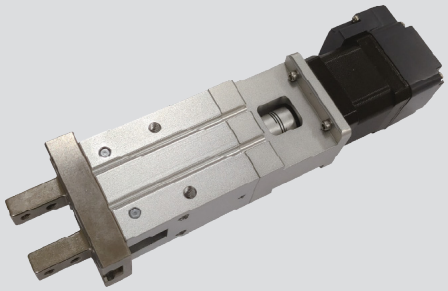
KEHG series



Features

- Alternative to pneumatic parallel open/close type
- Application of high rigidity ball LM guide gripper
- Standard application of precision lead screw
- Internal/external grip available
- Application of magnetic non-contact auto switch
- Workpiece pressure can be controlled by motor load factor control
- Coupling motor direct connection method

How to Order

KEHG ① 16 ② - S1 ③

① Series

KEHG	Parallel Open/Close Type Electrical Gripper

② Size

16	24 X 30.6 mm
25	34 X 52 mm
40	48 X 72 mm

③ Sensor type

Solid state auto switch (Φ4)		
Type	NC	NO
Nil	-	-
S1	2	1
S2	2	-
S3	-	2
S4	-	3

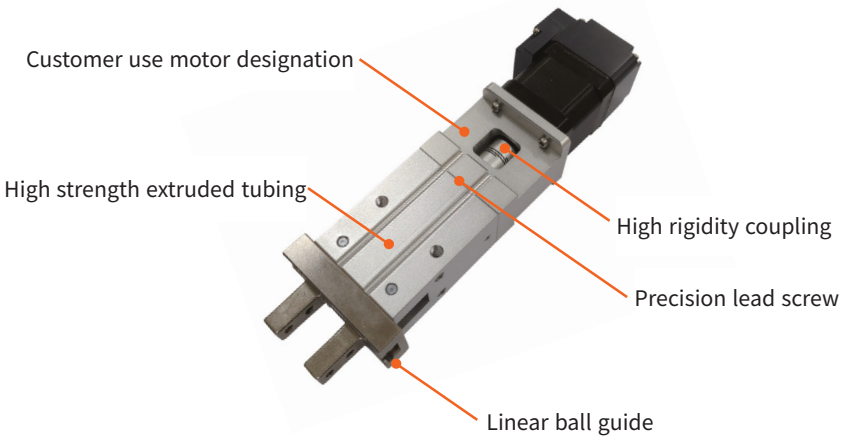
※Standard length: 2M

Specification

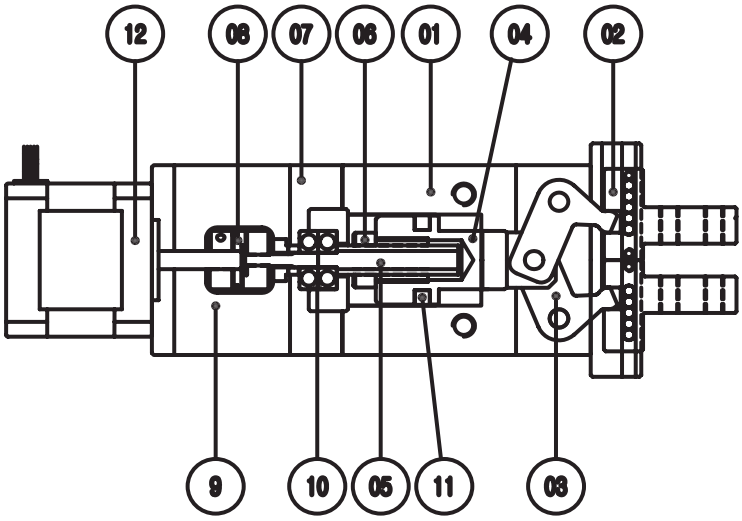
Type		KEHG 16	KEHG 25	KEHG 40
Double-sided opening and closing stroke	(mm)	6	14	30
Open/close max speed (at 3,000 rpm)	(mm/s)	130	167	158
Max. gripping force for opening and closing (at 250 rpm) "Note 1)"	(N)	35	100	300
Max. workpiece mass	(kg)	0.35	1	3
Operating type		Slide screw + cam		
Finger guide		Ball guide		
Max. length of jig "Note 2)"	(mm)	35	80	100
Repetition precision	(mm)	±0.05		
Finger backlash on both sides “Note 3)”	(mm)	0.8 or less		1.2 or less
Operating temperature	(°C)	1 ~ 55		
Operating humidity range	(%RH)	90 or less		
Applicable motor size	(mm)	28	42	60

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.
Note 3) Finger backlash amount on both sides: When gripping, the mechanical part is pressed and there is no effect of backlash.
If the gripping force does not work, set the stroke by the amount of backlash.

