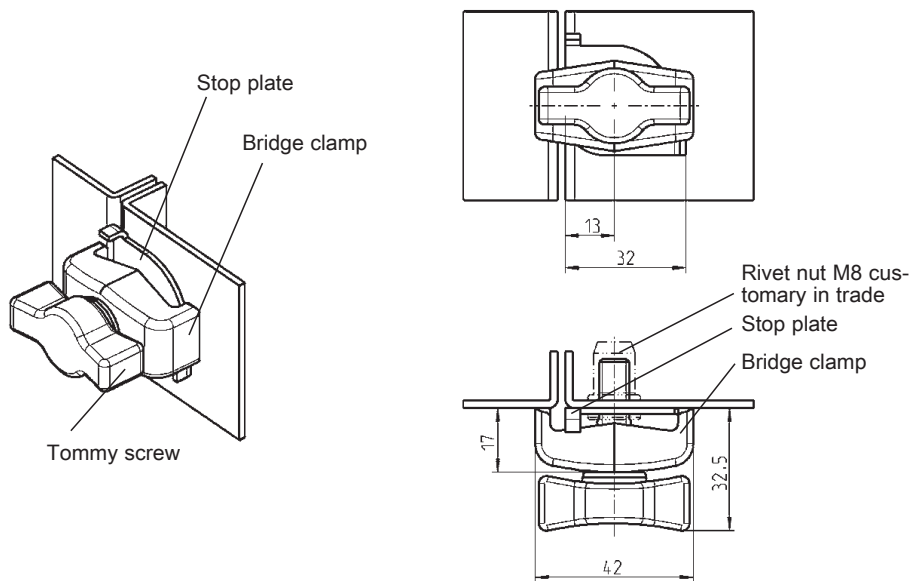
Further parts see page
– Key

page 57

Bridge clamp system

PROGRAM 1076

Bridge clamp system



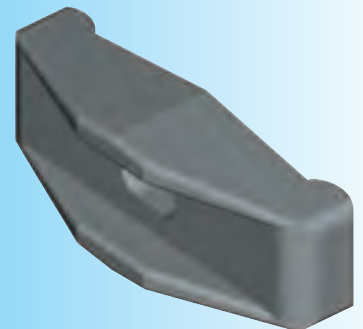
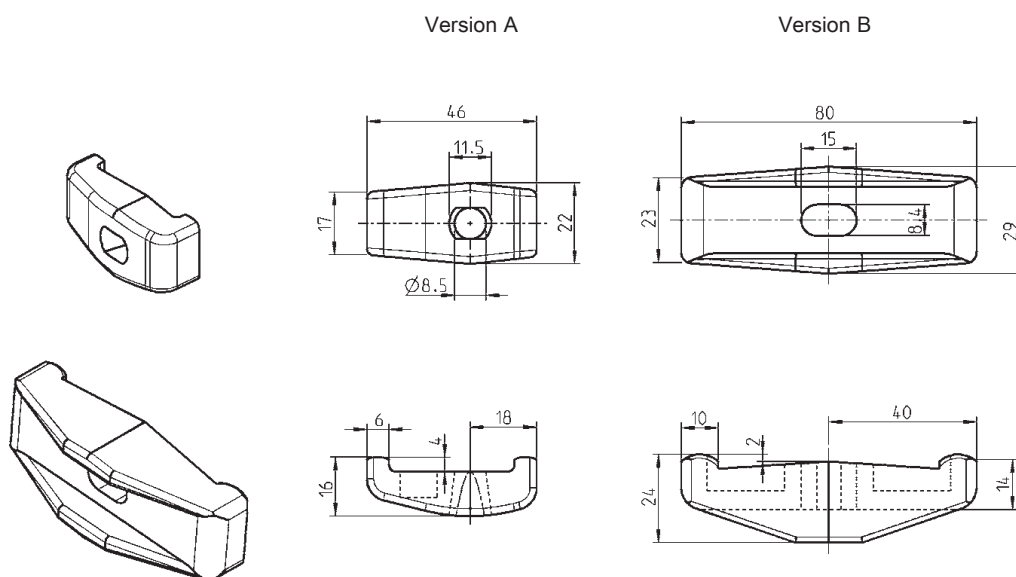
Bridge clamp system consisting of:

Bridge clamp polyamide black	1076-14
Tommy screw m.s. zinc pl./polyamide black	1076-15
Stop bracket m.s. zinc. pl.	1076-16

Captive with:

O-ring	1076-25
--------	---------

Bridge clamp



Bridge clamp polyamide black

	Version A	Version B
	1076-19	1076-20



small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

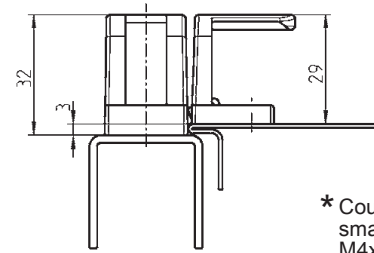
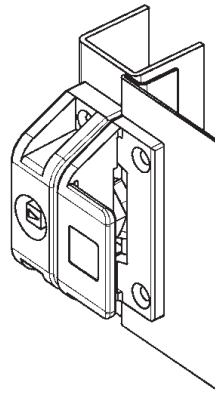
* not included

Further parts see page
- Key page 57

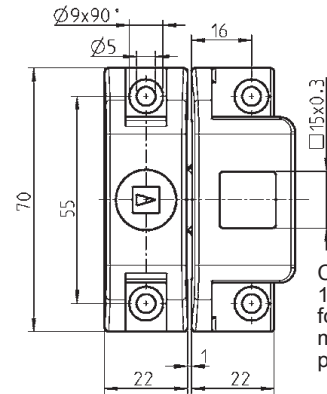


Assembling:
Hammer the fastening bolts until flush.

Cam lock



* Counter sunk small head M4x ...



Cavity 15 x 15 x 0.3 for logo; multicolour print possible

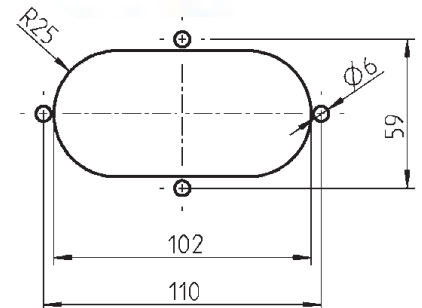
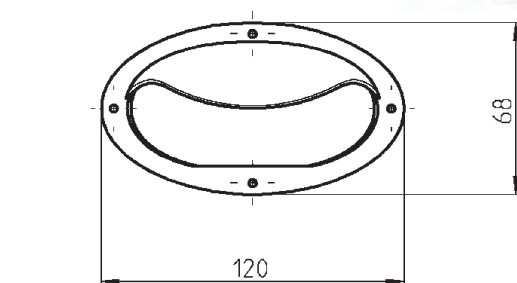
Cam lock polyamide black, insert zinc die chrome pl. cam, screw and wave washer m.s. zinc pl.

Square 7	1076-U5	Double bit 3	1076-U9
Square 8	1076-U6	Double bit 5	1076-U10
Triangular 7	1076-U7	Hexagon female 10	1076-U11
Triangular 8	1076-U8	Slot 2 x 4	1076-U12

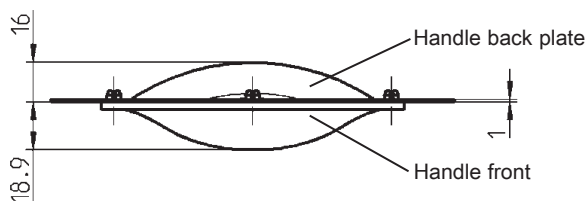
Handle back plate

Fastening bolt

Handle front



Cut out (outside)



