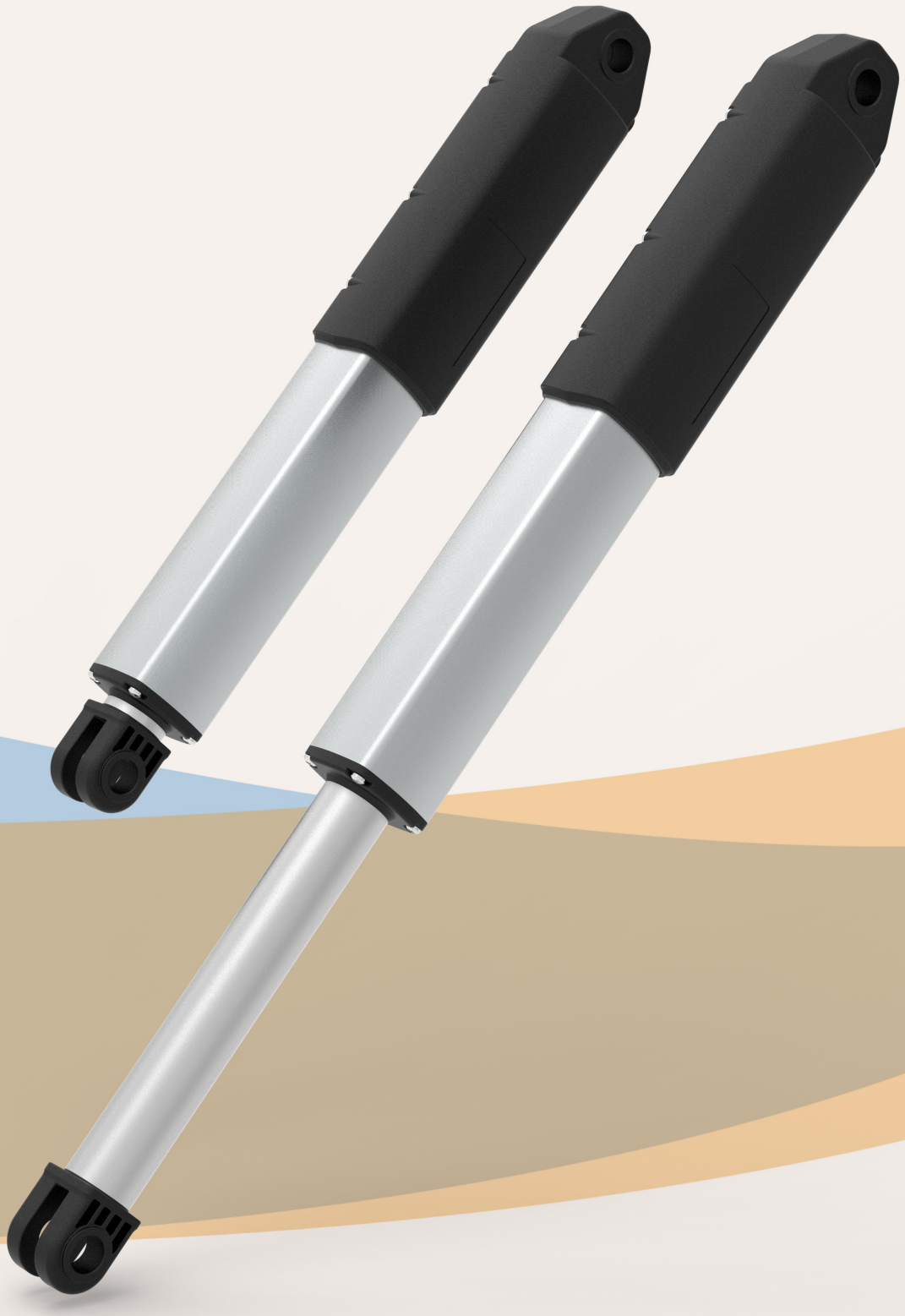
GeMinG Linear Drive

HTK36

Series
Actuator



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Version:Gem00373/10/2025HTA28-No

HTK36

Series

Actuator

Product Category

1、Medical

2、furniture

3、Car

Download 3D model

HTK36 linear actuator is a pen-type actuator with planetary reduction gearbox, which is widely used in the motion and function control of various intelligent devices. It has compact size to meet the space requirements of various small and medium-sized devices. This model has built-in limit switches, compact size, small volume, large thrust, and a maximum rated thrust of 1000N. It is easy to install, compact and vertically solid, suitable for use in environments with limited space, and can be used in industry, home, automobile and other intelligent devices.

