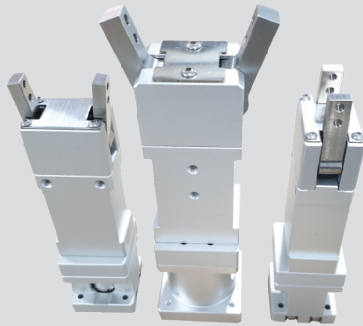


KESG series



Features

- Pneumatic 180 degree opening/closing type can be replaced
- Bearing link structure for improved durability
- Minimized finger play and improved opening/closing speed
- Application of precision ball screw, enhanced grip through drive method
- Applicable to stepping motor and servo motor
- Possible to control workpiece pressure by motor load factor control
- Coupling motor direct connection method

How to Order

KESG 16

① ②

① Series

KESG	180 degree retractable electrical gripper
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② Size

	Body (Tube) Size (Width X Height)
16	22 X 32 mm
25	30 X 38 mm

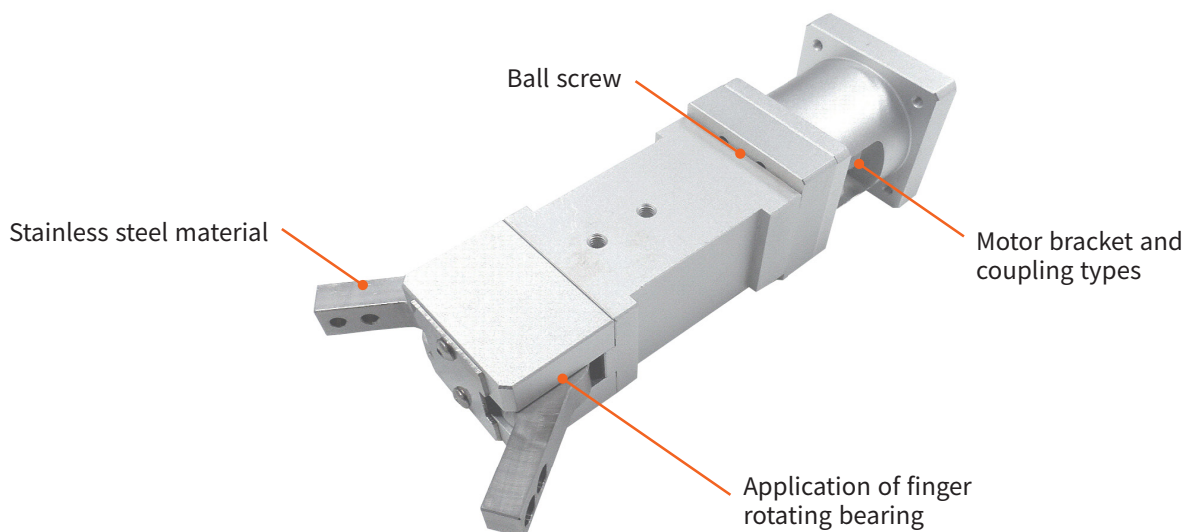
Specification

Type		KESG 16	KESG 25
Double-sided opening and closing stroke (°)		180	
Max. gripping force for opening and closing (at 250 rpm) "Note 1)" (N)		60	150
Max. workpiece mass (kg)		0.6	1.5
Operating type		Ball screw (0401) + cam	Ball screw (0602) + cam
Finger guide		Link	
Max. length of jig "Note 2)" (mm)		45	60
Repetition precision (mm)		±0.02	
Operating temperature (°C)		1 ~ 55	
Operating humidity range (%RH)		90 or less	
Applicable motor size (mm)		28	42

