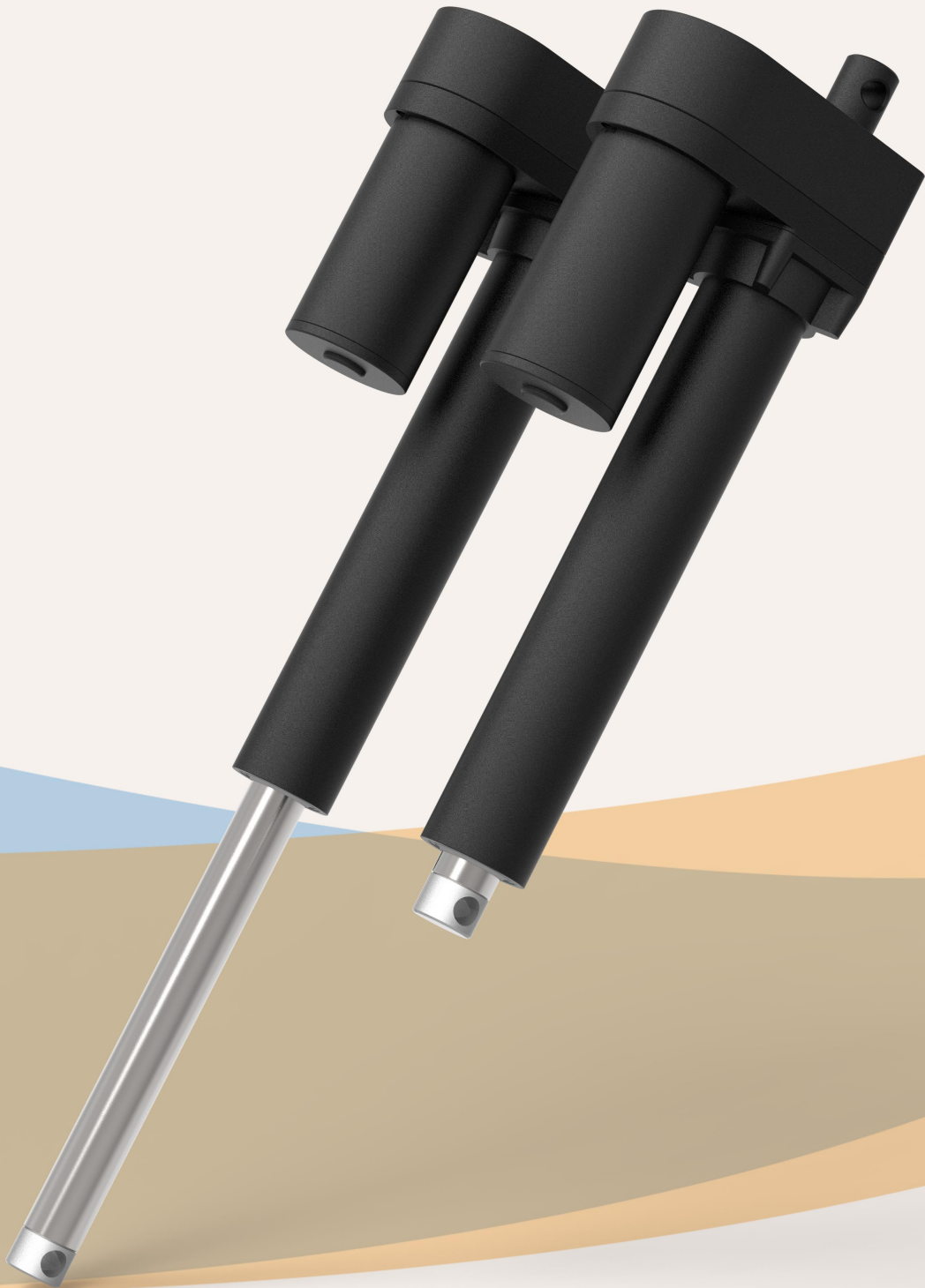


HTW10

Series
Actuator



HTW10A

Series

Linear Actuators



Product Category

- 1、 Industrial application
- 2、 Military application
- 3、 Agricultural machinery

HTW10 industrial electric actuator is a very powerful actuator designed for agricultural machinery, construction machinery, industrial machinery and other applications. Configuration standard W10 electric actuator. The protection level reaches IP65, which is very satisfactory for agricultural machinery, construction machinery, and industrial machinery factories. The applicable industries include construction machinery, ventilation system equipment, etc.

