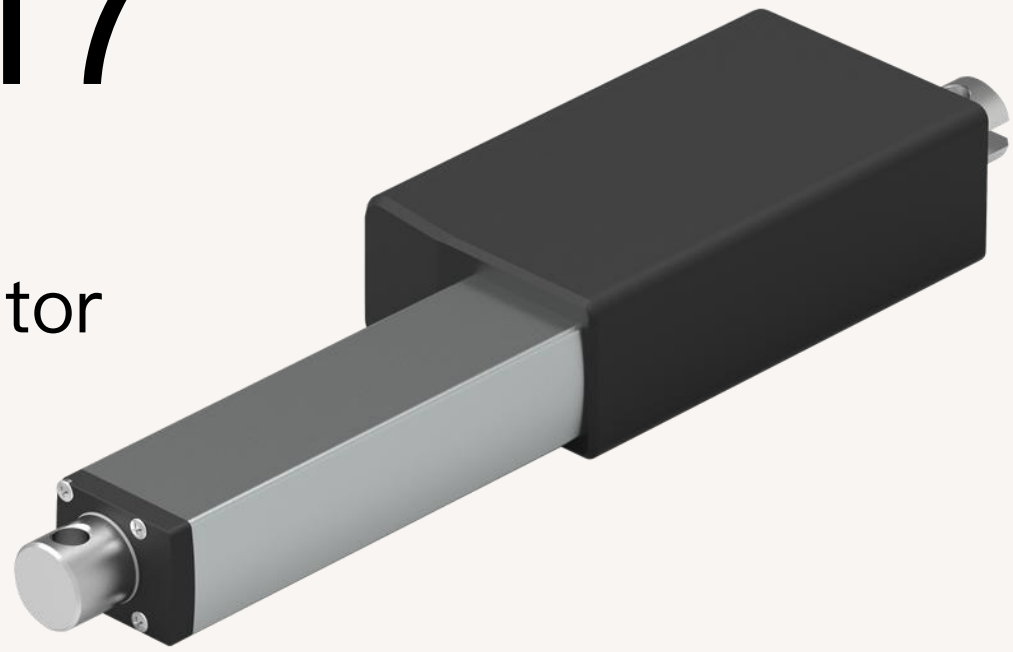
HTA17

Series model

Linear Actuator



Applications

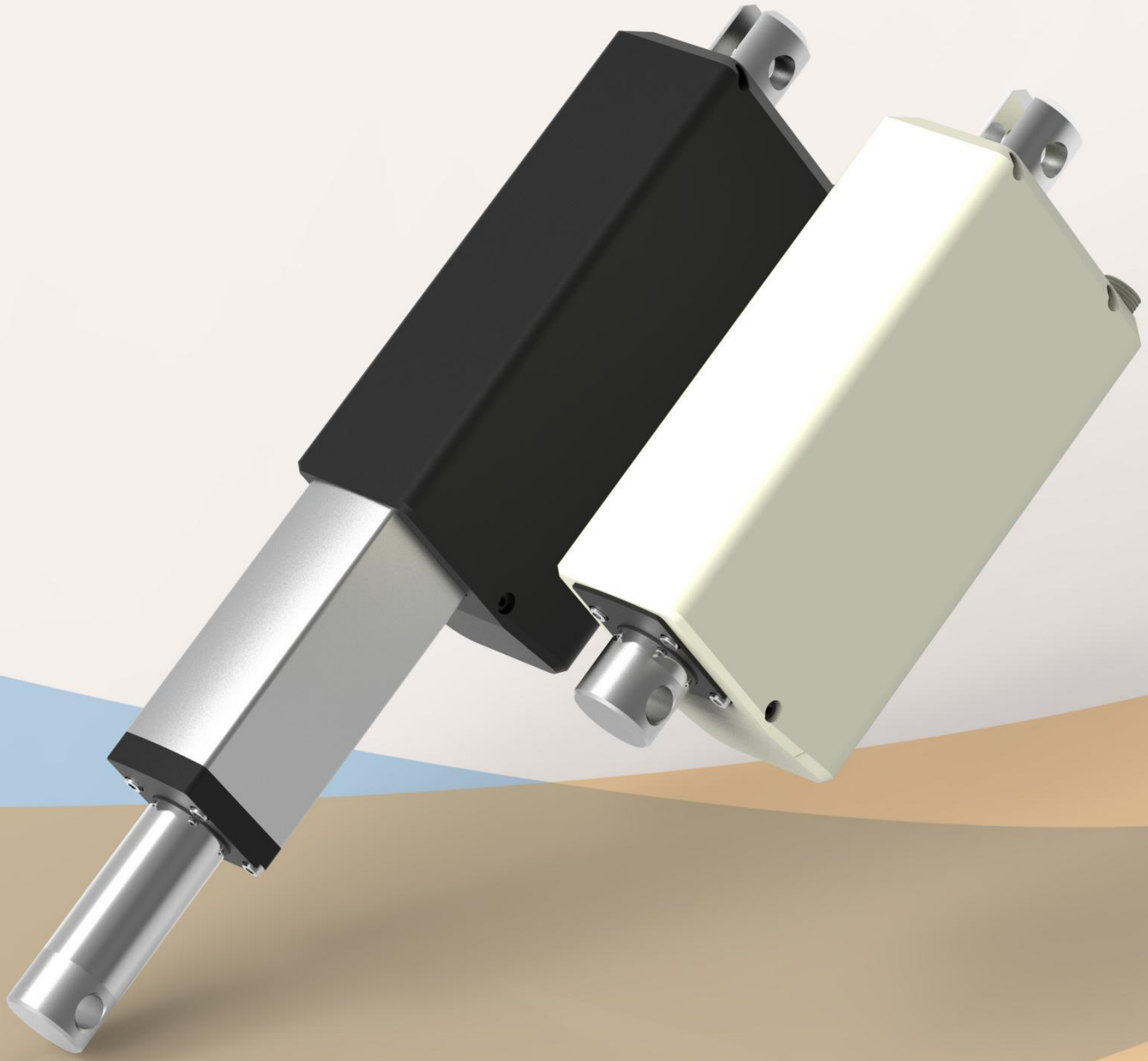
1. Medical
2. Furniture
3. Automobile

HTA17 is one of the new generation of linear actuator developed by GeMinG, it has compact size and up to IP69K IP grade and suitable for various medical & furniture applications with small installation space but certain requirements on the load, such as: medical hangers, furniture, chairs, etc.

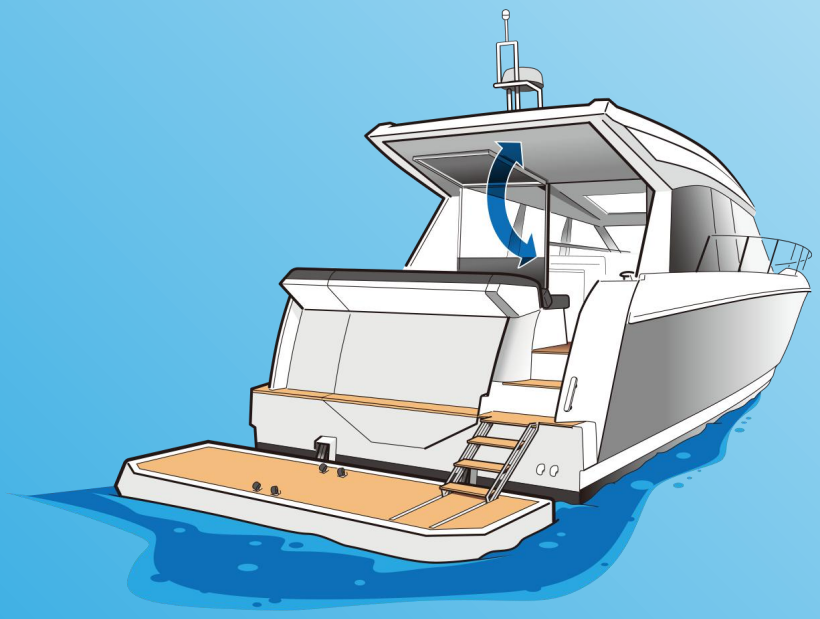
Features

Voltage:	12V, 24V, 36V or 48V DC
Max Push/Pull Force:	3,500N
Speed @ Full load:	2.3.mm / s (load 3500N)
Retracted Length(L):	stroke + 130mm (S≤60, L=190MM)
	stroke + 140mm(S >400 MM)
Dynamic Torque:	50Nm
Static Torque:	80Nm
Color:	White or black
Noise:	48-50DB
Quality Management:	ISO9001-2008, certified by CE and ROHS
Ambient temp. Range:	-25 ° C ~ + 70 ° C
Operating Temp. Range:	+5 ° C ~ + 45 ° C
Protection Level:	IP69K
Screw Type:	Trapezoidal
Signal Output:	Hall sensor, Passive signal, Active signal
Option for Control System:	100% synchronized control; individual control
Material:	High-strength metal zinc alloy gear box and housing
Limit Switch:	Built-in, but not adjustable