Features



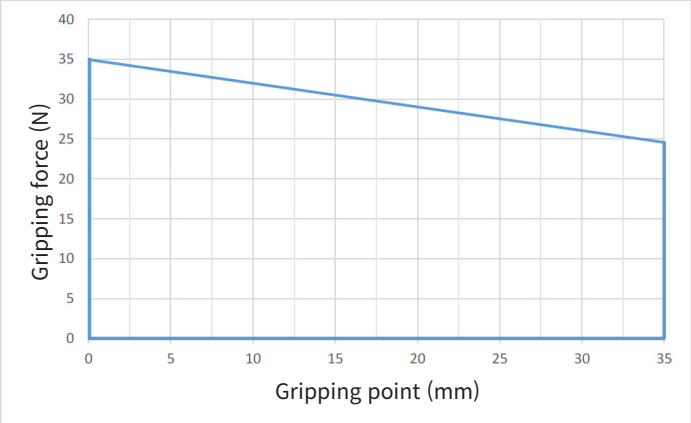
Structure



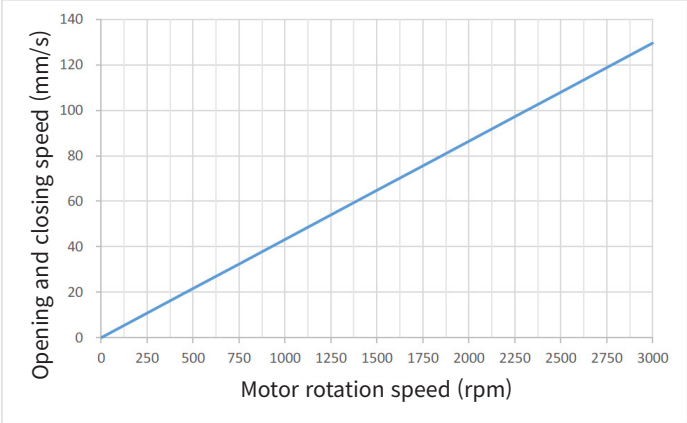
No.	Parts	Material	No.	Parts	Material
1	Body	Aluminum alloy	7	Bearing housing	Aluminum alloy
2	Linear ball guide	Heat treated steel	8	Coupling	Aluminum alloy
3	Link	Carbon steel	9	Motor bracket	Aluminum alloy
4	Joint	Stainless steel	10	Bearing	Bearing steel
5	TM screw	Carbon steel	11	Magnet	Rubber
6	TM nut	Copper alloy	12	Motor	-

Product characteristic table

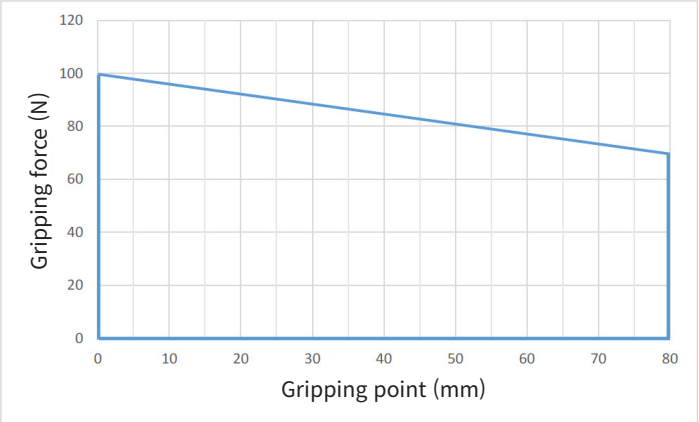
KEHG16 gripping force - gripping point graph