Functional Overview

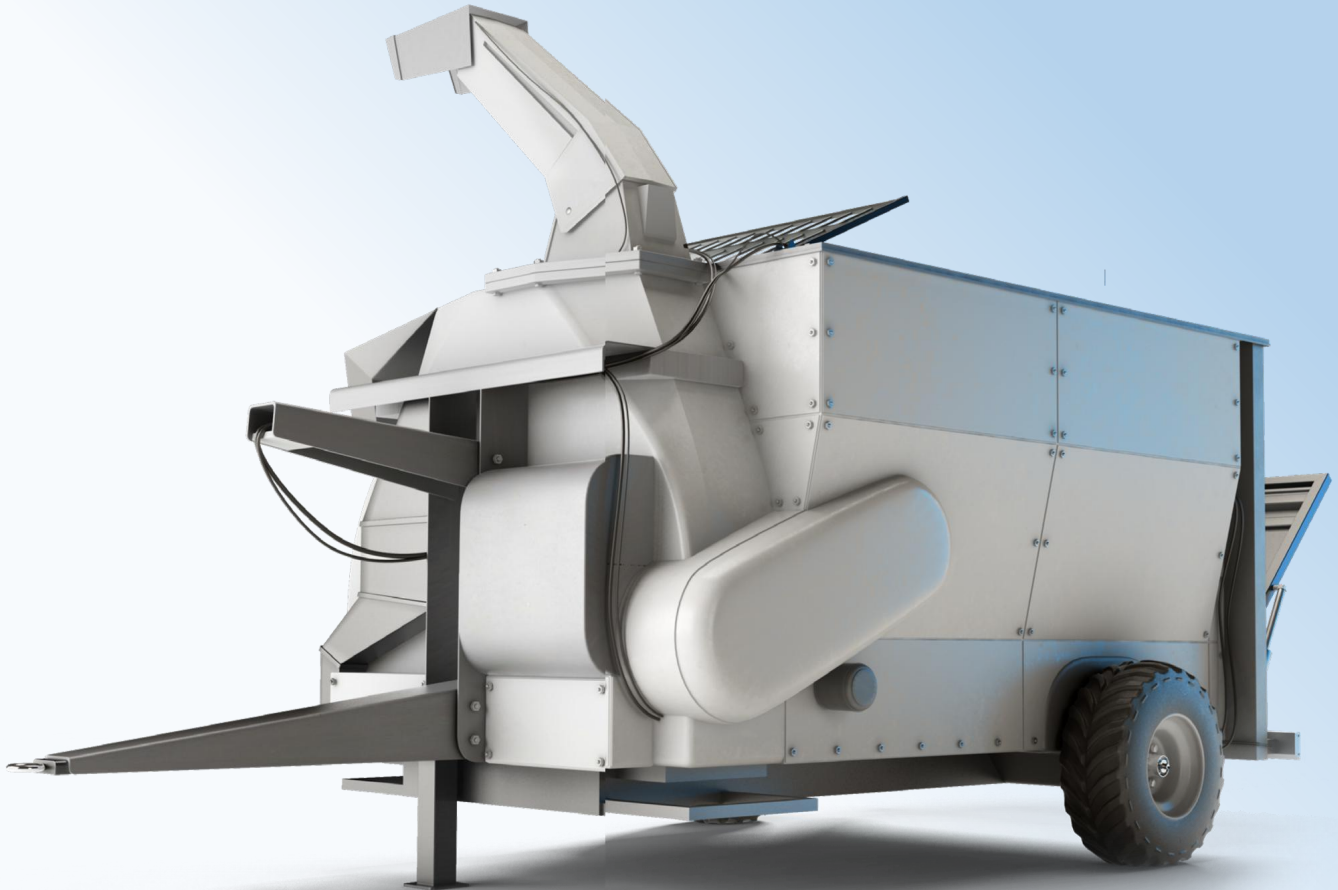
Voltage:	12V, 24V, 36V, 48V DC
Motor options:	DC motor,
Maximum thrust (pull force):	7,000N / 7,000N
Slowest speed under load:	5.0mm/s (load 7,000N)
Maximum speed under load:	35 mm/s (load 2,000N)
Minimum installation size:	Stroke + 200mm
Dynamic lateral moment:	500Nm
Static lateral moment:	800Nm
color:	Silver gray, black
Voice:	60~72 DB
Adaptable temperature range:	-45°C ~ +75°C
Protection level:	IP65
Screw selection:	I ball screw, trapezoidal screw
Switch type:	Built-in clutch switch
Signal options:	
safety certificate:	Comply with ISO9001-2008, CE and RoHS regulations,

