

KC75

Series model

Lifting Column



Applications

1. Solar Tracking
2. Industrial
3. Agricultural

KC75 is a pen-type tubular linear actuator with an outer tube diameter of 75mm, suitable for installation in narrow spaces. This model is designed for clean energy products, can be used for Single-axis solar bracket, dual-axis solar bracket.

Features	
Voltage:	24V DC
Max Push/Pull Force:	20,000N
Speed @ Full load:	2.mm / s (load 20,000N)
Retracted Length:	stroke + 500mm stroke + 550mm(S >400 MM)
Dynamic Torque:	120Nm
Static Torque:	250Nm
Color:	Black
Noise:	68DB
Quality Management:	ISO9001-2008, certified by CE and ROHS
Ambient temp. Range:	-45 ° C ~ + 75 ° C
Operating Temp. Range:	+5 ° C ~ + 45 ° C
Protection Level:	IP66
Screw Type:	Trapezoidal
Signal Output(Optional) Control System(Optional):	Hall sensor Synchronous Control(100%),Separate Control
Material:	SS304 inner tube,and metal gear box
Limit Switches:	Built-in(not adjustable)

Solutions for Clean Energy Applications

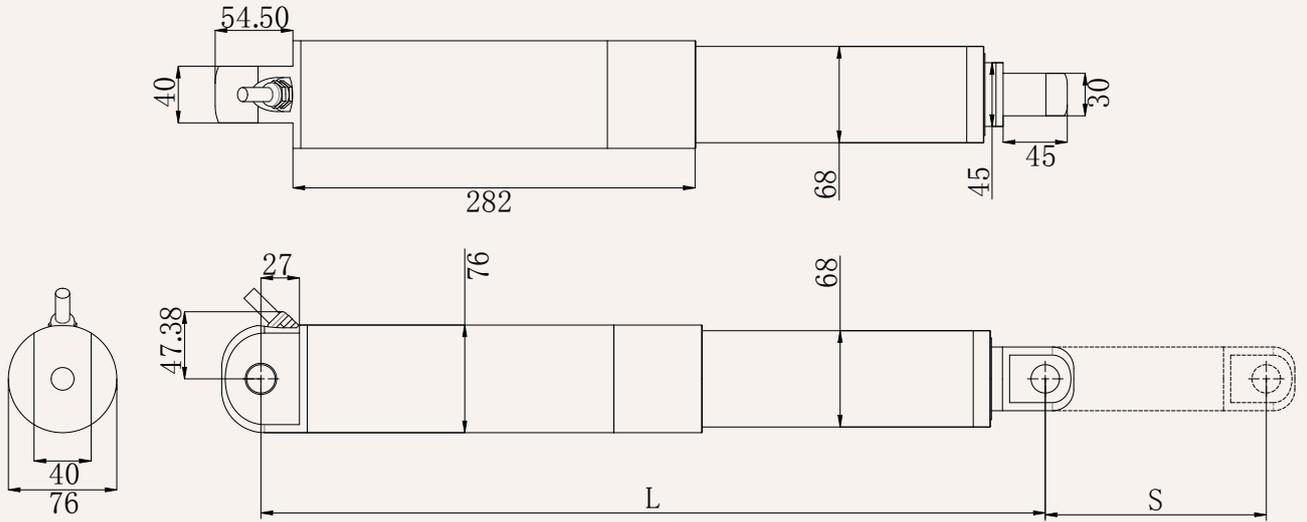
The high price of photovoltaic solar energy has promoted the application of solar tracking brackets.

Using the solar panel tracking system can increase the output efficiency of the solar panel by 30%.

The accurate positioning of the panel is a challenge, the system is rugged and able to withstand strong winds and heavy snow, and it operates stably without maintenance.



Drawing
 Dimension
 (MM)



S: Stroke

L: Retracted length

L= Stroke +500mm

Stroke >= 400MM, L= Stroke +550MM

LOAD & SPEED

Code	Rated Load Push (N)	Rated Load Pull (N)	Self-lock Static (N)	Rated Current Full-load (A)	Rated Speed No-load (mm/s)	Rated Speed Full-load (mm/s)
Motor Speed (4000RPM, duty cycle 10%) 24VDC						
A	20,000	20,000	25,000	8.1	1.9	1.3
B	15,000	15,000	20,000	8.1	3.0	2.0
C	10,000	10,000	13,000	7.2	5.0	3.0
D	7,000	10,000	10,000	6.8	10.0	7.9
E	5,000	5,000	6,500	6.8	15.0	11.0
F	3,500	3,500	3,500	8.1	20.0	15.0
G	1,500	1,500	1,500	8.1	50.0	41.1
H	500	500	500	7.2	72.0	55.0

Remark

1. The current and speed in the table are the averages tested when using push force.
2. The current & speed results in the table are based on the use of a GaMinG brand control box, and there will be an error of about 10% depending on different types of the control box.
3. 29V DC @ no-load, 24V DC @ rated load
4. 12V motor has two times of current as 24v, but same speed.
5. Stroke & Load:

Load (N)	Stroke range(mm)
20,000	50-400
10,000	401-600
<=1,000	601-800

Reference Chart

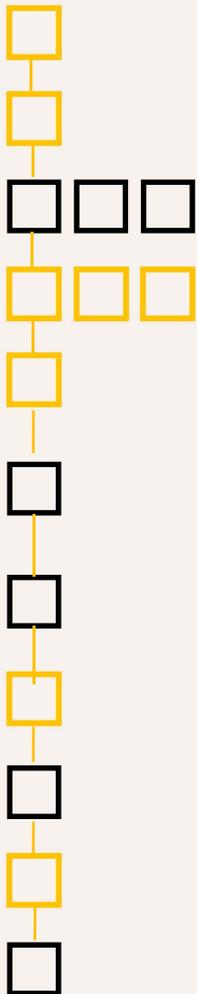
KC75	Load ±10% (N)					Speed ± 2 (mm / sec)			
Load	20,000	15,000	10,000	7,000	5,000	3,500	1,500	500	
Speed	2	3	5	10	15	20	50	70	

KC75	Stroke ± 2 (mm)					Retracted Length ± 2 (mm)			
Stroke	50	100	150	200	250	300	350	400	450
Retracted	550	600	650	700	750	800	850	950	1000

Stroke & Retracted length:

1. If stroke <400mm, Retracted length = stroke +500mm
Eg. Stroke 100mm, retracted length=600mm, extended length=700mm
2. If stroke >=400mm, Retracted length = stroke +550mm
Eg. Stroke 400mm, retracted length=950mm, extended length=1350mm

HTKC75



Voltage	12=12V DC	24=24V DC		
Speed(mm/s)	Refer to Page 4			
Stroke(mm)				
Retracted Length(mm)	Refer to Page 4			
Load(n)	Refer to Page 4			
Front Attachment Refer to Page6	1 = Normal, dia 20.5mm 3 = U shape, width 10mm, dia 20.5mm 5 = O type, width 30mm, dia 20.5mm 7 = Joint,dia 20mm, type GS20	2 = Normal, dia 22.5mm 4 = U shape, width 10mm, dia 22.5mm 6 = O type, width 30mm, dia 22.5mm 8 = Joint, dia24mm, type GS24		
Rear Attachment Refer to Page6	1 = normal, dia 20.5mm	2 =normal, dia 22.5mm		
Wire/Plug Refer to Page6	1 = stripped wire 3 = 4 pin 0° straight plug	2 = 4 pin 90° curved plug 4 = 6 pin 0° straight plug		
Screw	P = Trapezoidal			
Signal Output	N = No	H = HALL SENSOR		
Cable Length	1 = 600mm	2 = 1000mm	3 = 1500mm	4 = Customized

Eg.:

voltage 12V DC, stroke 100MM, speed 2MM/s, load 20,000N

Code: HTKC75-12-2-100-600 / 700-A-1-1-1-P-G-1

Statement

It is the user's responsibility to determine whether the licensed application is suitable for a particular product. However, as the research and development process continues to improve its product performance, GEMING can make modifications or changes without prior notice. Therefore, GEMING reserves the right to stop sales on the company's website, product catalog, terms of use or all other written information. All kinds of physical and chemical information can maintain the most accurate and true state.

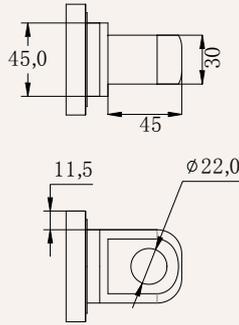
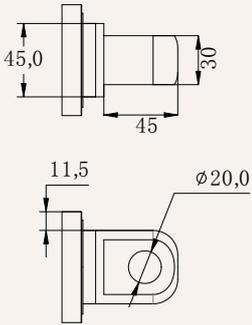
Front Attachment

1= Normal, Aperture 20.5

2= Normal, Aperture 22.5

3= U-type slot, width 10, width 22, dia 20.5

4= U-type slot, width 10, width 22, dia 22.5



5=

6=

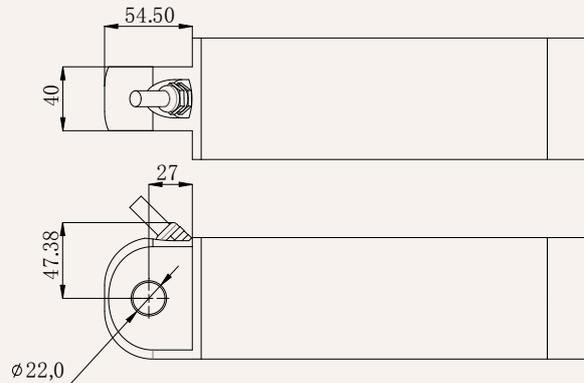
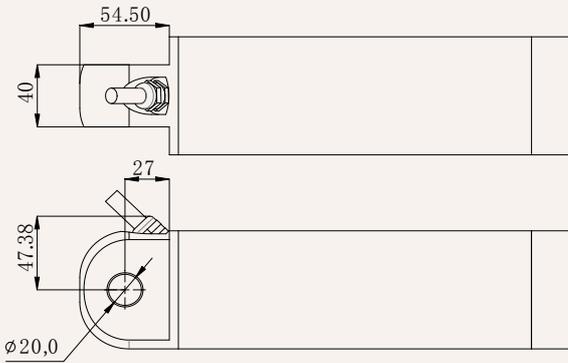
7=

8=

Rear Attachment

1= 0 degree, Aperture 20.5

2= 0 degree, Aperture 22.5



Wire / Plug

1= stripped wire

2 = 4 pin 90° curved plug

3 = 4 pin 0° straight plug

4 = 6 pin 0° straight plug