KEHG16 Open/close speed graph according to motor rotation speed

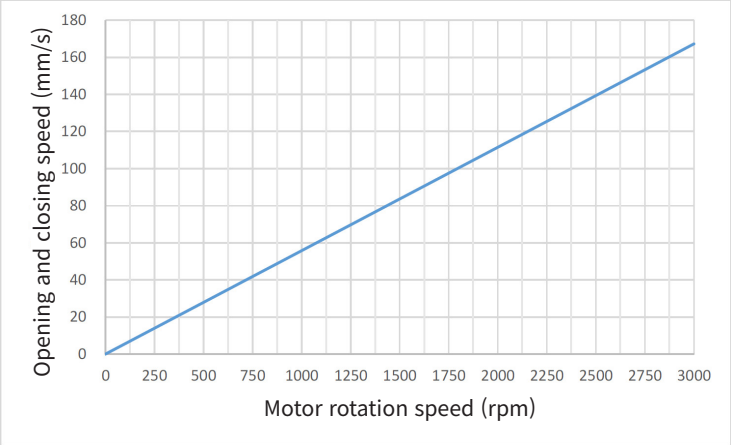


KEHG25 gripping force - gripping point graph

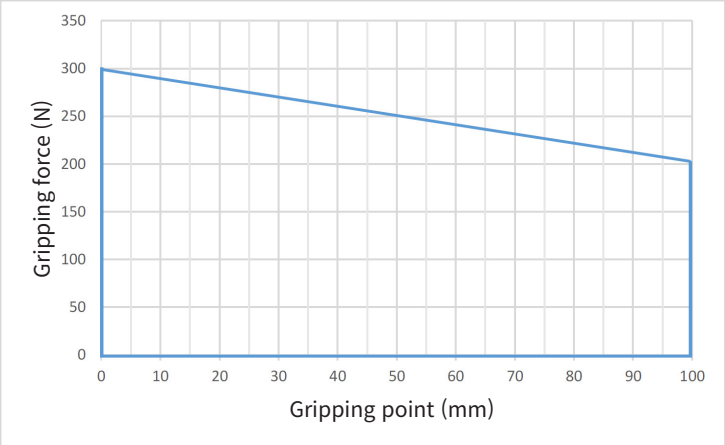


Product characteristic table

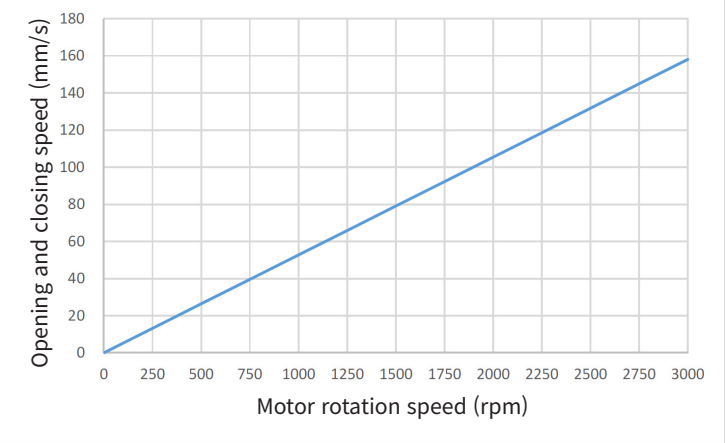
KEHG25 Open/close speed graph according to motor rotation speed



KEHG40 gripping force - gripping point graph

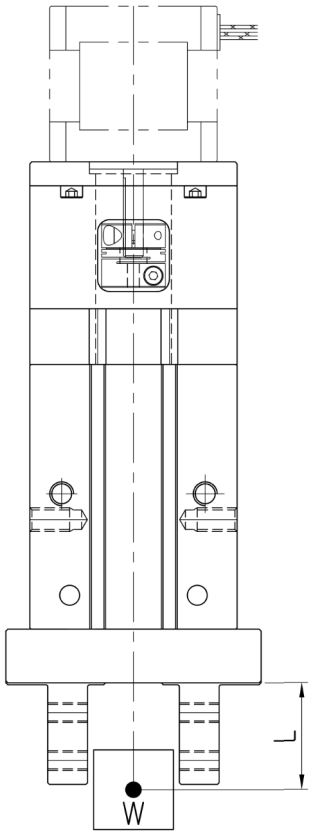


KEHG40 Open/close speed graph according to motor rotation speed



Product characteristic table

Application example of gripping force according to gripping point



[example]

What if the gripping force of KEHG25 is obtained when the gripping point is 20MM?