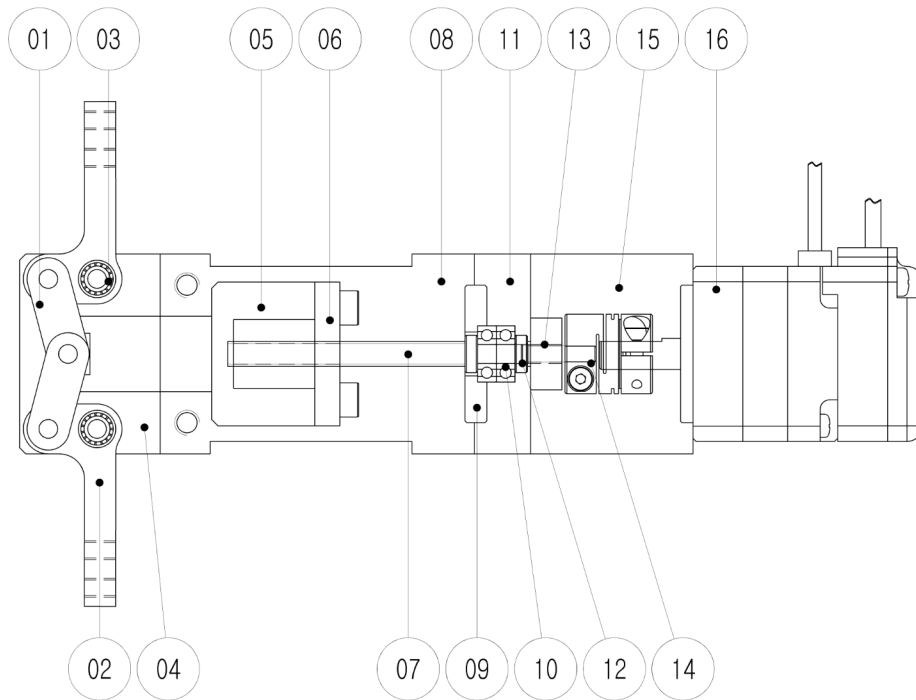
Note 1) In the case of gripping force, select at least 10 times the mass of the workpiece.

Note 2) Please select a gripping point within the maximum length of the jig.

Features



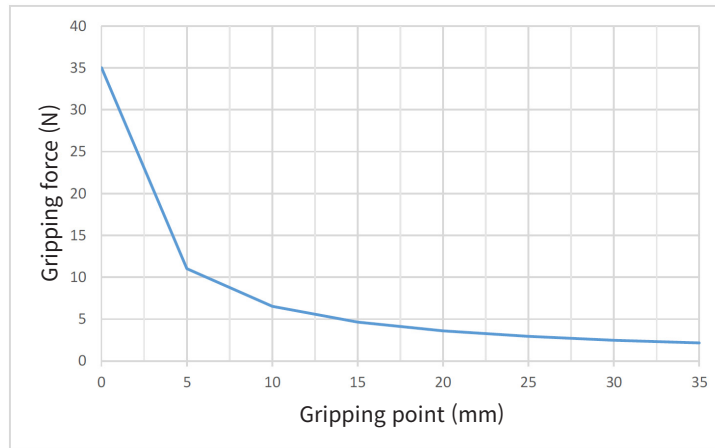
Structure



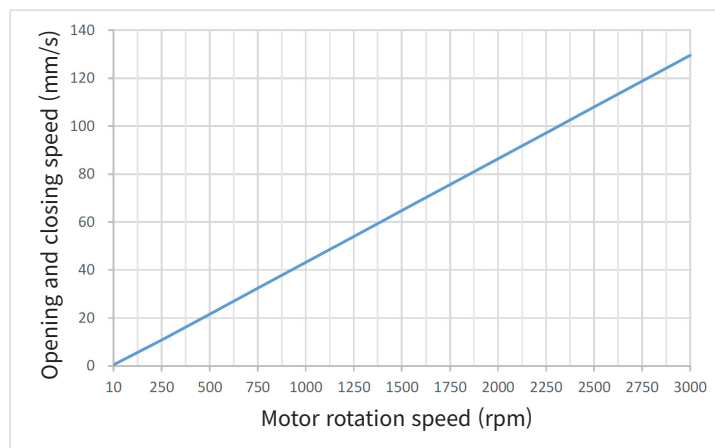
No.	Parts	Material	No.	Parts	Material
1	Link	Carbon steel	9	Bearing cover	Stainless steel
2	Finger	Stainless steel	10	Ball bearing	Bearing steel
3	Finger bearing	Bearing steel	11	Bearing housing	Aluminum alloy
4	Plate	Aluminum alloy	12	Spacer	Carbon steel
5	Joint	Stainless steel	13	Lock nut	Carbon steel
6	Ball nut	Heat treated steel	14	Coupling	Aluminum alloy
7	Ball screw	Heat treated steel	15	Motor bracket	Aluminum alloy
8	Body	Aluminum alloy	16	Motor	-

Product characteristic table

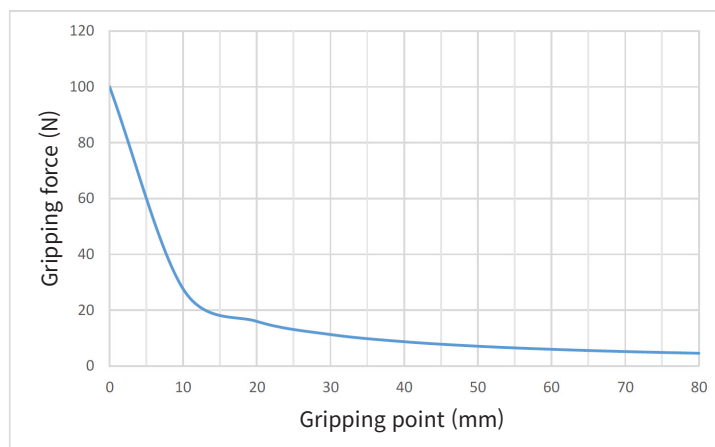
KESG16 gripping force - gripping point graph



