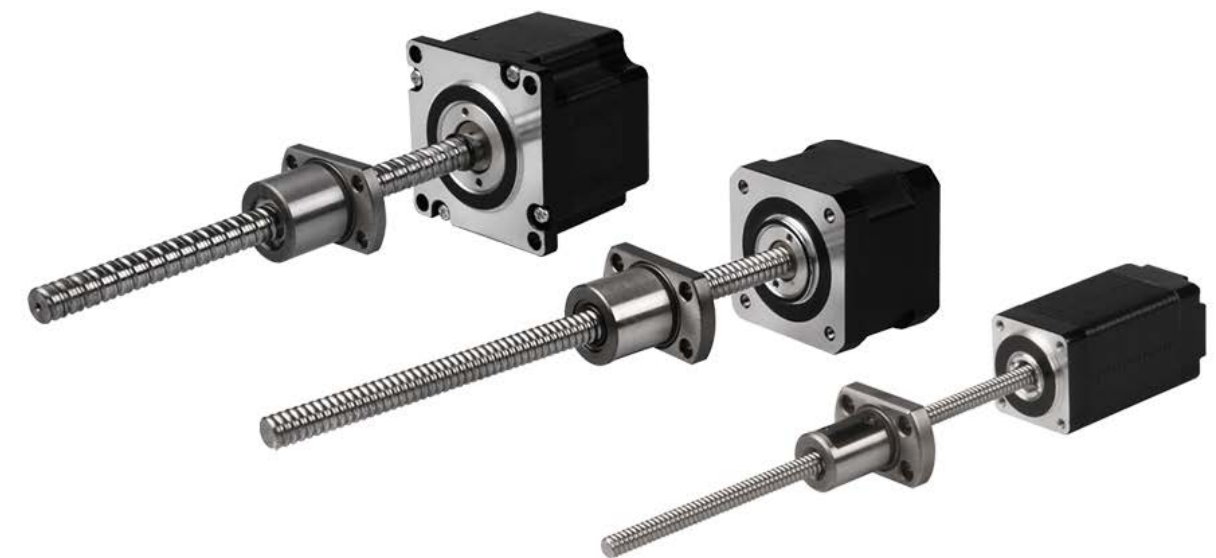


Ball Screw & Motor

线性执行器 · 滚珠丝杠

Product Manual · 产品手册



上海研蓝自动化科技

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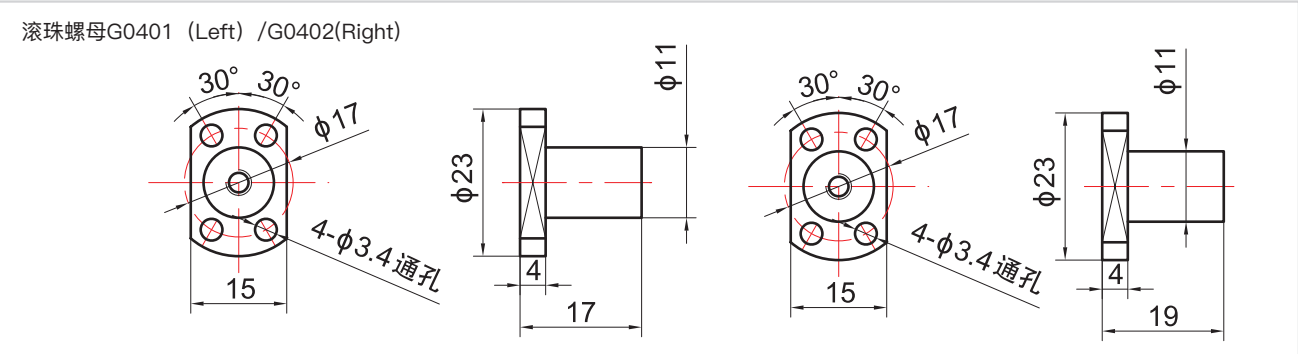
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2475750436@qq.com

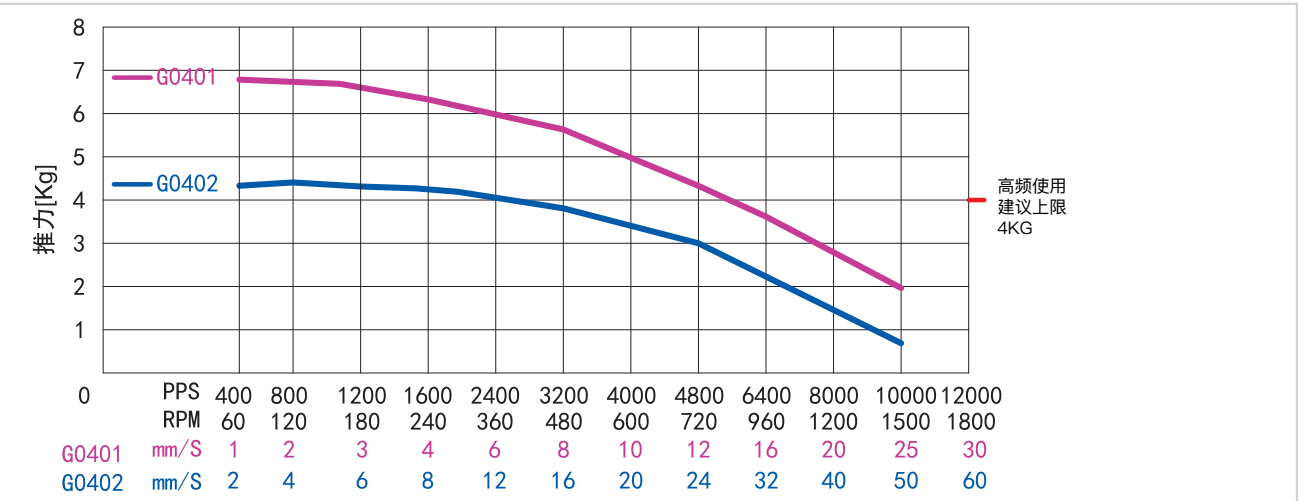
20mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 8

DIMENSIONS (IN MM)



Force–Velocity Curve–8HY38



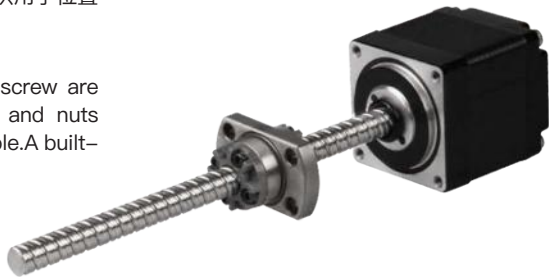
* G0601力矩性能等同于G0401 G0601 torque performance is equivalent to G0401
* G0602力矩性能等同于G0402 G0602 torque performance is equivalent to G0402
* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

28mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 11

Nema11集成滚珠丝杠电机，不带联轴器，电机与丝杠直接连接。 提供两种电机高度版本。 滚珠丝杠和螺母使用寿命更长，精度更高。 提供不同长度的螺杆。还提供用于位置反馈的内置编码器。

Nema11 integrated ball screw motor, without coupling, the motor and screw are directly connected. Two motor height versions available. Ball screws and nuts provide longer life and better accuracy. Screws of different lengths available.A built-in encoder for position feedback is also available.



Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	11HY34	11HY51
相电流 Current per Winding A	1.0	1.0
静力矩 Holding Torque mN.m	60	120
相电阻 Resistance per Winding Ohm	2.2	5.2
相电感 Inductance per Winding mH	1.5	4.3
转子惯量 Rotor Inertia gcm ²	9	18
电机重量 Weight kg	0.12	0.18
电机高度 Length “L” mm	34	51
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选	
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

11HY34–LExx–BG0601–E2000–P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

BG0601 = Screw code Diameter 6mm Lead 1mm
BG0601 = 滚珠丝杆 直径6毫米 导程1毫米

E2000=Encoder (Optional E500~2000/BE17/SE16)
E2000=编码器（可选增量500~2000CPR/17位多圈绝对/16位单圈绝对）

P/B/X/C= (P–Handwheel B–Brake X–Rear output
C–Customer Definition)
P/B/X/C= (P–手轮 B–刹车 X–后出轴 C–客户定义)

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0601	06	1	0.005
G0602	06	2	0.01
G0606	06	6	0.03

*实际行程：L1–1.5–螺母宽度A
*length: L1–1.5–Nut(A)

可选配件 ACCESSORIES

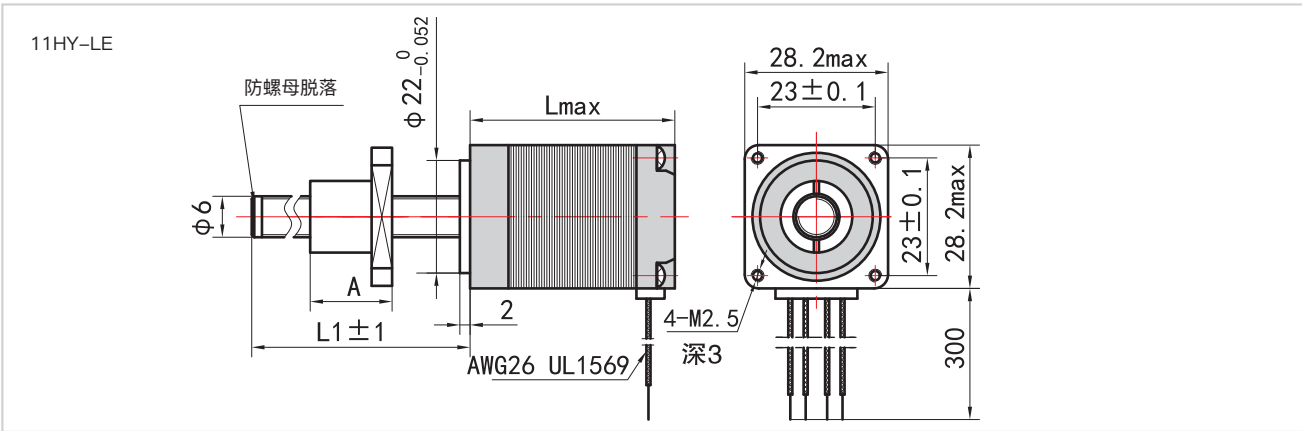
- HX12500–6Y Motor Cable 0.4m
- ZK–ENC–500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息请与我们联络。 Multiple encoders/ Drives supported, please contact us.

28mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 11

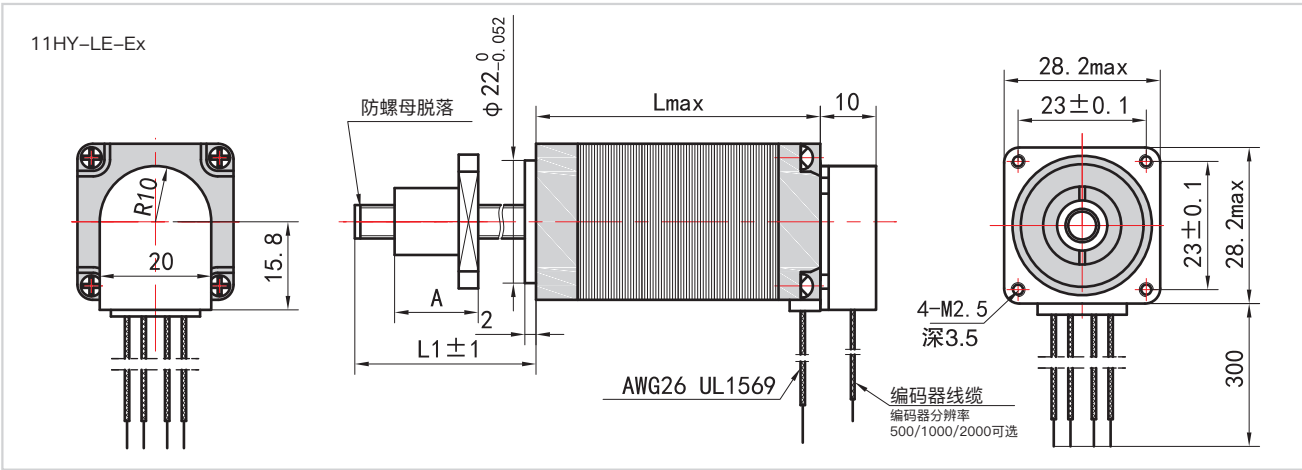
DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



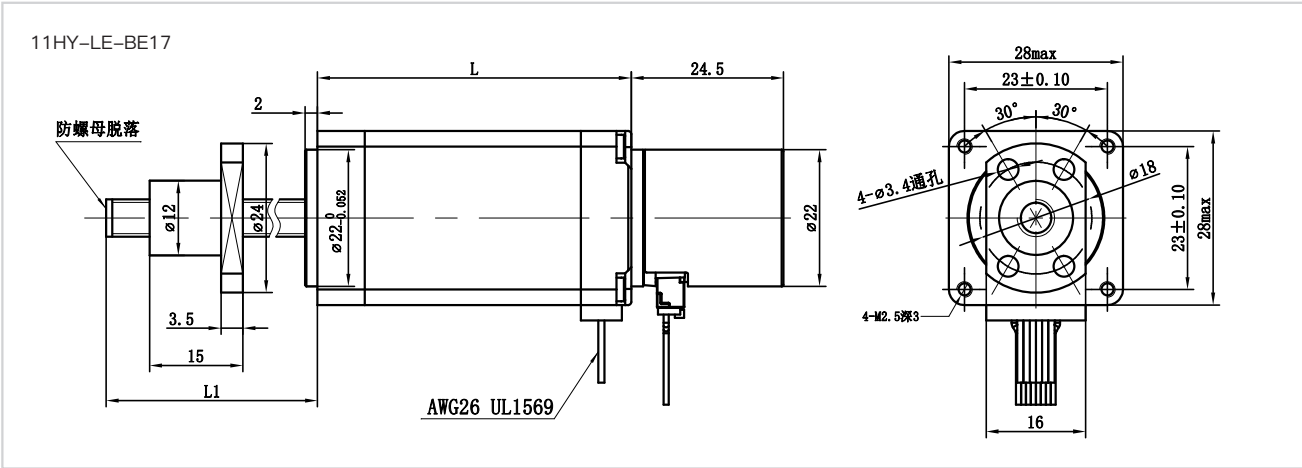
DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



DIMENSIONS (IN MM)

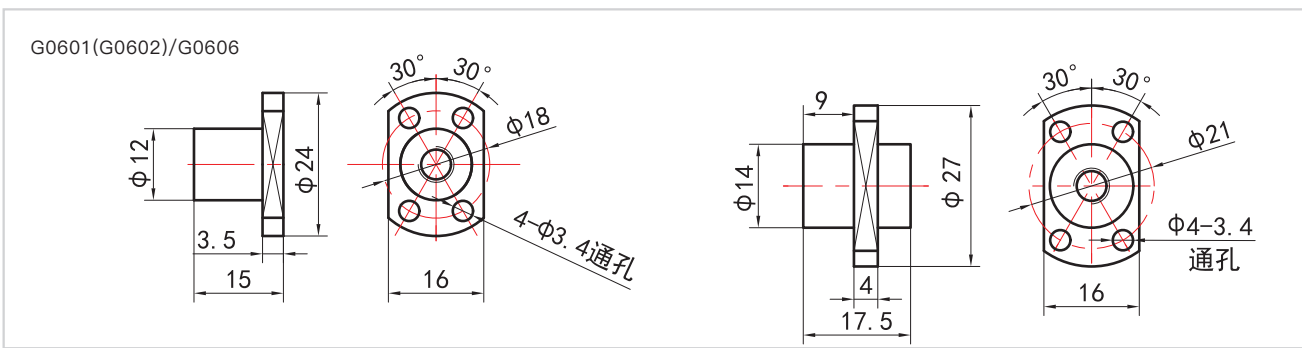
*丝杆长度和端部加工（如轴承位）可按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



