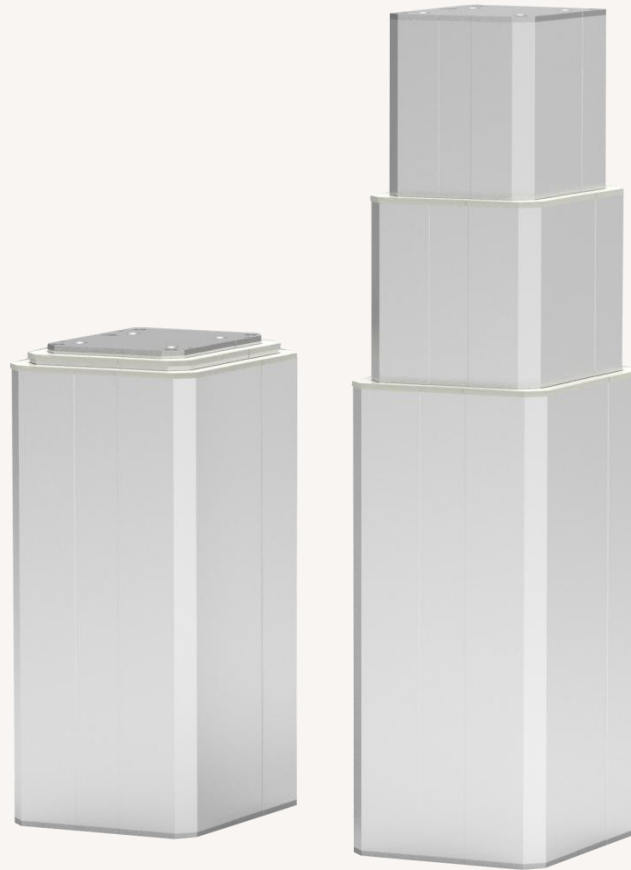


# HTB3

Series model

## Lifting Column



### Applications

1. Medical
2. Furniture

HTB3 is one of the lifting column products developed by GeMinG. It is professionally suitable for medical working environments, such as hospital beds, home care beds, clinic tables, and height-adjustable working. HTB3 adopts a three-section outer tube to provide stable movement and can provide the smallest installation size and longer stroke options.

Features	
Voltage:	24V DC permanent magnet motor
Max Push/Pull Force:	2000N(Push), 800N(Pull)
Speed @ Full load:	10.mm / s (load 2,000N)
Retracted Length:	stroke/ 2 + 150mm
Dynamic Torque:	250Nm
Static Torque:	500Nm
Color:	silver
Noise:	48-50DB
Quality Management:	ISO9001-2008, certified by CE and ROHS
Ambient temp. Range:	+5 ° C ~ + 45 ° C
Operating Temp. Range:	-35 ° C ~ + 85 ° C
Protection Level:	IP54
Screw Type:	Trapezoidal
Signal Output:(optional)	Hall sensor
Control System:(optional)	Synchronous Control(100%),Separate Control
Material:	Aluminium alloy
Limit Switches:	Built-in(not adjustable)
Duty Cycle:	2min on, 18min off



