



Superior Clamping and Gripping

**SCHUNK** ®

## Product Information

Collaborating gripper for small components Co-act EGP-C

## Collaborative. Powerful. Certified.

### Co-act EGP-C gripper

Electric 2-finger parallel gripper certified for collaborative operation with actuation via 24 V and digital I/O

### Field of application

Gripping and moving small and medium-sized workpieces with flexible force in collaborative operation in the areas of assembly, electronics and machine tool loading.

### Advantages – Your benefits

**Certified gripping unit** saves effort for safety assessment of the application

**Functional safety** ensured due to inherent safety with current limitation

**Pre-assembled gripping unit with robot interface** for a easy and fast integration

**Plug & Work** on cobots from KUKA, FANUC and Universal Robots

**Integrated status display** For a visual indicator of the application state

**Service flaps in the collision protection cover** fitted to adjust the gripping force and the sensor system

**Control via digital I/O** for easy commissioning and rapid integration into existing systems

**Brushless DC servomotor** for almost wear-free use and a long service life

**Attachment fingers** available with three different inserts



Sizes Quantity: 4

Weight 0.36 .. 1.38 kg

Gripping force 40 .. 230 N

Stroke per jaw 3 .. 10 mm

Workpiece weight 0.2 .. 1.15 kg

## Functional description

The Co-act EGP-C gripper is electrically driven and has an integrated current limitation and collision protective cover. The current limitation ensures that the gripping force does not exceed a defined value. The collision

protective cover serves for minimizing the risk of injury during the use in collaborative operations.



① Collision protection

② Gripper for small components EGP

③ Flange  
with integrated electronics and cabling

④ LED strip light  
for status display

⑤ Integrated sensor system  
to monitor the jaw position

⑥ Service flap sensor system  
for adjusting the sensor system

⑦ Service flap gripping force  
for adjusting the gripping force

# Co-act EGP-C

Collaborating gripper for small components

## Detailed functional description

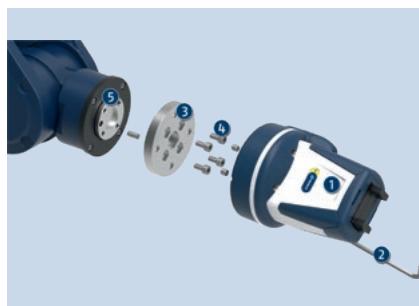
### Observation of the gripping force in collaborative operation



The "gripping force" specification in the catalog refers to the arithmetic sum of the forces acting on each jaw individually at distance P (see illustration). For evaluation of the biomechanical limit values in accordance with ISO/TS 15066, only the gripping force acting on each gripper jaw must be used. Furthermore, the information in the operating manual is referred to.

- ① Co-act EGP-C gripper
- ② Gripper jaws (customized)
- ③ Gripping force applied to each gripper jaw
- ④ Workpiece

### Simple assembly of the Co-act EGP-C



The Co-act EGP-C gripper was developed for simple assembly on collaborative robots (cobots). During assembly, the enclosed adapter plate has to be fastened with the supplied fastening material to the flange of the cobot. Subsequently, the gripper can be fastened with the enclosed hexagon socket wrench to the adapter flange. Finally, the electric connection (not version KETI) must be established.

- ① Co-act EGP-C gripper
- ② Hexagon socket wrench
- ③ Adapter flange
- ④ Mounting material
- ⑤ Flange of the cobot

### Simple plug & work on several cobots



The standard Co-act EGP-C gripper is available in versions for the collaborative robots (cobots) from the manufacturers KUKA (LBR iiwa), Universal Robots, and FANUC (CR-7iA). The gripper has been pre-configured in a way that it can be mounted directly electrically and mechanically onto the cobots. Depending on the manufacturer, different versions are also available depending on the flange version.

- ① Co-act EGP-C gripper to KUKA LBR iiwa
- ② Co-act EGP-C gripper to FANUC CR-7iA
- ③ Co-act EGP-C grippers to UR

### Co-act EGP-C for Universal Robots



For the robots of the manufacturer Universal Robots, two versions of the Co-act EGP-C gripper are available. The -URID version uses the tool interface of the robot for feed-through of the signals to the robot controller. However, this version does not have a light band. The light band including the free actuation cannot be used for the version with external cable routing.

- ① Co-act EGP-C to UR using the tool interface (version-URID)
- ② Co-act EGP-C to UR with external cable routing (version-UREK)

## Ordering example Co-act EGP-C

Co-act EGP - C - 40 - N - N - KTOE

Co-act = Collaborative actuator

Electric Small Parts Gripper EGP

C = DGUV-certified unit

Size

25

40

50

64

N = not used

N = not used

### Robot and flange interface

FCR7 = FANUC CR-7 iA | connection via EE interface

KETI = KUKA LBR iiwa | Media flange inside, electrically

KTOE = KUKA LBR iiwa | Media flange touch, electrically

URID = Universal Robots/with feed-through (electr. tool interface)

UREK = Universal Robots/external cabling

## General notes about the series

**Operating principle:** Rack and pinion principle

**Housing material:** Polyamide with glass fiber additive

**Base jaw material:** Steel

**Actuation:** servo-electric, via brushless DC servomotor

**Warranty:** see assembly and operating manual

**Scope of delivery:** Accessory pack with adapter flange, mounting material and hexagon socket wrench, assembly and operating manual with declaration of conformity and incorporation, safety information

**Gripping force:** is the arithmetic total of the gripping force applied to each gripper jaw at distance P (see illustration). For more information, see the detailed functional description.

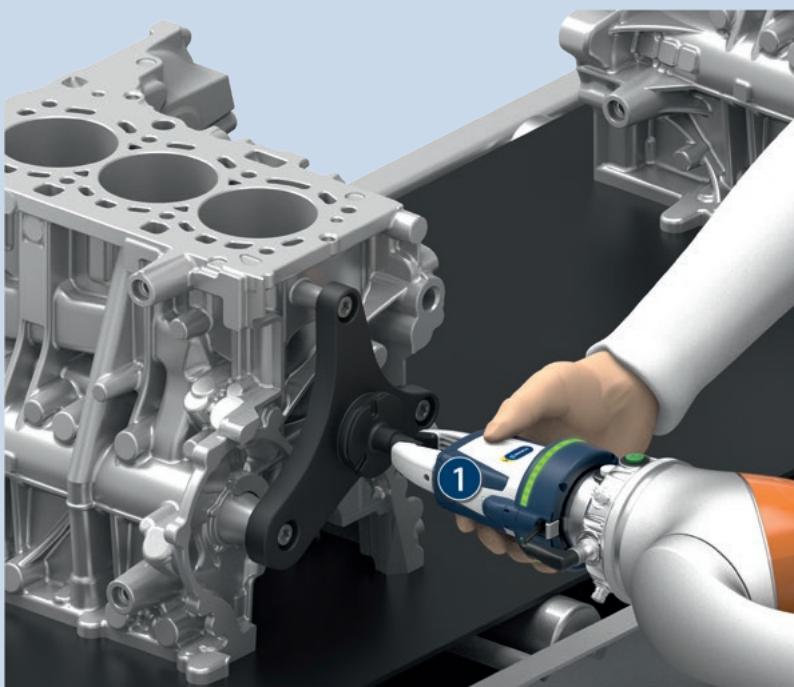
**Finger length:** is measured from the reference surface as the distance P in direction to the main axis.

**Repeat accuracy:** is defined as a distribution of the end Position for 100 consecutive strokes.

**Workpiece weight:** is calculated for force-fit gripping with a coefficient of static friction of 0.1 and a safety factor of 2 against workpiece slippage at acceleration due to gravity g. For form-fit or capture gripping, there are significantly higher permissible workpiece weights.

For more information, see assembly and operating manual.

**Closing and opening times:** are purely the times that the base jaws or fingers are in motion. PLC reaction times are not included in the above-mentioned times and must be taken into consideration when determining cycle times.



## Application example

Collaborating gripper unit to support the worker when feeding in and positioning workpieces.

① Collaborating gripper for small components  
Co-act EGP-C

## SCHUNK offers more ...

The following components make the product Co-act EGP-C even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Manual change system



Attachment fingers

① For more information on these products can be found on the following product pages or at schunk.com. Please contact us: SCHUNK technical hotline +49-7133-103-2696

## Options and special information

**Light band for variants for Universal Robots and FANUC:** Actuation of the light band is possible for the version –UREK with external cabling for Universal Robots. For the version –URID, the digital signals for actuation are not available. For FANUC (version –FCR7), use of the light band is possible for direct connection of the gripper to the robot control system. For the connection via the EE interface, the actuation of the light band is not provided.

**Manually adjustable gripping force:** With an integrated rotary switch, the gripping force can be adjusted for the Co-act EGP-C 40 in four stages from 100%, 75%, 50%, and 25%. To adjust the gripping force, the service flap must be opened.

**Integrated sensor system:** The gripper has two integrated inductive proximity switches. With them, the "open" and "closed" position of the gripper is monitored as standard. A sensor can alternatively be used depending on the area for workpiece monitoring. For this, the sensor must be manually adjustable. For this, a service flap must be opened for the size 40.

**SAC – safety notes:** In the enclosed assembly and operating manual, extensive safety notes on the use of the gripper are also included. The instructions also provide information and recommendations on the overall application.

**Weight:** The weight comprises the entire Co-act gripper including cable and connecting plug.

**Co-act team:** The Co-act team from SCHUNK is available to answer further questions at all times with experts on the topic of human/robot collaboration. You can reach the team at +49-7133-103-3444 or e-mail co-act-team@de.schunk.com.

# Co-act EGP-C 25

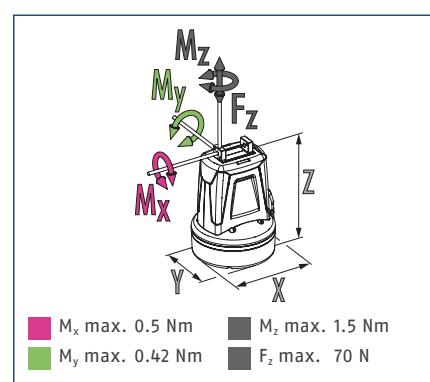
Collaborating gripper for small components



## Gripping force



## Dimensions and maximum loads



ⓘ The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

## Technical data—Co-act EGP-C for FANUC

Characterization	Co-act EGP-C 25-N-N-FCR7	
ID	1326453	
General operating data		
Compatible robot	FANUC CR-7 iA	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	93.8 x 90.2 x 105
Mechanical operating data		
Stroke per jaw	[mm]	3
Min./max. gripping force	[N]	20/40
Min./max. force per jaw	[N]	10/20
Recommended workpiece weight	[kg]	0.2
Max. permissible finger length	[mm]	32
Max. permissible mass per finger	[kg]	0.02
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.09/0.09
Weight	[kg]	0.63
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end		open wire strands
Cable length	[mm]	4000
Electrical operating data		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.14
Max. current	[A]	1
Controller electronics		integrated
Communication interface		digital I/O
Number of digital I/O		4/2

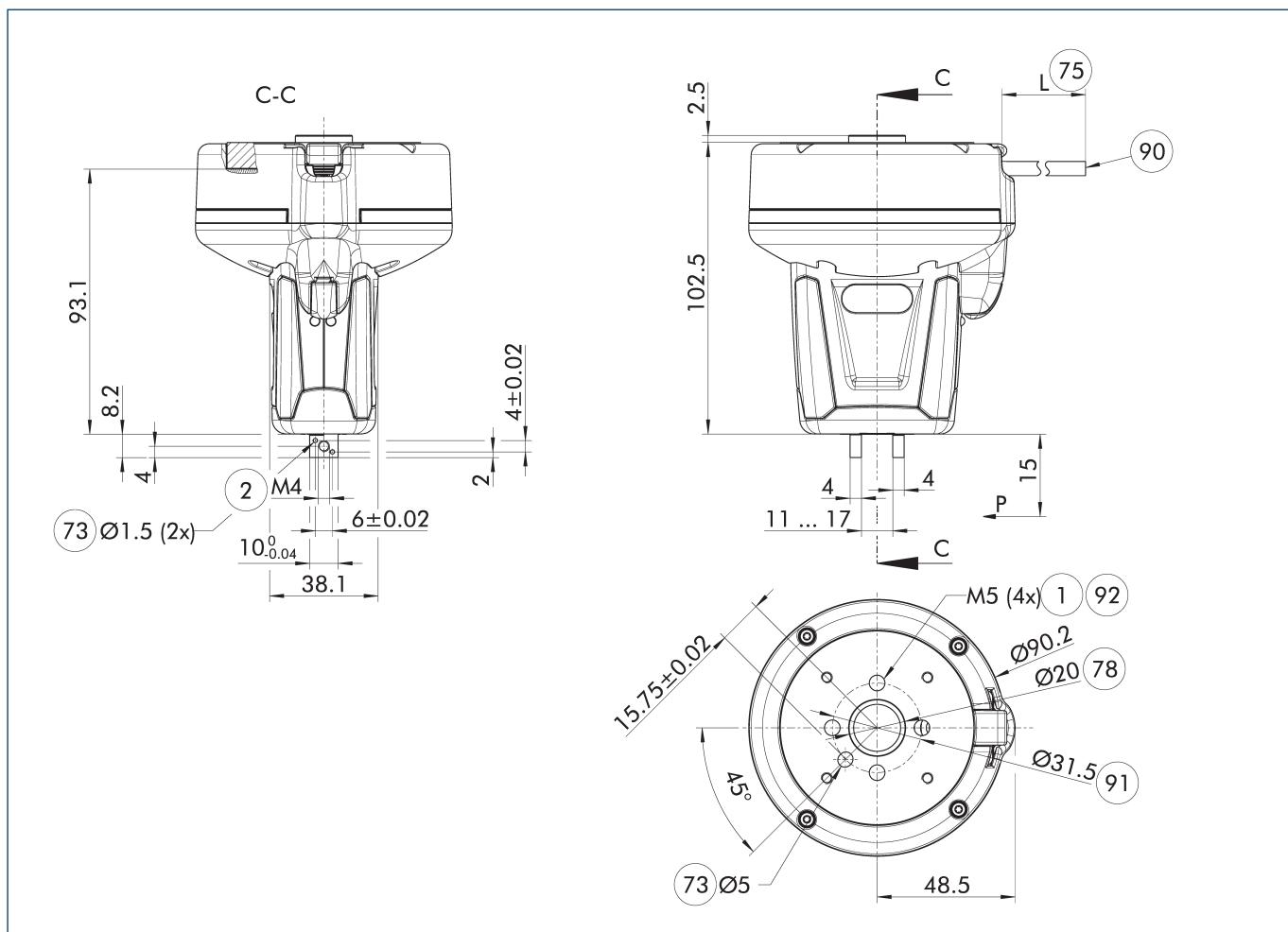
**Technical data—Co-act EGP-C for Universal Robots**