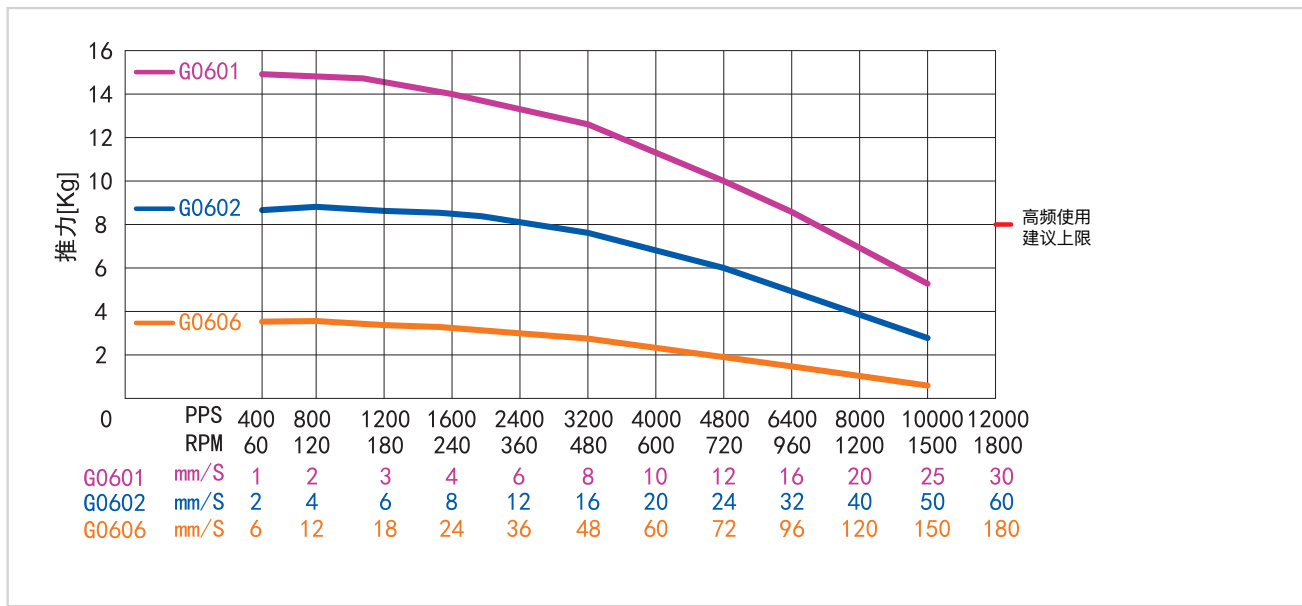
28mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 11

DIMENSIONS (IN MM)

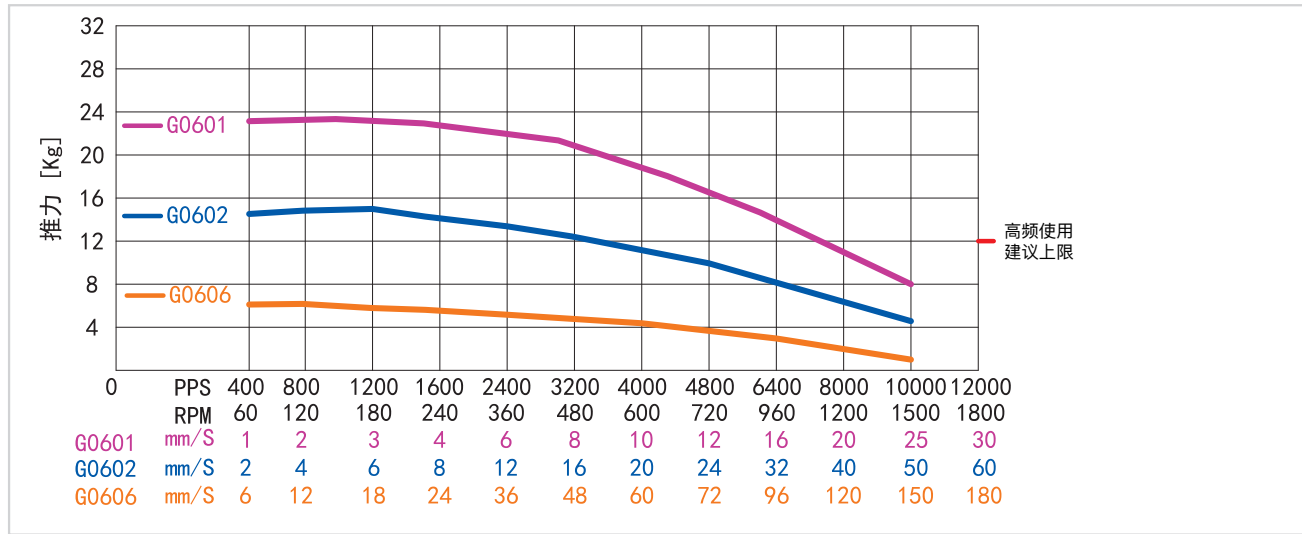


Force-Velocity Curve-11HY34



* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

Force-Velocity Curve-11HY51



35mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 14

Nema14外部线性执行器集成了滚珠丝杠和电机，无联轴器，使用寿命更长，精度更高。 提供不同长度的螺钉。还提供用于位置反馈的内置编码器。适用于医疗，光学和其他应用

Nema14 external linear actuator integrated ball screw & motor, without coupling.Provide longer life and better accuracy. Screws of different lengths available.A built-in encoder for position feedback is also available.Suitable for medical, optical and other applications

Feature

- Integrated ball screw & motor 集成滚珠丝杠和电机
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controller 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	14HS34
相电流 Current per Winding A	1.0
静力矩 Holding Torque mN.m	160
相电阻 Resistance per Winding Ohm	2.3
相电感 Inductance per Winding mH	3
转子惯量 Rotor Inertia gcm ²	18
电机重量 Weight kg	0.18
电机高度 Length “L” mm	34
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

14HS34-LExx-BG0601-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm

LExx =外部驱动式电机，丝杆长度xx毫米

BG0601 = Screw code Diameter 6mm Lead 1

BG0601 = 滚珠丝杆 直径6毫米 导程1毫米

E2000=Encoder (Optional E500-2000/BE17/SE16)

E2000=编码器（可选增量500~2000CPR/17位多圈绝对/16位单圈绝对）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)

P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0601	06	1	0.005
G0602	06	2	0.01
G0606	06	6	0.03
G0802	08	2	0.01
G0805	08	5	0.025

*实际行程：L1-2-螺母宽度A

*length: L1-2-Nut(A)

可选配件 ACCESSORIES

- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器

- 编码器/控制器 规格多样，具体信息请与我们联系。 Multiple encoders/Drives supported, please contact us.

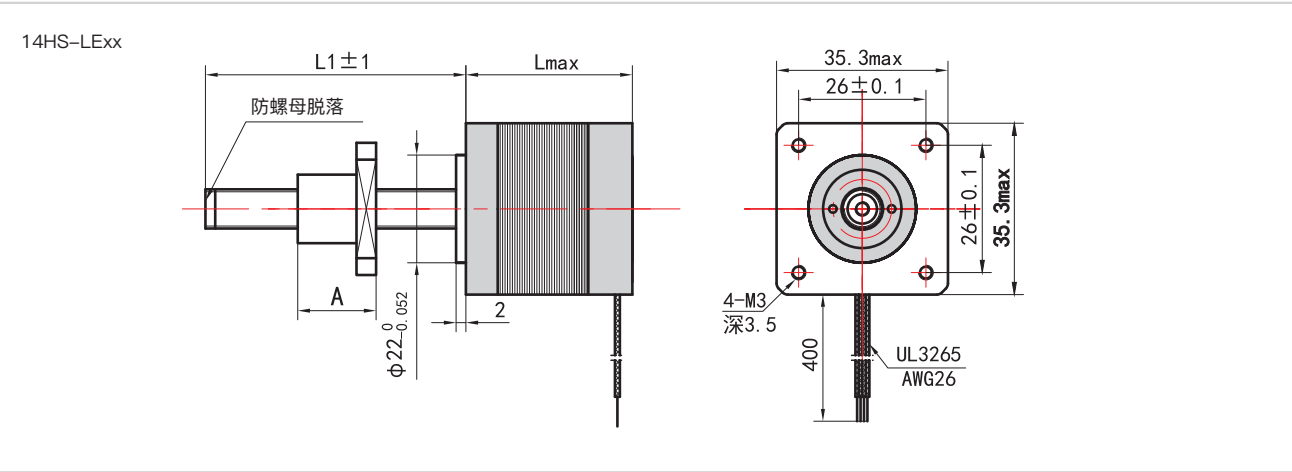
35mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 14

DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可按用户要求加工生产

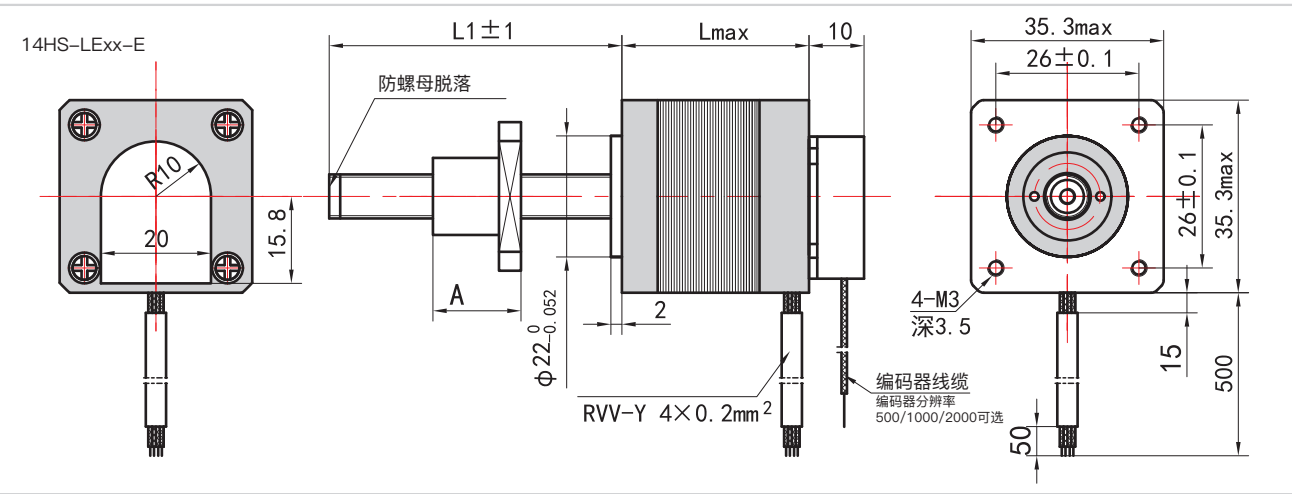
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



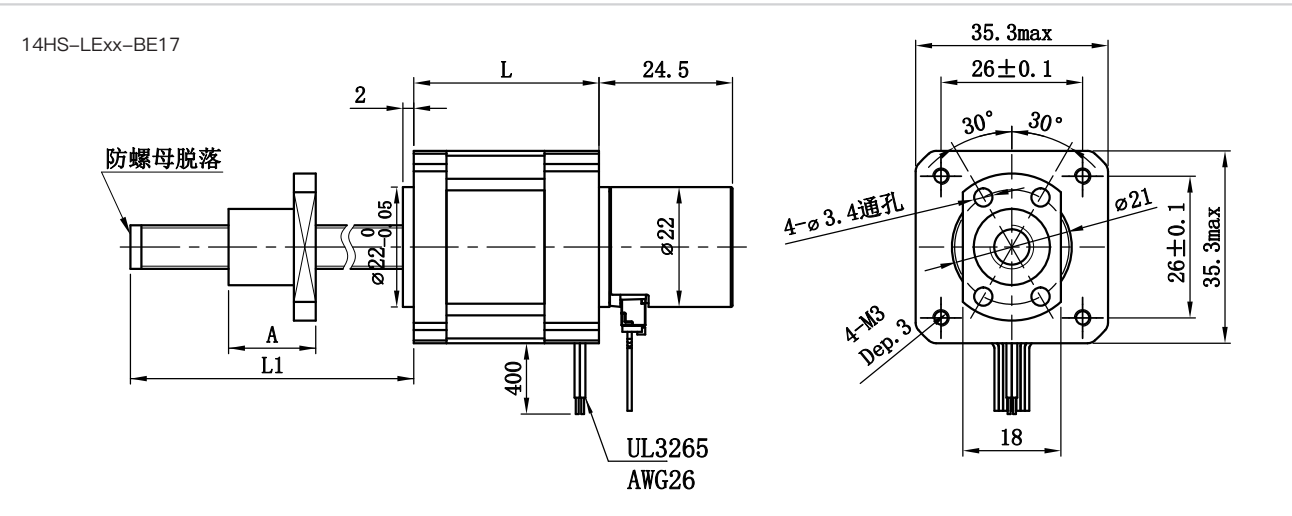
DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可按用户要求加工生产

*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



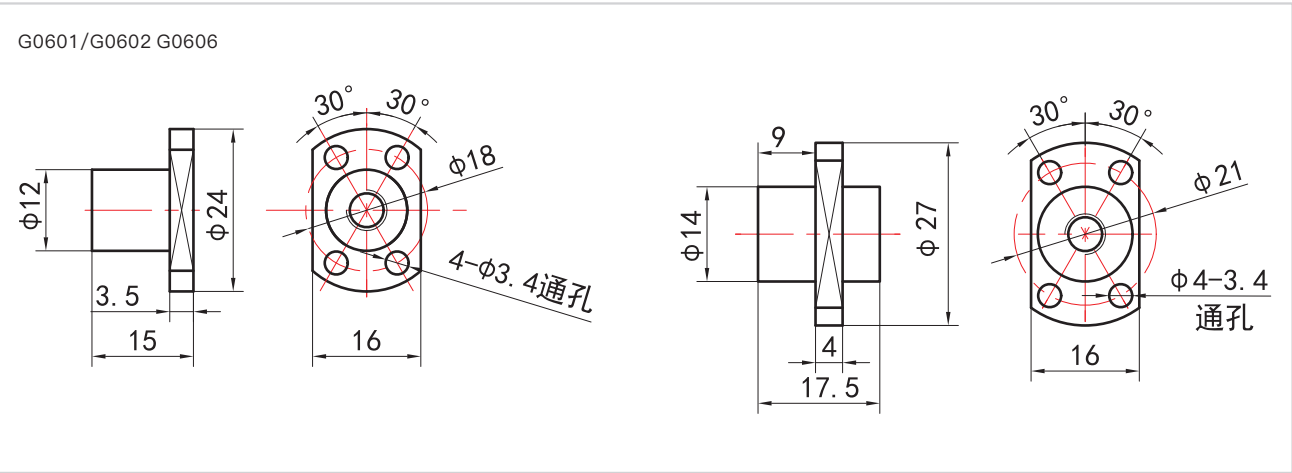
DIMENSIONS (IN MM)