GeMinG
Linear Drive

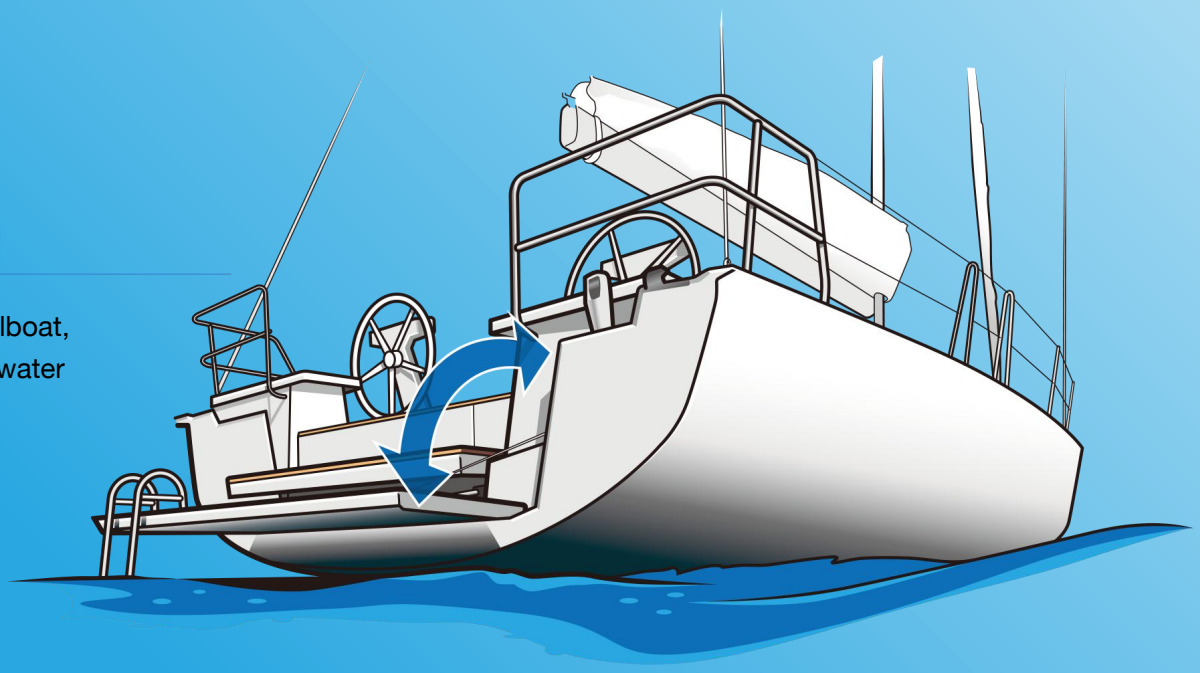


GeMinG China Limited



Windows

Automatic opening and closing windows
Space optimization and ventilation of skylights