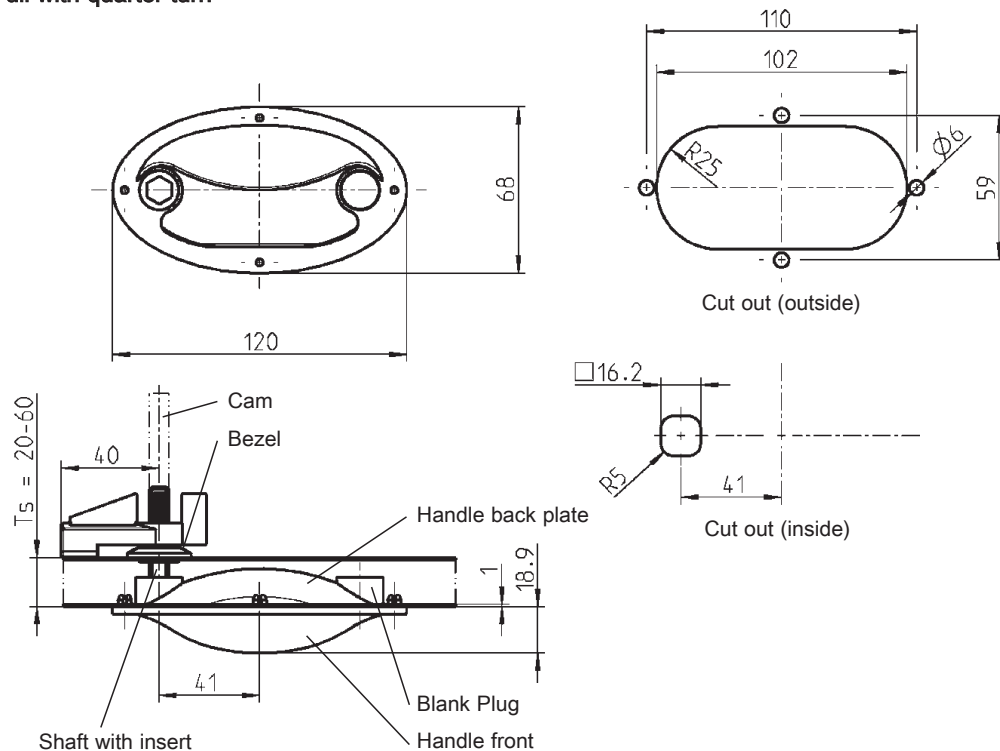
Pull Handle Polyamide GF black

1091-U97

Pull with quarter turn, 180° hinge

PROGRAM 1091

Pull with quarter turn



RL

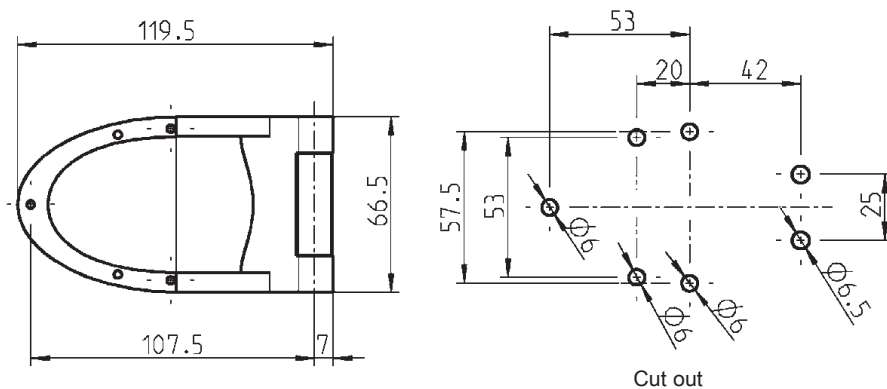


Handle, shaft, bezel, cam and plug Polyamide GF black with seal

Version with shaft for Ts = 20-30 mm	1091-U98
Version with shaft Ts = 20-60 mm	1091-U98-01

Assembling:

Hammer the fastening bolts until flush. Cam is clipped to shaft. The quarter turn can be opened with standard male hexagon key SW10 (acc. to DIN ISO 2936).



180° hinge Polyamide black, pin m.s. zinc plated

1091-U96

Assembling:

Door part fixings are hammered flush. Frame part is fixed with M6 screws.

10A-820, 10A-840

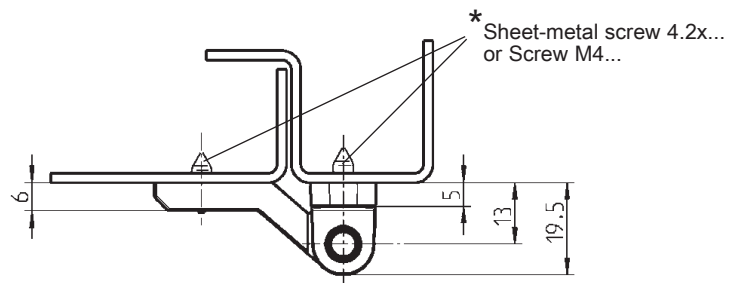
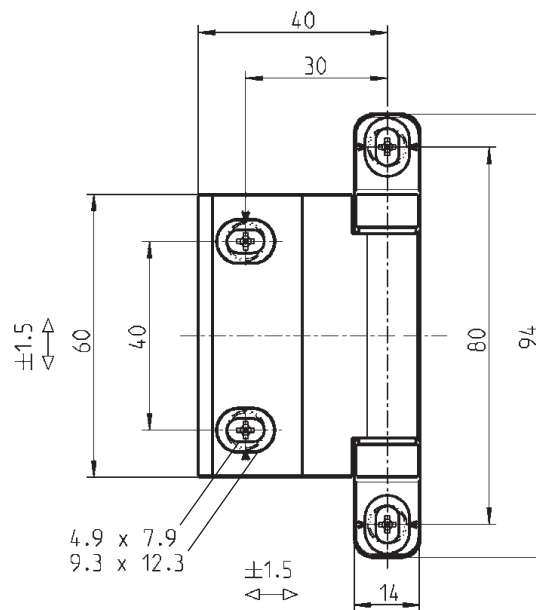
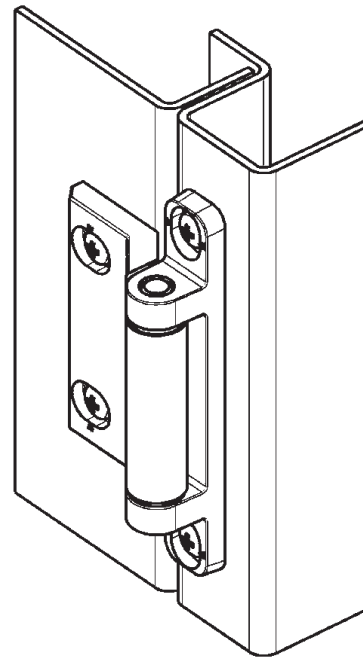
(6B-280, 6B-285)



Frame part

The door part can be changed with the door part of pages 44 and 45

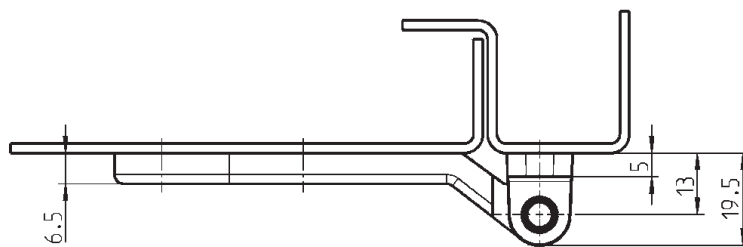
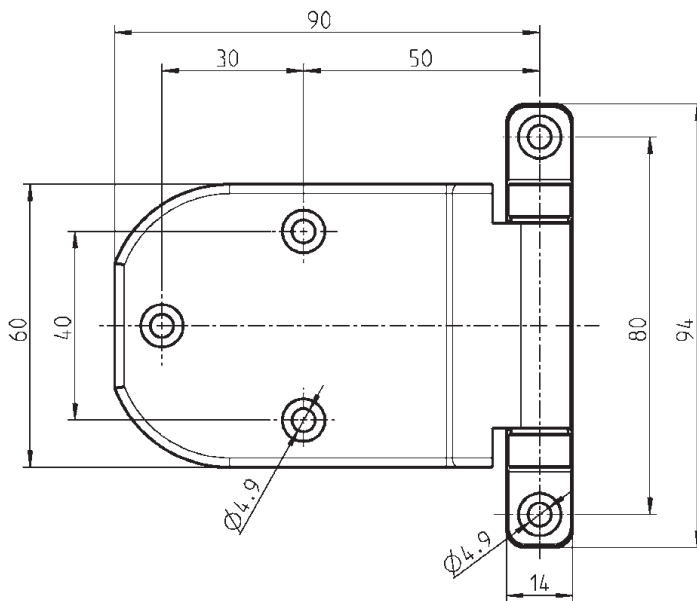
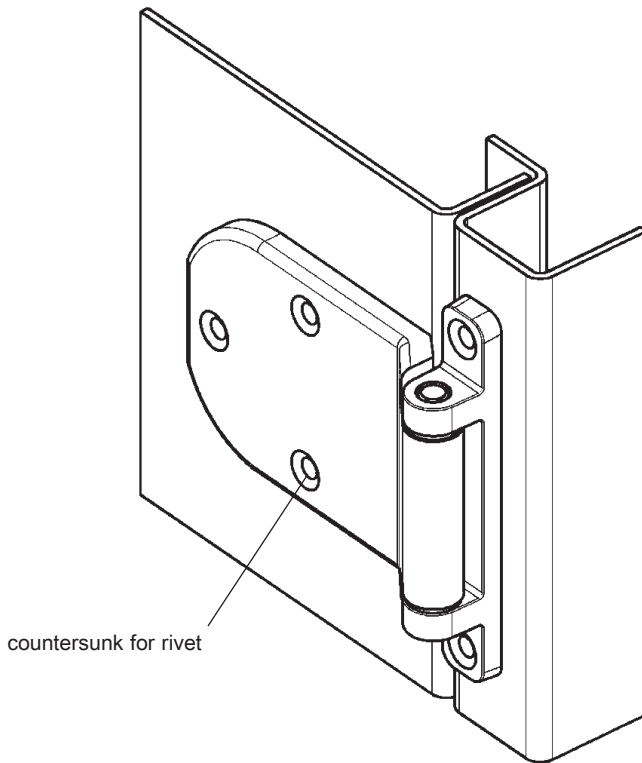
* not included