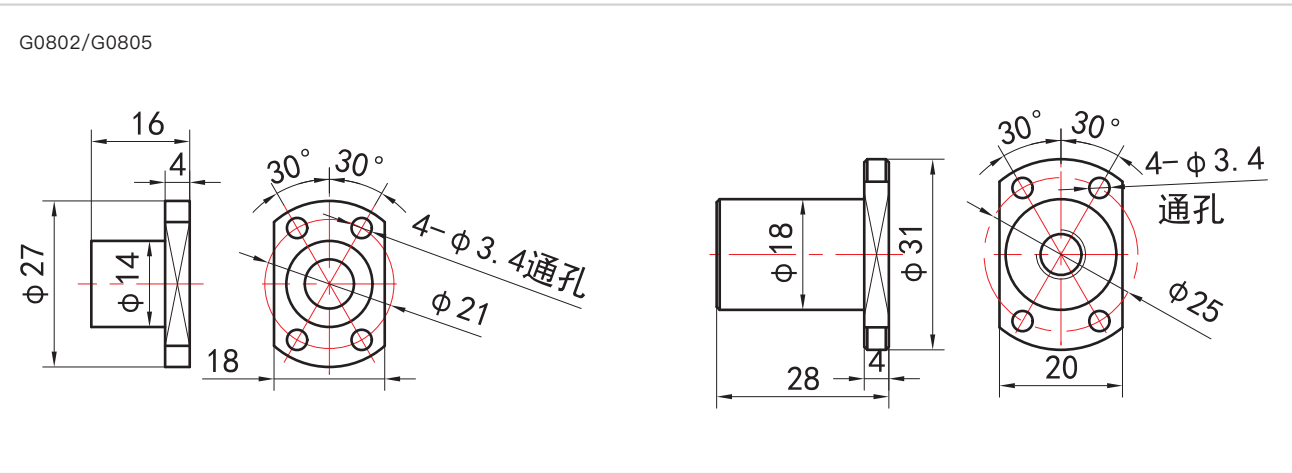
35mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 14

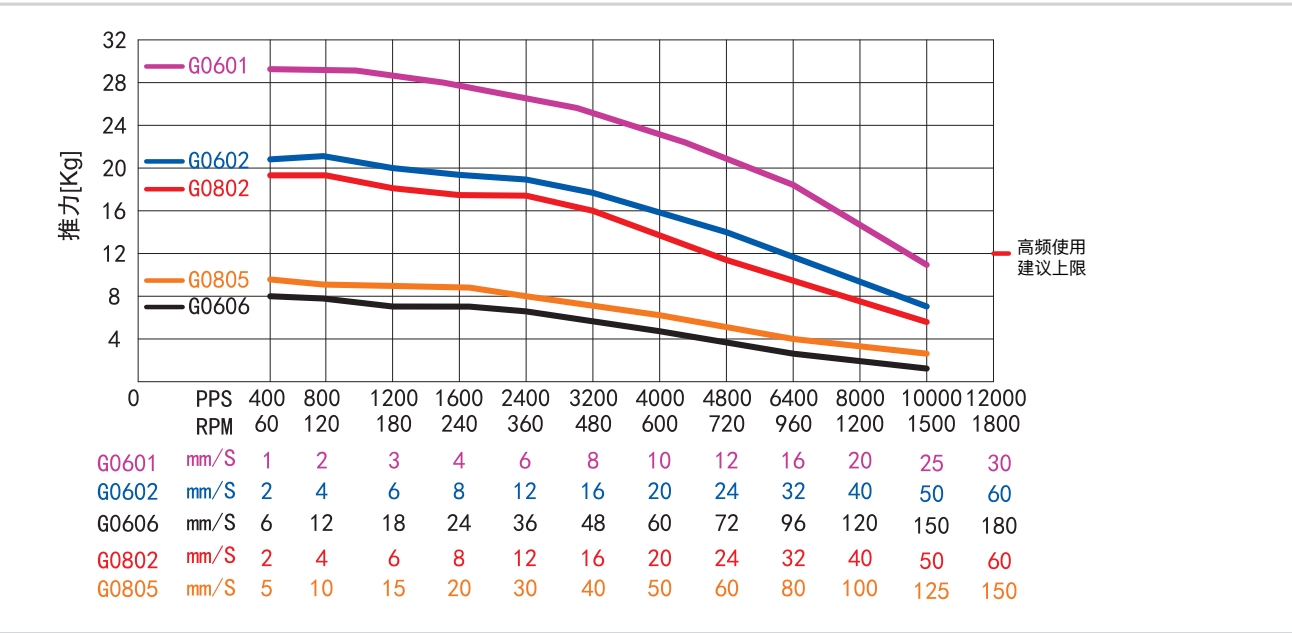
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



Force-Velocity Curve 14HS34



* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

42mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 17

Nema17一体式滚珠丝杠和电机，不带联轴器。 提供具有不同电机高度和不同丝杠长度的版本； 还提供用于位置反馈的内置编码器。

Nema17 integrated ball screw and motor without coupling. Versions with different motor heights and different screw lengths are available; built-in encoders for position feedback are also available.

Feature

- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0005mm/step with our controller 使用控制器时，0.0005mm /步

VERSIONS

系列代码 Series models	42HS34	42HS48
相电流 Current per Winding A	1.5	1.5
静力矩 Holding Torque mN.m	260	430
相电阻 Resistance per Winding Ohm	1.56	2.0
相电感 Inductance per Winding mH	2.4	3.85
转子惯量 Rotor Inertia gcm²	38	82
电机重量 Weight kg	0.12	0.18
电机高度 Length “L” mm	34	48
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选	
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

17HS48-LExx-BG0802-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

BG0802 = Screw code Diameter 8mm Lead 2mm
BG0802 = 滚珠丝杆 直径8毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17/SE16)
E2000=编码器（可选增量500~2000CPR/17位多圈绝对/16位单圈绝对）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0802	08	2	0.01
G0805	08	5	0.025

*实际行程: L1-2-螺母宽度A
*length: L1-2-Nut(A)

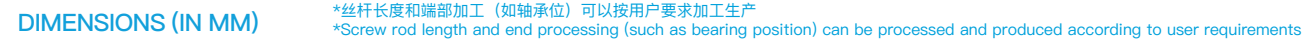
可选配件 ACCESSORIES

- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器

编码器/控制器 规格多样，具体信息请与我们联系。 Multiple encoders/Drives supported, please contact us.

External Linear Actuator With Ball Screw – NEMA 17

*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



* 采用我们的驱动器, 性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

*Measured in the laboratory, safety margin must be greater than the above value 30% to 50%

57mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 23

NEMA 23 (56 mm) 线性执行器，具有高推力和拉力。无需联轴器。滚珠丝杠具有更长的使用寿命和更高的精度。还提供用于位置反馈的内置高精度编码器。精密线性轴的理想选择

NNEMA 23 (56 mm) linear actuator with high thrust and pull.Without the need for a coupling. Ball screws have a longer life and higher accuracy. A built-in high-precision encoder for position feedback is also available. Ideal for precision linear axes

Feature

- Integrated ball screw & motor 集成滚珠丝杠和电机
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0025mm/step with our controller •使用我们的控制器为0.0025mm /步



VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电流 Current per Winding A	2.0	3.0	4.0
静力矩 Holding Torque mN.m	0.7	1.3	1.6
相电阻 Resistance per Winding Ohm	1.63	1.1	0.5
相电感 Inductance per Winding mH	4.2	3.2	1.7
转子惯量 Rotor Inertia gcm²	155	280	460
电机重量 Weight kg	0.5	0.63	1
电机高度 Length “L” mm	45	56	76
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选		
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）		

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

23HS45-LExx-BG1202-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

BG1202 = Screw code Diameter 12mm Lead 2mm
BG1202 = 滚珠丝杆 直径12毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17/SE16)
E2000=编码器（可选增量500~2000CPR/17位多圈绝对/16位单圈绝对）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G1202	12	2	0.01
G1204	12	4	0.02
G1205	12	5	0.025
G1605	16	5	0.025
G1610	16	10	0.05
G1616	16	16	0.08

*实际行程：L1-1.6-螺母宽度A
*length: L1-1.6-Nut(A)

可选配件 ACCESSORIES

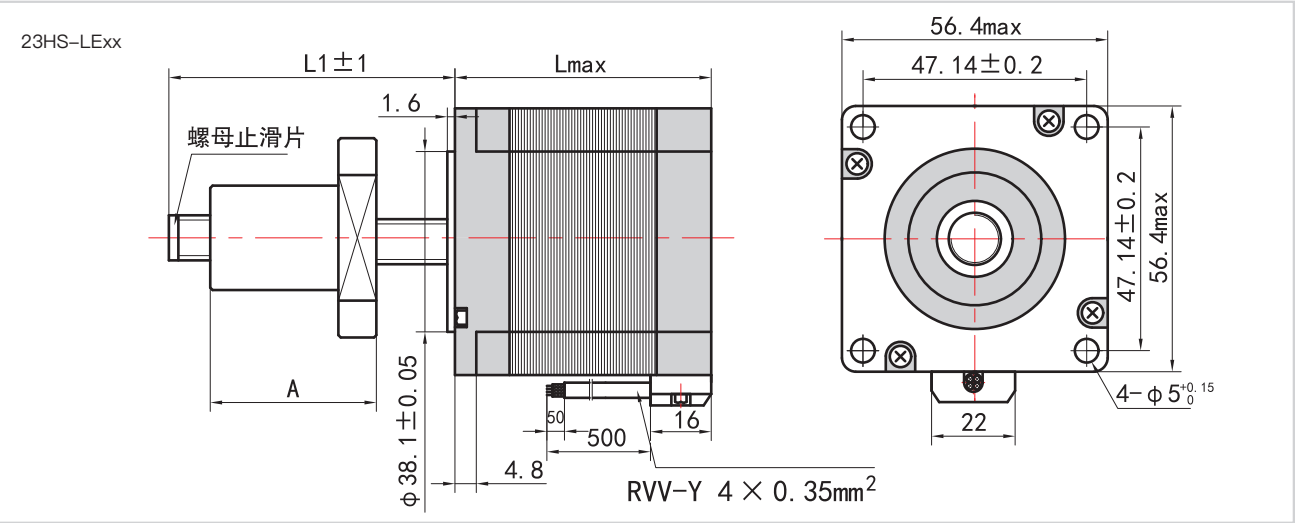
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息请与我们联系。 Multiple encoders/Drives supported, please contact us.

57mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 23

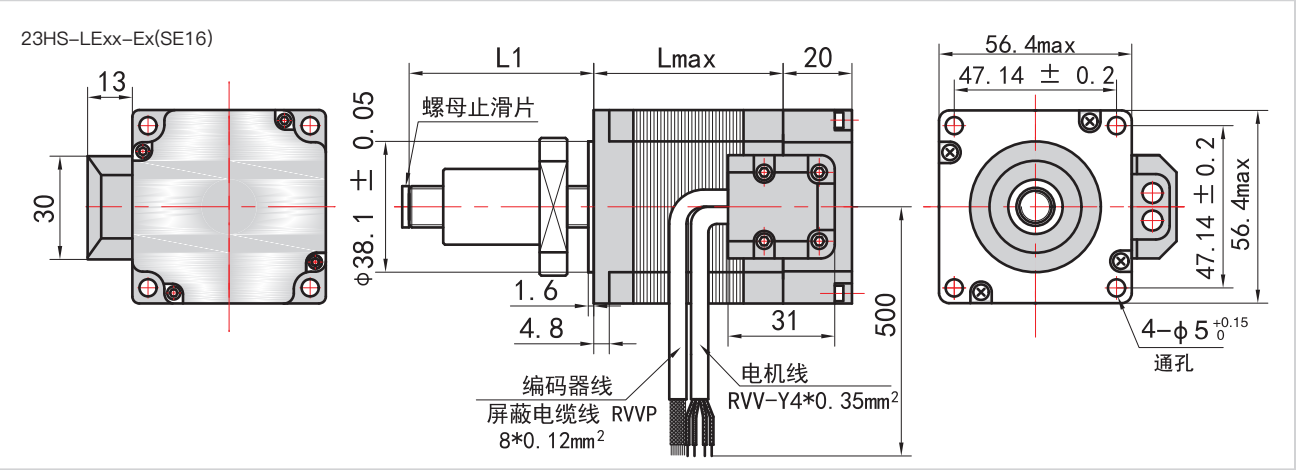
DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可以按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements

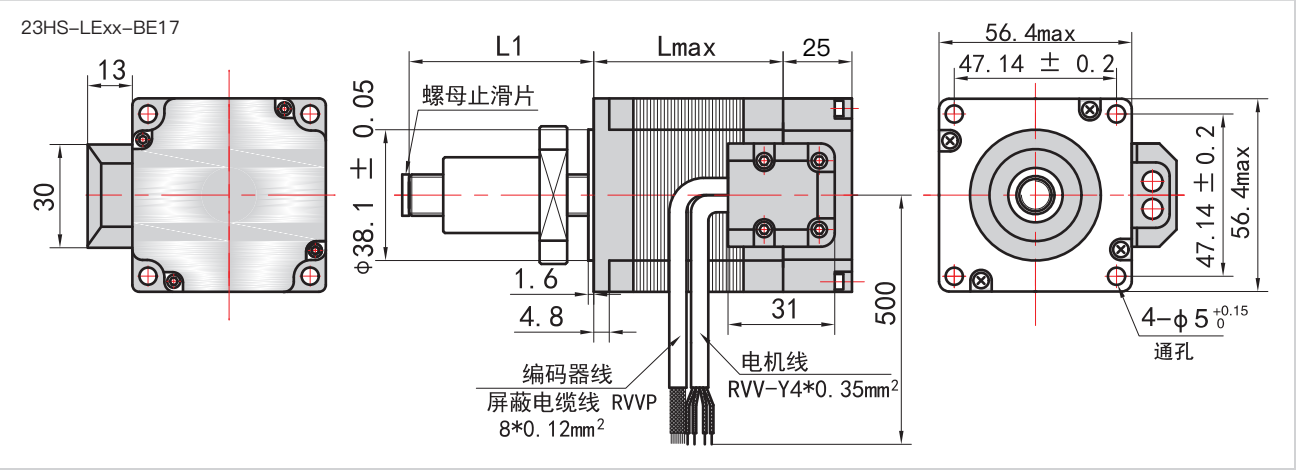


DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可以按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



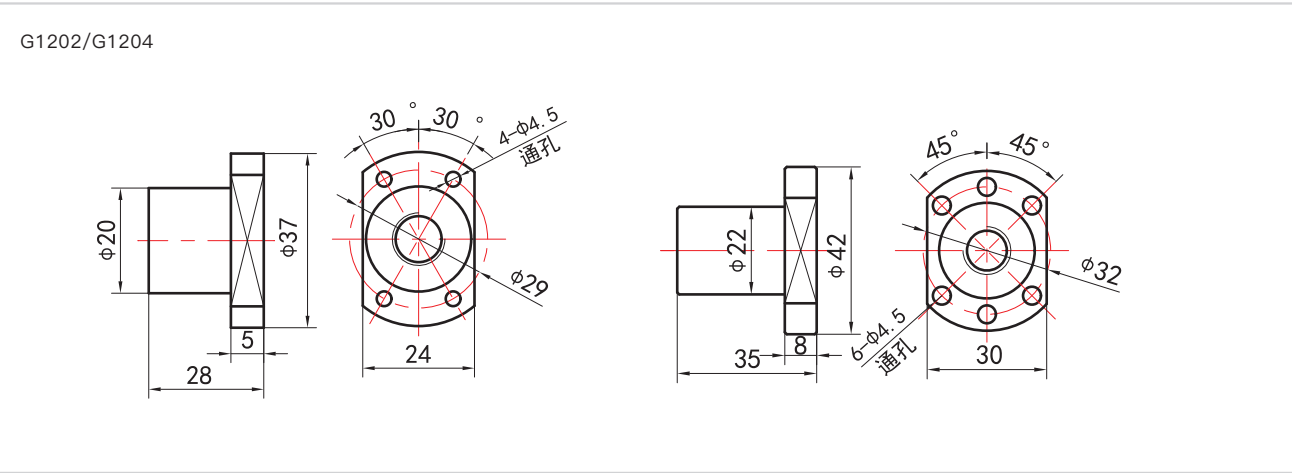
DIMENSIONS (IN MM)