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

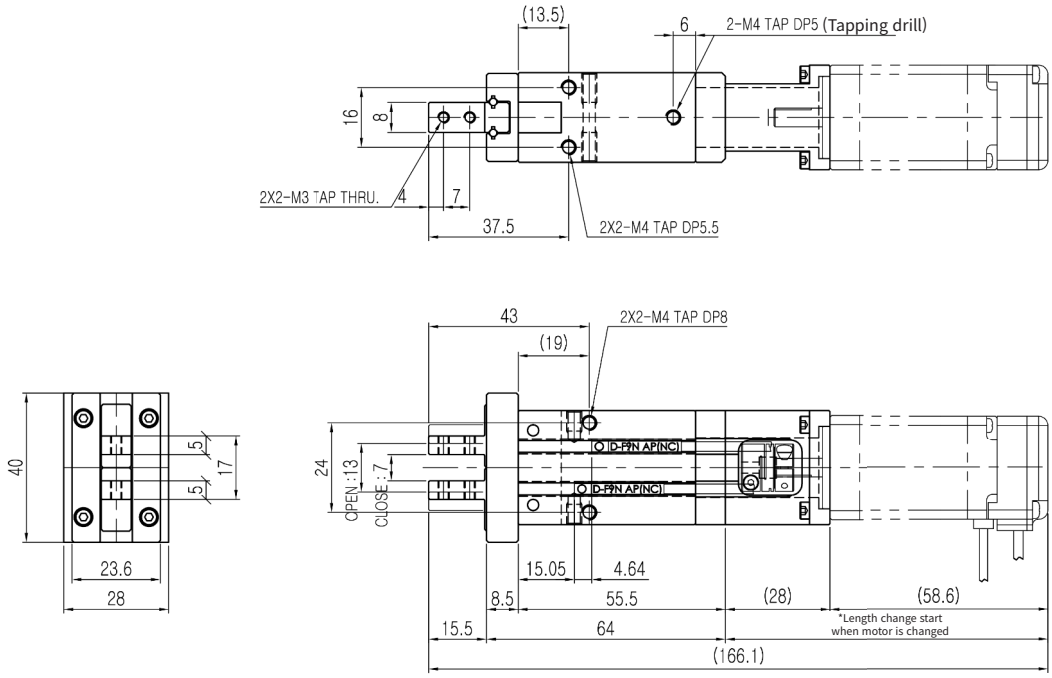
The gripping point of KEHG25 -
Checking the gripping force graph shows that the gripping force is about 90N when the gripping point is 20mm.

L : Gripping point

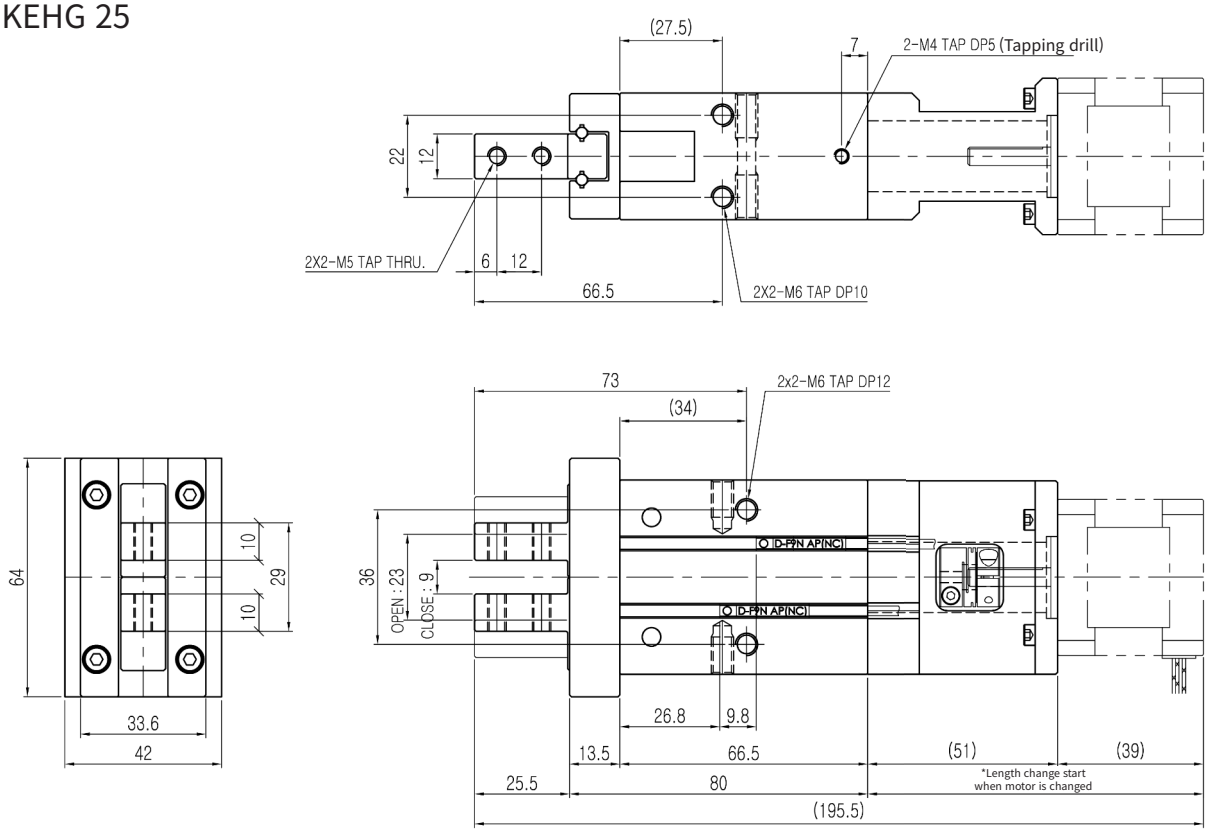
W : Work center

Dimensions

KEHG 16



KEHG 25



Dimensions

KEHG 40