

HTK

Series

Straight rod actuator



Load & Speed Reference Chart

Speed ratio speed code	J	I	H	G	F	E	D	C	B	A
model :HTK35										
24V Load push-pull force (N)				380	180	250	500	750	1200	1800
Load speed (MM/S)				2	50	33	17	11	7	4
Maximum load current: 12VDC (maximum 14VDC) = 5A, 24VDC (maximum 28VDC) = 2.5A										
model :HTK55										
24V Load push-pull force (N)			300	650	1000	1200	1800	2800	4500	6000
Load speed (MM/S)			75	50	25	17	8	6	3	2
Maximum load current: 12VDC (maximum 14VDC) = 8A, 24VDC (maximum 28VDC) = 4.5A										
model :HTK75										
24V Load push-pull force (N)	600	1000	1500	2200	3000	4200	6000	10000	16000	20000
Load speed (MM/S)	80	40	30	21	15	10	7	5	3	2
Maximum load current: 12VDC (maximum 14VDC) = 18A, 24VDC (maximum 28VDC) = 8.5A										

Product Category

1、Industrial

2、Automotive

3、fire protection

4、Medical

The HTK35, K55, and K75 share the same design: a straight linear actuator primarily used in industrial applications requiring heavy loads. It is also well-suited for applications with limited installation space. This linear actuator boasts a waterproof rating of up to IP69 (optional), capable of withstanding high temperatures, high-pressure water jets, and the ingress of dust and other solid contaminants, making it ideal for applications such as construction machinery, ventilation systems, and automated equipment in the food and beverage industry.

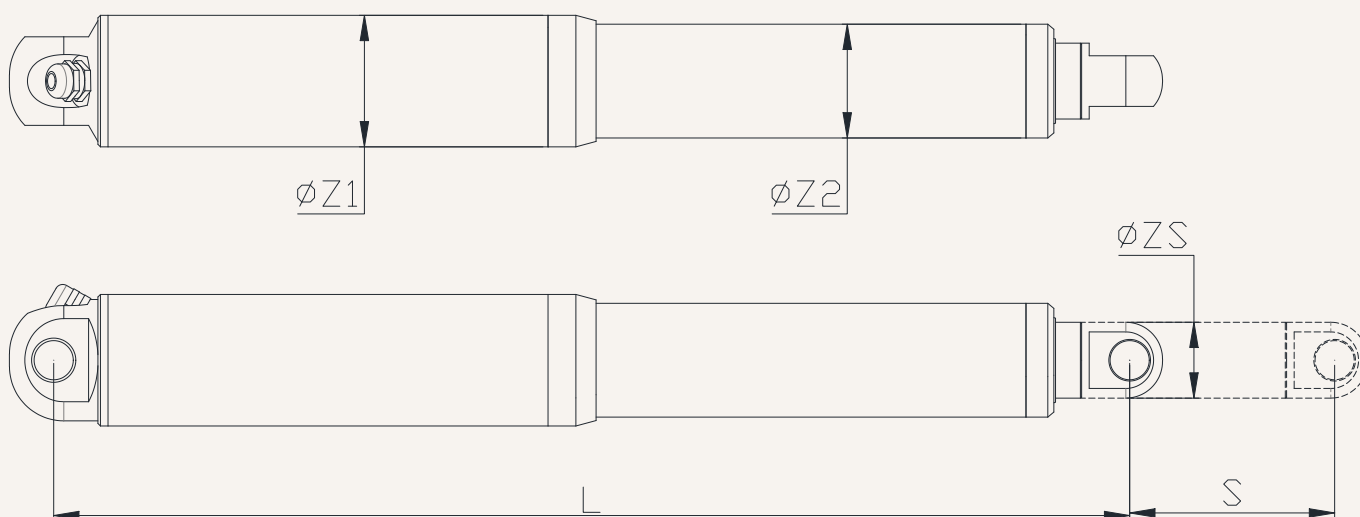
Function Overview

Voltage:	12V , 24V DC
Motor Options:	DC motor
K35 Mounting Size	stroke + 240mm
K55 Mounting Size	stroke + 340mm
K75 Mounting Size	stroke + 480mm
Switch Type:	K35 has no limit switch, K55 has a built-in limit switch, K75 has a built-in limit switch.
Maximum load stroke range:	K35 / 1800N (≧stroke400MM) K55 / 4000N (≧stroke400MM) K75 / 8000N (≧stroke400MM)
Color:	Matte black, natural stainless steel color
Noise:	55~65 DB
Temperature Range:	-35 ° C ~ + 75 ° C
Protection Rating:	IP68
Screw Selection:	Ball screw, trapezoidal screw
Signal Options:	Hall sensor
Control Options:	Synchronous control, independent control
Safety Certifications:	Complies with ISO9001-2008, CE and RoHS
Duration:	Maximum usage time is 10%, or 2 minutes of use followed by an 18-minute rest period.