180° 2D Hinge zinc die black p.c., hinge pin stainl. steel, bushes polyamide

1054-U37

180° hinge
PROGRAM 1054

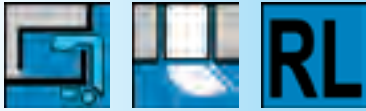


Frame part

The door part can be changed with the door part of pages 44 and 45

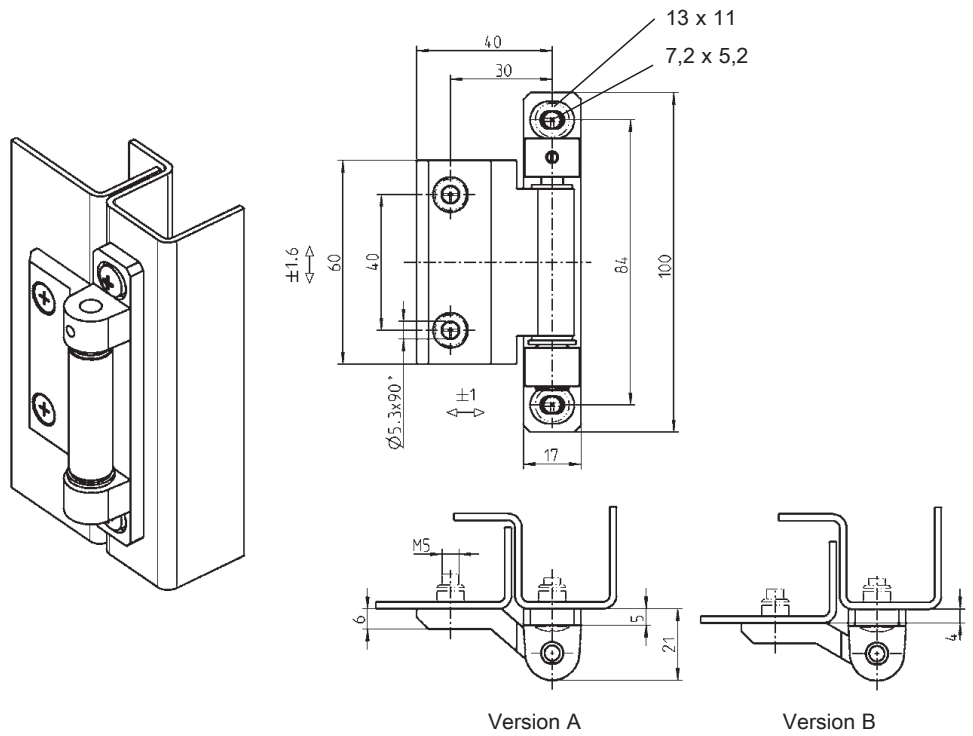
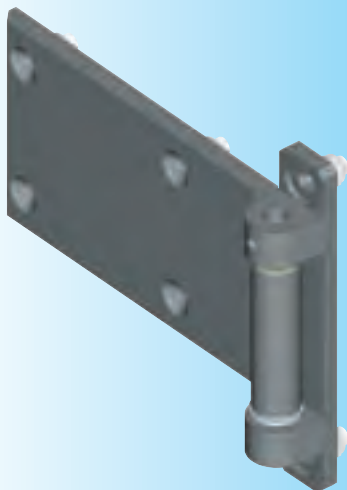
180° Hinge zinc die black p.c., hinge pin stainl. steel, bushes polyamide
with countersunk for rivet

1054-U38

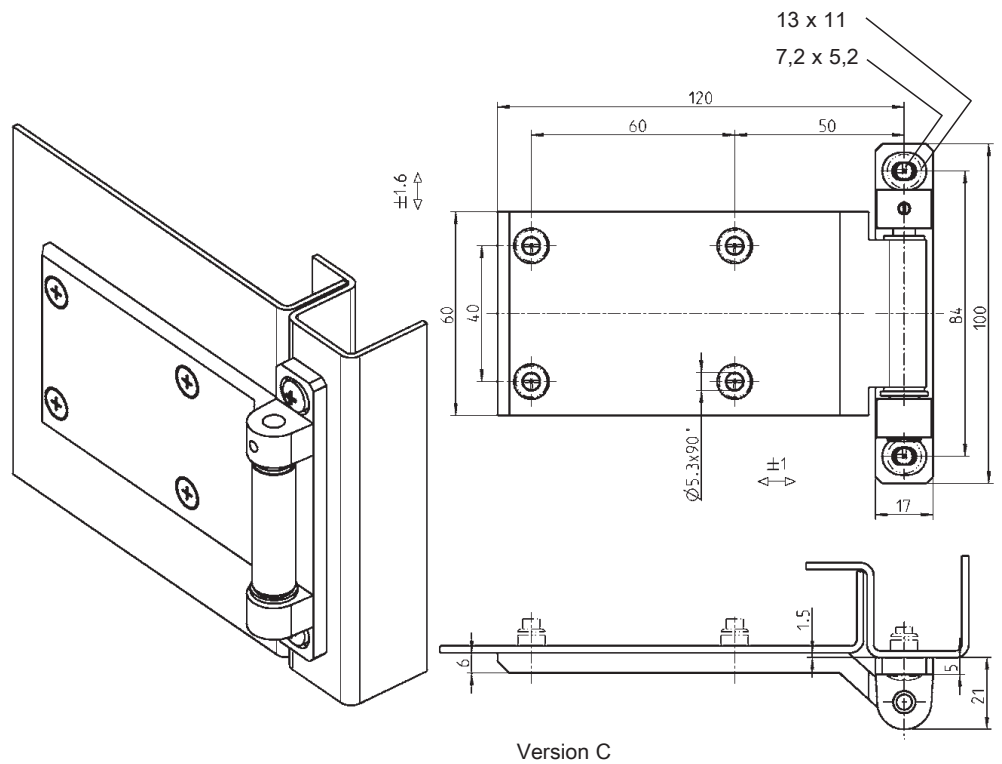


RH- or LH-version by turning around the door part

Hinge pin is self-gripping



Countersunks for countersunk screw small head M5x . . .



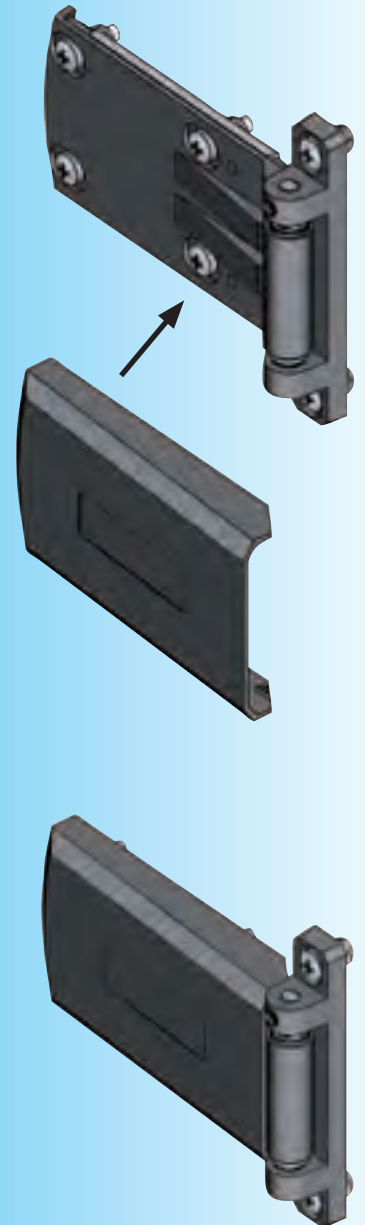
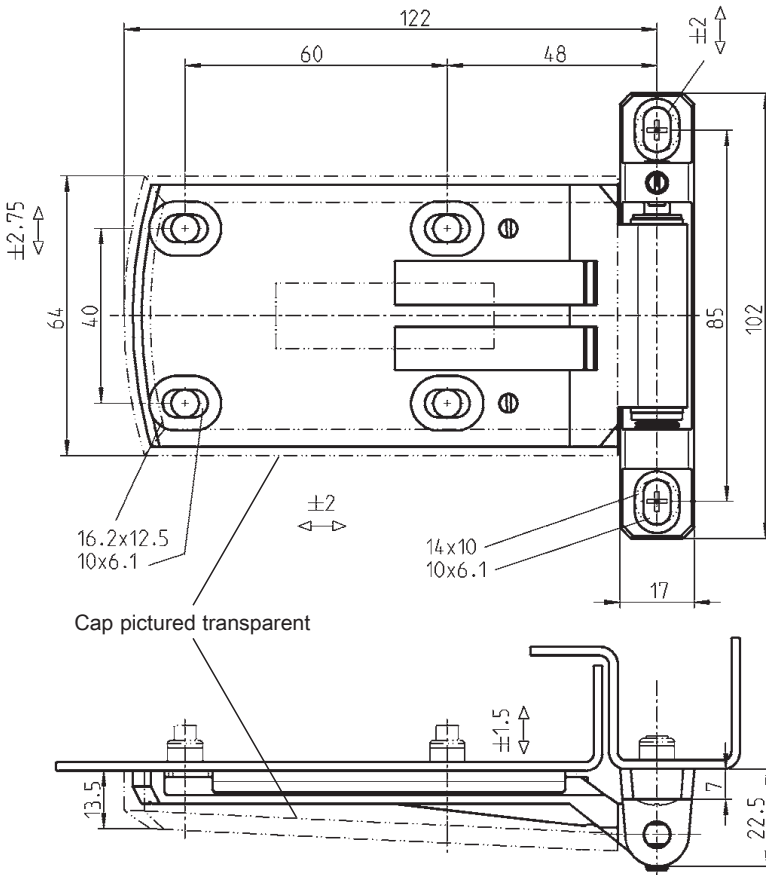
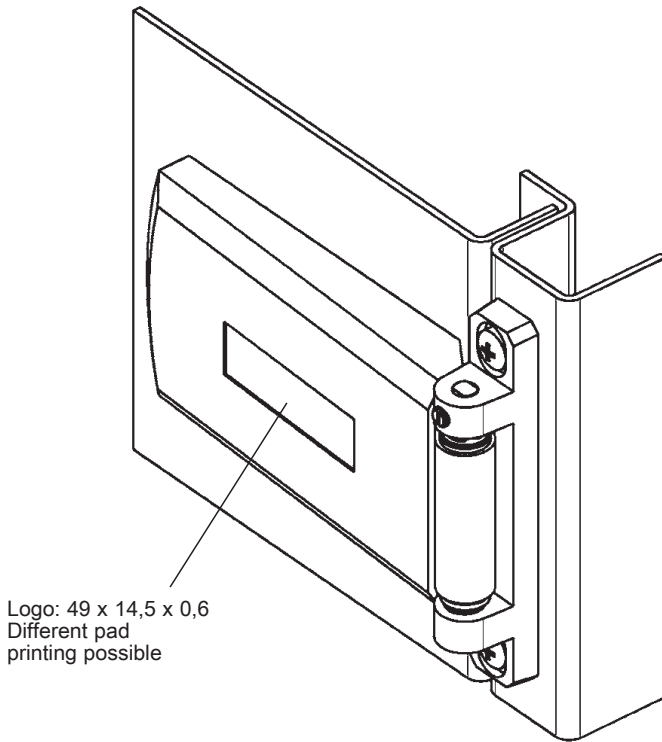
small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