High-strength metal zinc alloy gearbox and housing,

Straw blower application

Actuator system provides smooth linear electric motion to the motor

Everything becomes easy to control and easy to integrate



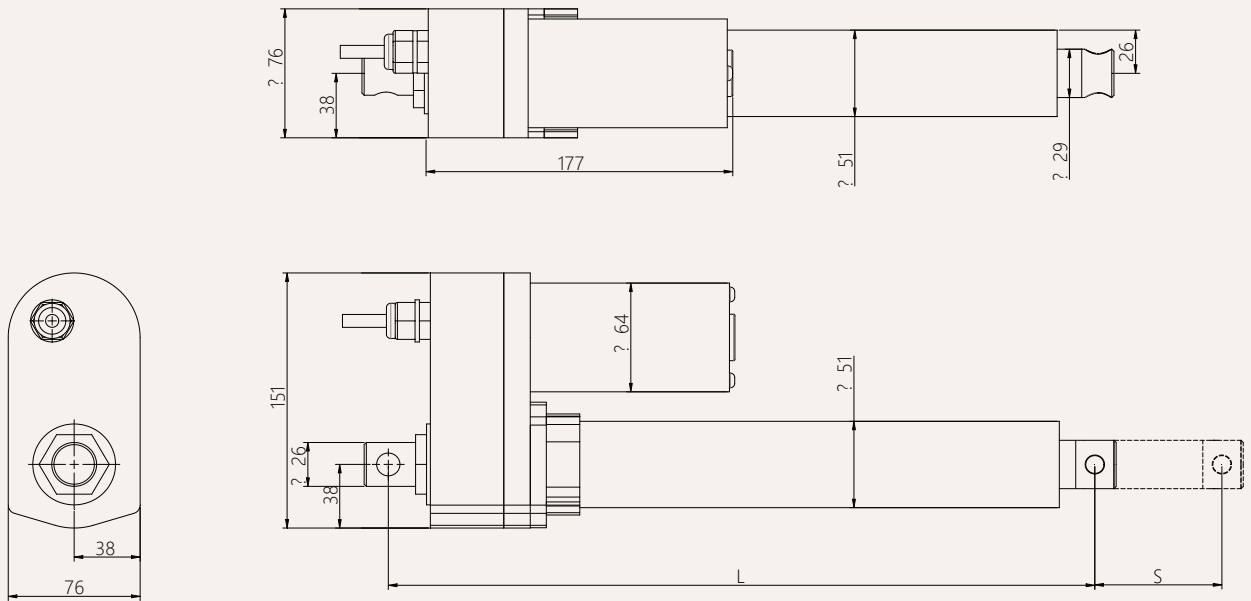
Due to its small size, it is put into a straw cone blower. GeMinG executors are typically

Divided from more complex hydraulic systems and actuators, easy to install

Provides reliable and simple operation even in harsh conditions

Drawings

Standard size
MM



S: Stroke

L: Retracted length

L= Stroke +200mm

Greater than 800MM stroke, installation dimensions L= Stroke +350MM

Installation angle (counterclockwise):

0 =0 Degrees

9 =90 Degrees

G=Adjust at will

HTW10B

Series

Linear Actuators



Product Category

- 1、 Industrial application
- 2、 Military application
- 3、 Agricultural machinery

HTW10 industrial electric actuator is a very powerful actuator designed for agricultural machinery, construction machinery, industrial machinery and other applications. Configuration standard W10 electric actuator. The protection level reaches IP65, which is very satisfactory for agricultural machinery, construction machinery, and industrial machinery factories. The applicable industries include construction machinery, ventilation system equipment, etc.