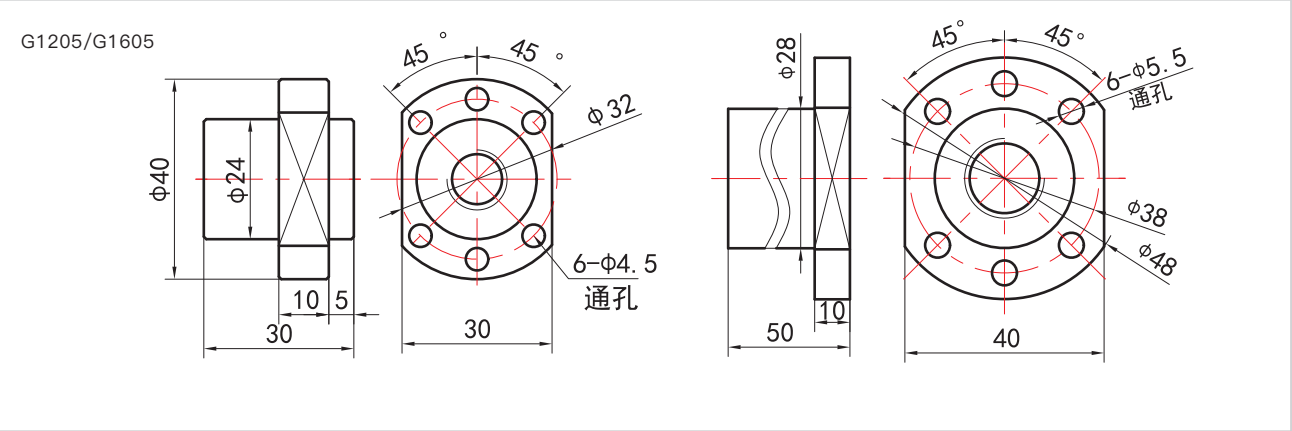
57mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 23

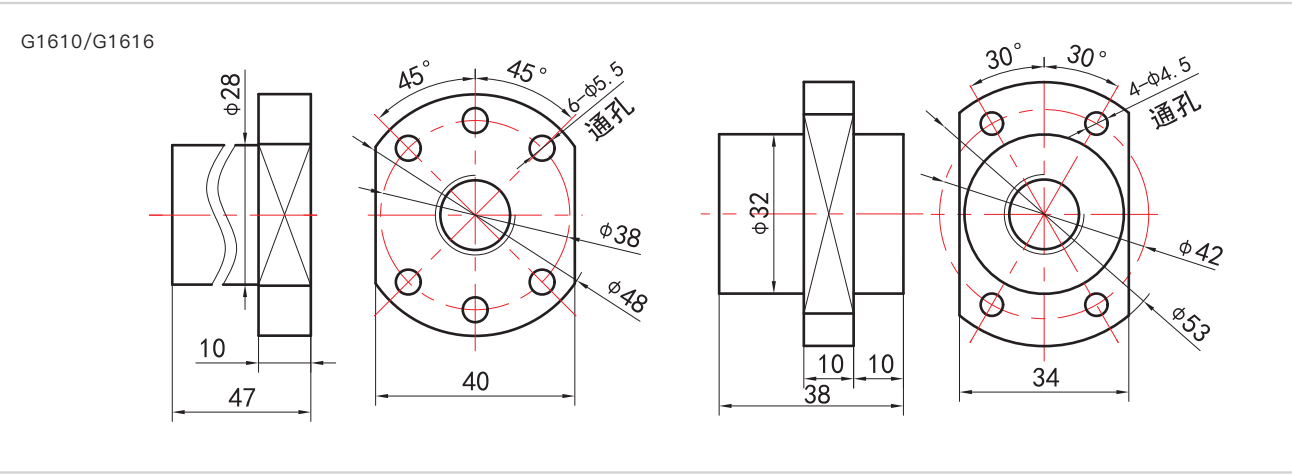
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



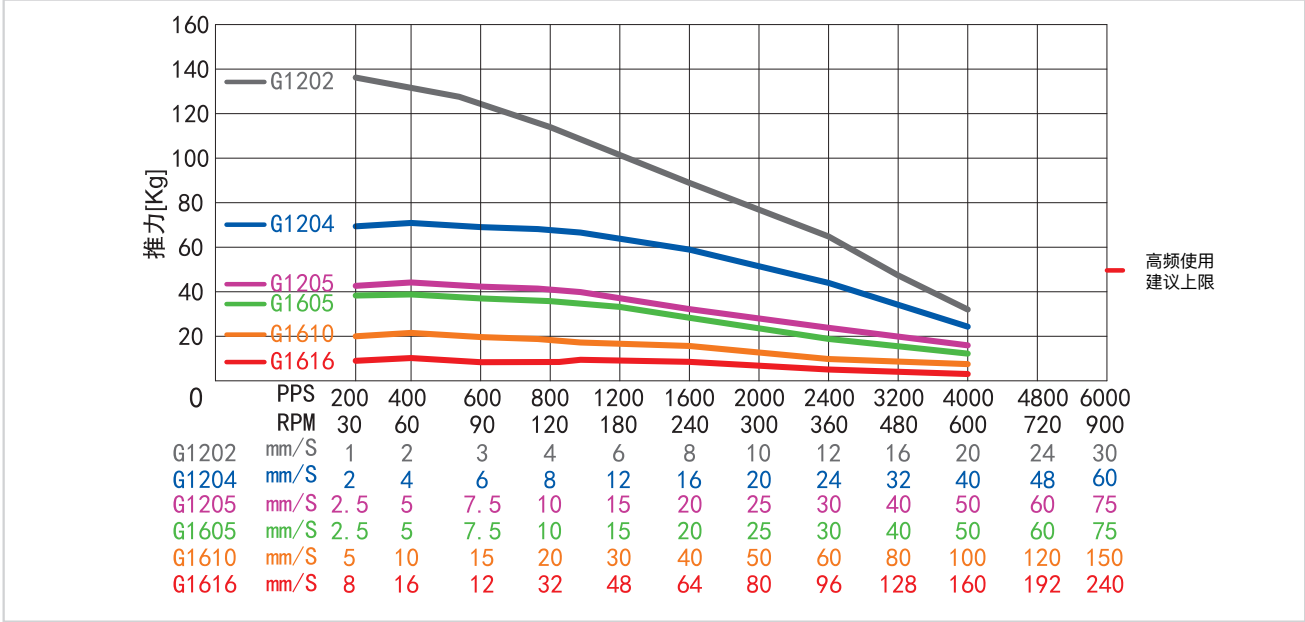
DIMENSIONS (IN MM)



57mm法兰外部驱动式滚珠直线步进电机

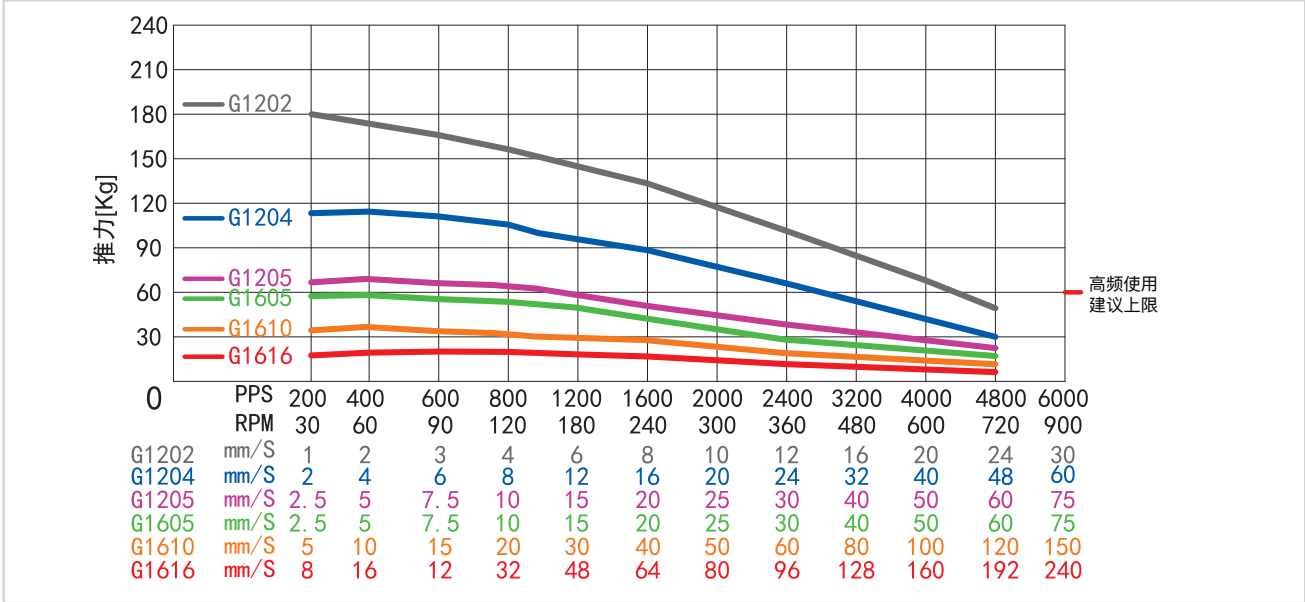
External Linear Actuator With Ball Screw – NEMA 23

Force-Velocity Curve-23HS45



* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

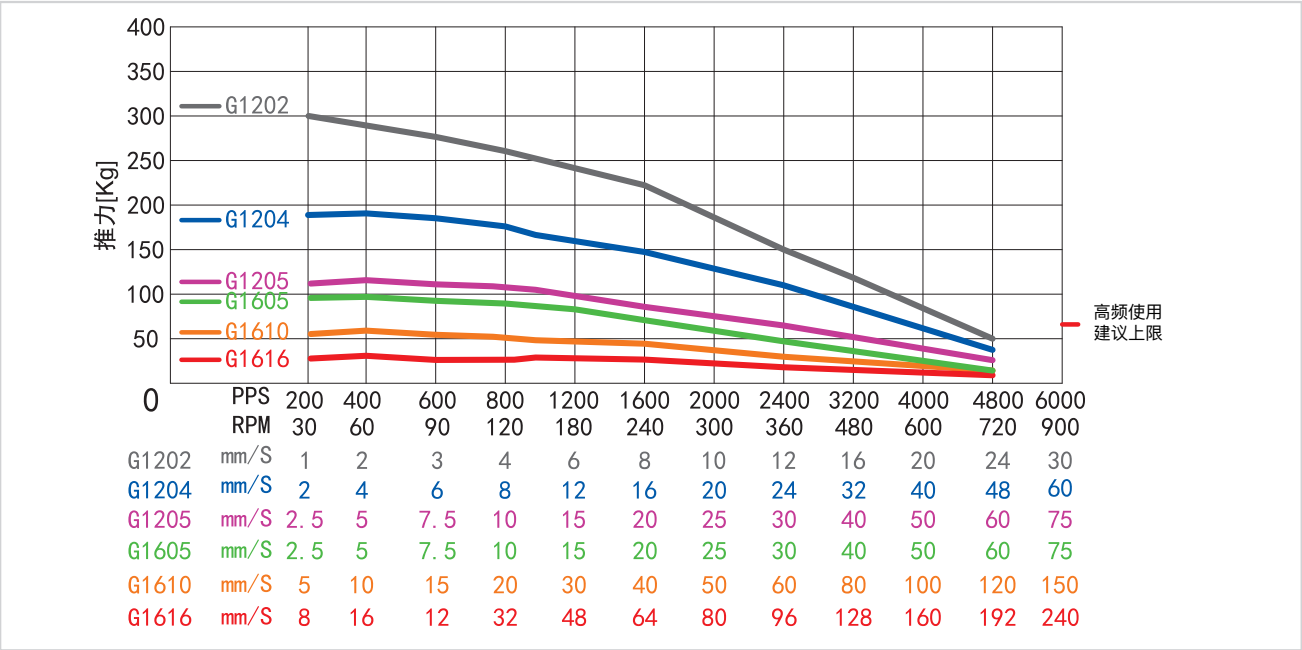
Force-Velocity Curve-23HS56



57mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 23

Force–Velocity Curve–23HS76



* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

86mm法兰外部驱动式滚珠直线步进电机

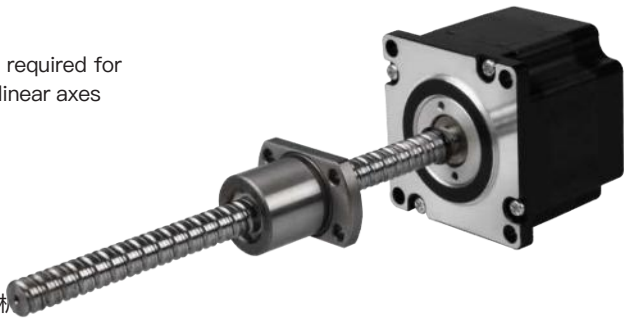
External Linear Actuator With Ball Screw – NEMA 34

高扭矩nema34混合式步进电机+滚珠丝杠。 直接连接无需耦合。 提供内置编码器版本。 精密线性伺服轴的理想选择

High torque nema34 hybrid stepper motor + ball screw. No coupling is required for direct connection. Built-in encoder version available. Ideal for precision linear axes

Feature

- Integrated ball screw & Nema34 motor 集成滚珠丝杠和Nema34电机
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0025mm/step with our controller 使用我们的控制器为0.0025mm /步



VERSIONS

系列代码 Series models	34HS76	34HS95
相电流 Current per Winding A	4.0	6.0
静力矩 Holding Torque mN.m	3.5	7.0
相电阻 Resistance per Winding Ohm	0.5	0.4
相电感 Inductance per Winding mH	3.7	3.8
转子惯量 Rotor Inertia gcm²	1400	1700
电机重量 Weight kg	1.4	2.7
电机高度 Length “L” mm	76	98
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选	
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

34HS76–LExx–BG1605–E2000–P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

BG1605 = Screw code Diameter 16mm Lead 5mm
BG1605 = 滚珠丝杆 直径16毫米 导程5毫米

E2000=Encoder (Optional E500~2000/BE17/SE16)
E2000=编码器（可选增量500~2000CPR/17位多圈绝对/16位单圈绝对）

P/B/X/C= (P–Handwheel B–Brake X–Rear output
C–Customer Definition)
P/B/X/C= (P–手轮 B–刹车 X–后出轴 C–客户定义)