Download 3D model



Axial backlash: +/- 0,5mm, generally length tolerance +/- 1mm



Minimum installation size reference chart (MM)

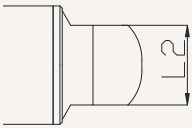
S=stroke

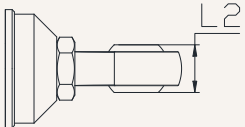
	L	Add limit switch	Add Hall signal	ØZ1	ØZ2	ØZS	ØZS2
HTK35: All gear ratios	stroke+220	-	+20	35	32	20	
HTK55: All gear ratios	stroke+300	+40	+20	52	48	30	
HTK75: All gear ratios	stroke+450	+50	+20	75	68	45	
HTK78: All gear ratios	stroke /2 +550	+50	+20	75	68	54	45

Notes:

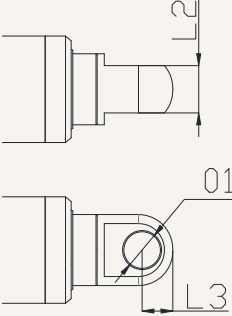
- Do not clamp the actuator onto the pipe.
- Always ensure both supports are installed in the same direction and that the actuator is flush with the pipe.
- The supports must always be able to rotate about their axis during installation.
- Always avoid radial forces.

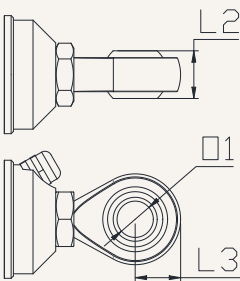
Actuator (motor end) connecting components (MM)

Connector code :O1	model	L	L2	L3	O1	Material	Maximum static load
	HTK35	-	28	15	10.5	Aluminum Stainless Steel	4,500 6,500
	HTK52	-	35	17	15.5	Aluminum Stainless Steel	20,000 40,000
	HTK75	-	45	20	20.5	Aluminum Stainless Steel	40,000

Connector code :G1	model	L	L2	L3	O1	Material	Maximum static load
	HTK35	L+15	28	15	10	Aluminum Stainless Steel	4,500 6,500
	HTK52	L+35	21	20	16	Aluminum Stainless Steel	20,000 40,000
	HTK75	L+45	30	30	20	Stainless steel	40,000

Actuator (extension end) connecting parts (MM)

Connector code :O1	model	L	L2	L3	O1	Material	Maximum static load
	HTK35	-	15	10	10.5	Aluminum Stainless Steel	4,500 6,500
	HTK52	-	20	15	15.5	Aluminum Stainless Steel	20,000 40,000
	HTK75	-	35	20	20.5	Aluminum Stainless Steel	40,000

Connector code :G1	model	L	L2	L3	O1	Material	Maximum static load
	HTK35	L+15	28	15	10	Aluminum Stainless Steel	4,500 6,500
	HTK52	L+35	21	20	16	Aluminum Stainless Steel	20,000 40,000
	HTK75	L+45	30	30	20	Stainless Steel	40,000



HTK Model Description Selection Code Table

HTK35 - 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	HTK35	HTK52	HTK55	HTK75
②	Voltage	12=12V DC	24=24V DC		
③	Load(n)@Speed (mm/s)				
④	Stroke(mm)				
⑤	Installation size(mm)	Note: Before selecting a size, please refer to the valid data sheet!			
⑥	Upper type	O1 = Regular type, hole diameter 10.5mm U1 = slot width 15mm, hole diameter 10.5mm M1 = M12 internal thread, depth 15 mm T1 = M12 external thread, length 15mm L1 = 14mm width, 10.5mm aperture G1 = Spherical plain bearing, type GS10		O2 = Regular type, hole diameter 12.5mm U2 = slot width 15mm, hole diameter 12.5mm M2 = M12 wind thread, depth 15 mm T2 = M12 external thread, length 15mm L2 = 14mm width, 12.5mm aperture G2 = Spherical plain bearing, type GS12	
⑦	lower type	O1 = L-type, width 28mm, aperture 10.5mm KD =Customization		O2= L-type, width 28mm, aperture 12.5mm	
⑧	Installation angle (counterclockwise)	0 =0°, Degree		9 =90°, Degree	
⑨	Please refer to the outlet type	12 = 2-core bare wire 4 = Four-pin straight plug 7 = Waterproof plug		25 = 7-core bare wire 6 = Six-pin straight plug K = Customized	
⑩	Lead screw options	T = Trapezoidal screw (default preferred)		G=Ball screw	
⑪	Control method	A = No Control T = Synchronous control	C = *** K= Customization	Y =***	N=***
⑫	Signal output options	N = None		H =Hall sensor	
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