2D-screw-on hinge zinc die, axle brass nickel pl., washer m.s. zinc pl. and bush polyamide

	Version A	Version B	Version C
black powder coated	1054-U33-01	1054-U34-01	1054-U35-01
raw	1054-U33-02	1054-U34-02	1054-U35-02

180° 3D-screw-on hinge

PROGRAM 1054



3D-screw-on hinge zinc die black, axle stainless steel, pin and washer steel zinc pl., cap and bush polyamide black

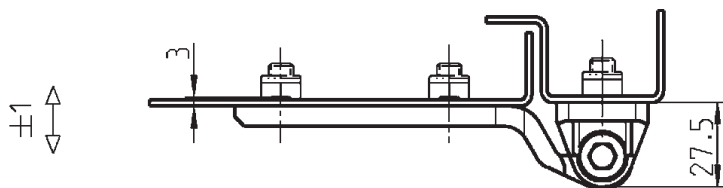
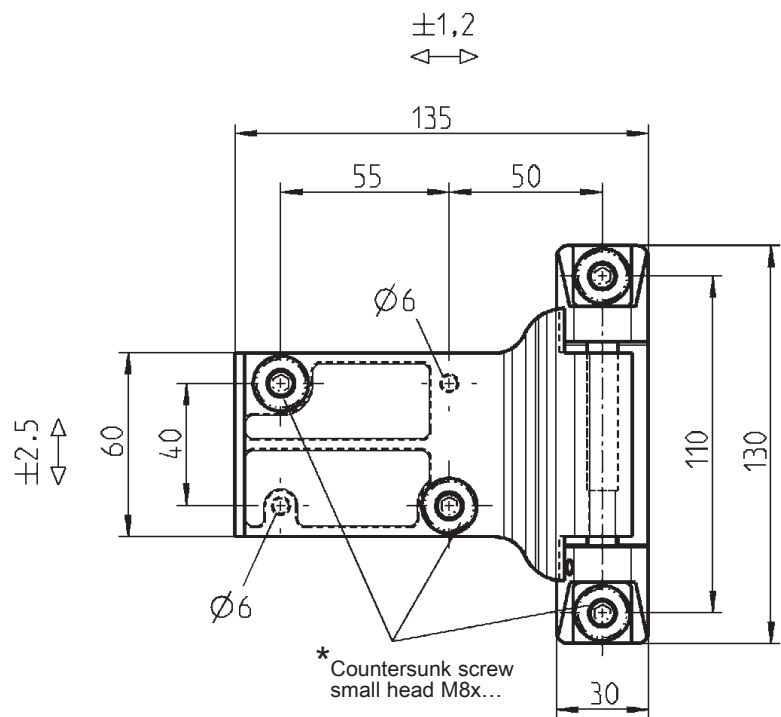
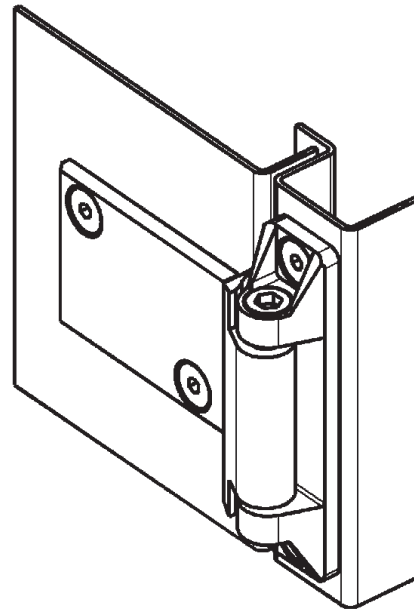
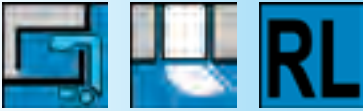
RH version

1054-U36-RE

LH version

1054-U36-LI

RH- or LH-version by turning around the door part



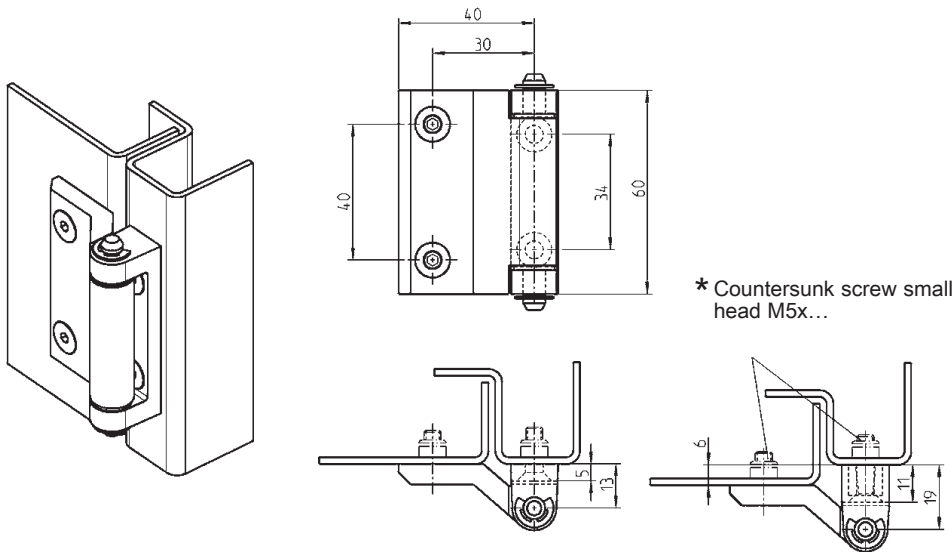
* not included

small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

3D-screw-on hinge zinc die, shaft and grub screw stainless steel

	LH version	RH version
black powder coated	1054-U32	1054-U31
raw	1054-U32-01	1054-U31-01

180° screw-on hinge PROGRAM 1054



Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

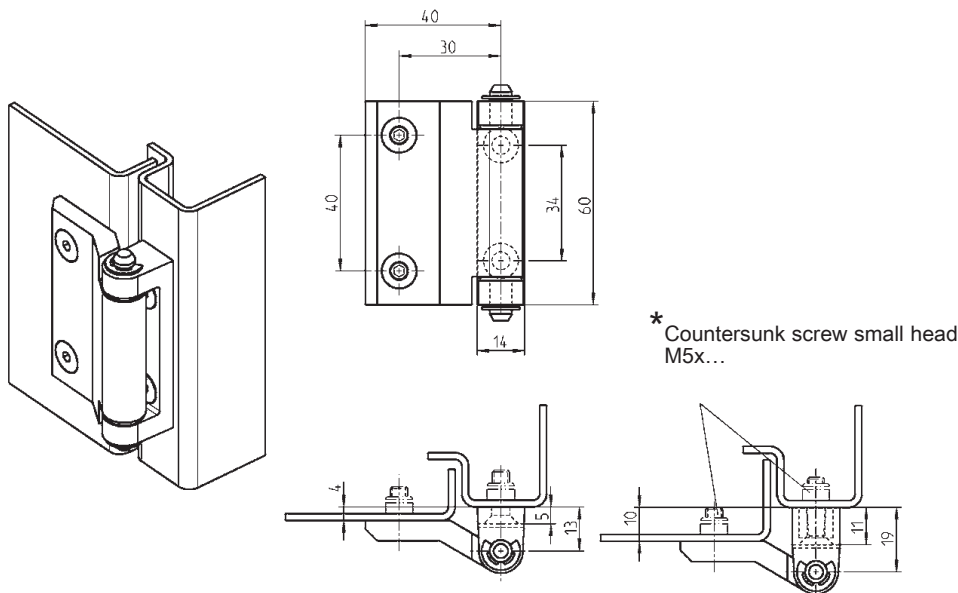
	level	6 mm higher
chrome plated	1054-U4	1054-U27
black powder coated	1054-U5	1054-U28
raw	1054-U22**	1054-U29**

** = Minimum order quantity 1000 pcs.



Frame part

Door part is interchangeable with door parts of pages 44 and 45.