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM)	Lead(MM) 导程	Step(MM) 步长
G1605	16	5	0.025
G1610	16	10	0.05
G1616	16	16	0.08
G2005	20	5	0.025
G2020	20	20	0.1

*实际行程：L1–1.6–螺母宽度A
*length: L1–1.6–Nut(A)

可选配件 ACCESSORIES

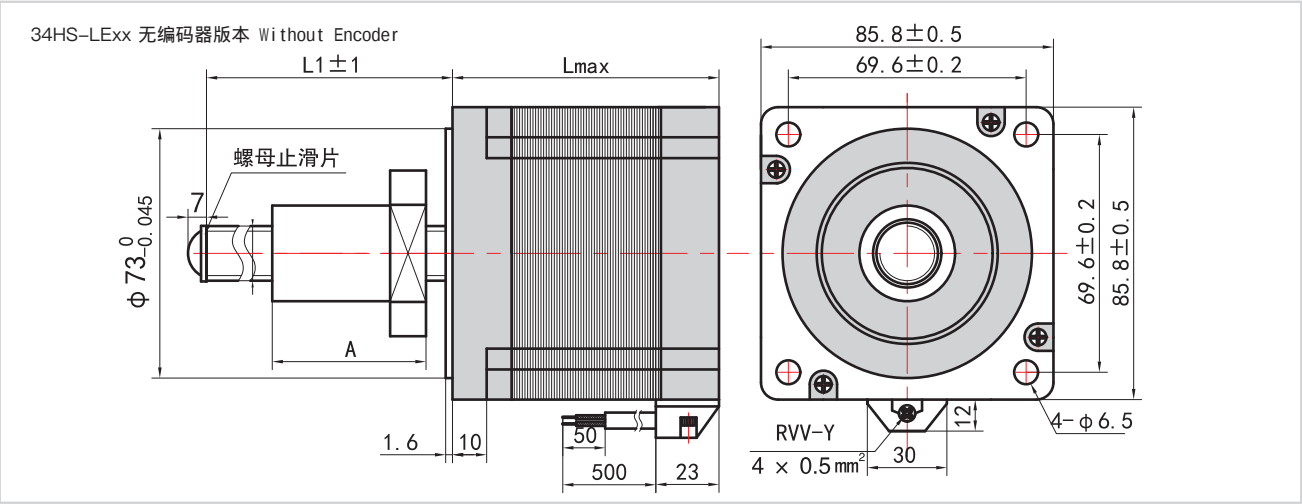
- ZK–ENC–500 Encoder Cable 0.5m
 - Encoder 高精度编码器
 - Motor Controllers / Drives 电机驱动控制器
- 编码器/控制器 规格多样，具体信息请与我们联系。 Multiple encoders/Drives supported, please contact us.

86mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 34

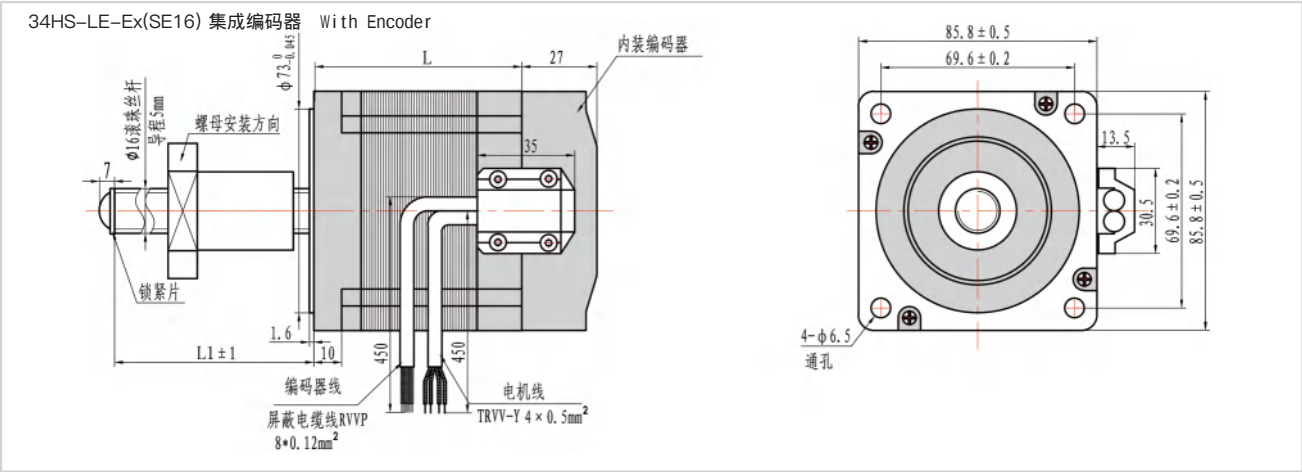
DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可以按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements

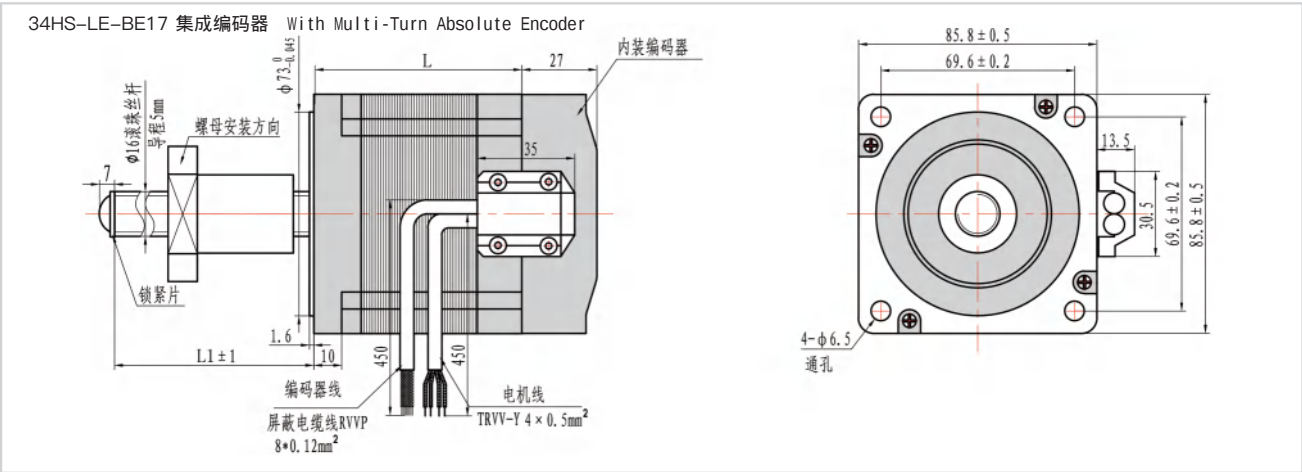


DIMENSIONS (IN MM)

*丝杆长度和端部加工（如轴承位）可以按用户要求加工生产
*Screw rod length and end processing (such as bearing position) can be processed and produced according to user requirements



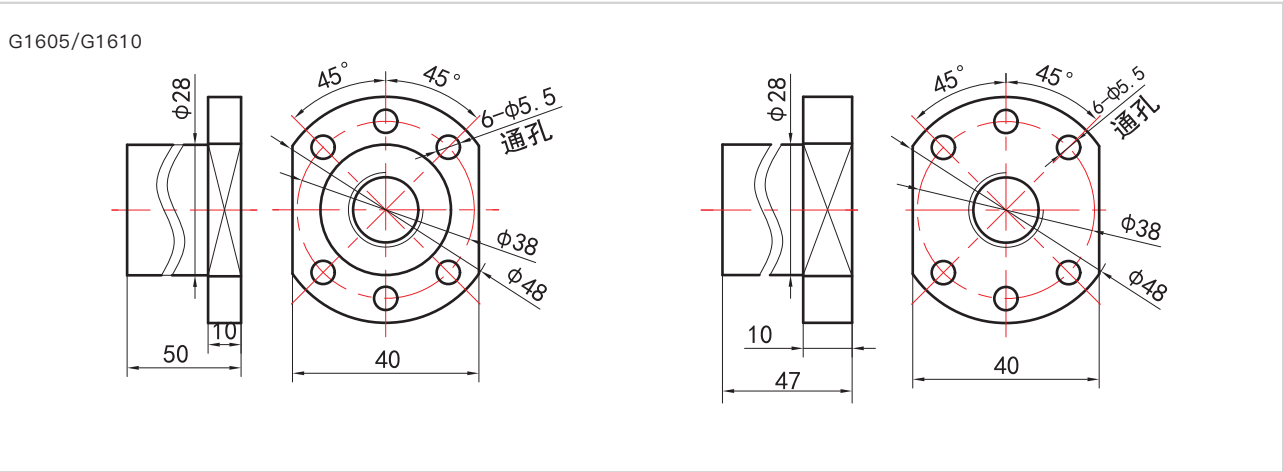
DIMENSIONS (IN MM)



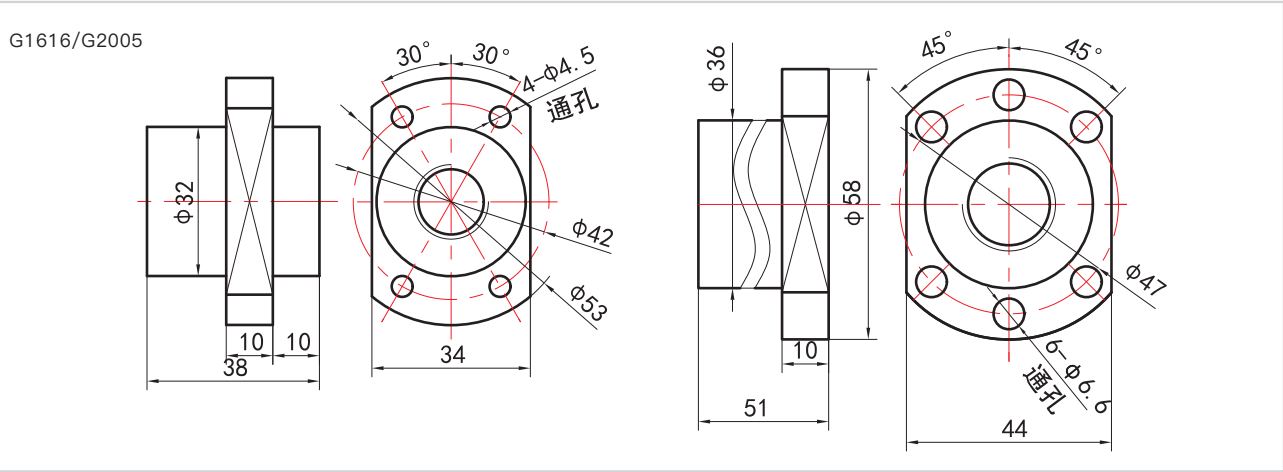
86mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 34

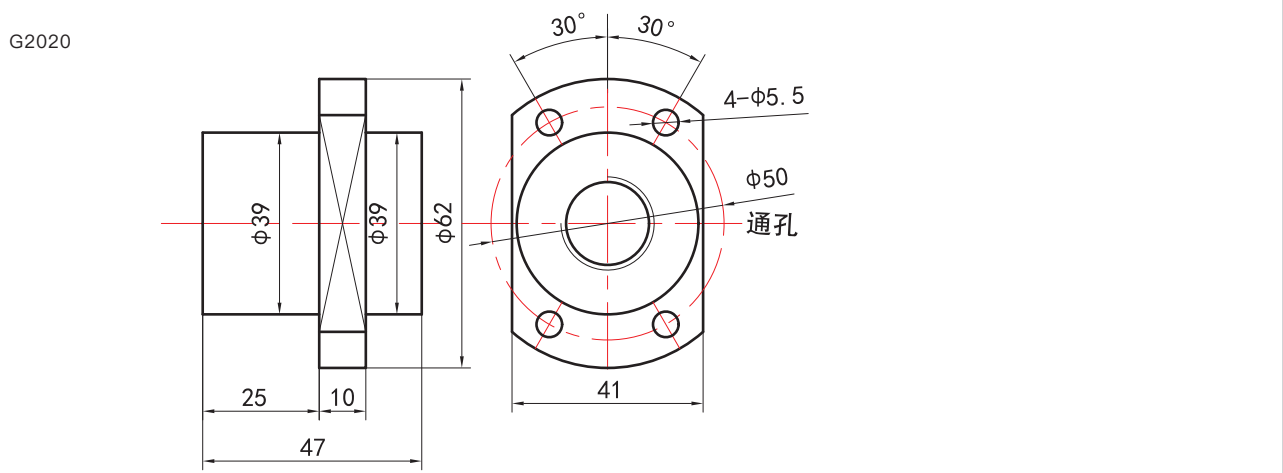
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



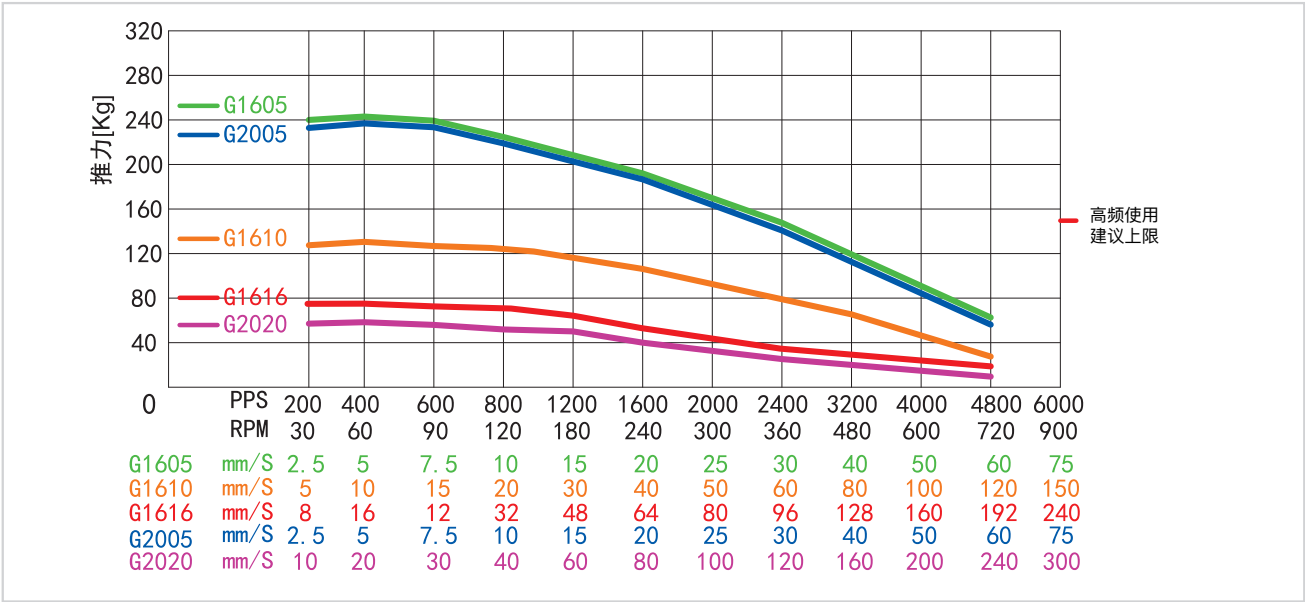
DIMENSIONS (IN MM)