Characterization	Co-act EGP-C 25-N-N-URID	Co-act EGP-C 25-N-N-UREK
ID	1326452	1327881
<b>General operating data</b>		
Compatible robot	UR 3/5/10/16	UR 3/5/10/16
Robot flange	Standard flange	Standard flange
LED strip light		integrated
Displayable colors		green, yellow, red
Integrated sensors	yes, inductive in two directions	yes, inductive in two directions
Dimensions X x Y x Z	[mm] 93.8 x 90.2 x 105	93.8 x 90.2 x 105
<b>Mechanical operating data</b>		
Stroke per jaw	[mm] 3	3
Min./max. gripping force	[N] 20/40	20/40
Min./max. force per jaw	[N] 10/20	10/20
Recommended workpiece weight	[kg] 0.2	0.2
Max. permissible finger length	[mm] 32	32
Max. permissible mass per finger	[kg] 0.02	0.02
Repeat accuracy	[mm] 0.02	0.02
Closing/opening time	[s] 0.09/0.09	0.09/0.09
Weight	[kg] 0.36	0.63
Min./max. ambient temperature	[°C] 5/55	5/55
Protection class IP		30
Cable connector/cable end	M8	open wire strands
Cable length	[mm] 90	4000
<b>Electrical operating data</b>		
Nominal voltage	[V DC] 24	24
Nominal current	[A] 0.14	0.14
Max. current	[A] 1	1
Controller electronics	integrated	integrated
Communication interface	digital I/O	digital I/O
Number of digital I/O	2/2	4/2

# Co-act EGP-C 25

Collaborating gripper for small components

## Main view Co-act EGP-C variant - FCR7



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

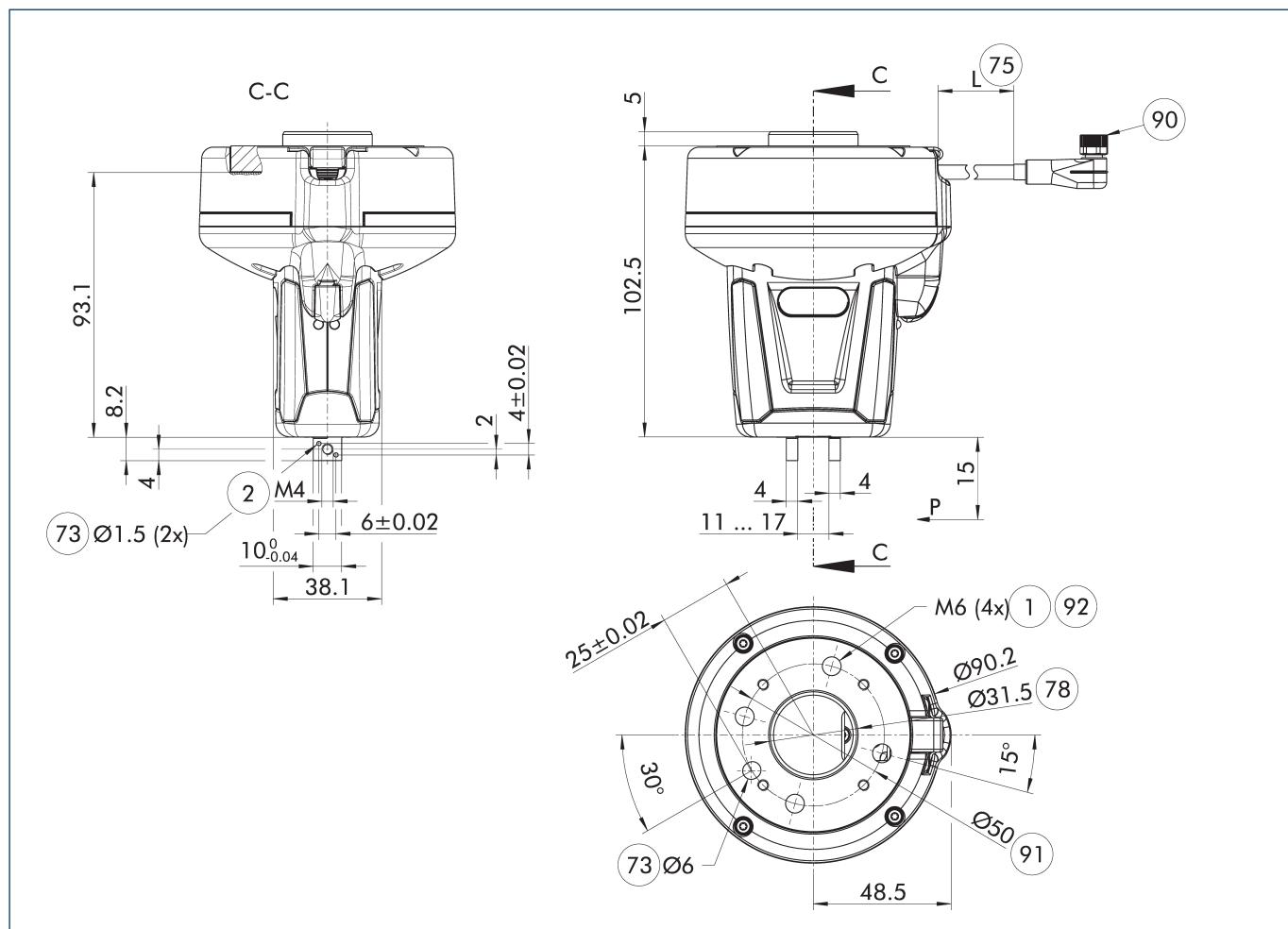
⑧ Fit for centering

⑨0 open wire strands

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

## Main view Co-act EGP-C 25-N-N-URID



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

⑦8 Fit for centering

⑨0 Socket M8, 8-pin

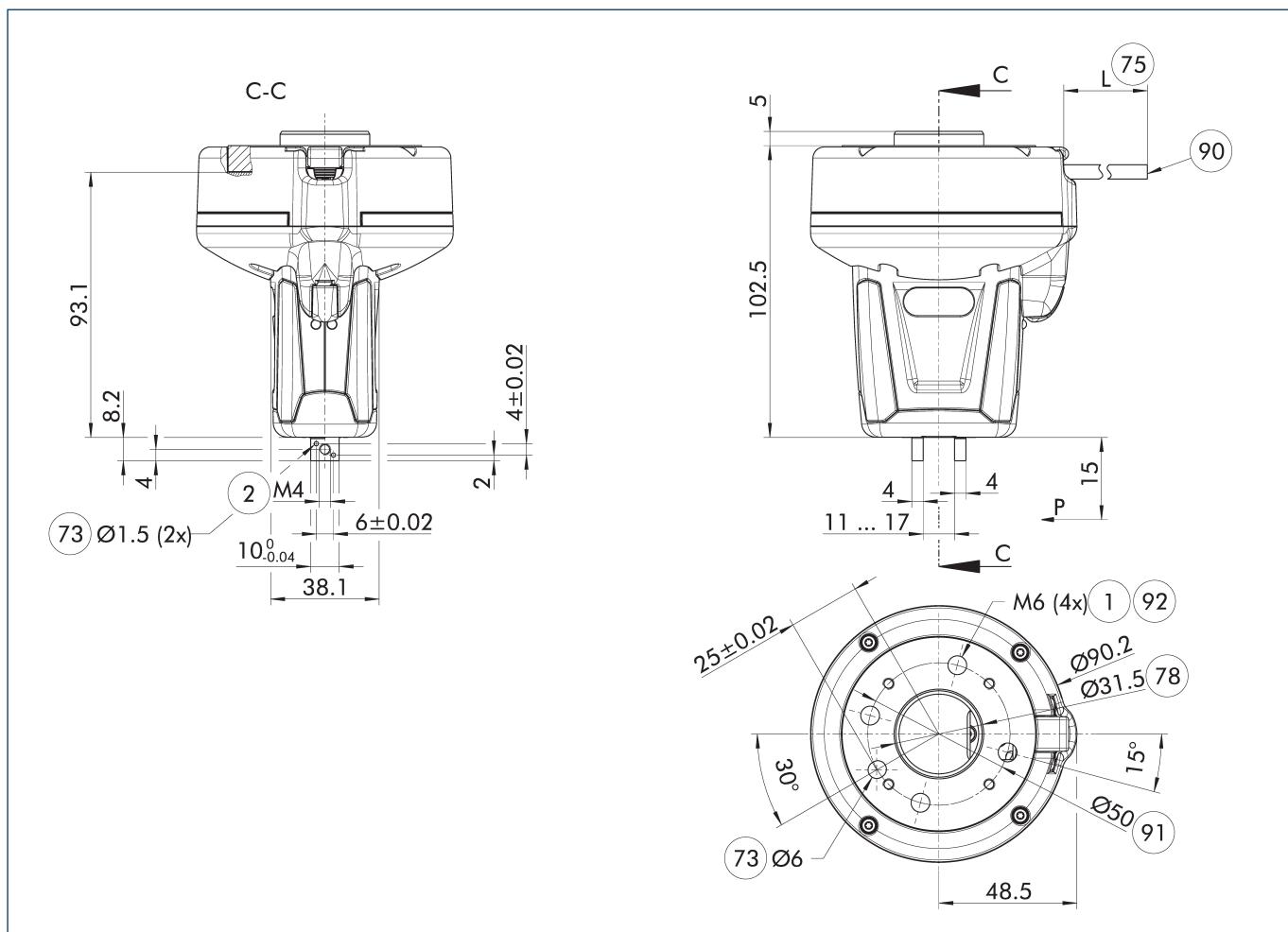
⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

# Co-act EGP-C 25

Collaborating gripper for small components

## Main view Co-act EGP-C 25-N-N-UREK



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

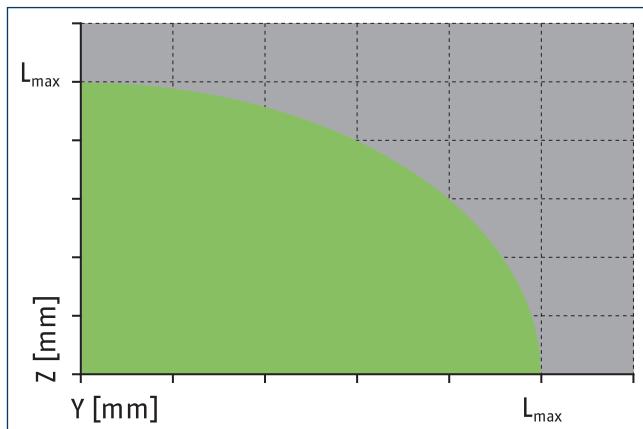
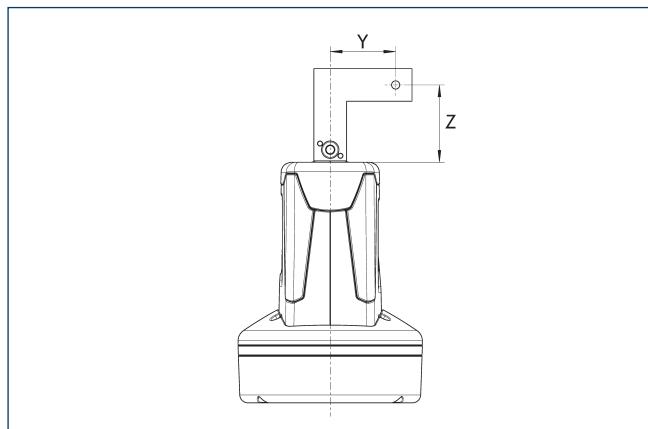
⑧ Fit for centering