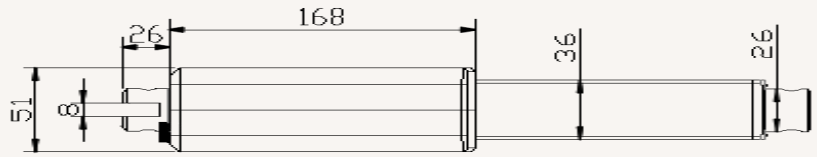
Platform

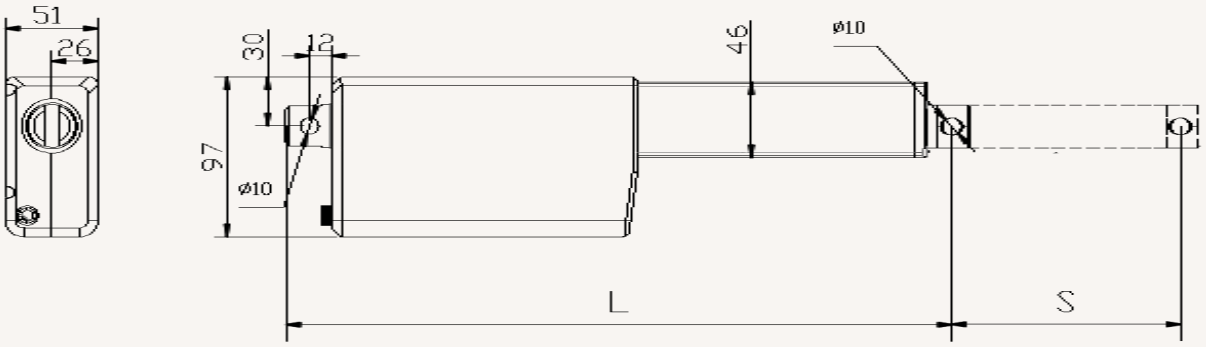
Platform on a sailboat,
direct access to water

GeMinG
Linear Drive

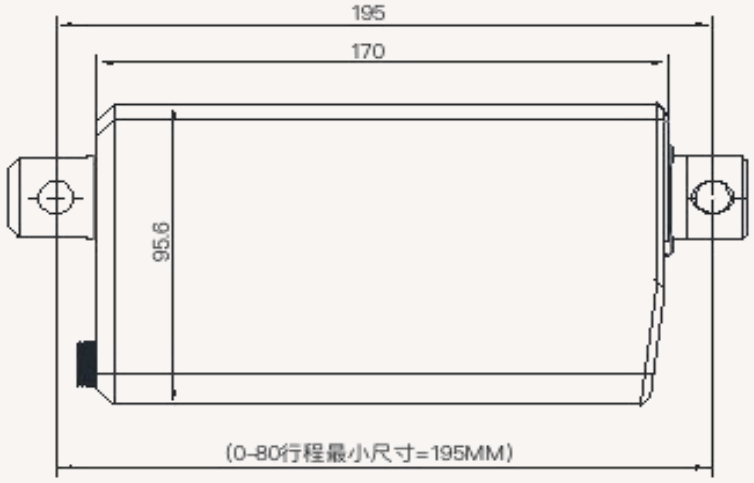
Drawings

Dimension
(MM)





S: Stroke
L: Retracted length
L: Stroke +130mm
stroke>=400mm, L: Stroke +140MM
Stroke≤80, L: 195MM



Mounting Angle (Counterclockwise):

1=0°

2=90°

LOAD & SPEED

Code	Rated Load Push N	Rated Load Pull N	Self-lock Static N	Rated Current Full-load A	Rated Speed No-load 24V DC mm/s	Rated Speed Full-load 24V DC mm/s
Motor (3800RPM, duty cycle 10%)						
A	3,500	3,500	3,500	5.1	2.9	2.3
B	2,500	2,500	2,500	5.1	5.9	4.8
C	1,500	1,500	1,500	5.1	8.8	7.1
D	1,000	1,000	1,000	4.8	11.9	9.5
E	750	750	750	4.8	17.8	14.3

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. Stroke & Load:

Load (N)	Stroke range (mm)
3,500	30-400
1500	401-600
<=700	601-800

Reference Chart

HTA17	Load ±10% (N)					Speed ± 2 (mm / sec)			
Load	3,500	2,500	1,500	1,000	750				
Speed	2.3	4.9	7.1	9.5	14.3				
HTA17	Stroke ± 2 (mm)					Retracted ± 2 (mm)			
Stroke	50	100	150	200	250	300	350	400	450
L	180	230	280	330	380	430	480	540	650

Remark:

Stroke & Retracted length:

1. If stroke 400mm, Retracted length = stroke +130mm

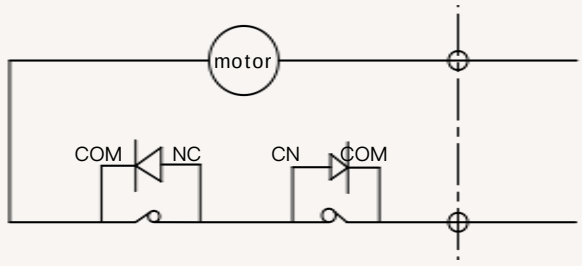
Eg. Stroke 100mm, retracted length=230mm, extended length=330mm

2. If stroke >=400mm, Retracted length = stroke +140mm

Eg. Stroke 400mm, retracted length=540mm, extended length=940mm

Wiring Diagram

Code：N (No signal feedback)