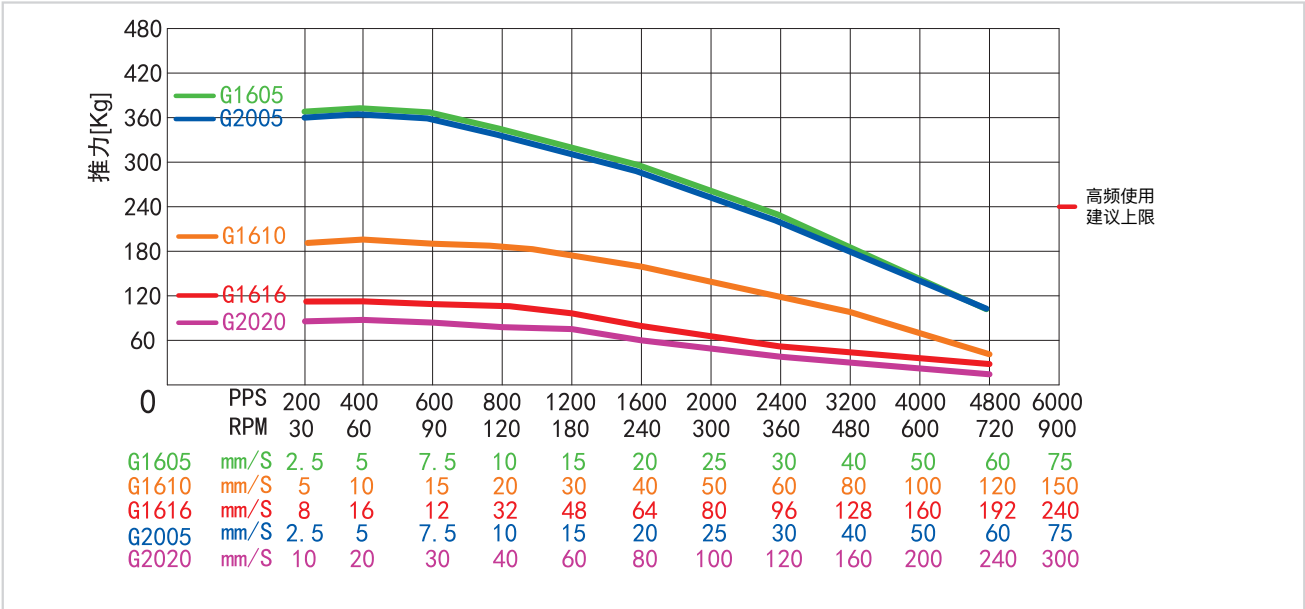
86mm法兰外部驱动式滚珠直线步进电机

External Linear Actuator With Ball Screw – NEMA 34

Force–Velocity Curve–34HS76



Force–Velocity Curve–34HS98



* 采用我们的驱动器，性能可以增强15%~20% By using our driver, performance can be improved by 15% to 20%

28mm法兰贯通轴式滚珠直线步进电机

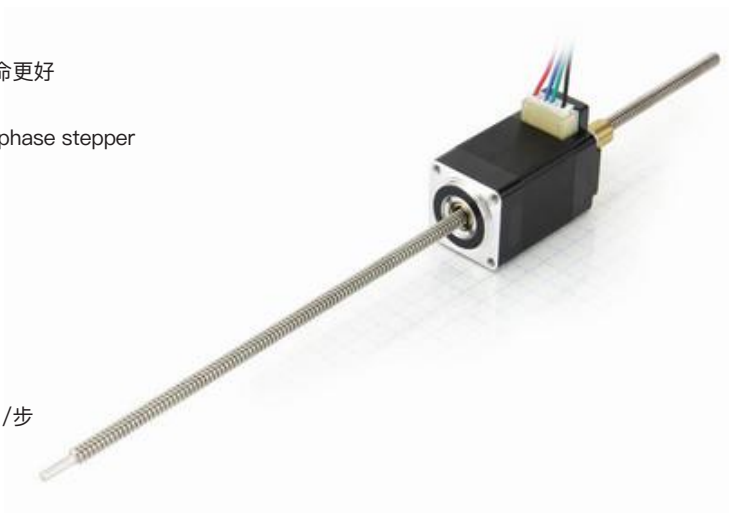
Through–shaft Linear Actuator With Ball Screw – NEMA 11

Nema11通轴线性执行器集成了滚珠丝杠和两相步进电机。比T型丝杠寿命更好

Nema11 through–axis linear actuators integrate ball screws and two–phase stepper motors. Better life than T–screws

Feature

- Through–shaft linear actuator 贯通轴线性执行器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.001mm/step with our controller 与我们的控制器一起0.001mm /步



VERSIONS

系列代码 Series models	11HY34	11HY51
相电流 Current per Winding A	1.0	1.0
静力矩 Holding Torque mN.m	60	120
相电阻 Resistance per Winding Ohm	2.2	5.2
相电感 Inductance per Winding mH	1.5	4.3
转子惯量 Rotor Inertia gcm ²	9	18
电机重量 Weight kg	0.12	0.18
电机高度 Length “L” mm	34	51
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选	
反馈装置 Feedback	Encoder(Closed–loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

11HY34–Lxx–BG0601–E2000–C

Lxx =Through–shaft Screw length xx mm

Lxx =贯通轴式电机，丝杆长度xx毫米

BG0601 =Screw code Diameter 6mm Lead 1mm

BG0601 = 滚珠丝杆 直径6毫米 导程1毫米

E2000=Encoder (Optional E500~2000/BE17)

E2000=编码器（可选增量500~2000CPR/17位多圈绝对）

C= (C–Customer Definition)

C= (C–客户定义)

注：11HY02版本供货状态，请与我们确认
–E 版本供货状态，请与我们确认

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0601	06	1	0.005
G0602	06	2	0.01
G0606	06	6	0.03

*提示：丝杆长度和轴端可按需生产，不可超行程工作
*The length and shaft end can be produced

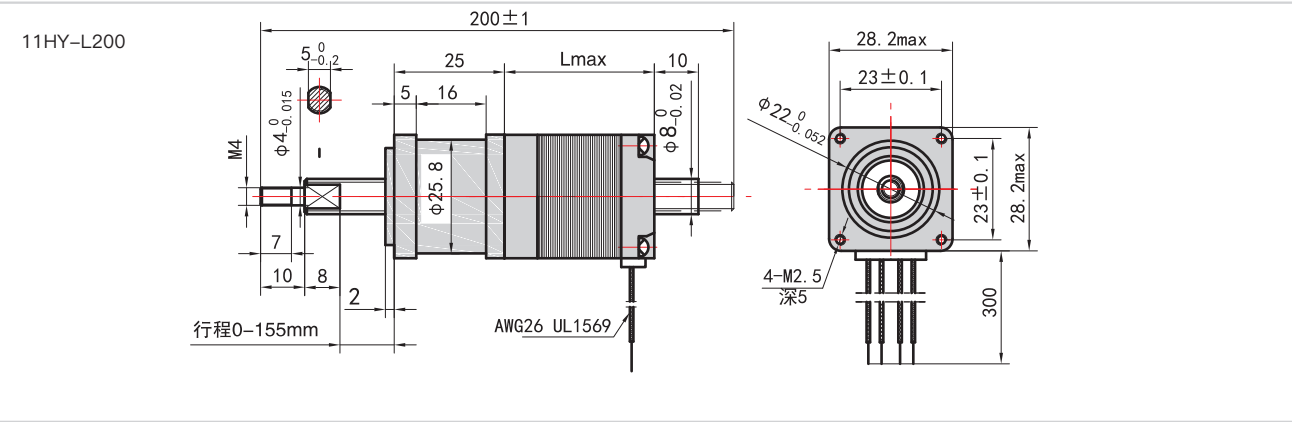
可选配件 ACCESSORIES

- HX12500–6Y Motor Cable 0.4m
- ZK–ENC–500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器

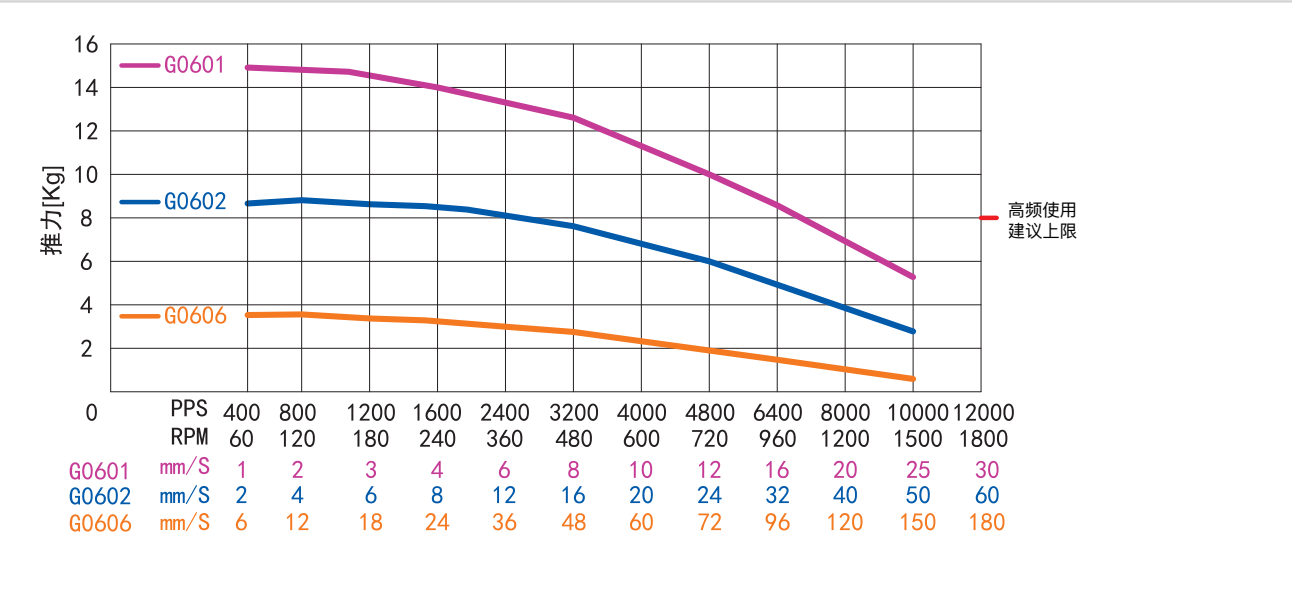
28mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 11

DIMENSIONS (IN MM)



Force-Velocity Curve-11HY01



35mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 14

Nema14通轴线性执行器集成了滚珠丝杠和电机，使用寿命更长，精度长度的螺丝。适用于医疗，光学和其他应用。
Nema14 through-shaft linear actuator integrated ball screw & motc better accuracy. Screws of different lengths available.Suitable for and other applications.

Feature

- Through-shaft linear actuator 通轴线性执行器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.001mm/step with our controllers. 使用我们的控制器时为0.001mm/步

VERSIONS

系列代码 Series models	14HS34
相电流 Current per Winding A	1.0
静力矩 Holding Torque mN.m	160
相电阻 Resistance per Winding Ohm	2.3
相电感 Inductance per Winding mH	3
转子惯量 Rotor Inertia gcm ²	18
电机重量 Weight kg	0.18
电机高度 Length “L” mm	34
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

14HS34-Lxx-BG0601-E2000-C

Lxx =Through-shaft Screw length xx mm

Lxx =贯通轴式电机，丝杆长度xx毫米

BG0601 = Screw code Diameter 6mm Lead 1mm

BG0601 = 滚珠丝杆 直径6毫米 导程1毫米

E2000=Encoder (Optional E500-2000/BE17)

E2000=编码器（可选增量500-2000CPR/17位多圈绝对对）

C= (C-Customer Definition)

C= (C-客户定义)

注：编码器版本供货状态，请与我们确认

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0601	06	1	0.005
G0602	06	2	0.01
G0606	06	6	0.03

*提示：丝杆长度和轴端可按需生产，不可超行程工作
*The length and shaft end can be produced

可选配件 ACCESSORIES

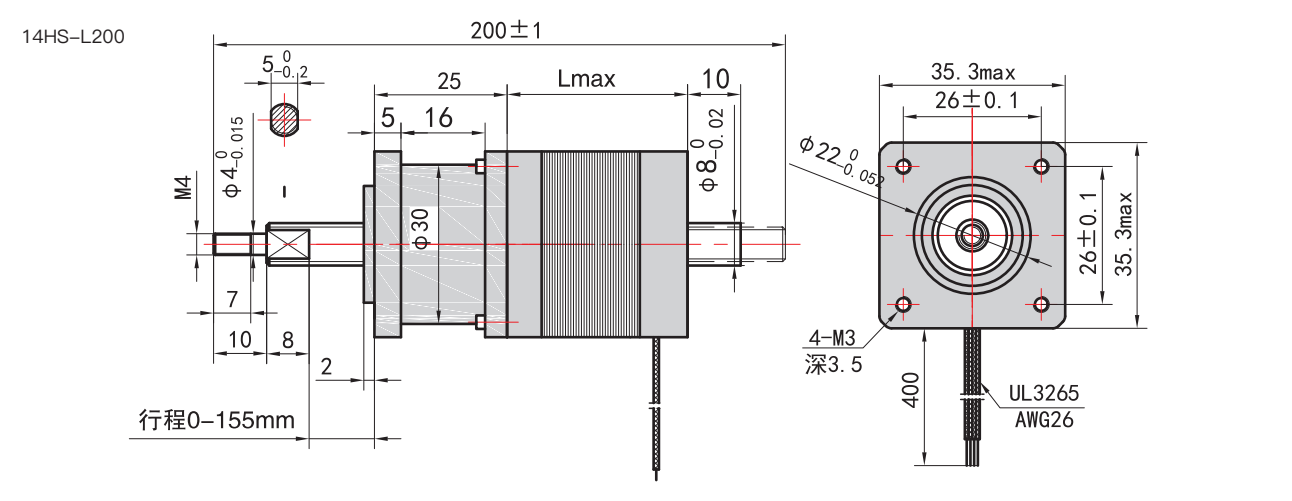
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器



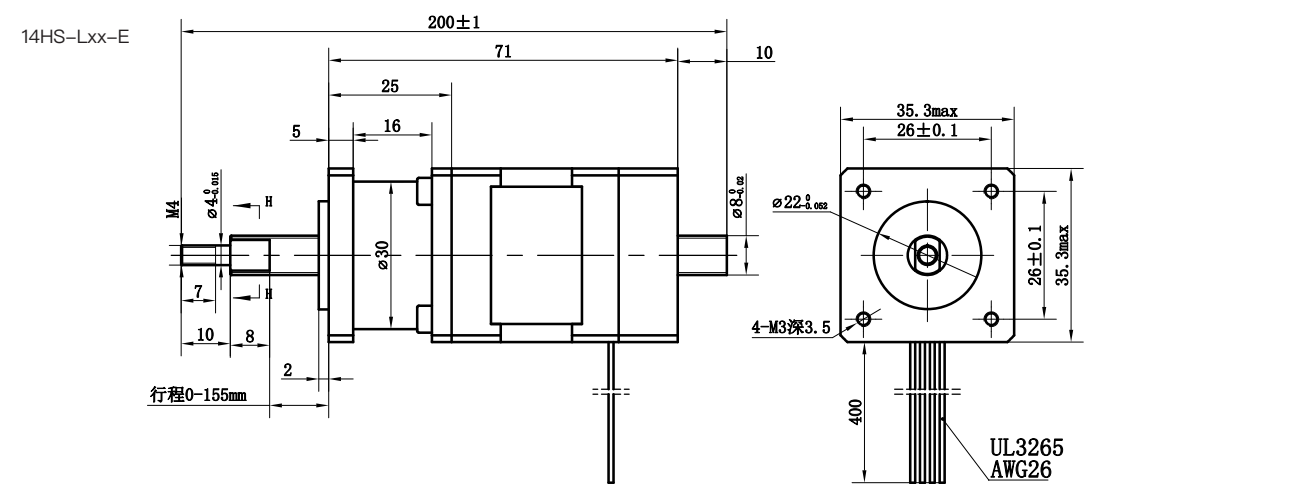
35mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 14