⑨0 open wire strands

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

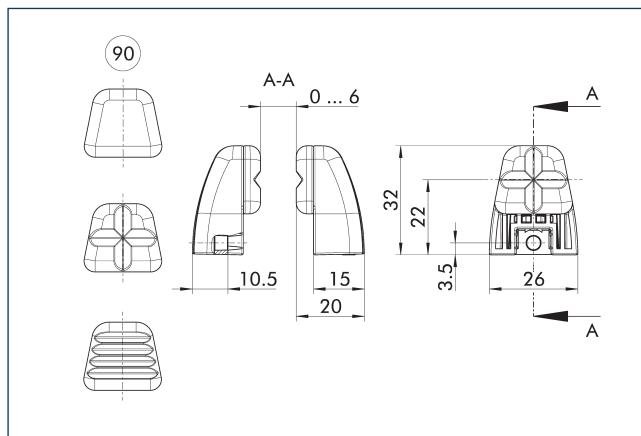
## Maximum permitted finger projection



Permitted range

Inadmissible range

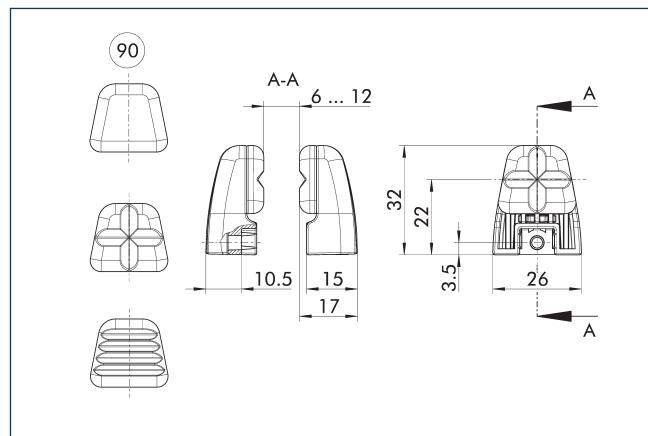
$L^{\max}$  is equivalent to the maximum permitted finger length, see the technical data table.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 25/06	1401279	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 25/12	1401284	PA/TPU

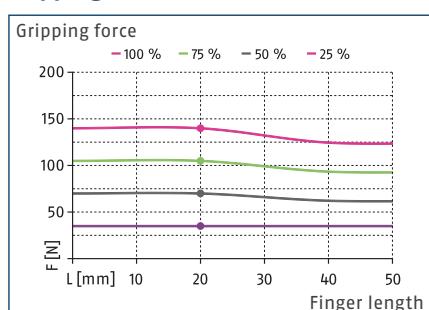
- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

# Co-act EGP-C 40

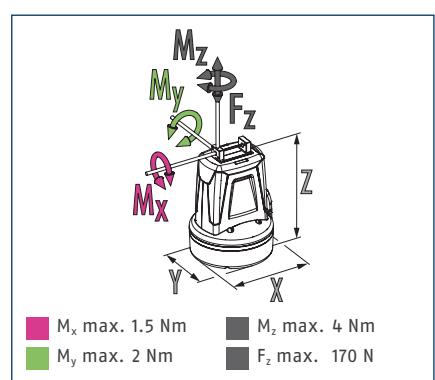
Collaborating gripper for small components



## Gripping force



## Dimensions and maximum loads



ⓘ The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

## Technical data—Co-act EGP-C for KUKA

Characterization	Co-act EGP-C 40-N-N-KETI	Co-act EGP-C 40-N-N-KTOE
ID	1326454	1321170
<b>General operating data</b>		
Compatible robot	KUKA LBR iiwa 7/14	KUKA LBR iiwa 7/14
Robot flange	Media flange electric inside	Media flange touch electric
LED strip light	integrated	integrated
Displayable colors	green, yellow, red	green, yellow, red
Integrated sensors	yes, inductive in two directions	yes, inductive in two directions
Dimensions X x Y x Z	[mm] 93.8 x 90.2 x 135	93.8 x 90.2 x 123
<b>Mechanical operating data</b>		
Stroke per jaw	[mm] 6	6
Min./max. gripping force	[N] 35/140	35/140
Min./max. force per jaw	[N] 17.5/70	17.5/70
Recommended workpiece weight	[kg] 0.7	0.7
Max. permissible finger length	[mm] 50	50
Max. permissible mass per finger	[kg] 0.08	0.08
Repeat accuracy	[mm] 0.02	0.02
Closing/opening time	[s] 0.2/0.2	0.2/0.2
Weight	[kg] 0.6	0.62
Min./max. ambient temperature	[°C] 5/55	5/55
Protection class IP		30
Cable connector/cable end		M12
Cable length	[mm]	70
<b>Electrical operating data</b>		
Nominal voltage	[V DC] 24	24
Nominal current	[A] 0.2	0.2
Max. current	[A] 2	2
Controller electronics	integrated	integrated
Communication interface	digital I/O	digital I/O
Number of digital I/O	4/2	4/2

**Technical data—Co-act EGP-C for FANUC**

Characterization	Co-act EGP-C 40-N-N-FCR7	
ID	1326456	
<b>General operating data</b>		
Compatible robot	FANUC CR-7 iA	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	93.8 x 90.2 x 120.5
<b>Mechanical operating data</b>		
Stroke per jaw	[mm]	6
Min./max. gripping force	[N]	35/140
Min./max. force per jaw	[N]	17.5/70
Recommended workpiece weight	[kg]	0.7
Max. permissible finger length	[mm]	50
Max. permissible mass per finger	[kg]	0.08
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.2/0.2
Weight	[kg]	0.66
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end	open wire strands	
Cable length	[mm]	1000
<b>Electrical operating data</b>		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.2
Max. current	[A]	2
Controller electronics	integrated	
Communication interface	digital I/O	
Number of digital I/O	4/2	

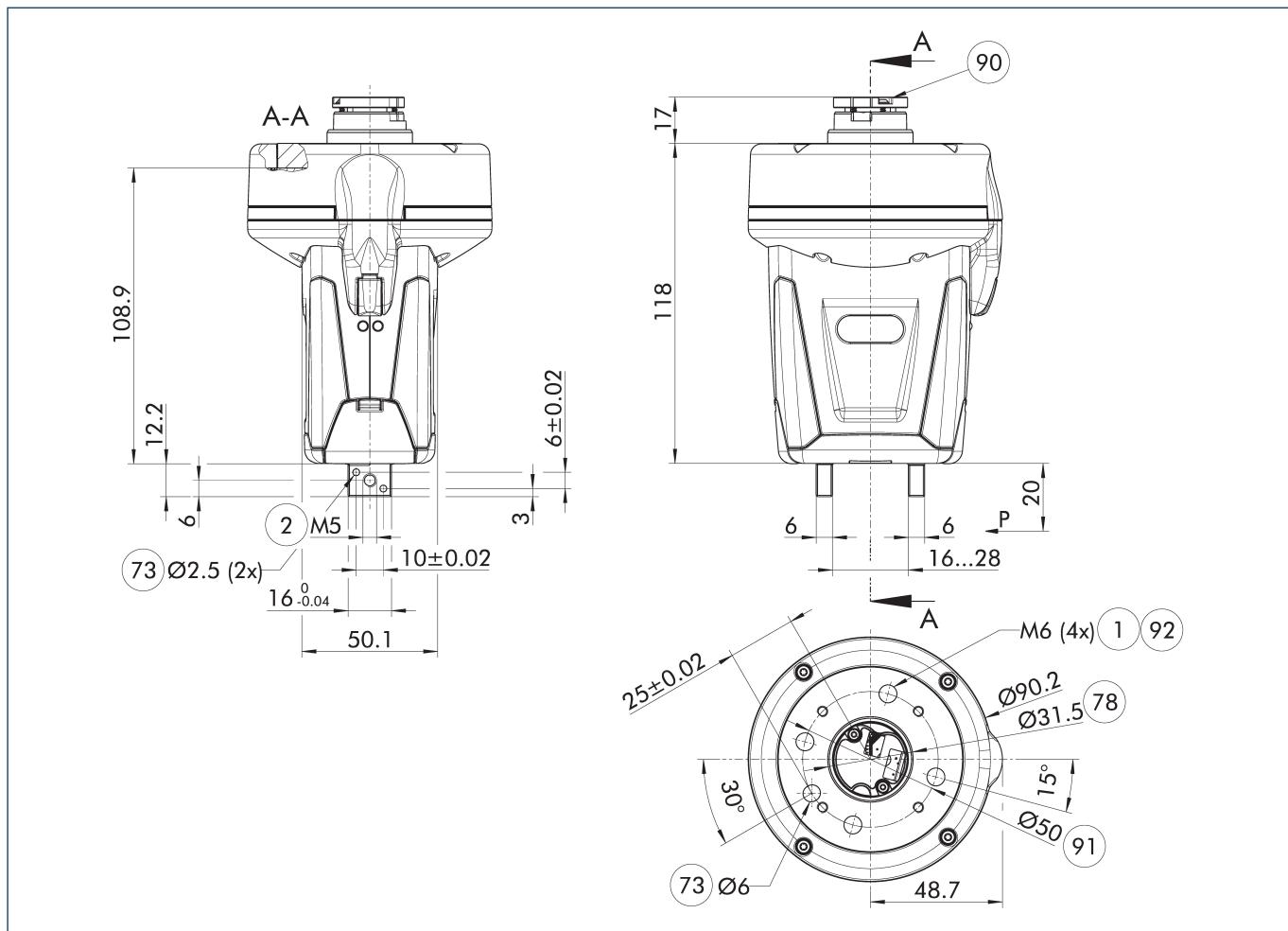
# Co-act EGP-C 40

Collaborating gripper for small components

## Technical data—Co-act EGP-C for Universal Robots

Characterization		Co-act EGP-C 40-N-N-URID	Co-act EGP-C 40-N-N-UREK
ID		1326455	1327883
<b>General operating data</b>			
Compatible robot		UR 3/5/10/16	UR 3/5/10/16
Robot flange		Standard flange	Standard flange
LED strip light			integrated
Displayable colors			green, yellow, red
Integrated sensors		yes, inductive in two directions	yes, inductive in two directions
Dimensions X x Y x Z	[mm]	93.8 x 90.2 x 123	93.8 x 90.2 x 123
<b>Mechanical operating data</b>			
Stroke per jaw	[mm]	6	6
Min./max. gripping force	[N]	35/140	35/140
Min./max. force per jaw	[N]	17.5/70	17.5/70
Recommended workpiece weight	[kg]	0.7	0.7
Max. permissible finger length	[mm]	50	50
Max. permissible mass per finger	[kg]	0.08	0.08
Repeat accuracy	[mm]	0.02	0.02
Closing/opening time	[s]	0.2/0.2	0.2/0.2
Weight	[kg]	0.59	0.86
Min./max. ambient temperature	[°C]	5/55	5/55
Protection class IP		30	30
Cable connector/cable end		M8	open wire strands
Cable length	[mm]	90	4000
<b>Electrical operating data</b>			
Nominal voltage	[V DC]	24	24
Nominal current	[A]	0.2	0.2
Max. current	[A]	0.6	2
Controller electronics		integrated	integrated
Communication interface		digital I/O	digital I/O
Number of digital I/O		2/2	4/2