Functional Overview

Voltage:	12V , 24V DC
Motor Options:	DC Motor
Maximum thrust (pull):	1,200 N / 1,200 N
Slowest speed under load:	5.0mm / s (load 1,200N)
Maximum speed under load:	34 mm / s (load 300N)
Minimum installation size:	Travel + 165mm
Dynamic lateral moment:	20Nm
Static lateral moment:	30Nm
color:	Silver gray, black
Voice:	50~56 DB
Applicable temperature range:	-35°C ~ +65°C
Protection level:	IP54
Screw selection:	Trapezoidal screw
Switch Type:	Built-in limit switch,
Signal options:	***
Control options:	***
Safety certification:	Comply with ISO9001-2008, CE and RoHS compliant,
High-strength metal zinc alloy gearbox and housing,	

Smart and comfortable move

Maximum utilization of available space The motor system is nicely hidden under the bed.

The system is designed to be placed over the bed for easy cleaning or placement. Innovative solutions

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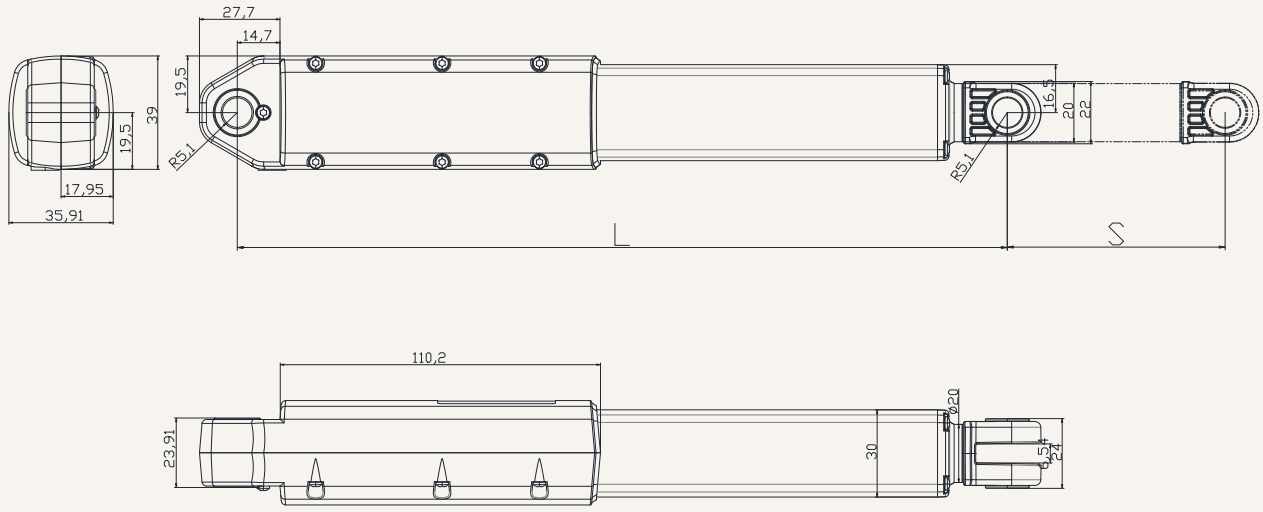
Drawings

Standard size
MM



S: Stroke

L: Retracted length

L= Stroke +165mm

More than 300MM stroke, installation size L= Stroke +180MM

tallation angle (counterclockwise)

0 =0 Degrees

9 =90 Degrees

load and speed

Code	Rated load Thrust N	Pull N	Self-locking force static conditions static N	Rated load current A	Output speed no load 24V DC mm/s	Rated load 24V DC mm/s
Motor voltage (24V DC Speed ratio 32)						
A	1200	1200	1500	1.6	10.0	8.0
B	300	300	500	1.6	34.0	30.0

Remark

1. The speed and current on the upper side are the materials that extend when pushed.

2. For 12V motor, the speed is about the same and the current is about 2 times higher.

3. The current & speed in the table are the test average values in the extension direction under thrust application.

4. The current & speed in the table and graph are the test average values of the GeMinG control box configuration, and there is an error of about 10% depending on the control box model.