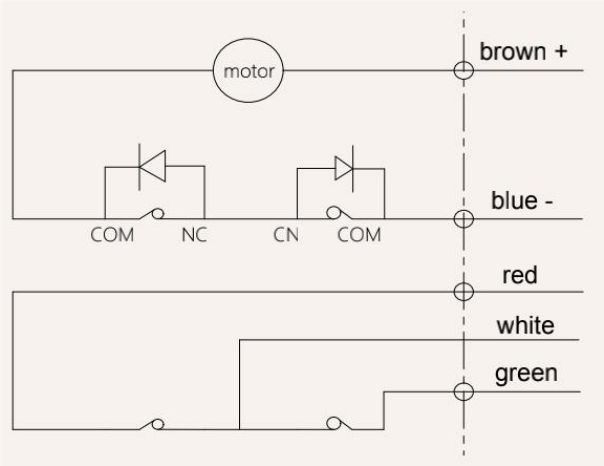
Wiring instruction

1】brown： motor +
2】blue： motor -
3】when extend： brown +， blue -
4】when retract： blue+， brown -

Signal Feedback: Negative & Positive

Wiring instruction

Code：W (Negative)，Code：Y (Positive)

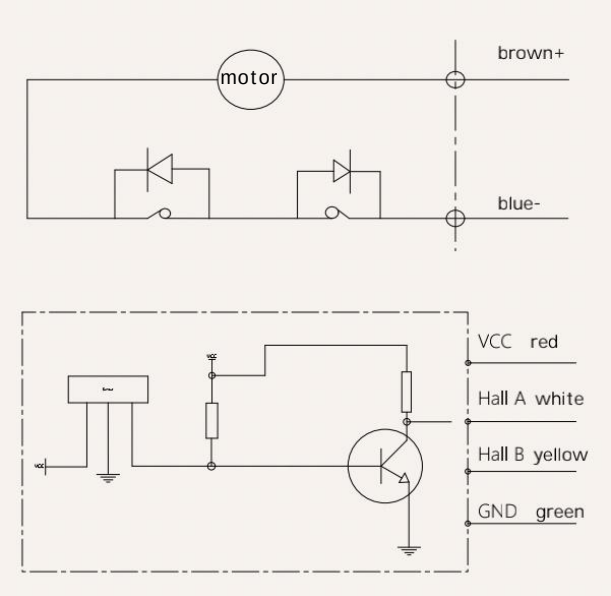


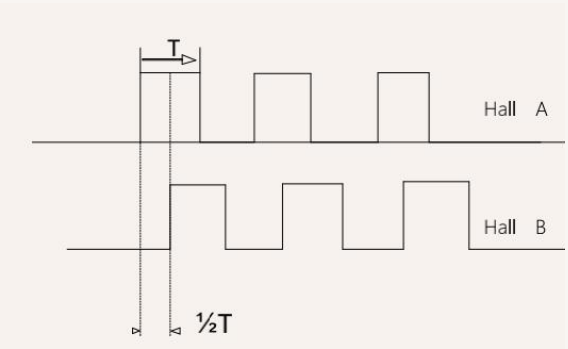
1.brown: motor +
2.blue: motor -
3.when extend: brown+, blue-
4.when retract: blue+, brown-
5.white:common line
6.white and red: extend to the end signal
7.white and green:retract to the end signal

Signal Feedback: Hall Sensor

Wiring instruction

code：H





Brown: motor+
Blue: motor
Red: VCC 5V+
Green: GND 5V
White: hall signal output A
Yellow:hall signal output B

Remark:

1）Support dual channel/single channel Hall encoder
2）Current Consumption Digital Output
3）High-speed response frequency： 0 KHz-100 KHz
4）Applicable temperature range： -40 ℃~+125 ℃

Features	Symbol	Test condiction	MI	RE	M	unit
voltage	Vcc	----	3.5	---	24	V
Output voltage	Vce/sat	Vcc=14V ; Ic=20mA	---	300	700	MV
Leakage Current	1 cex	Vce=14V ; Vcc=14V	---	<0	10	UA
Input voltage	1 ce	Vcc=20V ; Output open	---	1	10	M
output fall time	R	Vcc=14V ; RL=820 Ω ; CL=20pF	---	0.3	1.5	US