## Main view Co-act EGP-C variant - KETI



(1) Gripper connection

(2) Finger connection

73 Fit for centering pins

78 Fit for centering

90 KUKA-specific

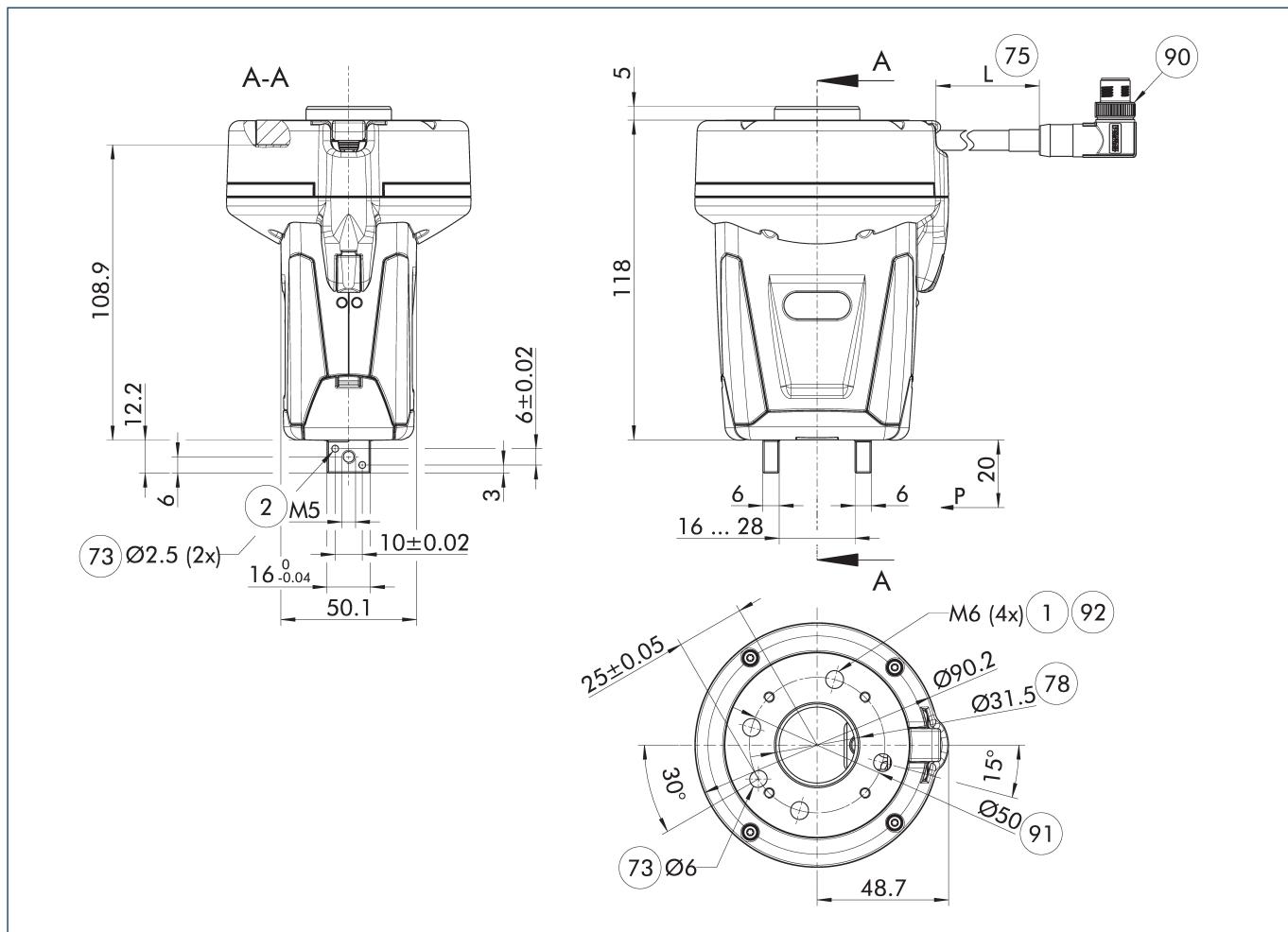
91 DIN ISO-9409 bolt circle

92 Through holes for screw connections

# Co-act EGP-C 40

Collaborating gripper for small components

## Main view Co-act EGP-C variant - KTOE



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

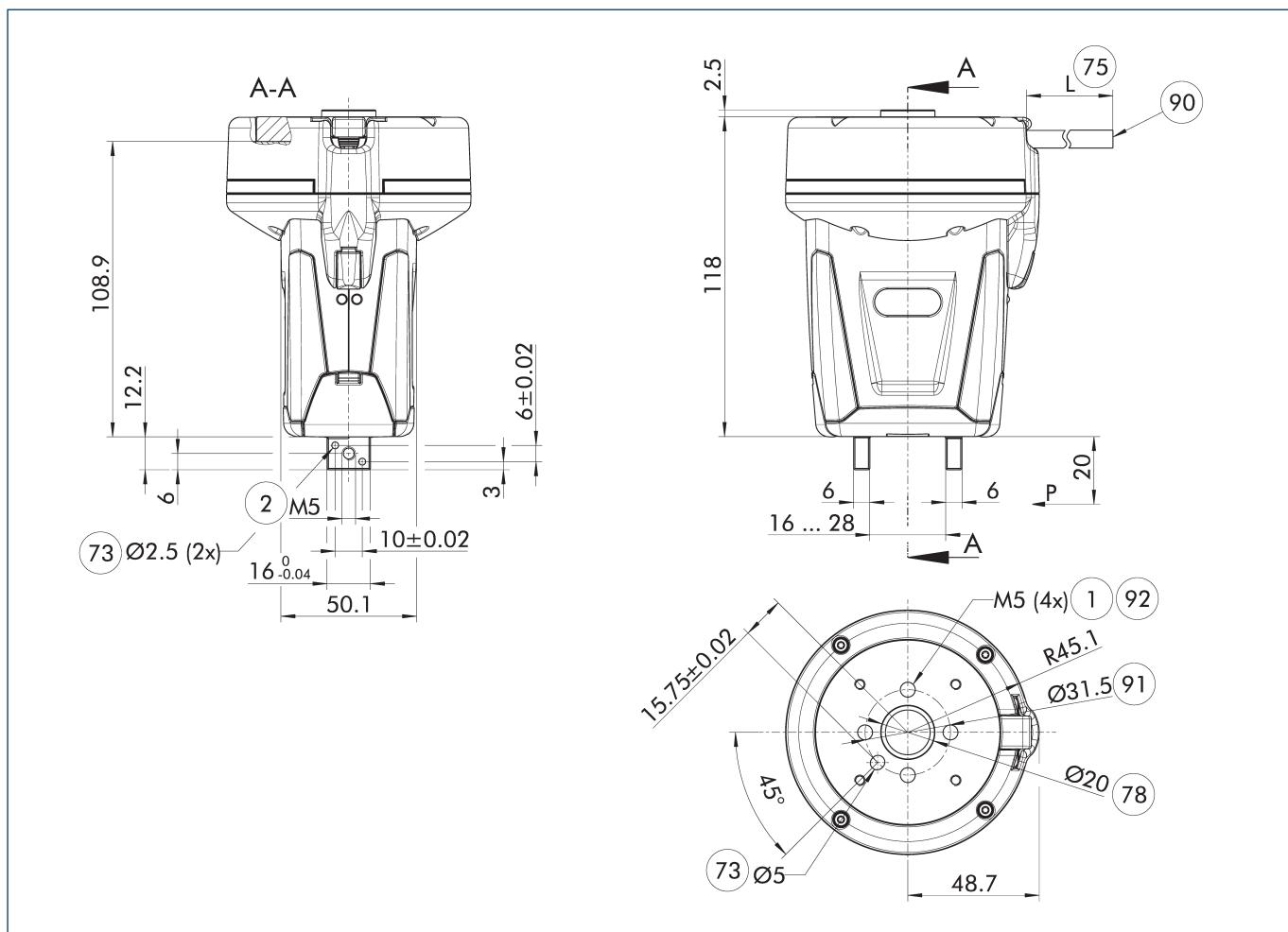
⑦8 Fit for centering

⑨0 M12 connector, 17-pin

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

## Main view Co-act EGP-C variant - FCR7



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

⑦8 Fit for centering

⑨0 open wire strands

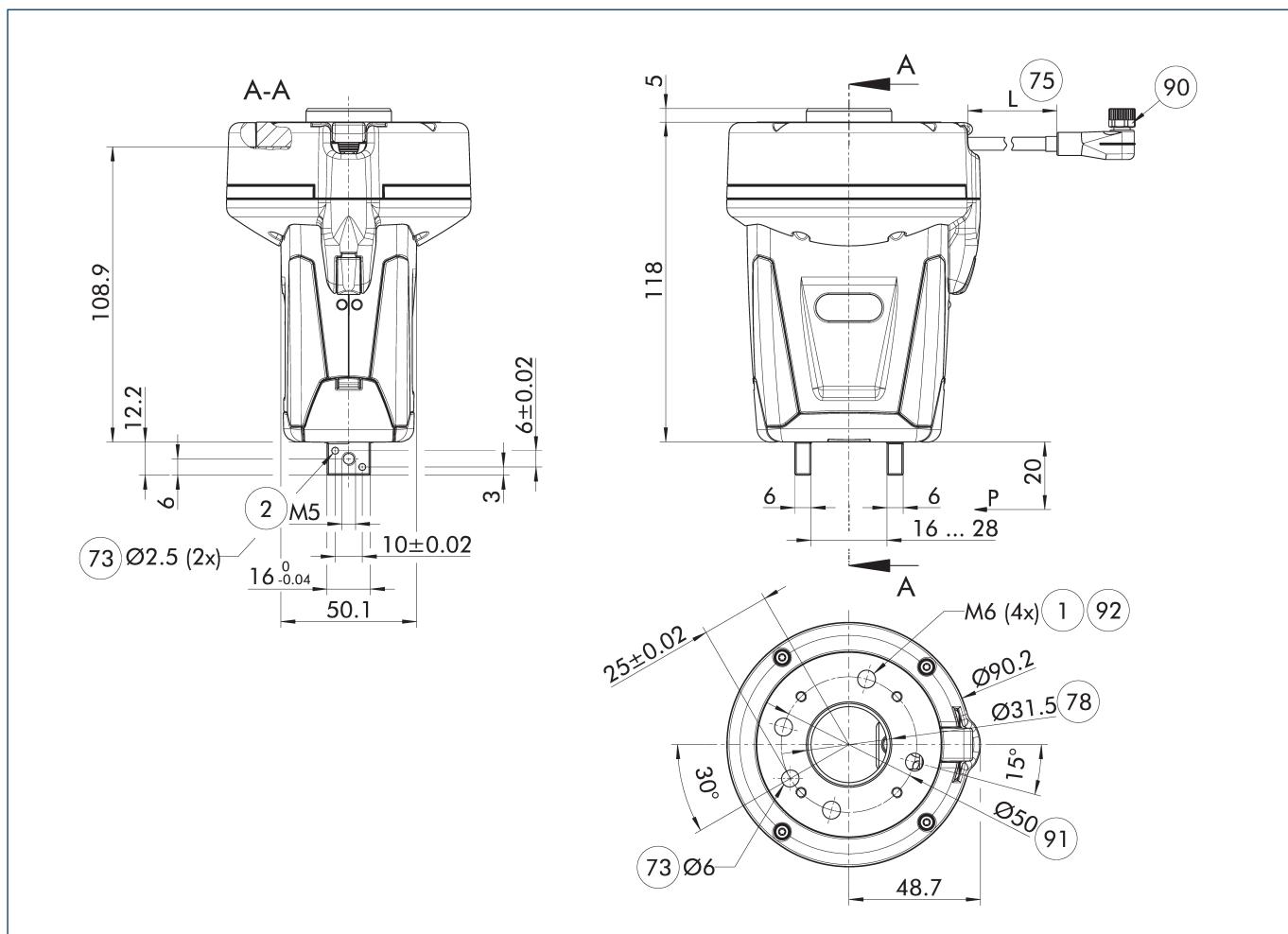
⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

# Co-act EGP-C 40

Collaborating gripper for small components

## Main view Co-act EGP-C 40-N-N-URID



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

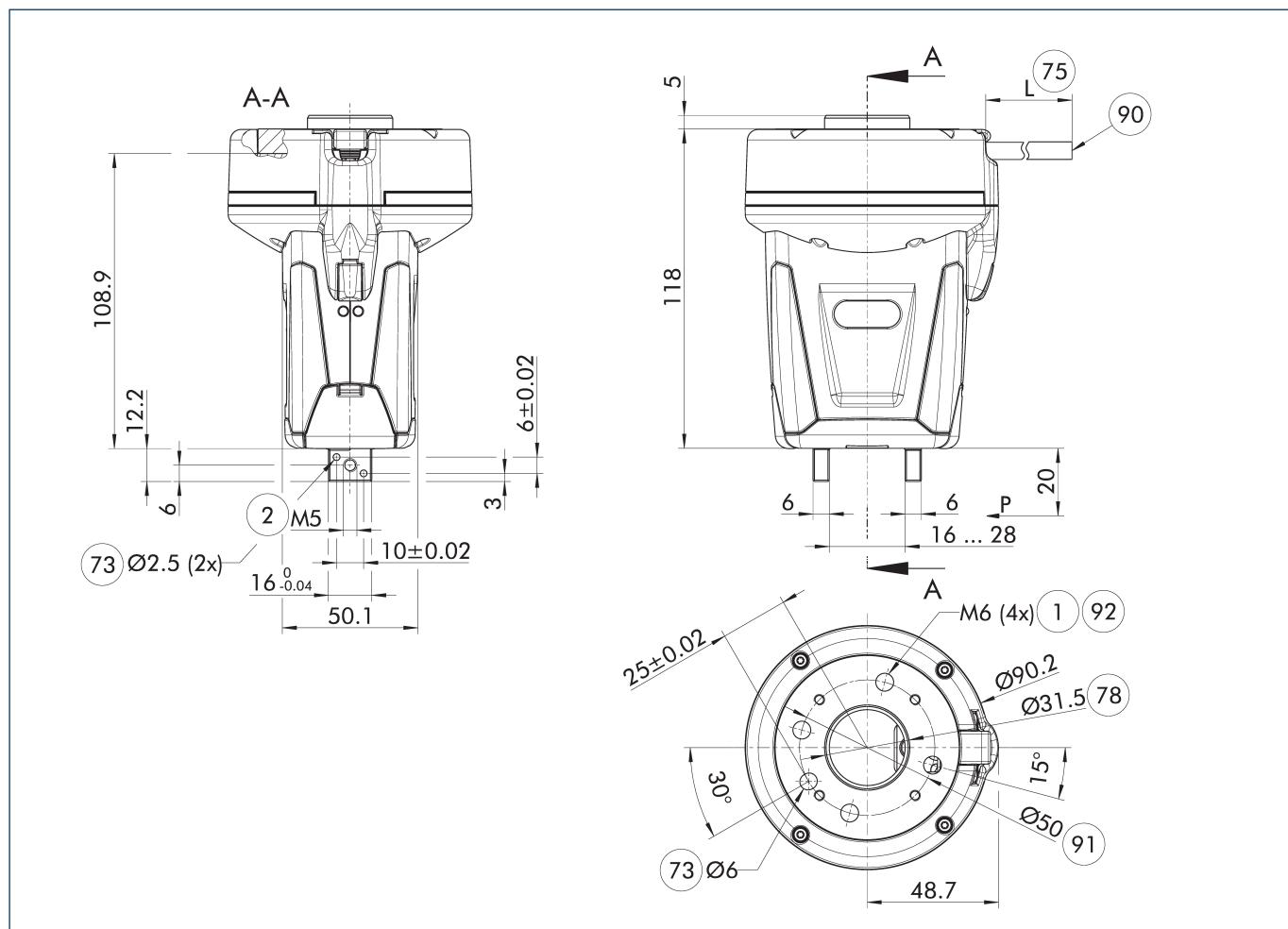
⑦8 Fit for centering

⑨0 Socket M8, 8-pin

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

## Main view Co-act EGP-C 40-N-N-UREK



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

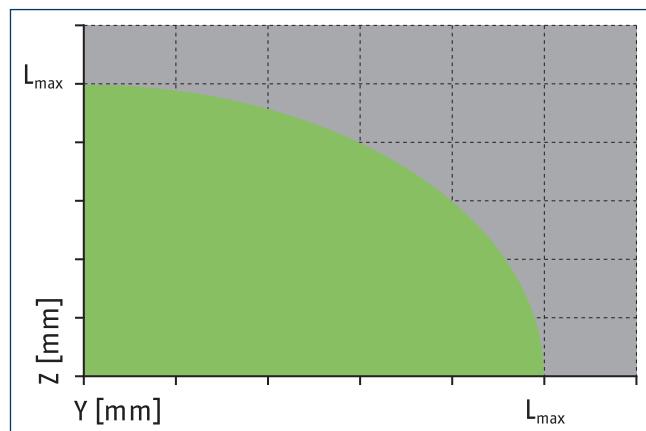
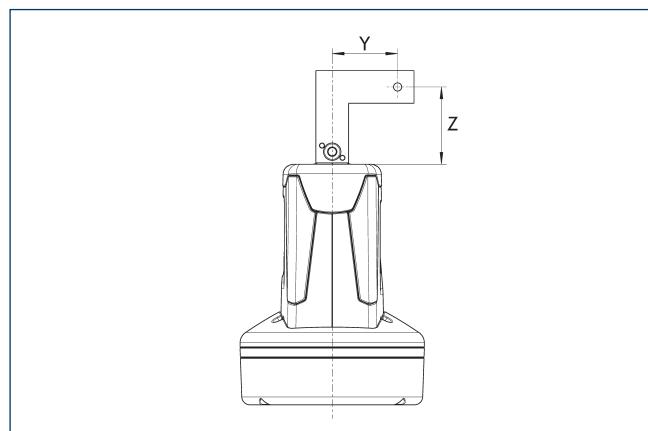
⑧ Fit for centering