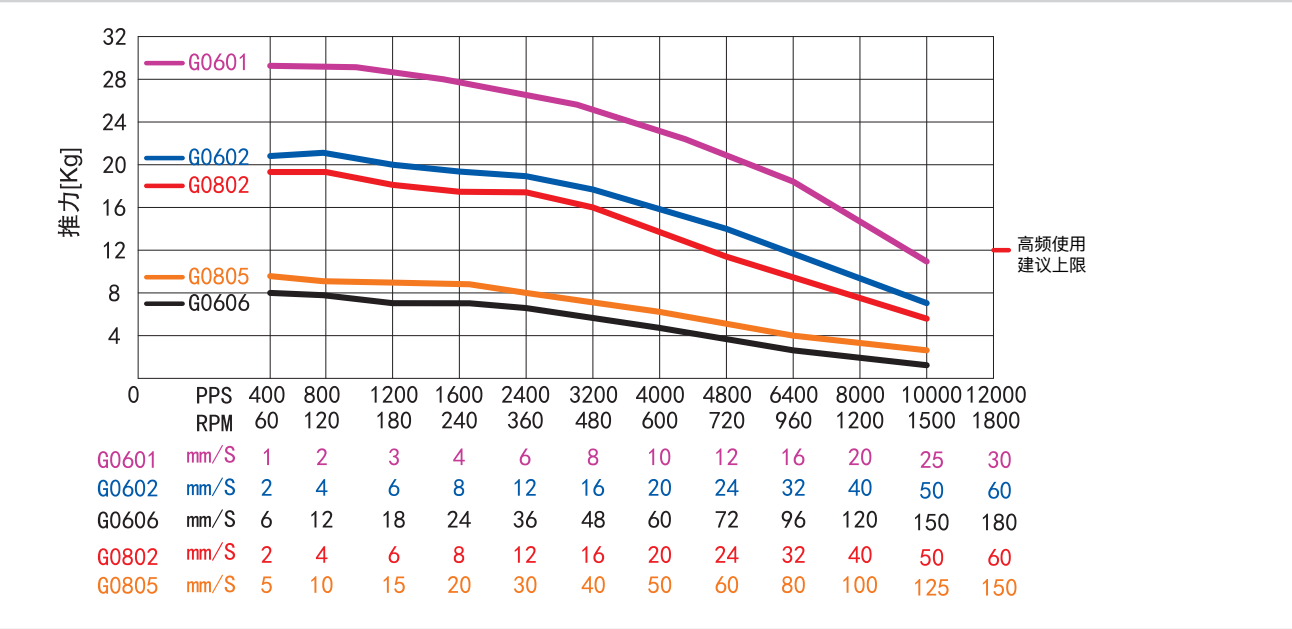
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



Force-Velocity Curve-14HS34



*Measured in the laboratory, safety margin must be greater than the above value 30% to 50%

42mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 17

Nema17一体式滚珠丝杠和电机，不带联轴器。 提供具有不同电机高度和的版本； 还提供用于位置反馈的内置编码器。

Nema17 integrated ball screw and motor without coupling. Versions motor heights and different screw lengths are available; built-in position feedback are also available.

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0005mm/step with our controller 使用控制器时, 0.0005mm /步

VERSIONS

系列代码 Series models	17HS34	17HS48
相电流 Current per Winding A	1.5	1.5
静力矩 Holding Torque mN.m	260	430
相电阻 Resistance per Winding Ohm	1.56	2.0
相电感 Inductance per Winding mH	2.4	3.85
转子惯量 Rotor Inertia gcm ²	38	82
电机重量 Weight kg	0.12	0.18
电机高度 Length “L” mm	34	48
螺杆长度 Screw length*L1	Different lengths available不同螺杆长度可选	
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

17HS34-Lxx-BG0802-E2000-C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通轴式电机，丝杆长度xx毫米

BG0802 = Screw code Diameter 8mm Lead 2mm
BG0802 = 滚珠丝杆 直径8毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈绝对）

C= (C-Customer Definition)
C= (C-客户定义)

注：BE17版本尚未模具，仅支持大批量订货

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G0802	08	2	0.01
G0805	08	5	0.025

*提示：丝杆长度和轴端可按需生产，不可超行程工作
*The length and shaft end can be produced

可选配件 ACCESSORIES

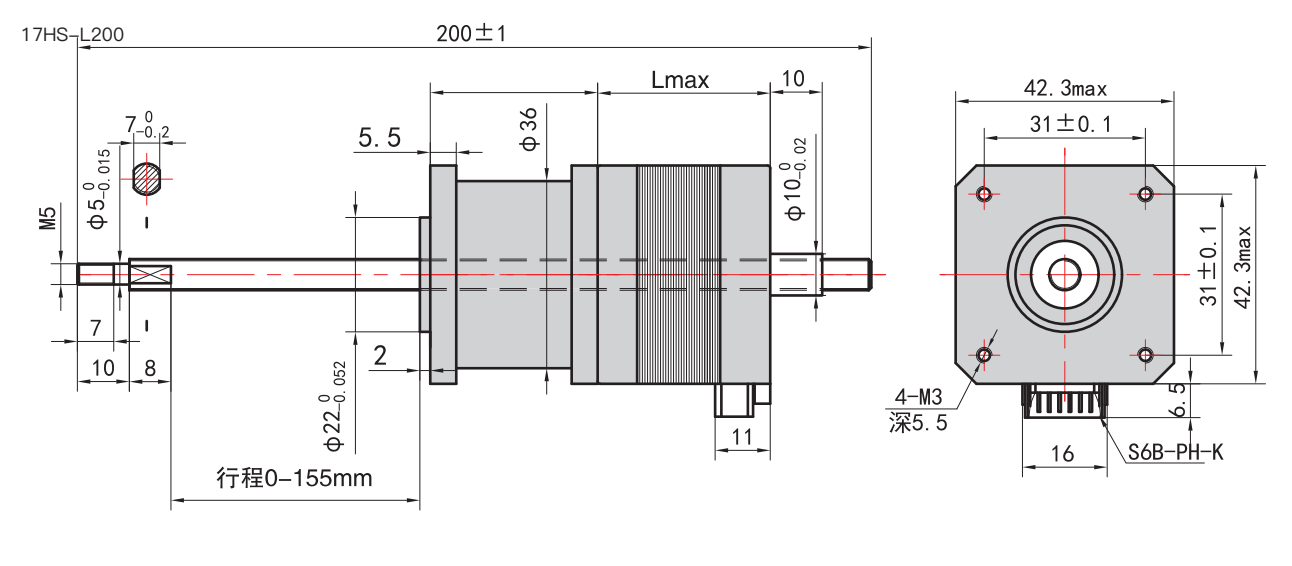
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动器 控制器



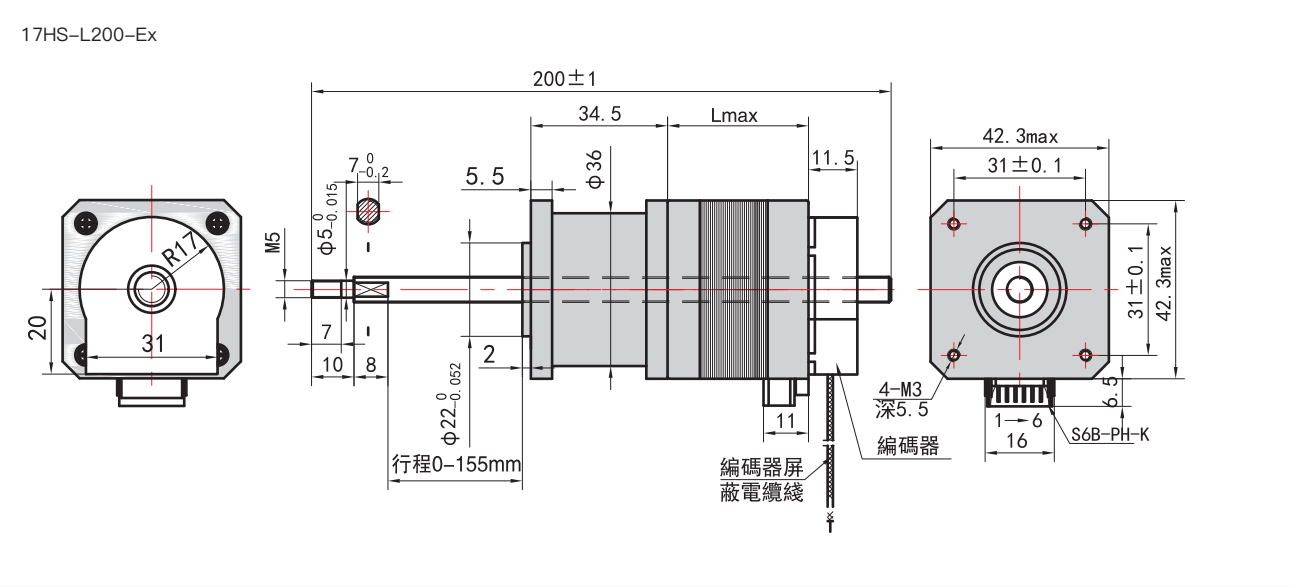
42mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 17

DIMENSIONS (IN MM)



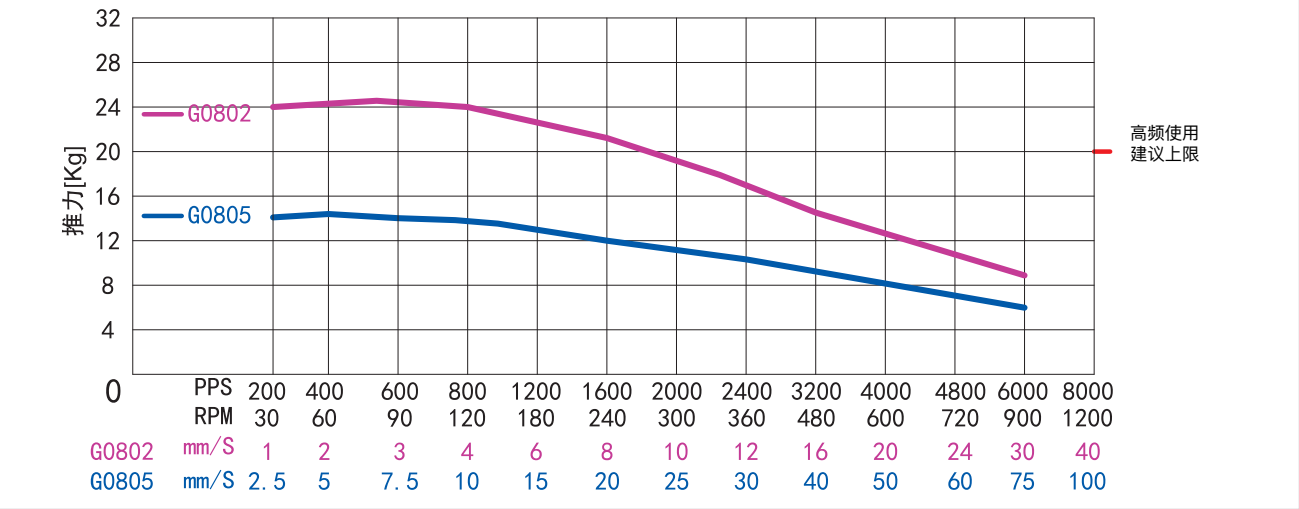
DIMENSIONS (IN MM)



42mm法兰贯通轴式滚珠直线步进电机

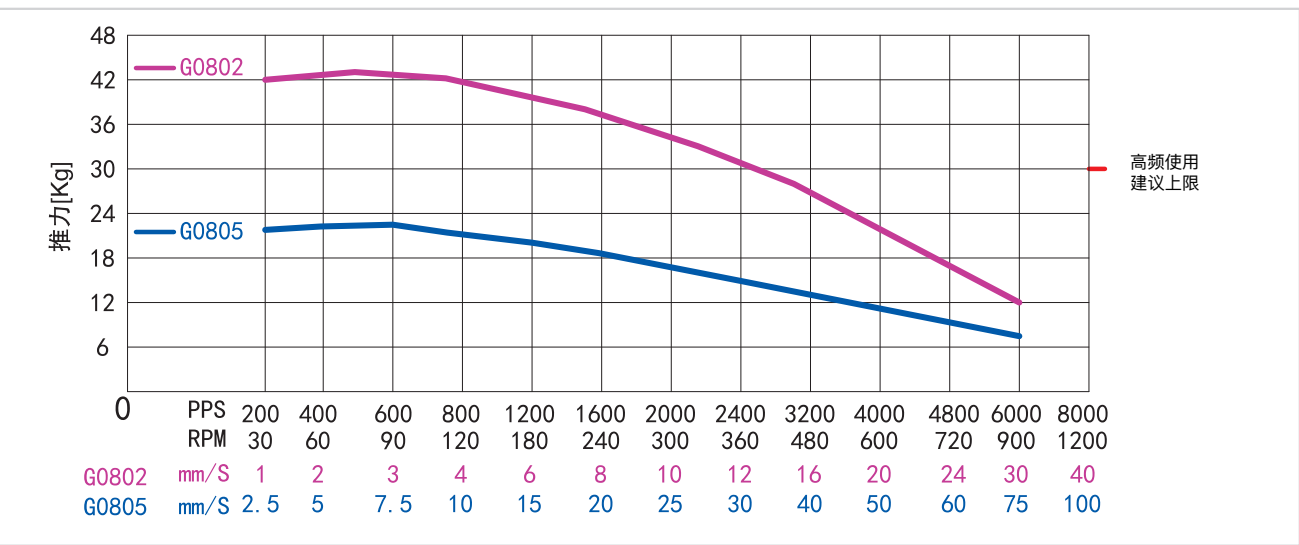
Through-shaft Linear Actuator With Ball Screw – NEMA 17

Force-Velocity Curve-17HS34



*Measured in the laboratory, safety margin must be greater than the above value 30% to 50%

Force-Velocity Curve-17HS48



*Measured in the laboratory, safety margin must be greater than the above value 30% to 50%

57mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 23

NEMA 23 (56mm) 一体式滚珠丝杠和电机，不带联轴器，还提供用于位高精度编码器。精密线性轴的理想选择

NEMA 23 (56 mm) integrated ball screw and motor without coupling. A precision encoder for position feedback is also available. Ideal for pr axes



© Feature

- Integrated ball screw & motor 集成滚珠丝杠和电机
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0025mm/step with our controller 使用我们的控制器为0.0025mm / 步

© VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电流 Current per Winding A	2.0	3.0	4.0
静力矩 Holding Torque mN.m	0.7	1.3	1.6
相电阻 Resistance per Winding Ohm	1.63	1.1	0.5
相电感 Inductance per Winding mH	4.2	3.2	1.7
转子惯量 Rotor Inertia gcm ²	155	280	460
电机重量 Weight kg	0.5	0.62	1
电机高度 Length “L” mm	45	56	76
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选		
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）		