(The voltage is about 29V DC at no load, and drops to about 24V DC at rated load)

Stroke: minimum value ≥ 20mm, please refer to the table below for the maximum value of load and stroke

load (N)	Maximum stroke (mm)
1,200	50-200
800	201-300
500	301-400
300	401-600

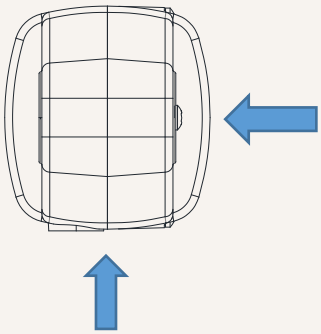
Remark:

Lateral moment Y direction = X*0.8

Static lateral moment = dynamic*2

Dynamic lateral moment (Nm)-X direction

stroke	S+165	S+180
100-200	50	80
300-500	20	30



Lateral moment Y

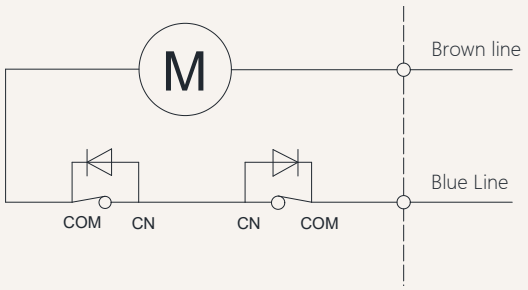
Stroke installation size reference chart

HTA28 Series	stroke ± 2 (mm)				Install ± 2 (mm)				
strokeMM	100	150	200	250	300	350	400	450	500
Install MM	225	275	325	375	425	475	525	575	640
weight KG	1,2	1.4	1.6	1.8	2.1	2.3	2.5	2.7	3.2

Actuator wiring diagram

No signal feedback wiring diagram

Code：N



Wiring Instructions:

1】Brown lead: motor positive +

2】Blue lead: motor negative pole -

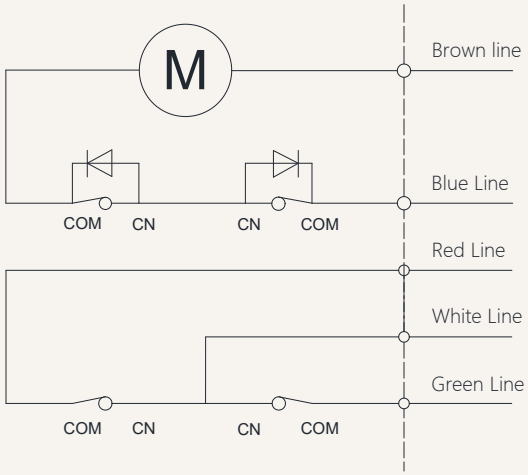
3】When the push rod is extended: the brown wire is positive +, the blue wire is negative -

4】When the push rod is retracted: the blue line is positive +, the brown line is negative -

Actuator wiring diagram Built-in control module

Built-in controller wiring diagram

Code：NY



Wiring Instructions:

1】Brown lead: motor positive +

2】Blue lead: motor negative pole -

3】When the push rod is extended: white line + red line

4】When the push rod retracts: white line + green line

5】White line: control output common line.

6】White and red lines: stretch out,

7】White and green lines: retract,

8】Wireless remote control, use wired control simultaneously.

Other signal descriptions

Feedback signal	Description	Function
Active endpoint feedback signal	Voltage with this model	When the push rod reaches the end point, a signal will be fed back. This signal will always exist and will disappear during the operation of the push rod.,
Passive endpoint feedback signal	No voltage	When the push rod reaches the end point, it will feedback a signal. This signal always exists when the input power is not turned off. When the input power is turned off, the signal disappears. The signal will also disappear during the operation.
Note: For other needs, please contact the GeMinG team		

HTK36 Model Description Selection Code Table

HTK36	-	24	A	***	***	-	O1	O1	0	1	T	A	N	07
①		②	③	④	⑤		⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬

①	Product number	HTK36			
②	Voltage	12=12V DC	24=24V DC		
③	Load(n)@Speed (mm/s)	See page 06			
④	Stroke(mm)	See page 06			
⑤	Installation size(mm)	Note: Before selecting a size, please refer to the valid data sheet! See page 05			
⑥	Upper type	O1 = Regular type. Aperture 10.5mm			
⑦	lower type	O1 = Regular type, hole diameter 10.5mm			
⑧	Installation angle (counterclockwise)	0 =0°, Degree			
⑨	Please refer to the outlet type	12 = 2-core bare wire			
⑩	Lead screw options	T = Trapezoidal screw			
⑪	Control method	A = No Control T = ***	C = *** K= Customization	Y =***	N=***
⑫	Signal output options	N = No signal W=***	H =*** AN=***	D=***	U=Active signal
⑬	Cable length	07 = length 0.7 M 30 = length 3.0 M 70 = length 7.0 M	10 = length 1.0 M 40 =length 4.0M 70 =length 8.0 M	15 =length 1.5 M 50 =length 5.0 M 90 =length 9.0 M	20= length 2.0 M 60= length 6.0M 00 =Customization