⑨0 open wire strands

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

## Maximum permitted finger projection



Permitted range

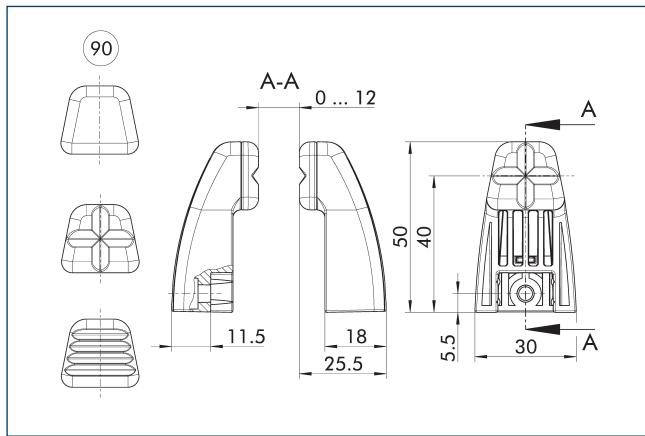
Inadmissible range

L<sub>max</sub> is equivalent to the maximum permitted finger length, see the technical data table.

# Co-act EGP-C 40

Collaborating gripper for small components

## Top jaw AUB Co-act EGP



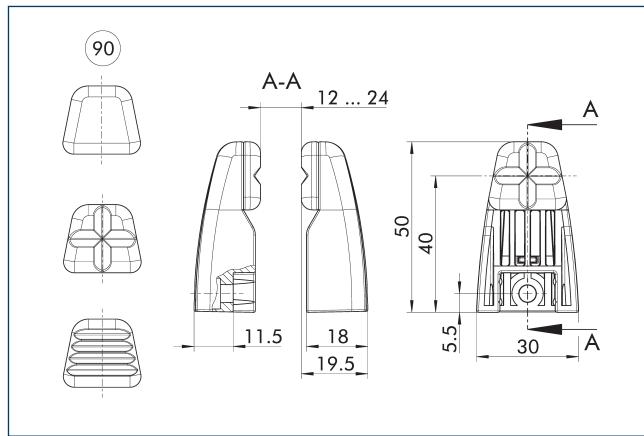
### ⑩ Finger inserts

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 40/12	1401285	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

## Top jaw AUB Co-act EGP



### ⑩ Finger inserts

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 40/24	1401286	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

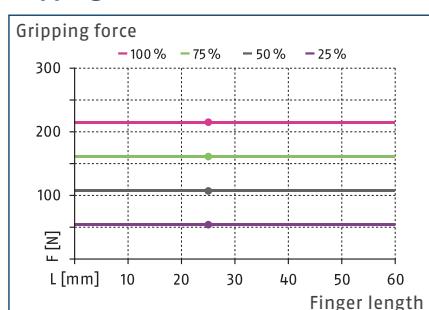


# Co-act EGP-C 50

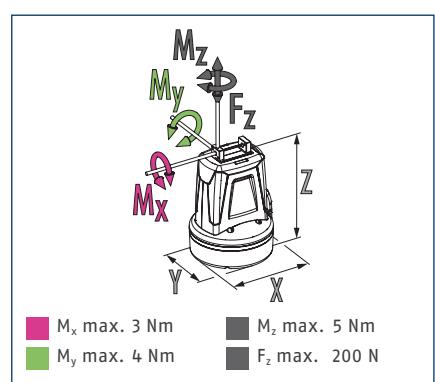
Collaborating gripper for small components



## Gripping force



## Dimensions and maximum loads



ⓘ The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

## Technical data—Co-act EGP-C for KUKA

Characterization	Co-act EGP-C 50-N-N-KETI	Co-act EGP-C 50-N-N-KTOE
ID	1326459	1321171
<b>General operating data</b>		
Compatible robot	KUKA LBR iiwa 7/14	KUKA LBR iiwa 7/14
Robot flange	Media flange electric inside	Media flange touch electric
LED strip light	integrated	integrated
Displayable colors	green, yellow, red	green, yellow, red
Integrated sensors	yes, inductive in two directions	yes, inductive in two directions
Dimensions X x Y x Z	[mm] 125.5 x 86.4 x 151	125.5 x 86.4 x 136.5
<b>Mechanical operating data</b>		
Stroke per jaw	[mm] 8	8
Min./max. gripping force	[N] 54/215	54/215
Min./max. force per jaw	[N] 27/107.5	27/107.5
Recommended workpiece weight	[kg] 1.05	1.05
Max. permissible finger length	[mm] 64	64
Max. permissible mass per finger	[kg] 0.14	0.14
Repeat accuracy	[mm] 0.02	0.02
Closing/opening time	[s] 0.21/0.21	0.21/0.21
Weight	[kg] 0.86	0.88
Min./max. ambient temperature	[°C] 5/55	5/55
Protection class IP		30
Cable connector/cable end		M12
Cable length	[mm]	70
<b>Electrical operating data</b>		
Nominal voltage	[V DC] 24	24
Nominal current	[A] 0.3	0.3
Max. current	[A] 2	2
Controller electronics	integrated	integrated
Number of digital I/O	4/2	4/2

**Technical data—Co-act EGP-C for FANUC**

Characterization	Co-act EGP-C 50-N-N-FCR7	
ID	1326462	
<b>General operating data</b>		
Compatible robot	FANUC CR-7 iA	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	125.5 x 86.4 x 136.5
<b>Mechanical operating data</b>		
Stroke per jaw	[mm]	8
Min./max. gripping force	[N]	54/215
Min./max. force per jaw	[N]	27/107.5
Recommended workpiece weight	[kg]	1.05
Max. permissible finger length	[mm]	64
Max. permissible mass per finger	[kg]	0.14
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.21/0.21
Weight	[kg]	1.22
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end	open wire strands	
Cable length	[mm]	4000
<b>Electrical operating data</b>		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.3
Max. current	[A]	2
Controller electronics	integrated	
Number of digital I/O		4/2

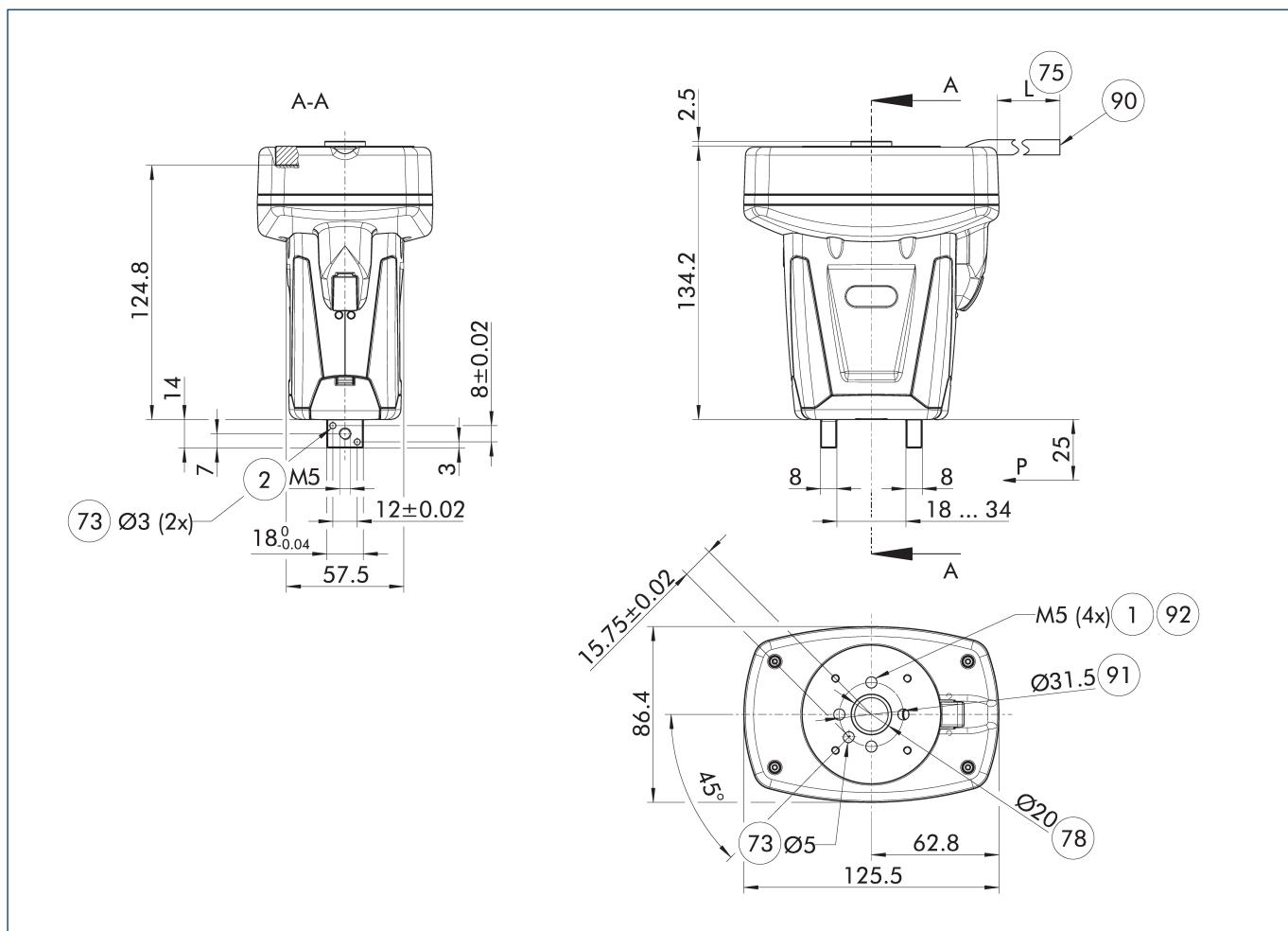
# Co-act EGP-C 50

Collaborating gripper for small components

## Technical data—Co-act EGP-C for Universal Robots

Characterization	Co-act EGP-C 50-N-N-UREK	
ID	1327884	
General operating data		
Compatible robot	UR 3/5/10/16	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	125.5 x 86.4 x 136.5
Mechanical operating data		
Stroke per jaw	[mm]	8
Min./max. gripping force	[N]	54/215
Min./max. force per jaw	[N]	27/107.5
Recommended workpiece weight	[kg]	1.05
Max. permissible finger length	[mm]	64
Max. permissible mass per finger	[kg]	0.14
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.21/0.21
Weight	[kg]	1.22
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end	open wire strands	
Cable length	[mm]	4000
Electrical operating data		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.3
Max. current	[A]	2
Controller electronics	integrated	
Number of digital I/O		4/2

## Main view Co-act EGP-C variant - FCR7



The drawing shows the basic version of the gripper with open jaws.