Screw-on hinge zinc die, pin and washer m.s. zinc pl. and bush polyamide

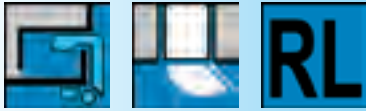
	4 mm higher	10 mm higher
chrome plated	1054-U7	1054-U19
black powder coated	1054-U10	1054-U20
raw	1054-U18**	1054-U21**

** = Minimum order quantity 1000 pcs.



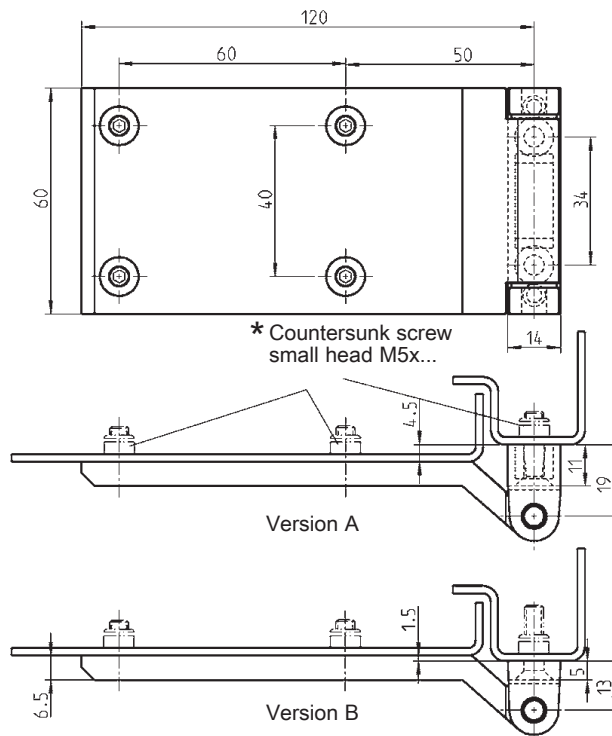
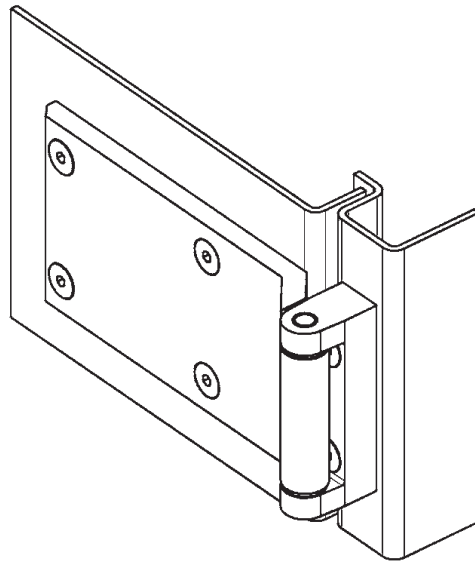
* not included

small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047



Frame part

The door part can be changed with the door part of pages 44 and 45



* not included

small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

Screw-on hinge zinc die, pin stainless steel and bushes polyamide

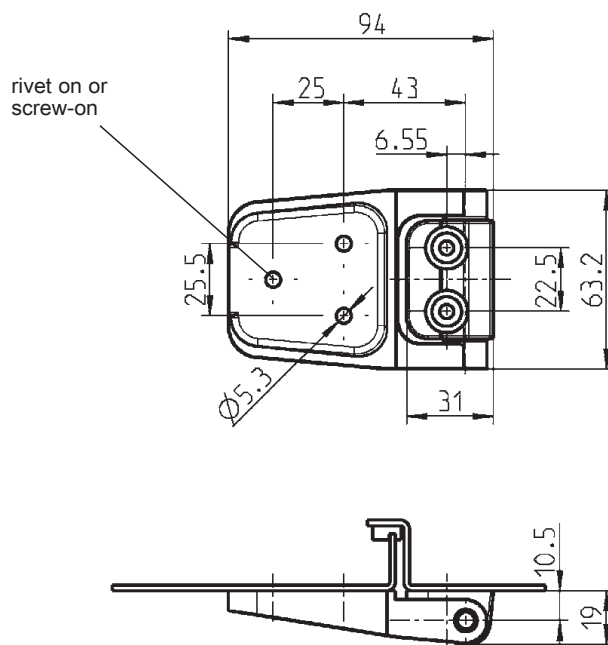
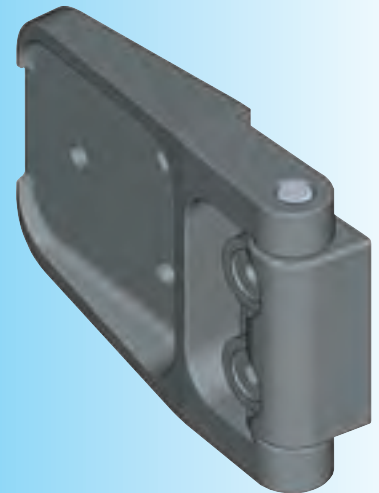
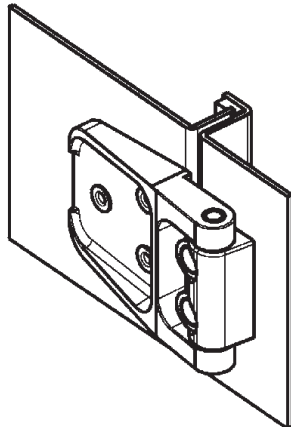
	Version A	Version B
black powder coated	1054-U11	1054-U6
raw	1054-U13**	1054-U12**

** = Minimum order quantity 1000 pcs.

Hinge

PROGRAM 1091

180° hinge for in-line cabinets with single door

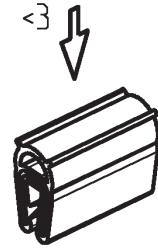


Application
for double skin doors

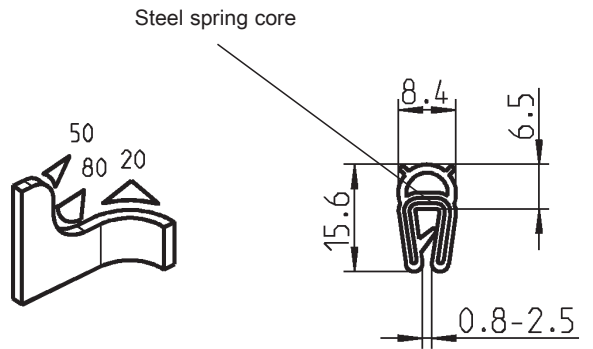
Hinge polyamide GF black, pin m.s. zinc pl.

1091-U117

According to VDI 6022

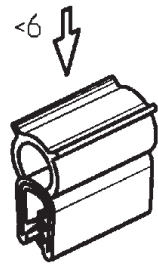
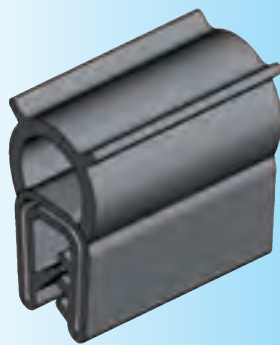


compression

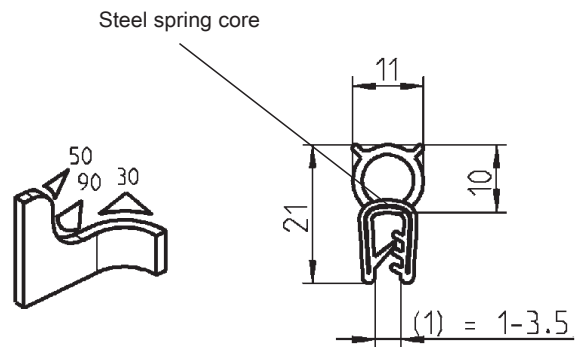


Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-10-09

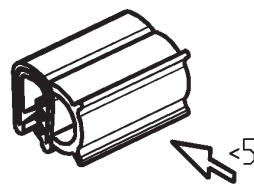
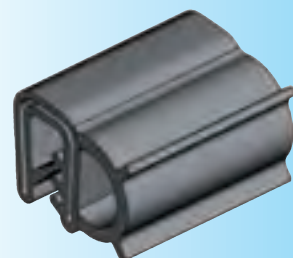