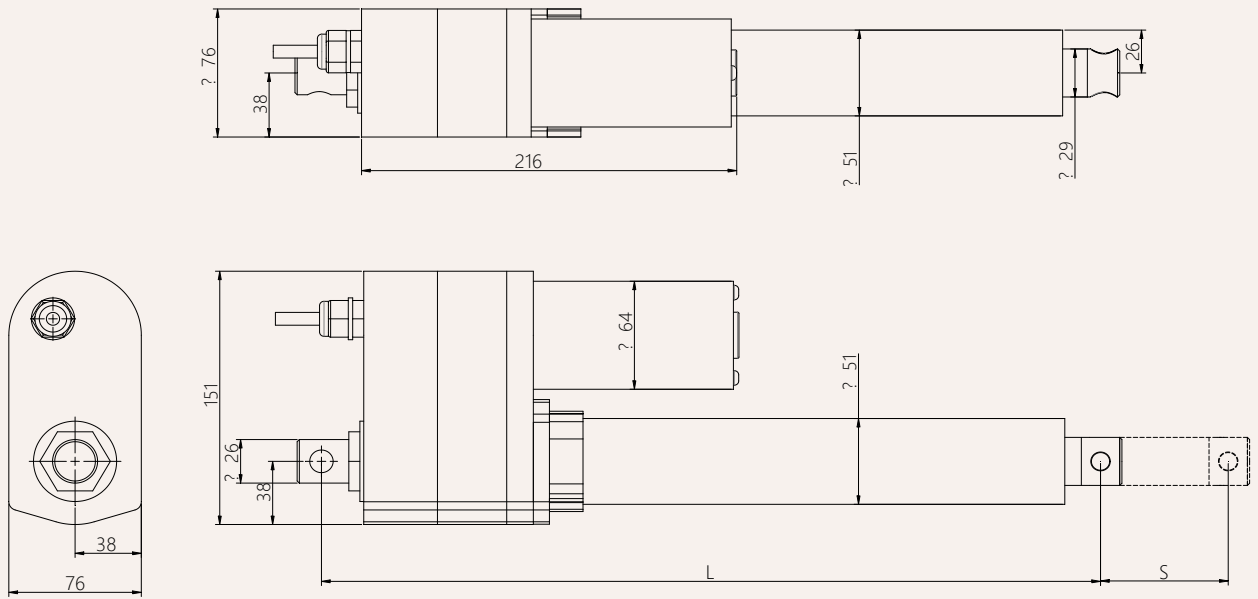
Functional Overview

Voltage:	12V, 24V, 36V, 48V DC
Motor options:	DC motor,
Maximum thrust (pull force):	7,000N / 7,000N
Slowest speed under load:	5.0mm/s (load 7,000N)
Maximum speed under load:	35 mm/s (load 2,000N)
Minimum installation size:	Stroke + 200mm
Dynamic lateral moment:	500Nm
Static lateral moment:	800Nm
color:	Silver gray, black
Voice:	60~72 DB
Adaptable temperature range:	-45°C ~ +75°C
Protection level:	IP65
Screw selection:	I ball screw, trapezoidal screw
Switch type:	Built-in clutch switch
Signal options:	Potentiometer, Hall sensor, in-position signal
safety certificate:	Comply with ISO9001-2008, CE and RoHS regulations,

High-strength metal zinc alloy gearbox and housing,

Drawings

Standard size
MM



S: Stroke

L: Retracted length

L= Stroke +250mm

Greater than 800MM stroke, installation dimensions L= Stroke +300MM

Installation angle (counterclockwise):

0 =0 Degrees

9 =90 Degrees

G=Adjust at will

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)						
A	7,000	7,000	9,000	14.3	5.5	4.0
B	6,000	6,000	6,000	14.3	8.5	7.0
C	5,000	5,000	5,000	14.3	11.0	9.5
D	4,000	4,000	4,000	14.3	17	14
E	3,000	3,000	3,000	14.3	22	18
F	2,000	2,000	2,000	14.3	35	29

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 $\geq 20\text{mm}$, please refer to the table below for the maximum value of load and stroke

load (N)	Maximum stroke (mm)
16,000	50-200
15,000	201-300
12,000	301-400
7,000	401-600
6,000	601-900

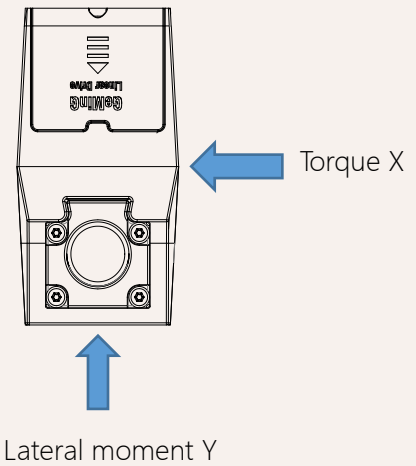
Remark:

Lateral moment Y direction = $X \times 0.8$

Static lateral moment = dynamic $\times 2$

Dynamic lateral moment (Nm)-X direction

stroke	S+250	S+300
100-200	200	300
300-500	150	250
500-700	100	200
700-900	80	100



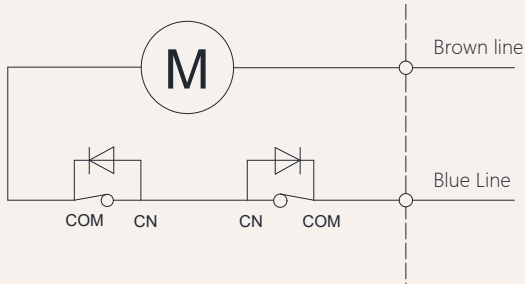
Stroke installation size reference chart

HTW10B Series	stroke ± 2 (mm)					Install ± 2 (mm)				
strokeMM	100	150	200	250	300	350	400	450	500	
Install MM	350	400	450	500	550	600	650	700	750	
weight KG	5.5	5.8	6.1	6.4	7.7	8.1	8.5	9.9	10.5	

Actuator wiring diagram

No signal feedback wiring diagram

Code: N



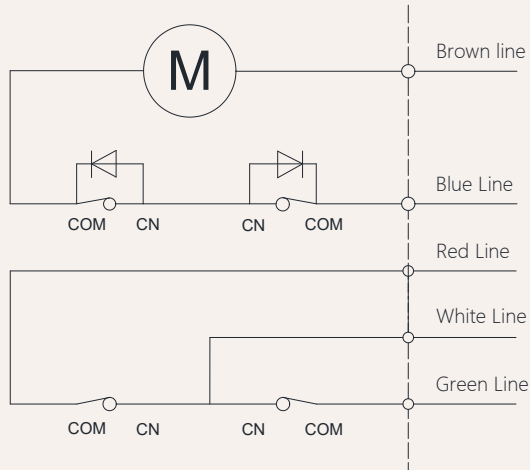
Wiring Instructions:

- 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

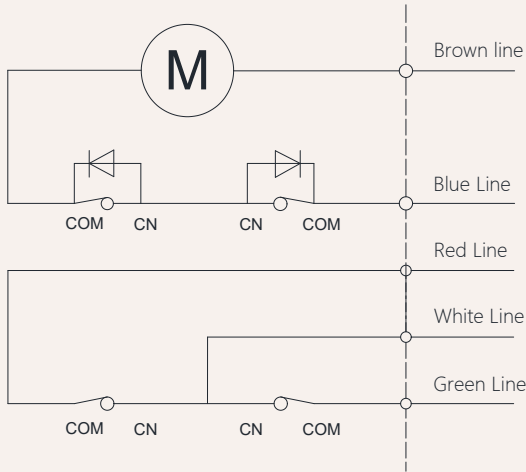
Feedback signal	Description	Function
Active endpoint feedback signal	Voltage with this model	When the push rod reaches the end point, a signal will be fed back. This signal will always exist and will disappear during the operation of the push rod., When the push rod reaches the end point, it will feedback 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.
Passive endpoint feedback signal	No voltage	

Note: For other needs, please contact the GeMinG team

Signal feedback **Passive or active**

Passive or active endpoint signal wiring diagram

Code: N passive signal, Code: Y active signal



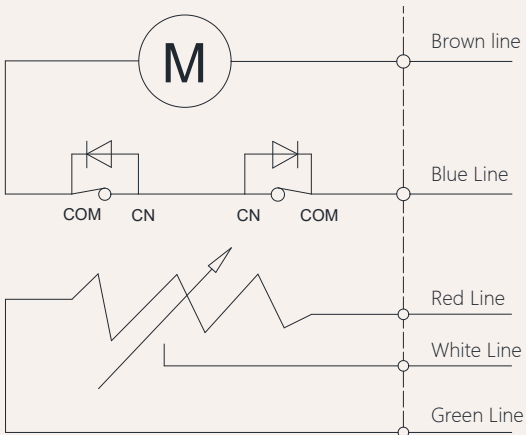
Wiring Instructions:

- 1] Brown lead: positive pole of motor +
- 2] Blue lead: negative pole of motor -
- 3] When the push rod is extended: brown wire positive pole +, blue wire negative pole -
- 4] When the push rod is retracted: blue wire positive pole +, brown wire negative pole -
- 5] White wire: signal output common line.
- 6] White and red wire: extension end signal,
- 7] White and green wire: retraction end signal,

Signal feedback **Potentiometer**

Potentiometer wiring diagram

Code: K



Wiring Instructions:

- 1] Brown lead: positive pole of motor +
- 2] Blue lead: negative pole of motor -
- 3] When the push rod is extended: brown wire positive pole +, blue wire negative pole -
- 4] When the push rod is retracted: blue wire positive pole +, brown wire negative pole -
- 5] White and yellow leads: variable resistance signal output.
- 6] When the push rod is extended: red and white leads-resistance value gradually increases, -----red and yellow leads-resistance value gradually decreases.
- 7] When the push rod is retracted: red and white leads-resistance value gradually decreases, -----red and yellow leads-resistance value gradually increases.

Potentiometer Configuration Form

Transmission Code

Limit travel range

Resistance range unit (KΩ)

(See page 5)

A,C,E,G

50-350MM

50-200Stroke range5.0

50-300Stroke range7.5

B,D,F

50-550MM

50-200Stroke range3.17

50-400Stroke range6.35

Note: Potentiometer resistance is 10KΩ, actual output resistance depends on specific stroke

HTW10 Model Description Selection Code Table

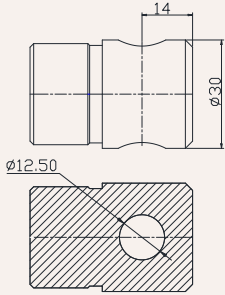
HTW10B - 24 - A - 100 - 250 - O2 - O2 - 0 - 1 - T - A - N - 07
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬

①	Product number	Clutch switch= HTW10A	Electronic switch= HTW10B		
②	Voltage	12=12V DC	24=24V DC	36=36V DC	48=48V 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 See page 13	O1 =Conventional ordinary type, hole diameter12.5mm U1 = U-shaped, groove width 10.5mm, hole diameter 12.5mm M1 = Type M, M16 thread, depth 20 mm T1 = T-type, M16 thread, length 20mm L1 =L shape, width 20mm, aperture 12.5mm G1 = Spherical bearing, bore 14mm, model GS14	O2 = Conventional ordinary type, hole diameter 13.5mm U2 = U-shaped, groove width 10.5mm, hole diameter 13.5mm M2 = MType M, M18 thread, depth20 mm T2 = T-type, M18 thread, length 20mm L2 = L shape, width 20mm, aperture 13.5mm G2 = Spherical bearing, bore 16mm, modelGS16		
⑦	lower type See page 14	O1 =Conventional ordinary type, hole diameter2.5mm U1 = U-shaped, groove width 10.5mm, hole diameter 12.5mm M1 = Type M, M16 thread, depth 20 mm T1 = T-type, M16 thread, length 20mm L1 =L shape, width 20mm, aperture 12.5mm G1 = Spherical bearing, bore 14mm, model GS14	O2 = Conventional ordinary type, hole diameter 13.5mm U2 = U-shaped, groove width 10.5mm, hole diameter 13.5mm M2 = MType M, M18 thread, depth20 mm T2 = T-type, M18 thread, length 20mm L2 = L shape, width 20mm, aperture 13.5mm G2 = Spherical bearing, bore 16mm, modelGS16		
⑧	Installation angle (counterclockwise)	0 =0°, Degree	9 =90°, Degree		
⑨	Please refer to the outlet type	1 = Dare wire 4 = Four-pin straight plug 7 = Waterproof plug	2 = 01 Straight plug 6 = Six-pin straight plug 0 = Customized		
⑩	Lead screw options	T = Trapezoidal screw (default preferred)	G= Ball screw rod		
⑪	Control method	A = No Control	D= Customized		
⑫	Signal output options	N = No	D = Potentiometer	W=passive signal U=active signal	
⑬	Cable length	07 = 700mm 30 = 300mm	10 = 1000mm 40 = 4000mm	15 = 1500mm 70 = 7000mm	20= 2000mm 00 =Customized

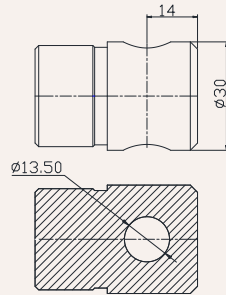
HTW76 Attachment Description Selection Code Table