Quiet, safe and powerful

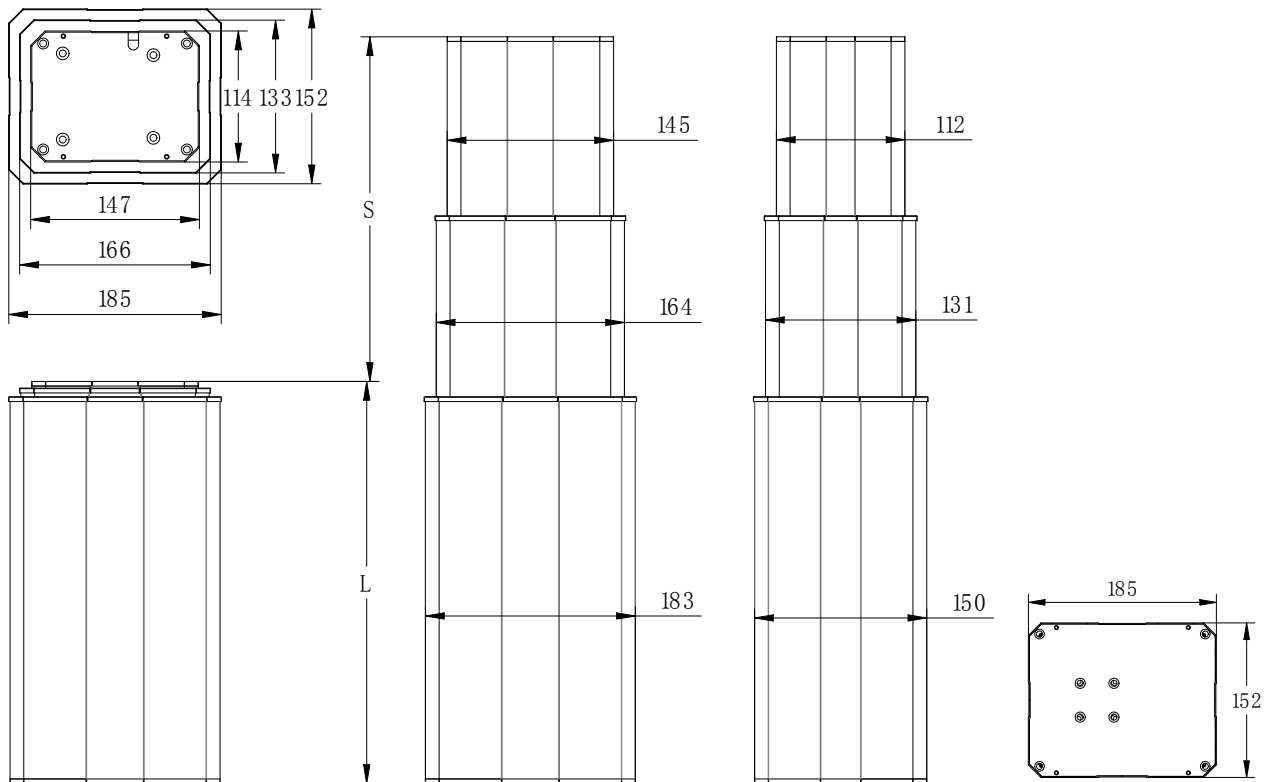
Exquisite built-in size

Unique sound quality below 50 dB

Smooth boron aluminum surface

Drawing

Dimensions  
(MM)



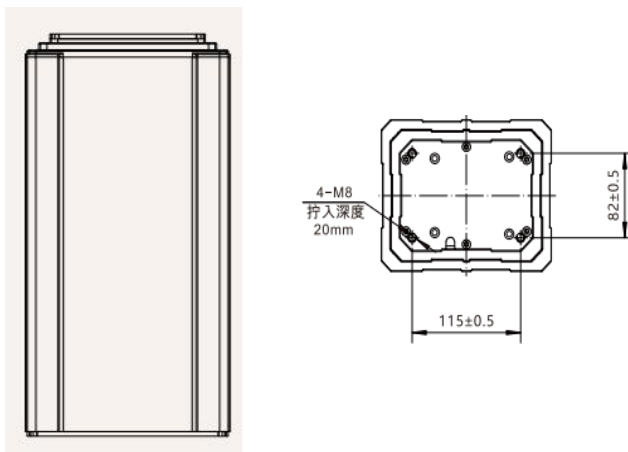
S: Stroke

L: Retracted length

$L = \text{Stroke} / 2 + 150\text{mm}$

Cable outlet:

1= Upper side outlet



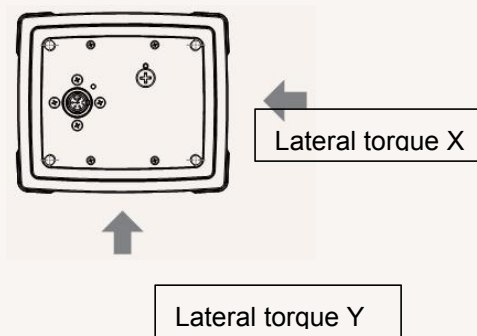
LOAD & SPEED						
Code	Rated Load	Rated Load	Self-locking	Rated Current	Rated Speed	Rated Speed
	Push	Pull	Static	Full-load	No-load	Full-load
	(N)	(N)	(N)	(A)	(mm/s)	(mm/s)
Motor Voltage (24V DC)						
A	2000	800	2000	5.4	15	10

**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. Lateral moment Y direction = X \* 0.8
4. Static lateral torque = dynamic \* 2

**Dynamic lateral torque(Nm)-X direction**

Stroke	S/2+150	S/2+220
200-300	700	900
300-500	500	800
500-600	300	500



**Reference Chart**

HTB3	load±10% (N)					speed ± 2 (mm / sec)				
load	2000									
speed	15									

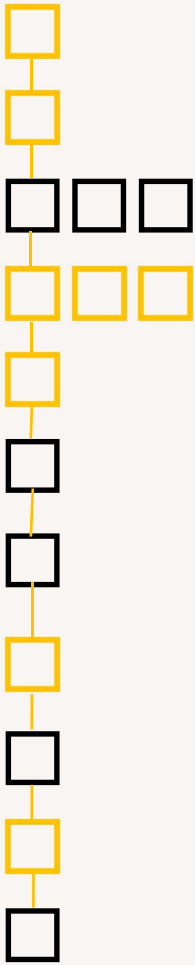
  

HTB3	stroke ± 2 (mm)					Retracted Length ± 2 (mm)				
stroke	200	250	300	350	400	450	500	550	600	
L	250	275	300	325	350	375	400	425	450	

**Remarks**

1. The above data is plus or minus about 10%.
2. Calculate the stroke and installation size:  
for example, stroke 200 mm, installation size equals to 250 mm, after rising, it is equal to 450 mm.

HTB3



Voltage	24=24V DC			
Speed(mm/s)	Refer to <a href="#">page 4</a>			
Stroke(mm)				
Retracted length(mm)	Refer to <a href="#">page 4</a>			
Load(n)	Refer to <a href="#">page 4</a>			
Mounting Plates Refer to <a href="#">page 6</a>	1 = smaller plates, with 4 fixing holes	2 = bigger plates, with 4 fixing holes		
Cable outlet Refer to <a href="#">page 3</a>	1 = Upper side			
Wire/Plug Refer to <a href="#">page 6</a>	1 = stripped wire	2 = 4 pin 90° curved plug		
	3 = 4 pin 0°straight 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

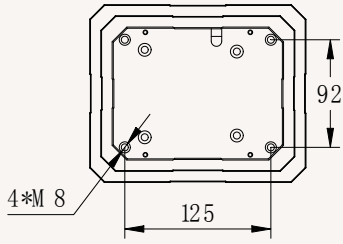
Eg.:  
Voltage 24V DC, stroke 200MM  
Code: HTB3-24-15-200-250 / 450-2000-1-1-1-P-A-N-1

Statement

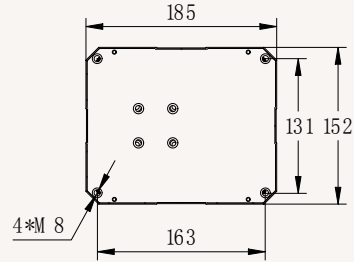
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Upper Mounting Plates

1=smaller plate



2=bigger plate



Bottom Mounting Plates

1=smaller plates

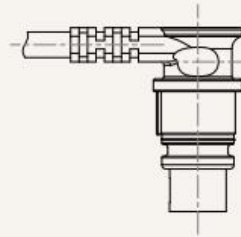
2=bigger plates

Wire/Plug

1=stripped wire



2=4 pin 90° curved plug



3=4 pin 0° straight plug

4=6 pin 0° straight plug