compression

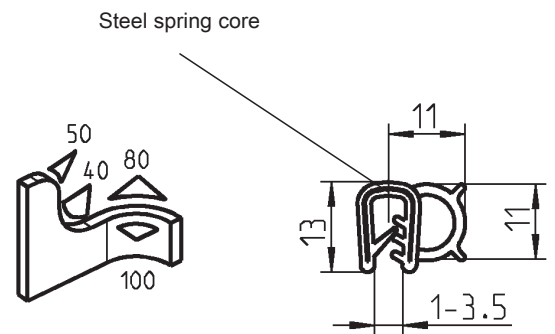


Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-05-09



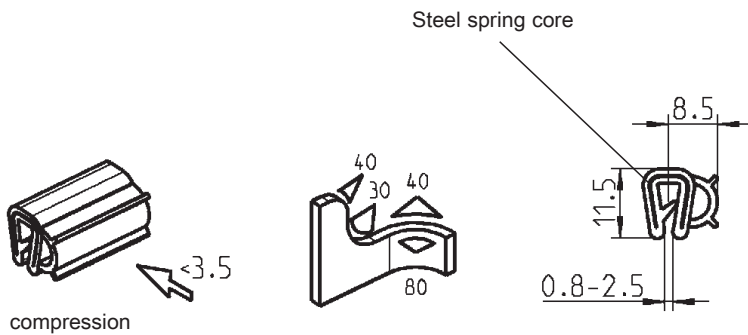
compression



Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-06-09

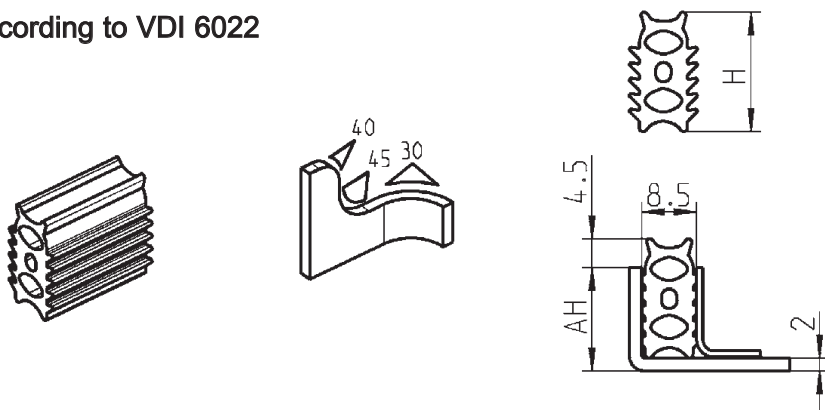
According to VDI 6022



Hollow section (EPDM) black $45^\circ \pm 5$ Shore A
Clamping profile (EPDM) black $60^\circ \pm 5$ Shore A

1011-09-09

According to VDI 6022



4 lip gasket (EPDM) black 45° Shore A

AH	Height H	
16	18,5	1003-11-N9
18	20,5	1003-12-N9

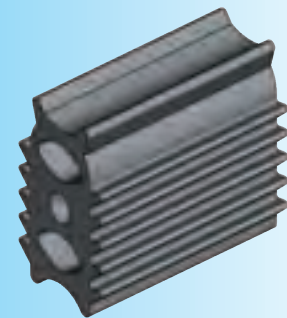
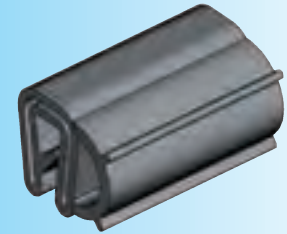
Information on VDI Guideline 6022:

Hygienic standards for ventilation and air-conditioning systems

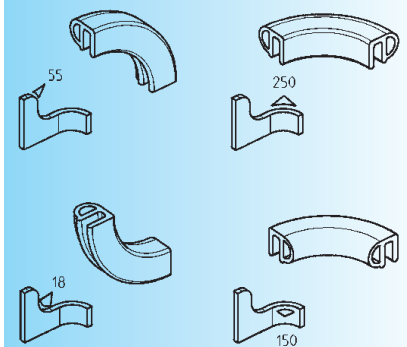
In guideline 6022 issued by "Verein Deutscher Ingenieure" (VDI) – Association of German Engineers – you can find a description of the minimum hygienic standards for ventilation and air conditioning systems. The guideline formulates requirements that have to be observed for planning, installation, operation and maintenance of ventilation and airconditioning systems in order to guarantee absolute faultless hygienic condition of the systems as well as the outside air inlets for the air-conditioned premises.

VDI guideline 6022 is valid for the domain of builders, architects, engineers, ventilation planners, manufacturers of air-conditioning systems, machine builders, authorising bodies, operators, service companies, stakeholders of room users (e.g. staff associations or committees as well as company physicians and public health officers).

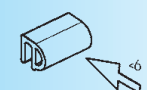
In line with the latest technical development and scientific knowledge, this guideline is intended to guarantee a precise operation and condition of ventilation and air-conditioning systems by means of preventive technical provisions.



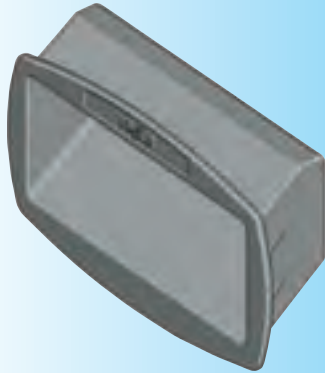
Minimum bending radius



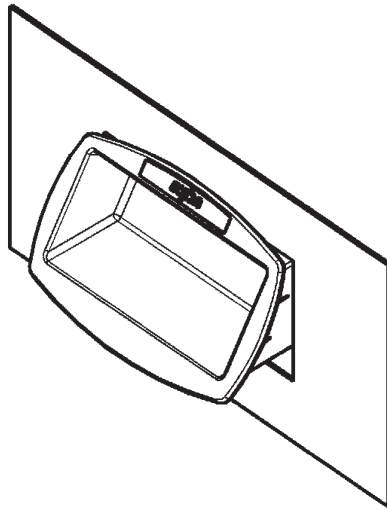
compression



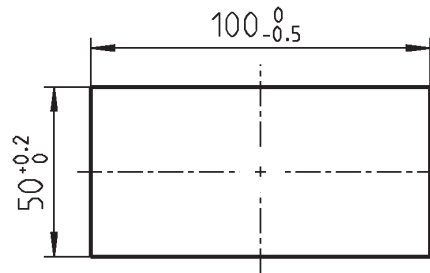
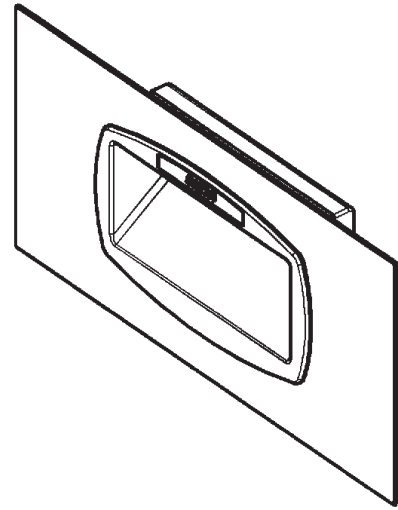
RL



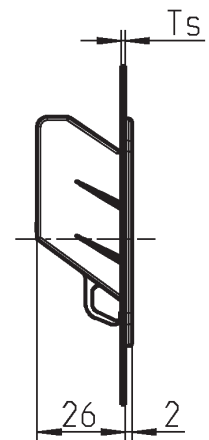
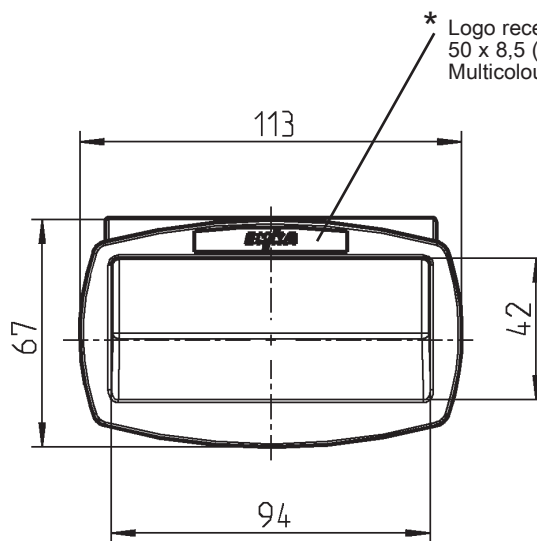
Press pull into cut out



Ready for operating



Cut out



Assembling:

The pull is fitted with clips that automatically snap in behind the door part.