KESG16 Open/close speed graph according to motor rotation speed

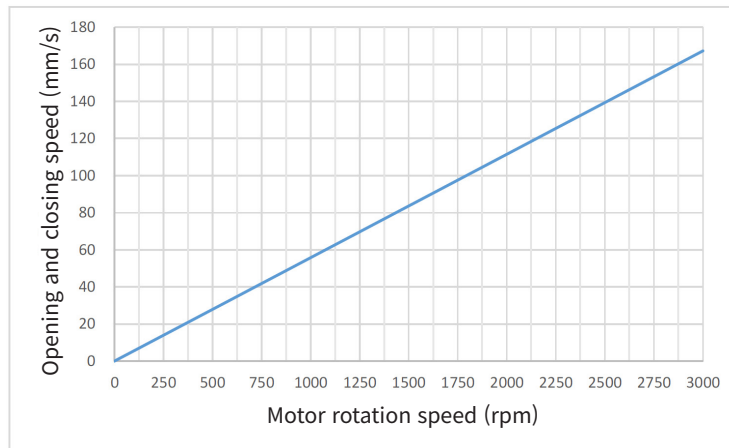


KESG25 gripping force - gripping point graph

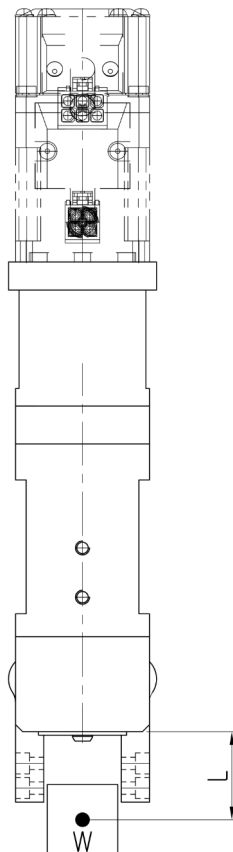


Product characteristic table

KESG25 Open/close speed graph according to motor rotation speed



Application example of gripping force according to gripping point



[example]

What if the gripping force of KESG25 is obtained when the gripping point is 20MM?

■ What is the maximum usable workpiece mass when the gripping point is 20mm?

The gripping point of KESG25 - Checking the gripping force graph shows that the gripping force is about 18N when the gripping point is 20mm.

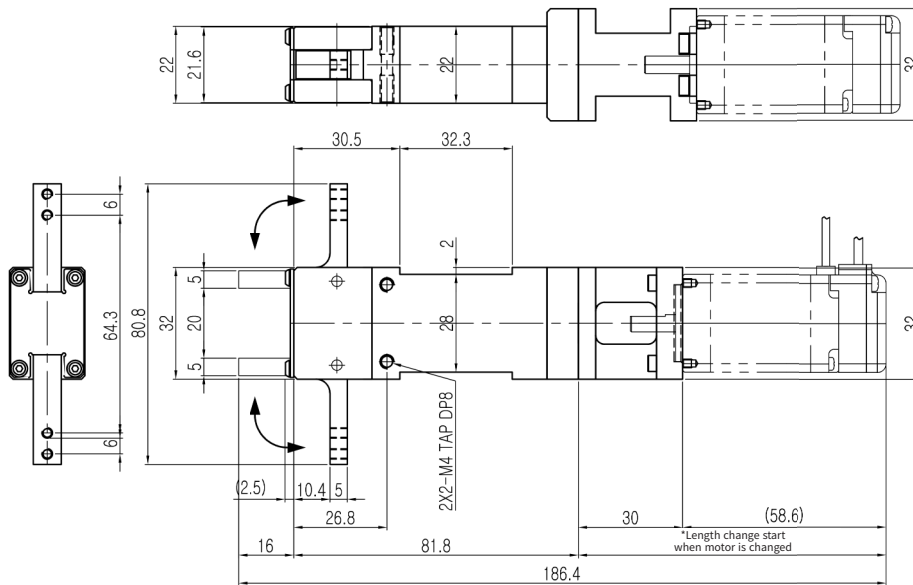
L : Gripping point

W : Work center



Dimensions

KESG 16



KESG 25