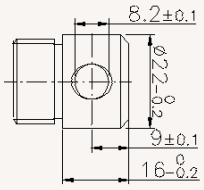
HTA17

Voltage	12=12V DC	24=24V DC	36=36V DC	48=V DC
Speed(mm/s)	Refer to P 5			
Stroke(mm)				
Retracted L(mm)	Refer to P 5			
Load(n)	Refer to P 5			
Front Attach. Refer to P 9	1 = standard, dia 8mm 3 = clevis head, width 6mm, dia 8mm 5 = internal thread, M8*1.5*15		2 = standard, dia 10mm 4 = clevis head, width 6mm, dia 10mm 6 = internal thread, M10*1.5*15	
Rear Attach. Refer to P 9	1 =0°, dia 8mm 3 =90°, dia 8mm		2 =0°, dia 10mm 4 =90°, dia 10mm	
Plug Type	1 = stripped wire 3 = 4 pin straight plug		2 = 4 pin 90° curved plug 4 = 6 pin 0° straight plug	
Screw Type	P=Trapezoidal			
Signal Output	N = No	H =Hall sensor	Y=Positive signal	W=Negative signal
Cable Length	1 = 600mm	2 = 1000mm	3 =1500mm	4 = Customized

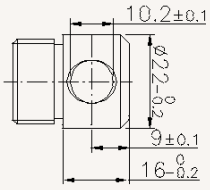
Eg：voltage：12V DC，stroke 100MM, 3500N load,
Code：HTA17–12–03–100–230 / 330–A–1–1–1–P–N–1

Front Attachment

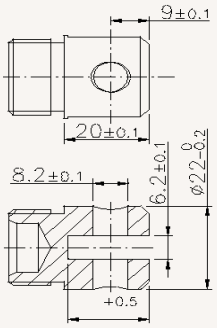
1=standard, dia 8.2MM



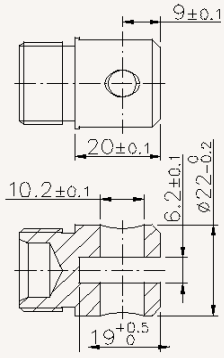
2=standard, dia 10.2MM



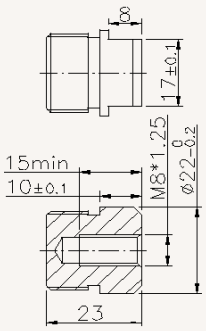
3=clevis head, width 6.2, dia 8.2MM



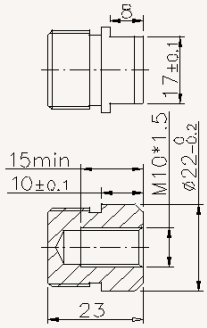
4=clevis head, width 6.2, dia 10.2MM



5=internal screw, M8*1.5*15



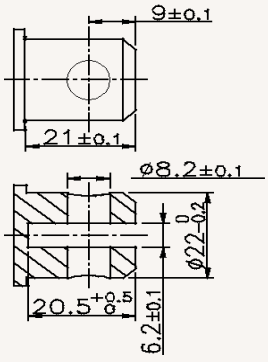
6=internal screw, M10*1.5*15



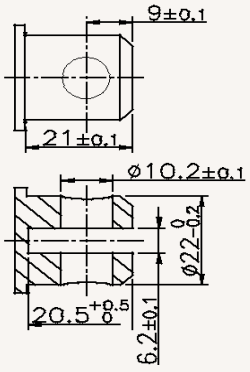
7=Customized

Rear Attachment

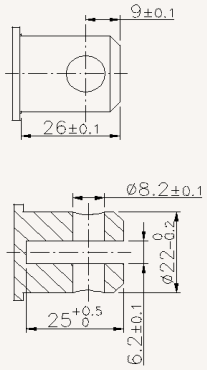
1=clevis head, width 6.2, depth 18, hole dia 8.2MM



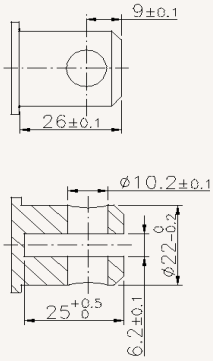
2=clevis head, width 6.2, depth 18.0, hole dia 10.2MM



2=clevis head, width 6.2, depth 20, hole dia 8.2MM



2=clevis head, width 6.2, depth 20, hole dia 10.2MM



5=Customized