(1) Gripper connection

(2) Finger connection

(73) Fit for centering pins

(75) Cable length

(78) Fit for centering

(90) open wire strands

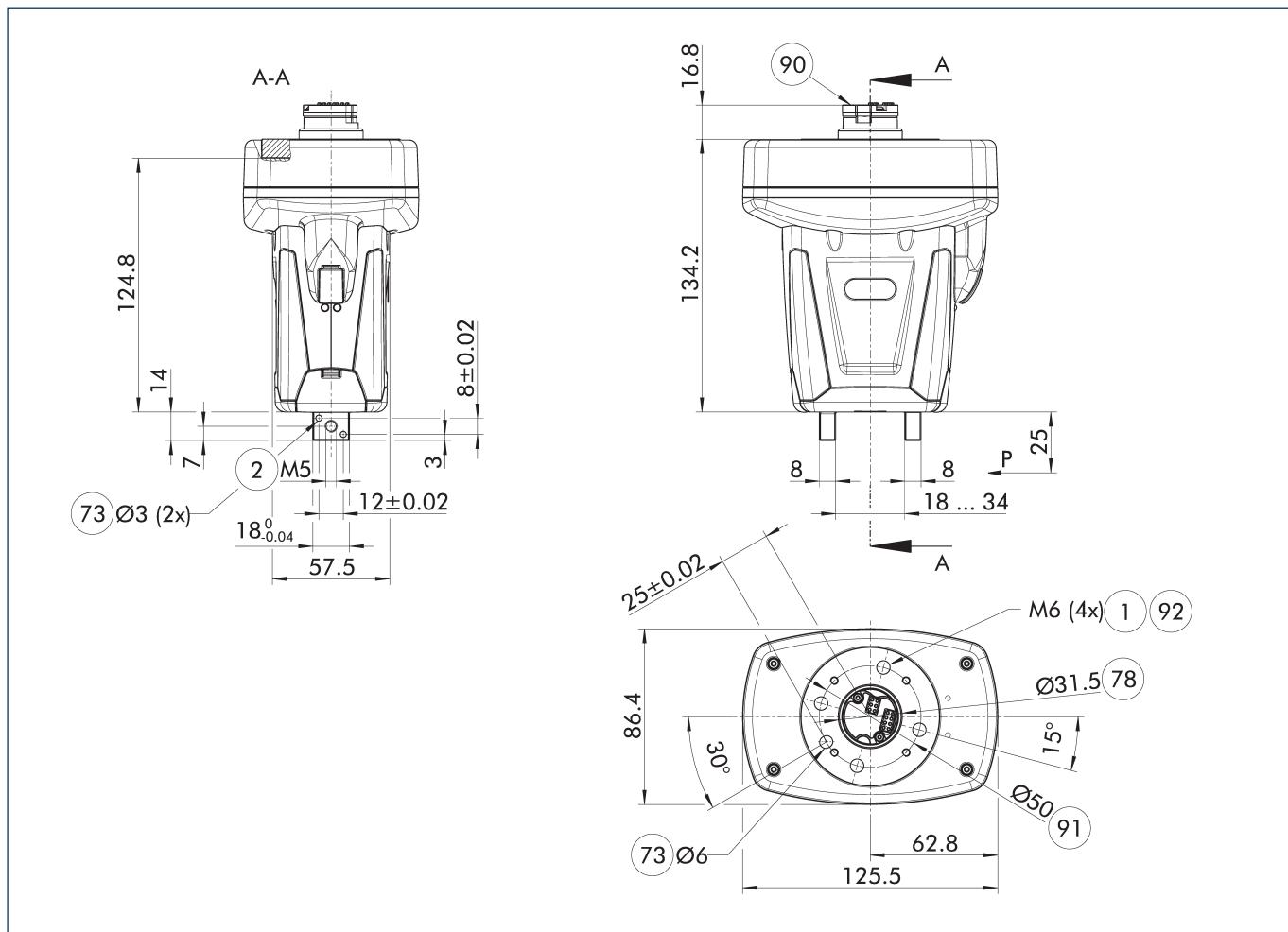
(91) DIN ISO-9409 bolt circle

(92) Through holes for screw connections

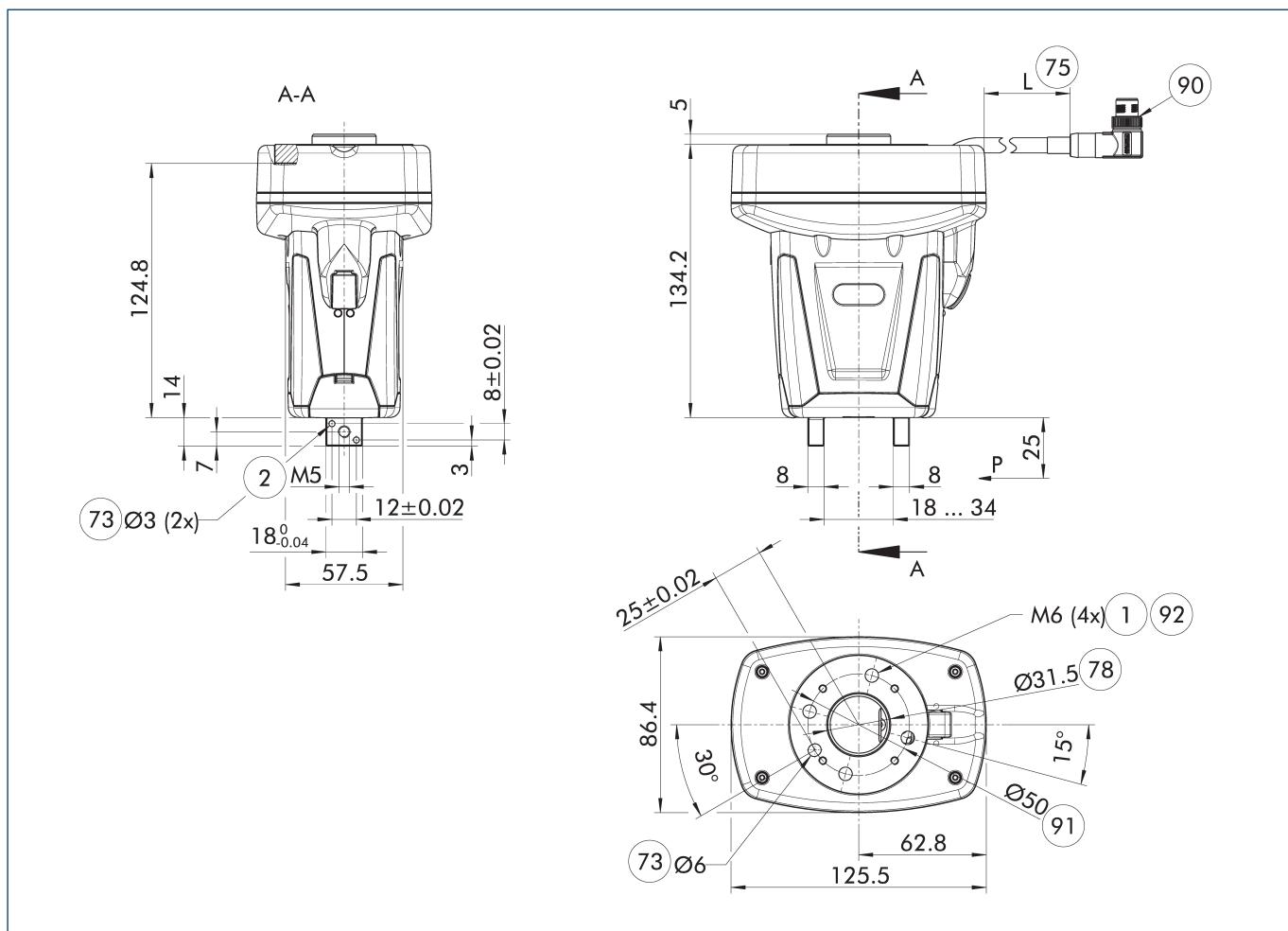
# Co-act EGP-C 50

Collaborating gripper for small components

## Main view Co-act EGP-C variant - KETI



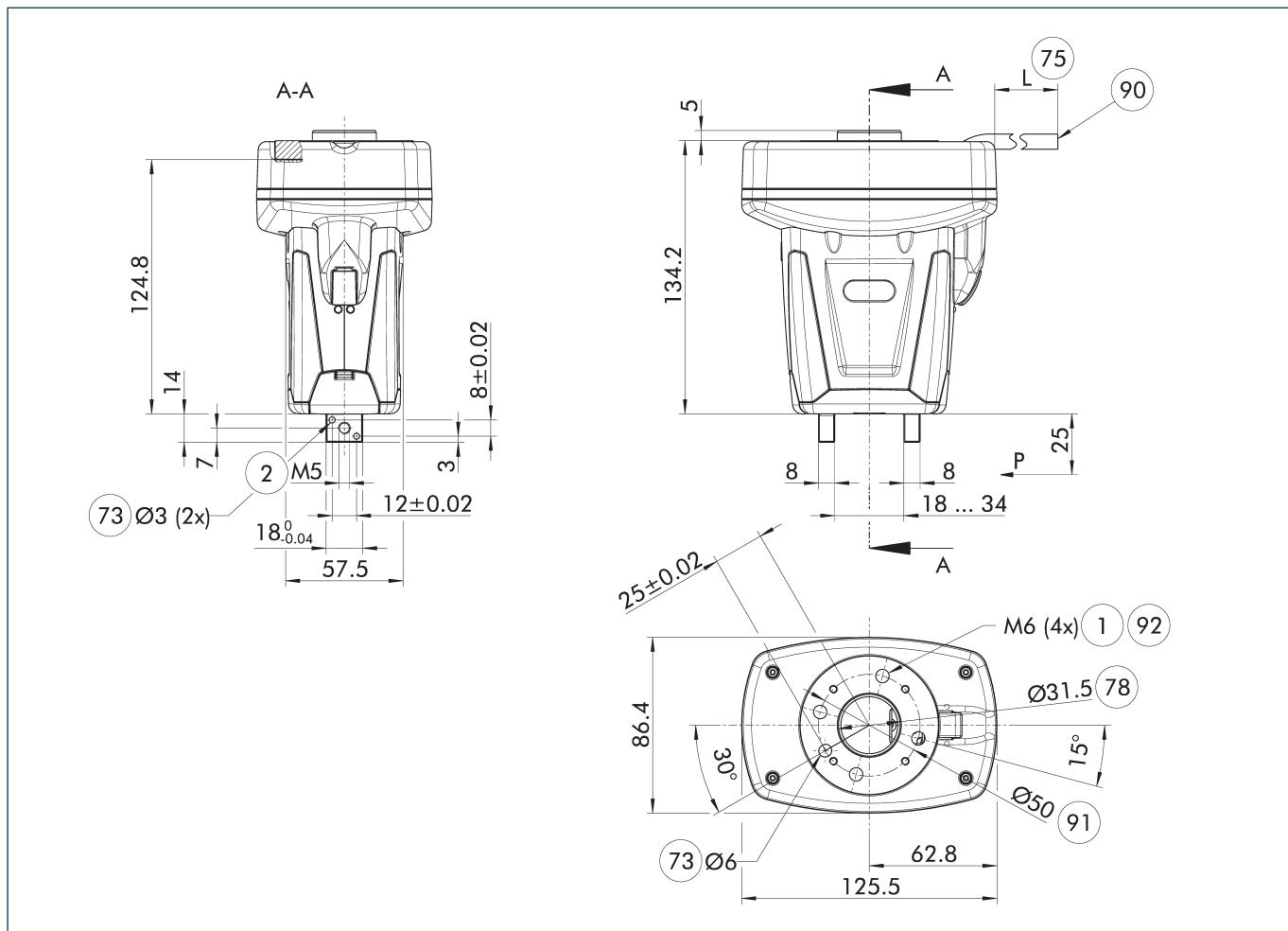
## Main view Co-act EGP-C variant - KTOE



# Co-act EGP-C 50

Collaborating gripper for small components

## Main view Co-act EGP-C 50-N-N-UREK



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

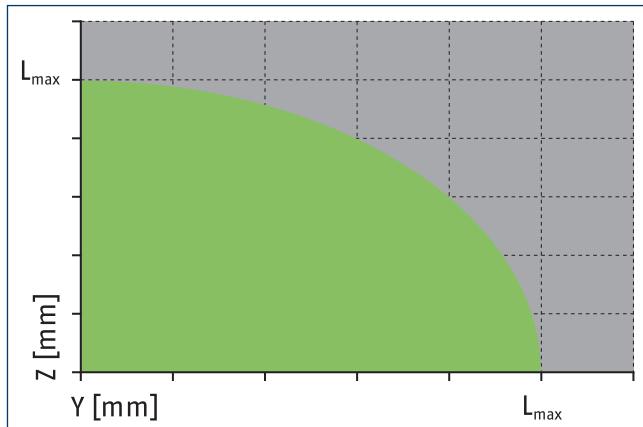
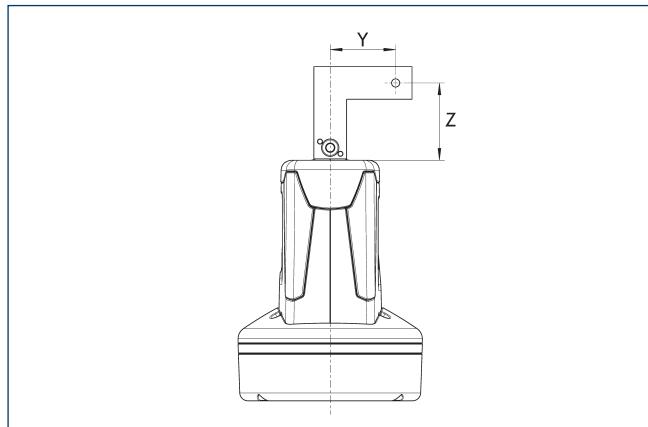
⑧ Fit for centering