Pull Polyamide GF Black

Ts 0.80 - 1.2 mm

1091-93

Ts 1.20 - 1.6 mm

1091-91

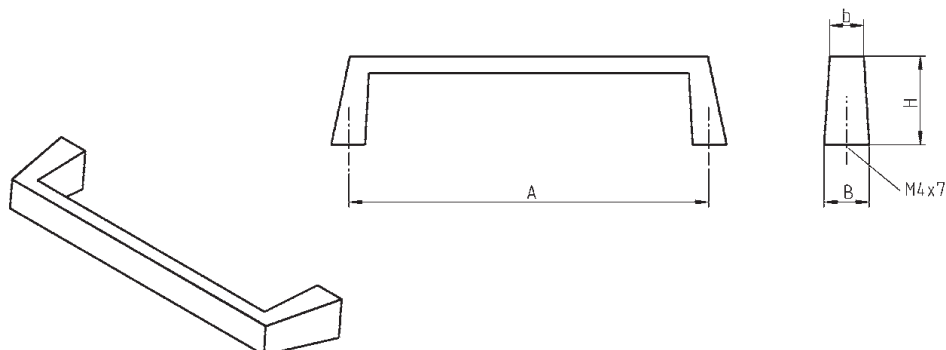
Ts 1.75 - 2.2 mm

1091-92

Handles

PROGRAM 1045, 1095

Bow-type handle

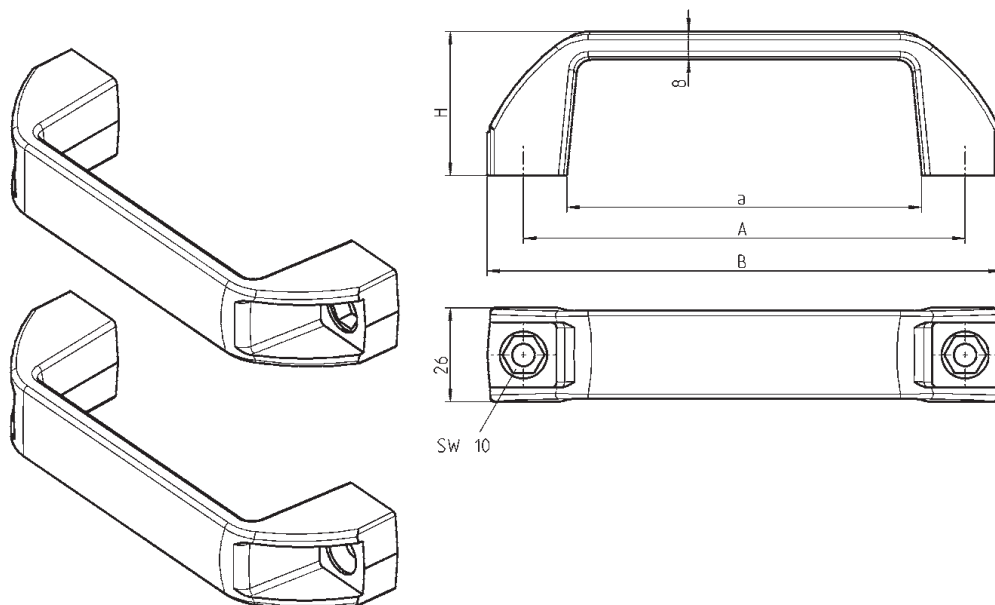


Bow-type handle zinc die

B	b	A	H	chrome plated	black powder coated
11	8	81	22	1045-03	1045-07 *
11	8	89	22	1045-02	1045-06 *
12	9	95,5	24	1045-01	1045-05
12	8,5	115	23	1045-04	1045-08 *

* = on request

Polyamide handle

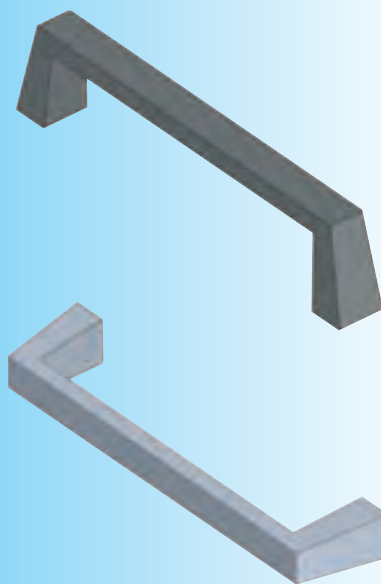


Version 1: a = 98; A = 122; B = 142; H = 40

Version 2: a = 118,5; A = 152; B = 167; H = 53,5

Handle polyamide GF black

	Version 1	Version 2
Handle for hexagon or socket head screw M6 acc. to DIN 4017/1207	1095-05	1095-19
Handle for countersunk screw smaller head M5 or rivet Ø 4.8 mm	1095-06	-

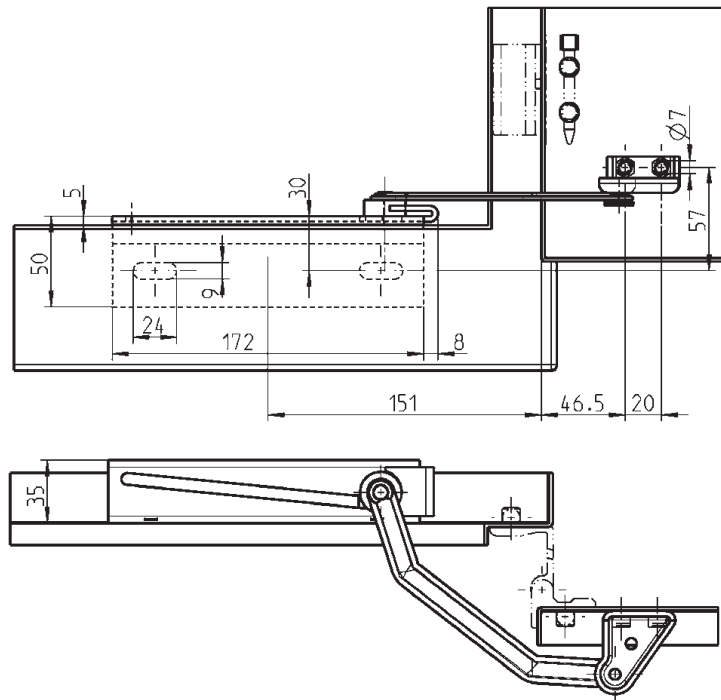
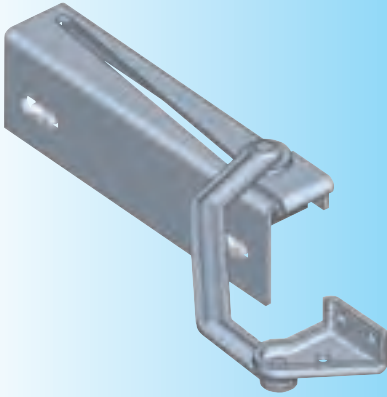


small head = DIN ISO 2009, 2010, 7046-1, 7046-2, 7047

Fixing material is not included in delivery.

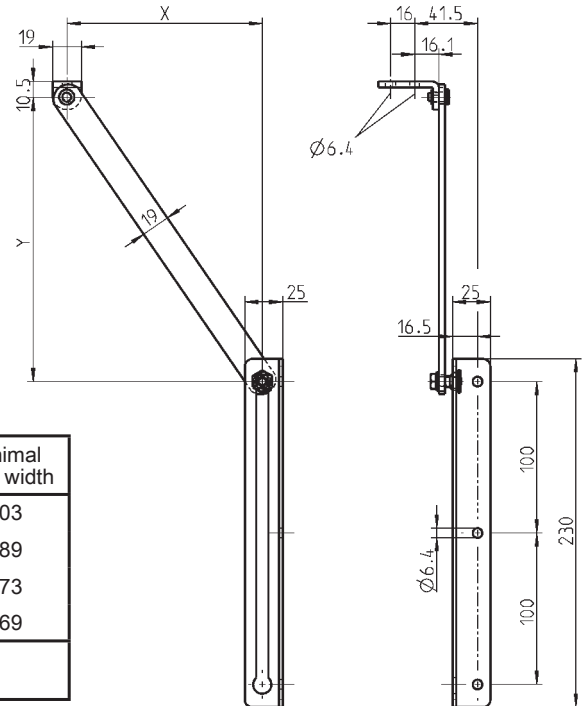
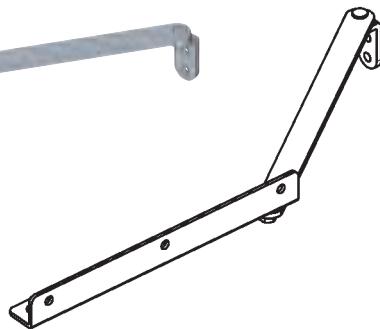
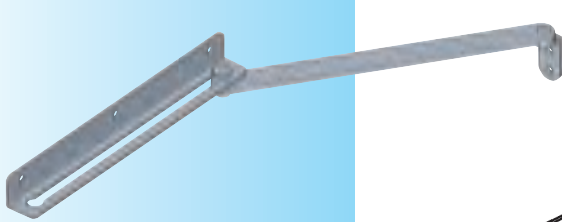
R **L** **RL**

INOX
AISI
3..