Extended upper form:

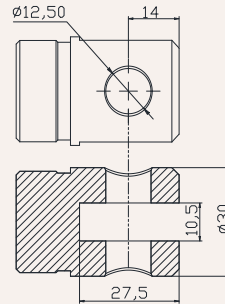
O1=No slot, aperture 12.5MM



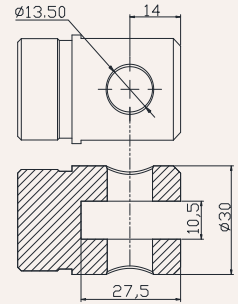
O2=No slot, aperture 13.5MM



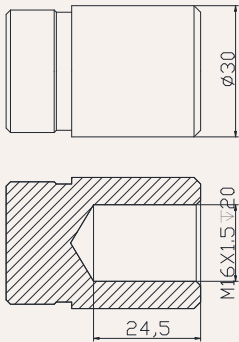
U1 = U-shaped, groove width 10.5mm, hole diameter 12.5mm



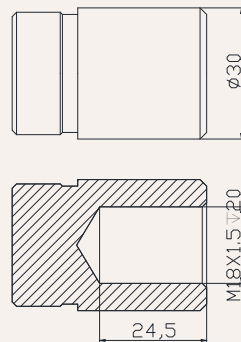
U2 = U-shaped, groove width 10.5mm, hole diameter 13.5mm



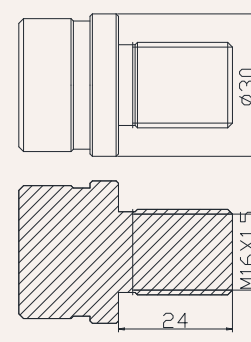
M1 = Type M, M16 thread, depth 20 mm



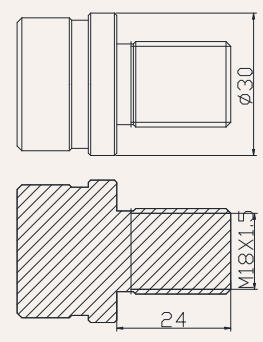
M2 = Type M, M18 thread, depth 20 mm



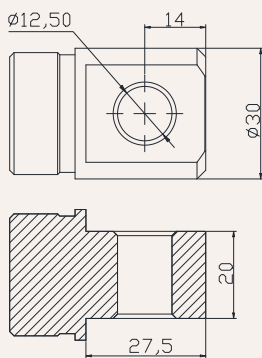
T1 = T-type, M16 thread, length 24mm



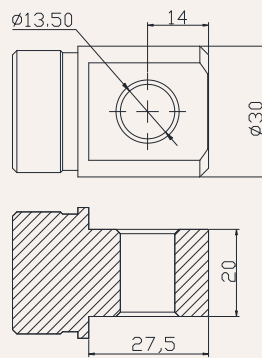
T2 = T-type, M18 thread, length 24mm



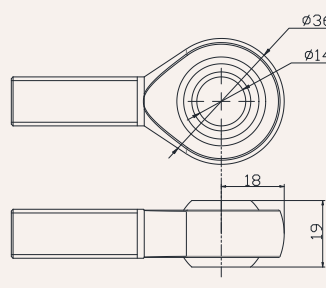
L1 = L shape, width 20mm, aperture 12.5mm



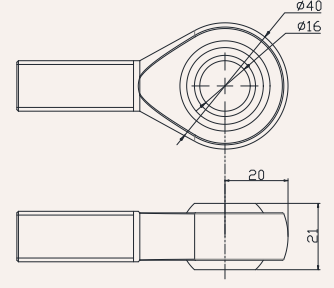
L2 = L shape, width 20mm, aperture 13.5mm



G1 = Spherical bearing, bore 12mm, model GS12

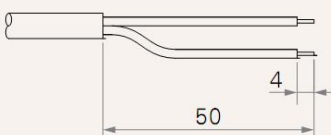


G2 = Spherical bearing, bore 14mm, model GS14

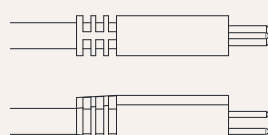


Power cord type:

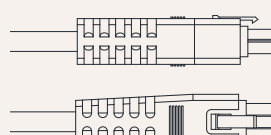
1 =Dare wire



2 = 01 Straight plug



4 =Four-pin straight plug



6 = Six-pin straight plug