⑨0 open wire strands

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

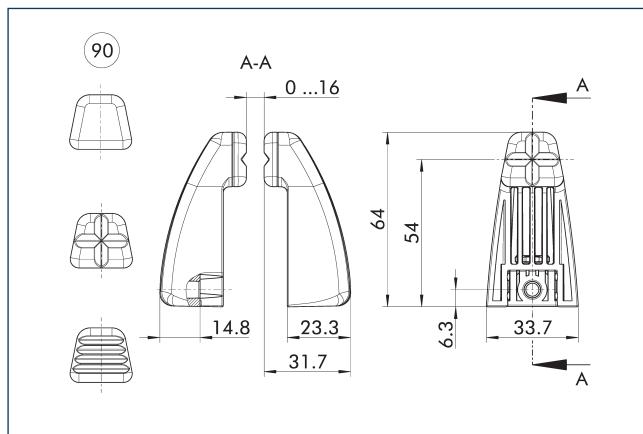
## Maximum permitted finger projection



■ Permitted range

■ Inadmissible range

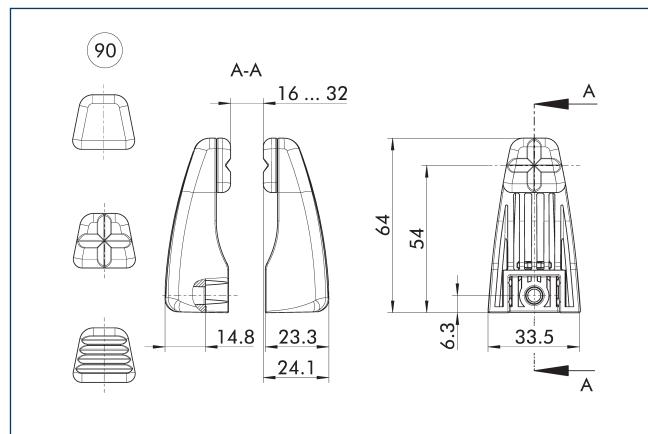
L<sub>max</sub> is equivalent to the maximum permitted finger length, see the technical data table.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 50/16	1401289	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 50/32	1401293	PA/TPU

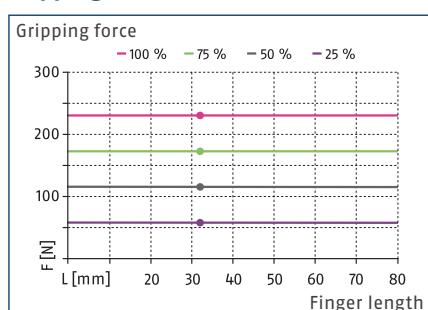
- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

# Co-act EGP-C 64

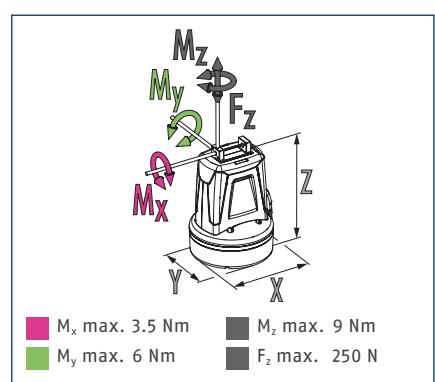
Collaborating gripper for small components



## Gripping force



## Dimensions and maximum loads



ⓘ The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

## Technical data—Co-act EGP-C for KUKA

Characterization		Co-act EGP-C 64-N-N-KETI	Co-act EGP-C 64-N-N-KTOE
ID		1326464	1321172
<b>General operating data</b>			
Compatible robot		KUKA LBR iiwa 7/14	KUKA LBR iiwa 7/14
Robot flange		Media flange electric inside	Media flange touch electric
LED strip light		integrated	integrated
Displayable colors		green, yellow, red	green, yellow, red
Integrated sensors		yes, inductive in two directions	yes, inductive in two directions
Dimensions X x Y x Z	[mm]	125.5 x 86.4 x 161.2	125.5 x 86.4 x 146.7
<b>Mechanical operating data</b>			
Stroke per jaw	[mm]	10	10
Min./max. gripping force	[N]	65/230	65/230
Min./max. force per jaw	[N]	32.5/115	32.5/115
Recommended workpiece weight	[kg]	1.15	1.15
Max. permissible finger length	[mm]	80	80
Max. permissible mass per finger	[kg]	0.24	0.24
Repeat accuracy	[mm]	0.02	0.02
Closing/opening time	[s]	0.49/0.49	0.49/0.49
Weight	[kg]	1.13	1.15
Min./max. ambient temperature	[°C]	5/55	5/55
Protection class IP		30	30
Cable connector/cable end			M12
Cable length	[mm]		70
<b>Electrical operating data</b>			
Nominal voltage	[V DC]	24	24
Nominal current	[A]	0.15	0.15
Max. current	[A]	2	2
Controller electronics		integrated	integrated
Number of digital I/O		4/2	4/2

**Technical data—Co-act EGP-C for FANUC**

Characterization	Co-act EGP-C 64-N-N-FCR7	
ID	1326469	
<b>General operating data</b>		
Compatible robot	FANUC CR-7 iA	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	125.5 x 86.4 x 146.7
<b>Mechanical operating data</b>		
Stroke per jaw	[mm]	10
Min./max. gripping force	[N]	65/230
Min./max. force per jaw	[N]	32.5/115
Recommended workpiece weight	[kg]	1.15
Max. permissible finger length	[mm]	80
Max. permissible mass per finger	[kg]	0.24
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.49/0.49
Weight	[kg]	1.38
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end		open wire strands
Cable length	[mm]	4000
<b>Electrical operating data</b>		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.15
Max. current	[A]	2
Controller electronics		integrated
Number of digital I/O		4/2

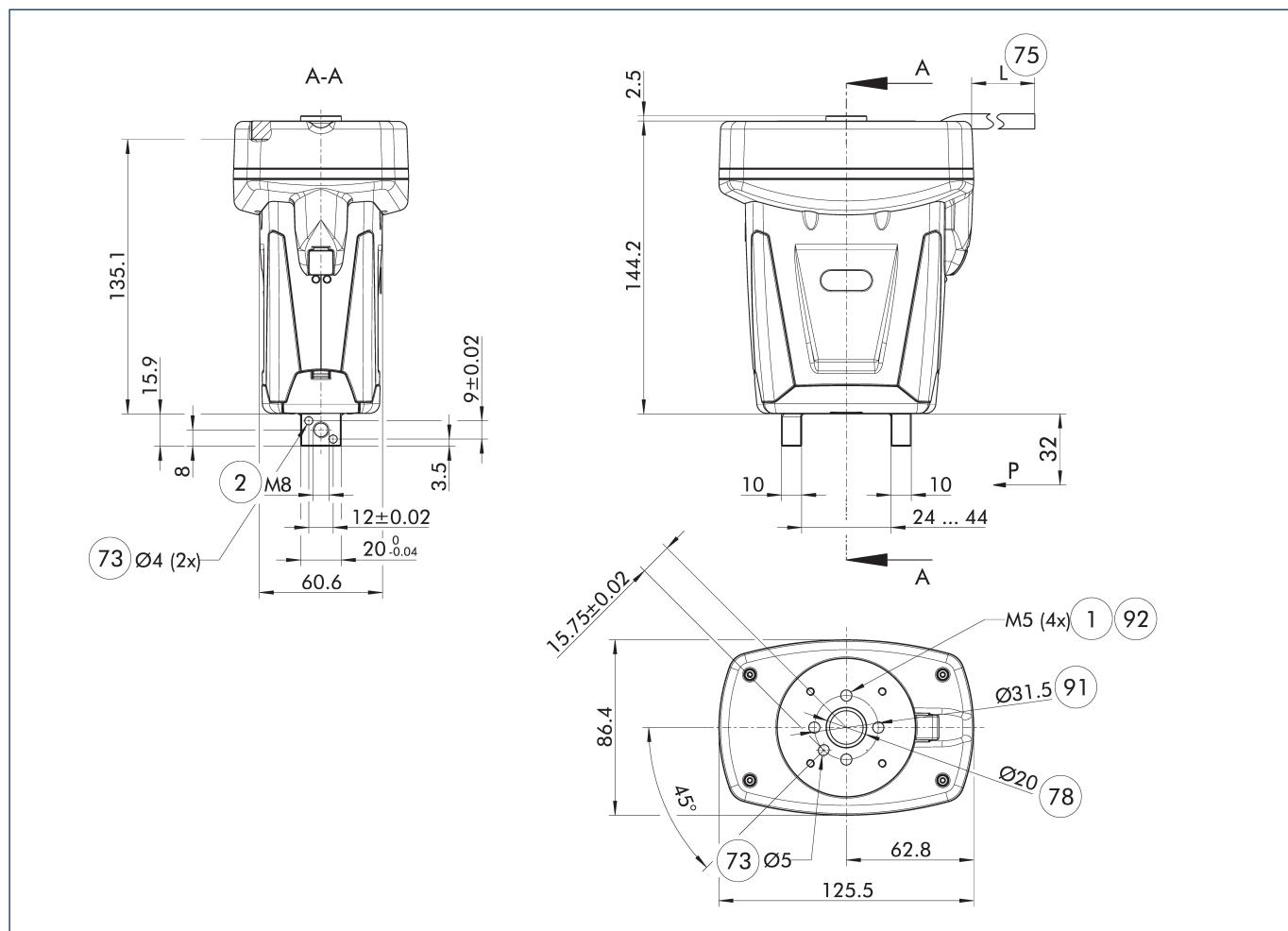
# Co-act EGP-C 64

Collaborating gripper for small components

## Technical data—Co-act EGP-C for Universal Robots

Characterization	Co-act EGP-C 64-N-N-UREK	
ID	1327885	
General operating data		
Compatible robot	UR 3/5/10/16	
Robot flange	Standard flange	
LED strip light	integrated	
Displayable colors	green, yellow, red	
Integrated sensors	yes, inductive in two directions	
Dimensions X x Y x Z	[mm]	125.5 x 86.4 x 146.7
Mechanical operating data		
Stroke per jaw	[mm]	10
Min./max. gripping force	[N]	65/230
Min./max. force per jaw	[N]	32.5/115
Recommended workpiece weight	[kg]	1.15
Max. permissible finger length	[mm]	80
Max. permissible mass per finger	[kg]	0.24
Repeat accuracy	[mm]	0.02
Closing/opening time	[s]	0.49/0.49
Weight	[kg]	1.38
Min./max. ambient temperature	[°C]	5/55
Protection class IP		30
Cable connector/cable end	open wire strands	
Cable length	[mm]	4000
Electrical operating data		
Nominal voltage	[V DC]	24
Nominal current	[A]	0.15
Max. current	[A]	2
Controller electronics	integrated	
Number of digital I/O		4/2

## Main view Co-act EGP-C variant - FCR7



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

⑦8 Fit for centering

⑨0 open wire strands

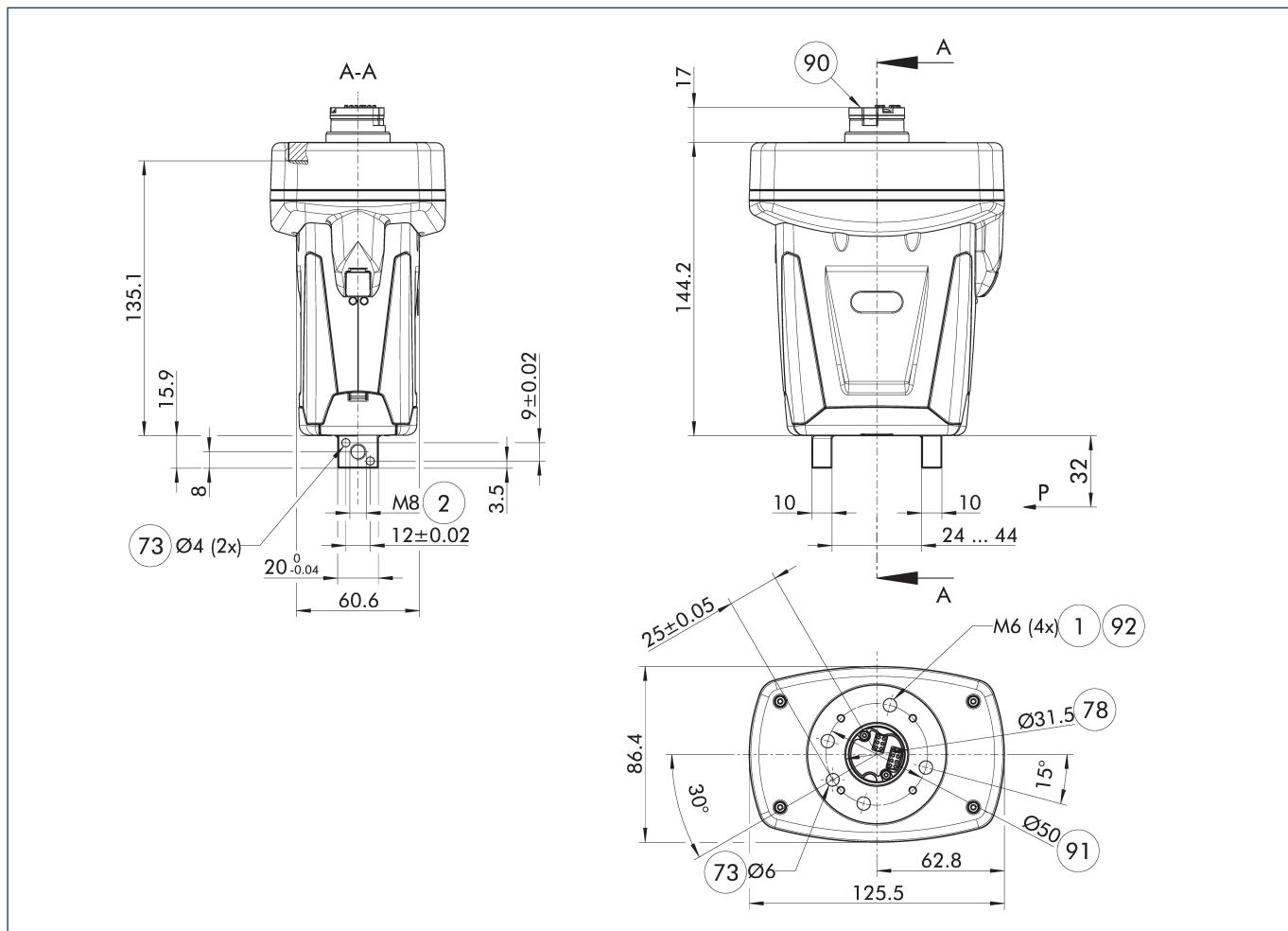
⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