180° Door stop m.s. zinc plated, guide plate polyamide GF black

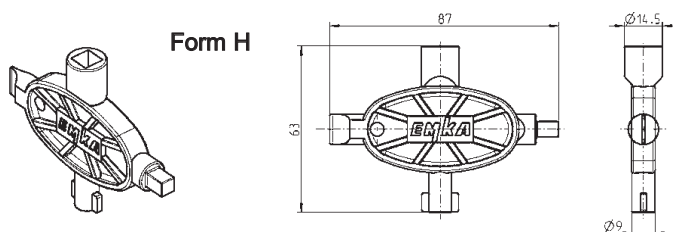
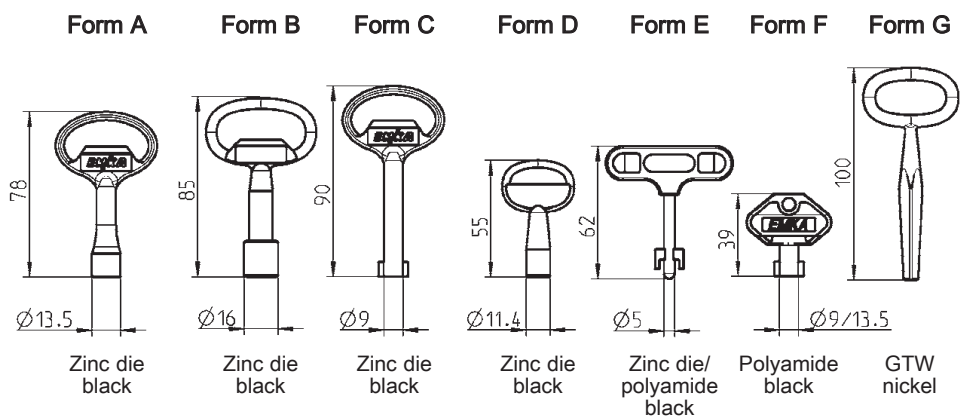
RH	1087-U2
LH	1087-U3



Opening angle	X	Y	minimal door width
90°	140	180	403
105°	120	166	389
120°	110	150	373
135°	100	146	369
in case of other variations $y = x + >40$			

Door stop

m.s. zinc plated	1087-U1
AISI 304	1087-U1-PC



Keys can be supplied on request with customer logo
 Minimum quantity: Form A, B, C, D 2,000 pieces
 Minimum quantity: Form E, F, H 5,000 pieces

Key-Form	A	B	C	D	E	F	G
Square 6	1004-18	-	-	1004-20	-	1004-37	-
Square 7	1004-01	-	-	-	-	1004-36	-
Square 8	1004-02	-	-	-	-	1004-35	-
Triangular 6,5	-	-	-	1004-21	-	-	-
Triangular 6,5 CNOMO	1004-26	-	-	-	-	-	-
Triangular 7	1004-03	-	-	-	-	1004-39	-
Triangular 8	1004-04	-	-	-	-	1004-38	-
Triangular 10	-	1004-24	-	-	-	-	-
Crown type	-	1004-31	-	-	-	-	-
Eastern Europe Ø 13 half round	-	1004-42	-	-	-	-	-
Double bit 3	-	-	1004-05	-	-	1004-34	-
Double bit 5	-	-	1004-06	-	-	1004-33	-
Daimler Benz	1004-17	-	-	-	-	-	-
FIAT	-	-	-	-	1004-41	-	-
Square male 6	1004-29	-	-	-	-	-	-
Square male 8	1004-30	-	-	-	-	-	-
Square male 6,5 – 8,5	-	-	-	-	-	-	1004-19
Hexagon head 8 with boring	1004-49	-	-	-	-	-	-
Form H, universal-key polyamide blue							
Square 6, Square male 8, Double bit 5 and Slot insert							1004-48

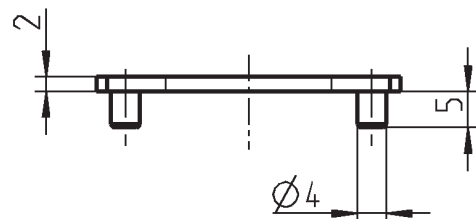
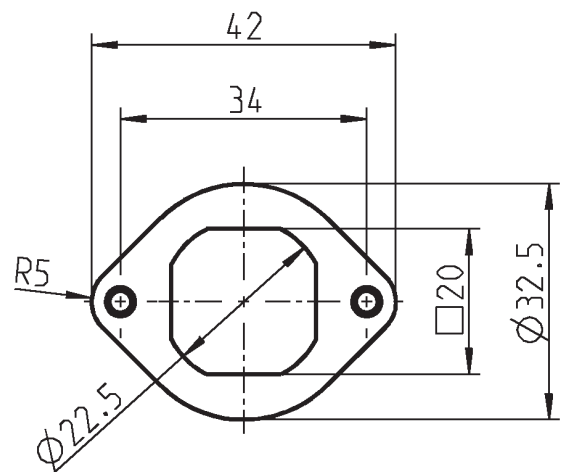
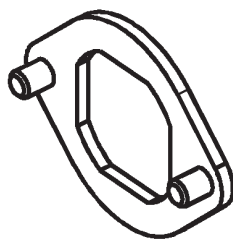
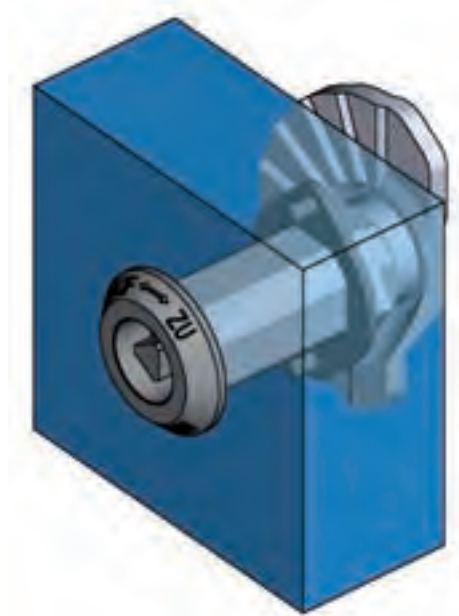
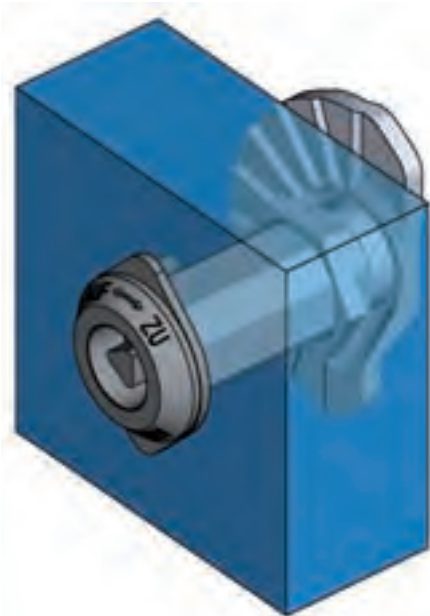


Attention:
 Keys from A, B, C, E, F and G not suitable for program 1022

RL

Front mounted door device for preventing rotation, mounted under the housing head.

Rear mounted door device for preventing rotation, mounted under the nut.



Note:
The use of a device for prevention rotating leads to a reduce of dimension H by 2 mm.

Further parts see page
– Quarter turns page 16 - 29

Device for preventing rotation zinc die, surface as requested

black powder coated

1000-456-AA

zinc plated

1000-456-JB



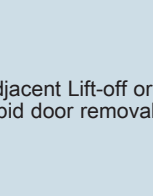
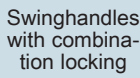






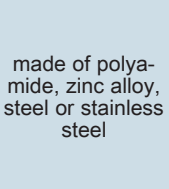
Further parts see General Catalog

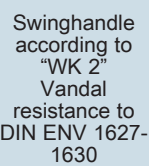

Mechanical and Electronic Locking Systems for indoor and outdoor enclosures

refer to EMKA main catalog, chapter 2, 3, 8 and 11

Hinge for surface mounted and flush doors

refer to EMKA main catalog, chapter 4 and 8

	Multi-point locking systems		Latch or bearing bush with cam		adjacent Lift-off or rapid door removal		concealed or exposed hinges
	Swinghandles with combination locking		Keyed alike, keyed different and master key systems		Weld-on, mechanical attachment or quick assembly		made of polyamide, zinc alloy, steel or stainless steel
	made of polyamide, zinc alloy, steel or stainless steel		IP 65, NEMA 4 etc. sealing by Foam in Place gasket		90° - 270° opening angle		made of polyamide, zinc alloy, steel or stainless steel

	Swinghandle according to "WK 2" Vandal resistance to DIN ENV 1627-1630		Rods, rod guides, catches and more
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Wide product range of gasketing and edge protection:

refer to EMKA main catalog, chapter 5

						
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Aluminium window with and without frame, pre-assembled or kit for self assembly

refer to EMKA main catalog, chapter 7

			
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EMKA
General
Catalog



www.EMKA.com


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