

SCHUNK Gripping System for Universal Robots

Electric 2-Finger Parallel Gripper | Small Part Gripper

Application Area

Gripping and moving of small to medium-sized workpieces with flexible force and high speed in clean environments, such as assembly, testing, laboratory and pharmaceutical industry model in size, shape, and agility.



- + Designed for UR 3, UR 5 or UR 10
- + Gripping force can be adjusted in four stages up to a maximum of 140 N
- + Easy to integrate with the existing electrical and mechanical tool interface from UR
- + Integrated proximity switches for position feedback
- + Easy mounting without removing the protective cover



Advantages – Your Benefit

Highest power density for the use of smaller grippers sizes

Digital actuation with binary signals for easy start-up and rapid integration into existing facilities

Two to four stage adjustable gripping force for simple adaption to sensitive workpieces

Very high maximum cycles per minute for highest productivity

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

Compact dimensions for minimal interfering contours in the application

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Functional Description:

Electric 2-finger parallel gripper with smooth-running base jaws guided on roller bearings. The powerhouse for small parts handling is a revolution in the field of mechatronic grippers. The gripper is easily controlled via digital inputs and outputs from the UR robot, and it can be assembled on the UR 3, UR 5 or UR 10.

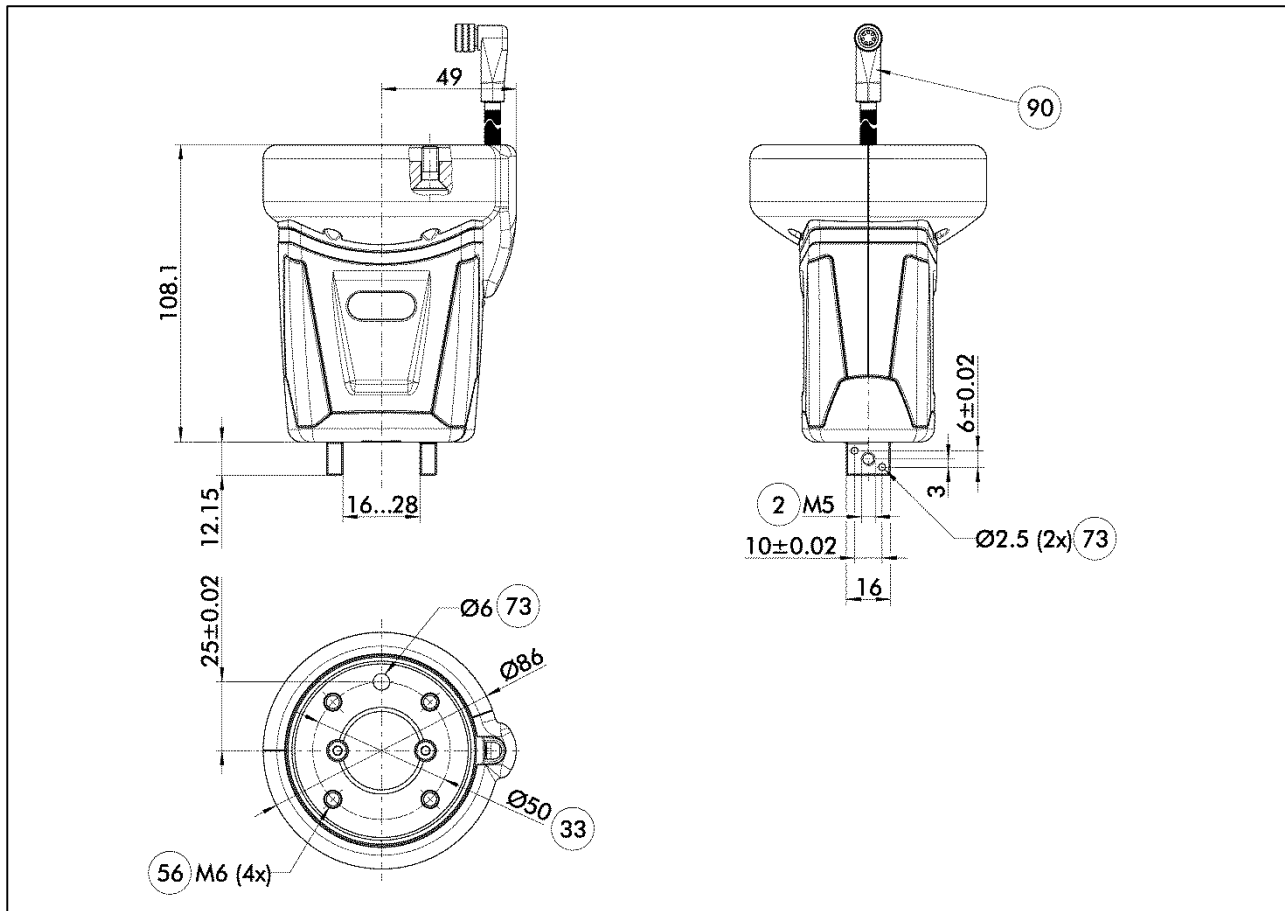
Technical data:

ID:	1313563
Stroke per jaw:	6 mm
Min. / max. gripping force:	35 N / 140 N
Recommended workpiece weight:	0.7 kg
Max. permitted finger length:	50 mm
Max. permitted weight per finger:	0.08 kg
Repeat accuracy:	0.02 mm
Closing / opening time:	0.2 s / 0.2 s
Weight:	0.7 kg
Min. / max. ambient temperature:	5 °C / 55 °C
IP protection:	30
Integrated controller electronics	
Nominal voltage:	24 V DC
Nominal current:	0.2 A
Max. power supply:	0.5 A
Communication interface:	Digital inputs and outputs
Number of digital inputs/outputs:	2/2

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Main view:



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

2

Finger connection

33

Flange EN ISO-9409-1-50-4-M6

56

Captive screws (Included in the scope of delivery)

73

Centering Pin (Included in the scope of delivery)

90

Electrical connection to the robot for power supply and digital inputs and outputs

Note: Delivery without fingers. Ask SCHUNK for standard or customized fingers.

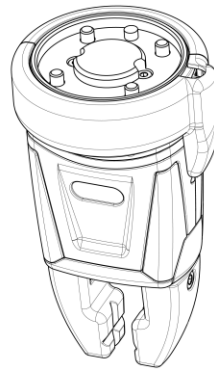
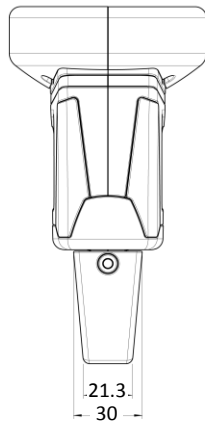
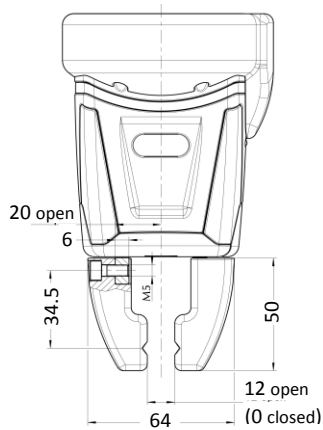
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Functional Description:

Universal fingers with rounded and smoothed edges which can be used for gripping by friction or shape connection. With the prism also round parts can be gripped.

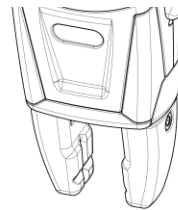
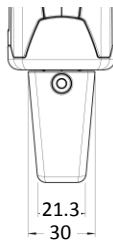
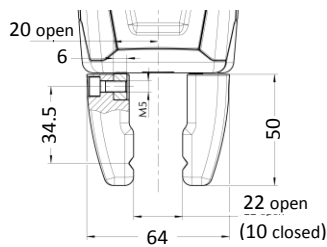
Optional Finger Sets:



Technical data:

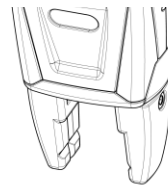
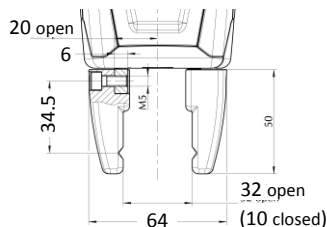
ID: 37003069

Gripping Range: 0 to 12 mm



ID: 37003070

Gripping Range: 10 to 22 mm



ID: 37003071

Gripping Range: 20 to 32 mm

The drawings show the optional finger sets mounted on the basic version of the gripper with open jaws.

Scope of delivery:

Set of two fingers and screws

Material:

Polyamid PA2200 (color white)

Need Help?

Do you have a question regarding the technology, price or delivery time?

We are looking forward to hearing from you.

Automation Team

(919) 572-2705

automation-apps@us.schunk.com