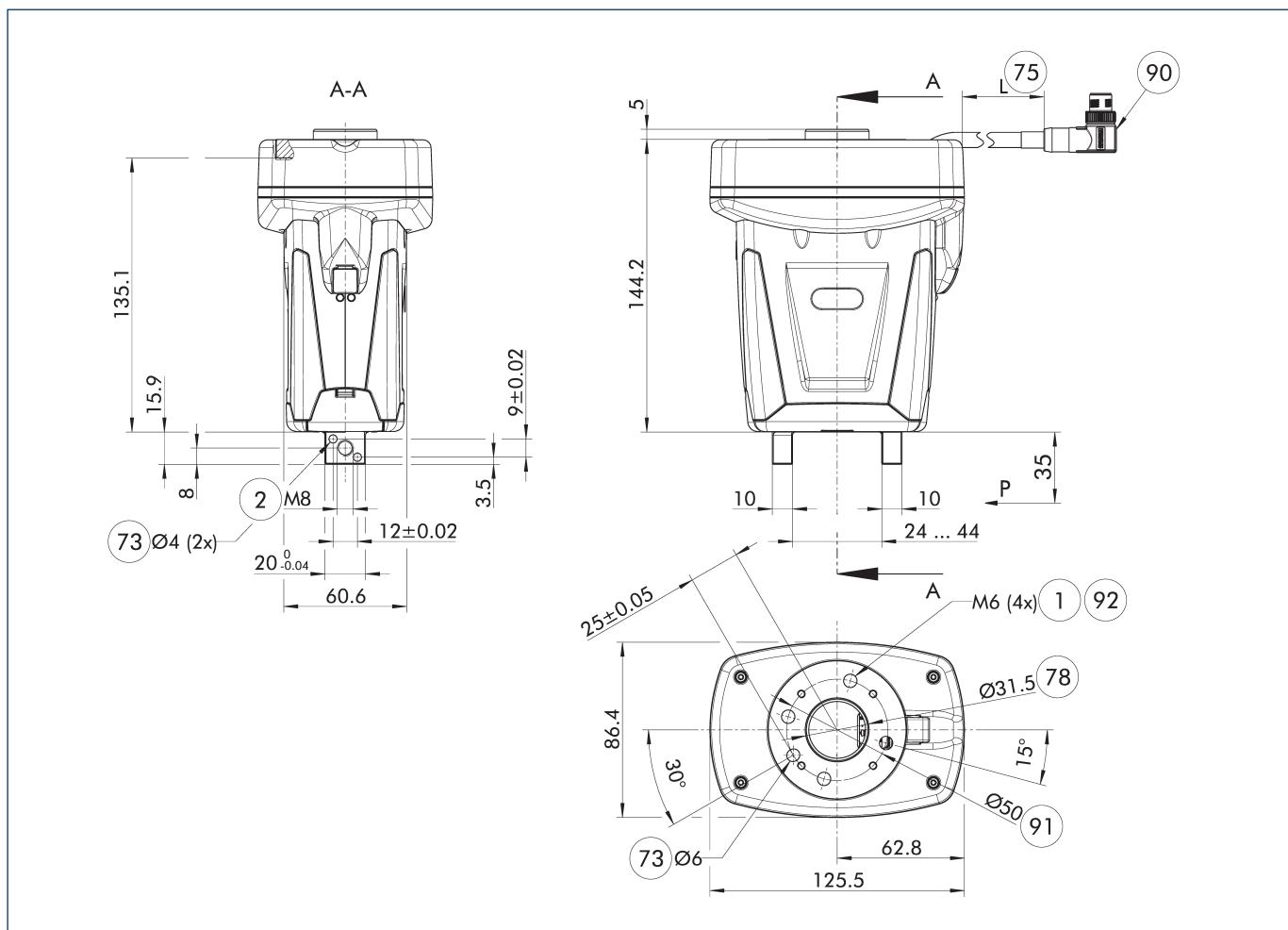
# Co-act EGP-C 64

Collaborating gripper for small components

## Main view Co-act EGP-C variant - KETI



## Main view Co-act EGP-C variant - KTOE



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

③ Fit for centering pins

④ Cable length

⑤ Fit for centering

⑥ M12 connector, 17-pin

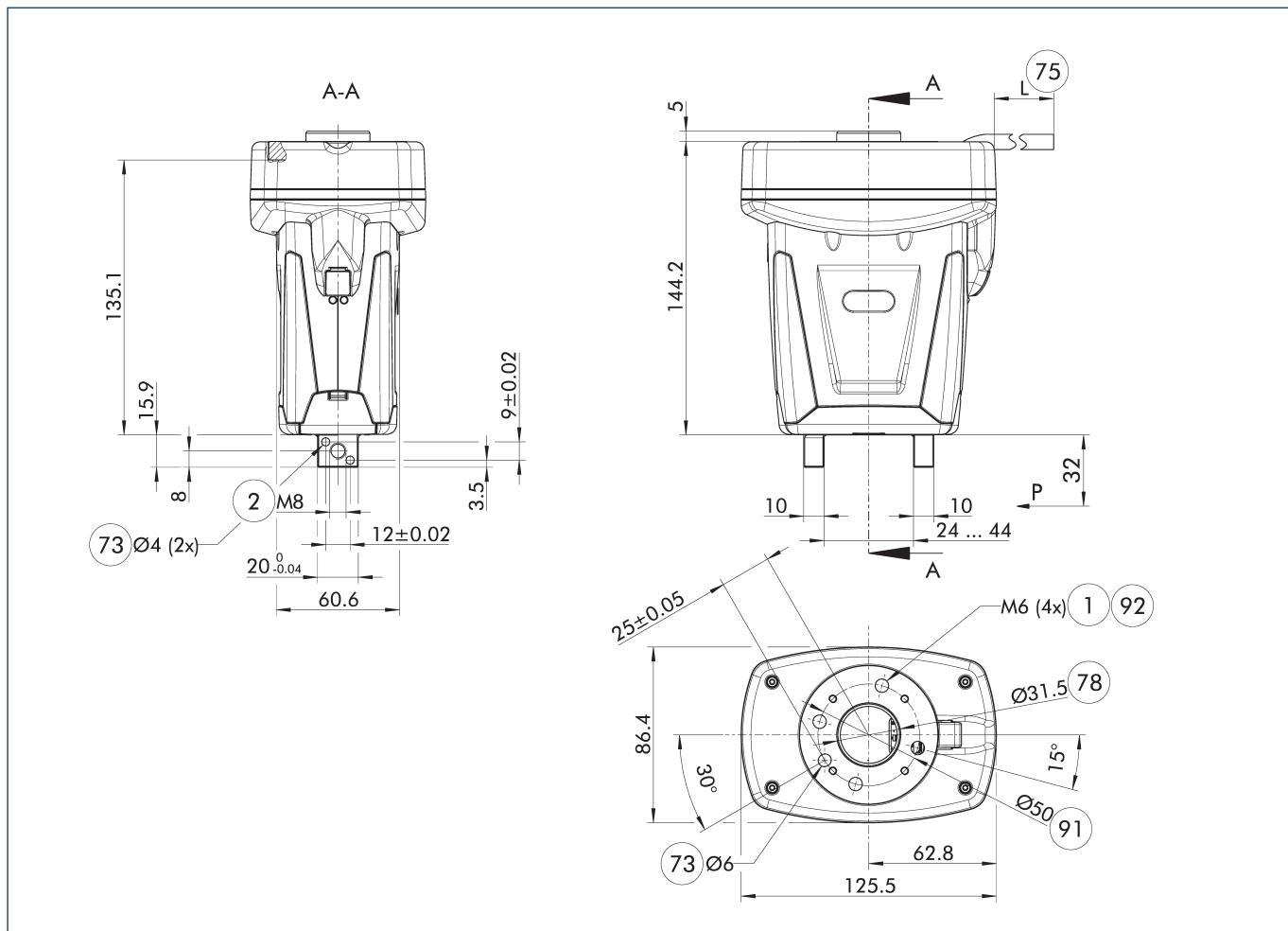
⑦ DIN ISO-9409 bolt circle

⑧ Through holes for screw connections

# Co-act EGP-C 64

Collaborating gripper for small components

## Main view Co-act EGP-C 64-N-N-UREK



The drawing shows the basic version of the gripper with open jaws.

① Gripper connection

② Finger connection

⑦3 Fit for centering pins

⑦5 Cable length

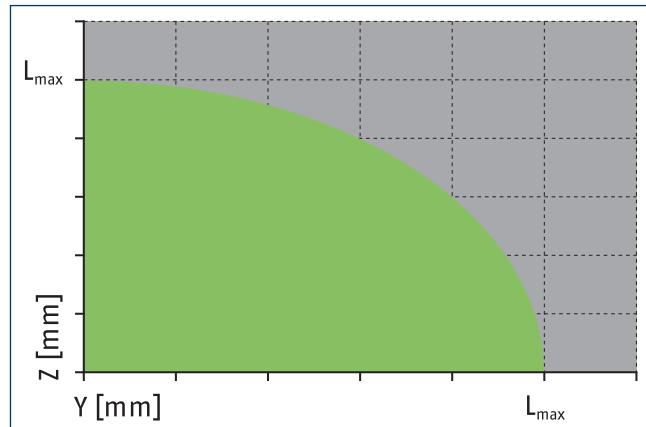
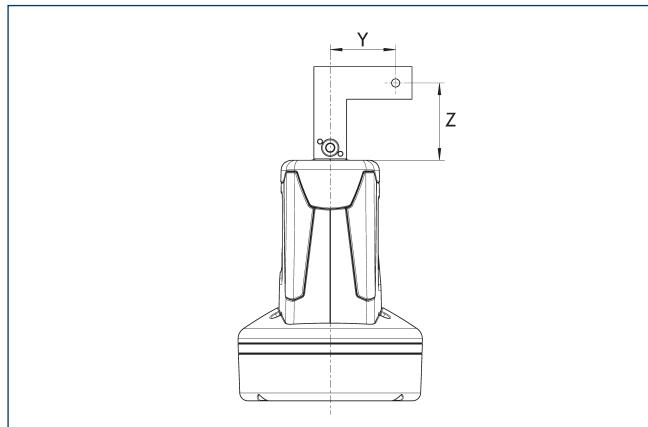
⑧ Fit for centering

⑨0 open wire strands

⑨1 DIN ISO-9409 bolt circle

⑨2 Through holes for screw connections

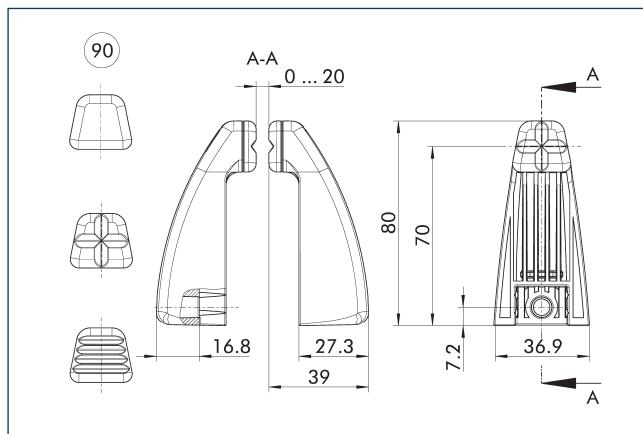
## Maximum permitted finger projection



Permitted range

Inadmissible range

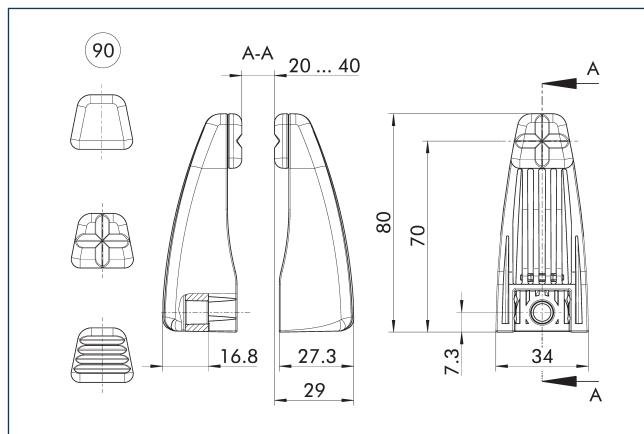
L<sup>max</sup> is equivalent to the maximum permitted finger length, see the technical data table.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 64/20	1401294	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

**Top jaw AUB Co-act EGP****⑨0 Finger inserts**

The top jaws are specifically designed for the Co-act EGP gripper. Depending on the size, they are available with varying clamping ranges. Depending on the application and workpiece, one of the supplied finger inserts can be used. The finger inserts are manufactured from rigid or elastic material.

Characterization	ID	Material
Finger blank		
AUB Co-act EGP 64/40	1401297	PA/TPU

- ① The scope of delivery includes two top jaws including fastening material. Observe the notes in the Assembly and Operating Manual of the Co-act EGP gripper.

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