* 衍生品可以与我們溝通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

可选螺杆 Screw optional

可选配件 ACCESSORIES

23HS45-Lxx-BG1202-E2000-C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通轴式电机，丝杆长度xx毫米

BG1202 =Screw code Diameter 12mm Lead 2mm
BG1202 = 滚珠丝杆 直径12毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器 (可选增量500~2000CPR/17位多圈绝对)

C= (C-Customer Definition)
C= (C-客户定义)

注：BG17版本尚未模具，仅支持大批量订货

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G1202	12	2	0.01
G1204	12	4	0.02
G1205	12	5	0.025

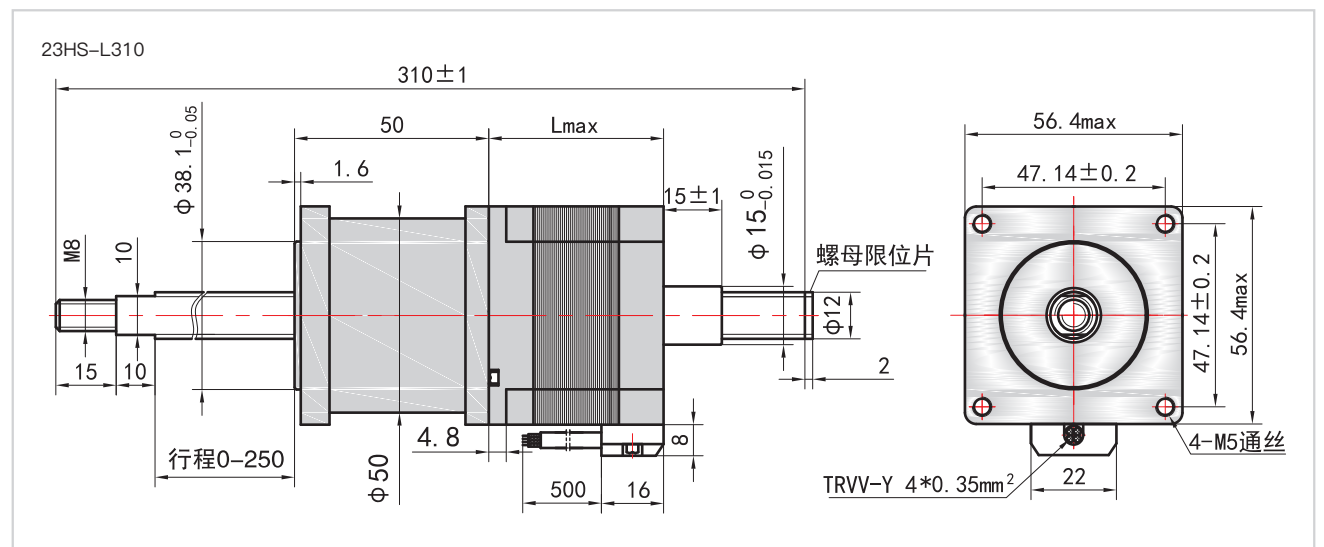
*提示：丝杆长度和轴端可按需生产，不可超行程工作
 *The length and shaft end can be produced

- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器

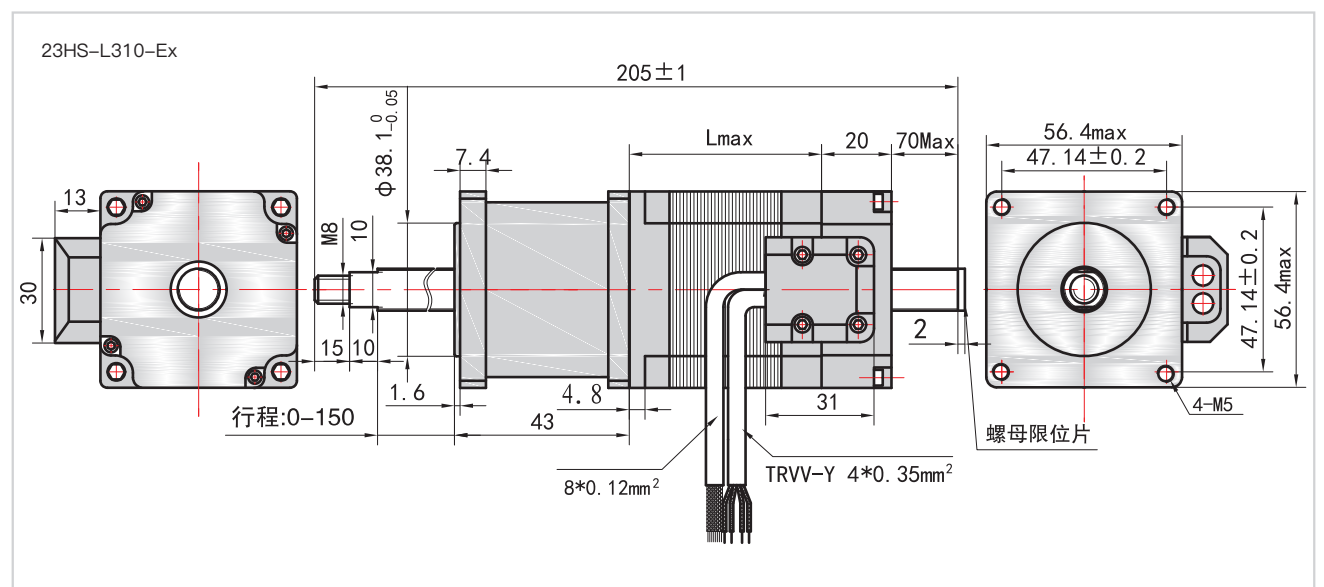
57mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 23

DIMENSIONS (IN MM)



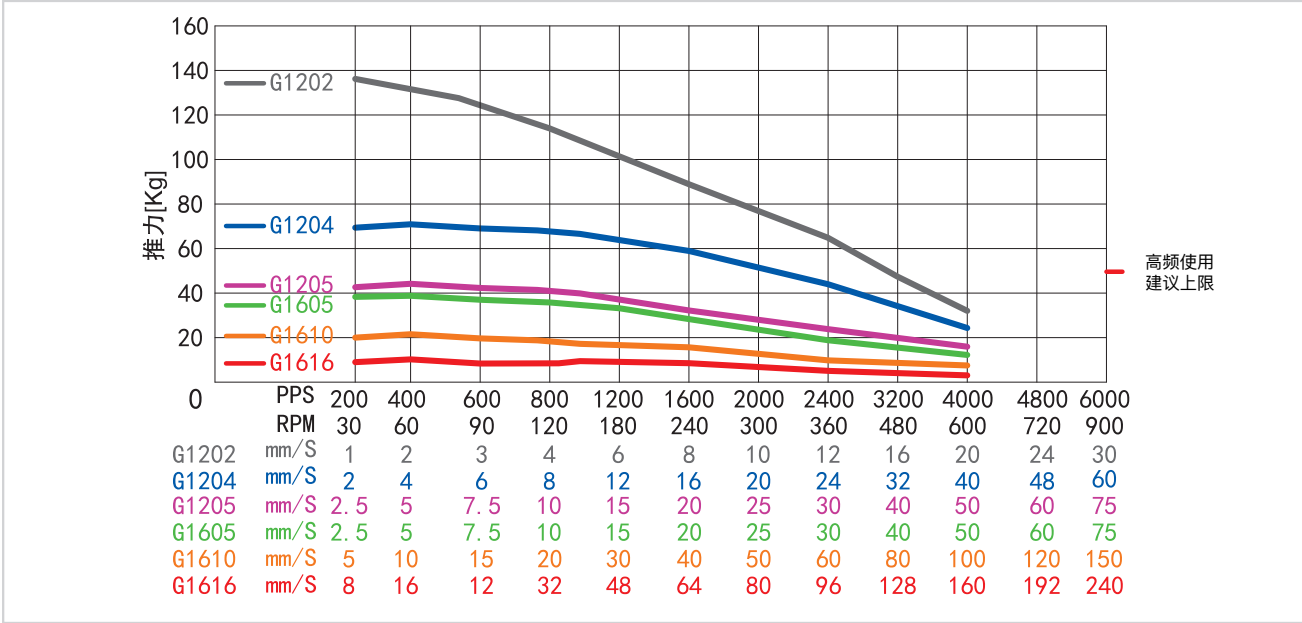
DIMENSIONS (IN MM)



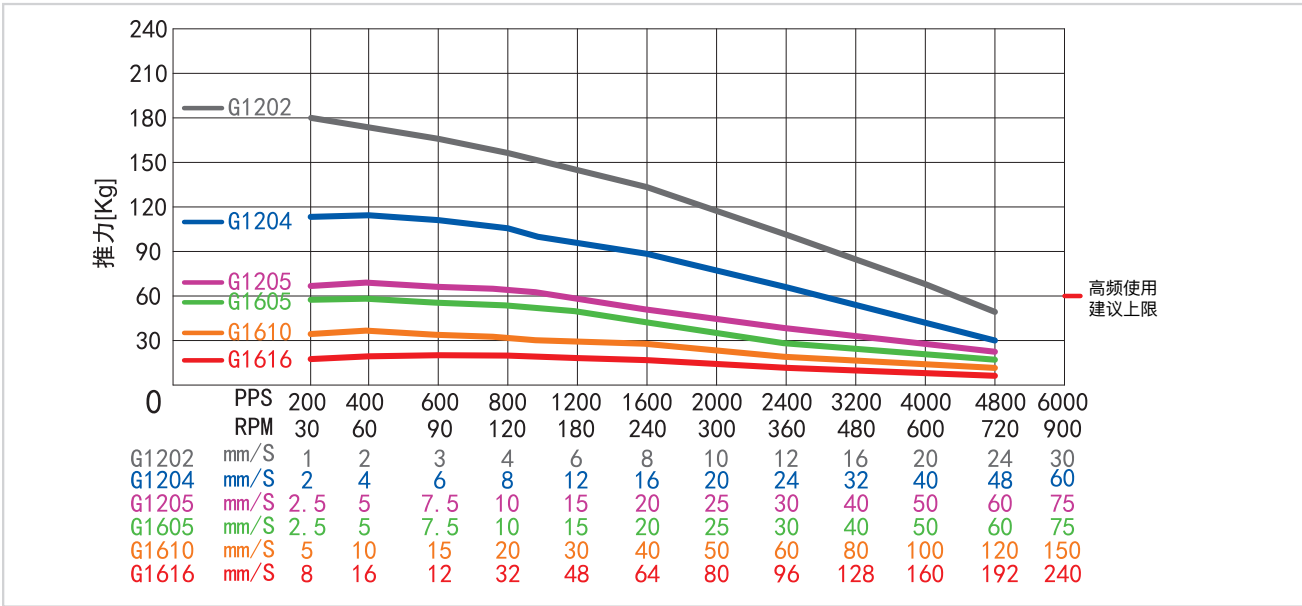
57mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 23

Force-Velocity Curve-23HS45



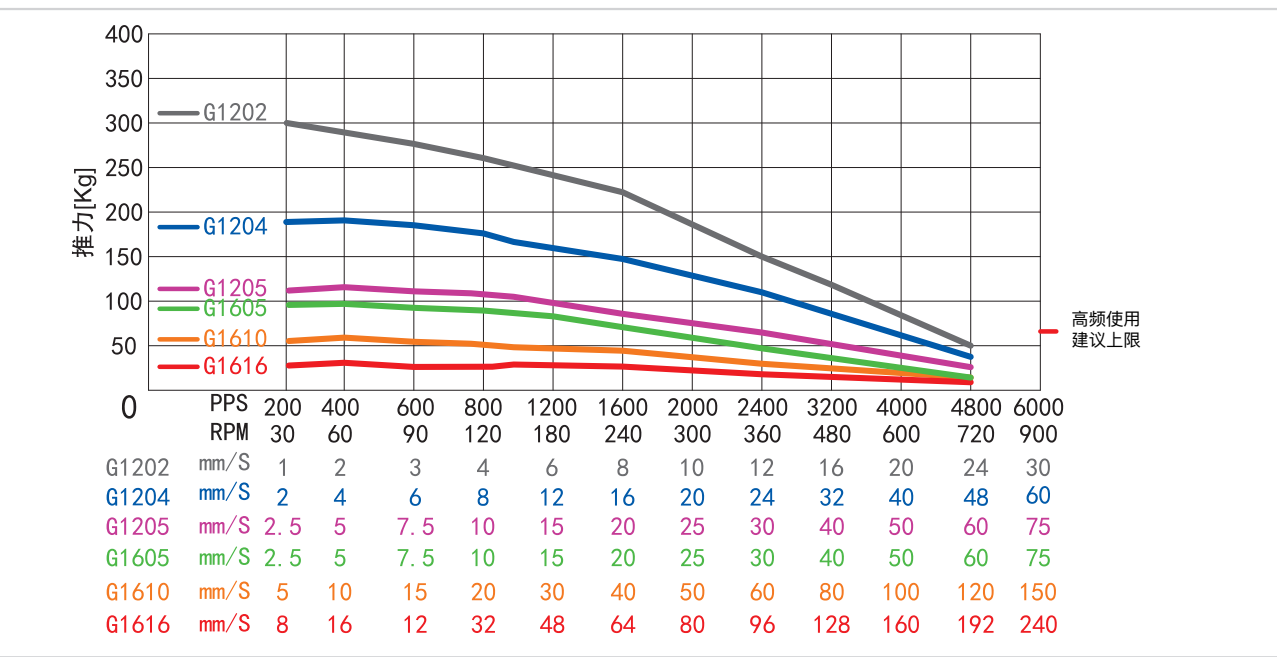
Force-Velocity Curve-23HS56



57mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 23

Force-Velocity Curve-23HS76



86mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 34

高扭矩nema34混合式步进电机+滚珠丝杠。 直接连接无需耦合。 提供本。精密线性轴的理想选择

High torque nema34 hybrid stepper motor + ball screw. No coupling i: direct connection. Built-in encoder version available. Ideal for precision

Feature

- Integrated ball screw & Nema34 motor 集成滚珠丝杠和Nema34电
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0025mm/step with our controller 使用我们的控制器为0.0025m

VERSIONS

系列代码 Series models	34HS76	34HS98
相电流 Current per Winding A	4.0	6.0
静力矩 Holding Torque mN.m	3.5	7
相电阻 Resistance per Winding Ohm	0.5	0.4
相电感 Inductance per Winding mH	3.7	3.8
转子惯量 Rotor Inertia gcm²	1400	1700
电机重量 Weight kg	1.4	2.7
电机高度 Length “L” mm	76	98
螺杆长度 Screw length*L1	Different lengths available不同丝杆长度可选	
反馈装置 Feedback	Encoder(Closed-loop version)编码器（闭环伺服版本可选）	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

34HS76-Lxx-BG1605-E2000-C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通轴式电机，丝杆长度xx毫米

BG1605=Screw code Diameter 16mm Lead 5mm
BG1605 = 滚珠丝杆 直径16毫米 导程5毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈绝对）

C= (C-Customer Definition)
C= (C-客户定义)

注：BE17版本尚未模具，仅支持大批量订货

可选螺杆 Screw optional

Screw 丝杆代码	Diameter(MM) 直径	Lead(MM) 导程	Step(MM) 步长
G1605	16	5	0.025
G1610	16	10	0.05

*提示：丝杆长度和轴端可按需生产，不可超行程工作
*The length and shaft end can be produced

可选配件 ACCESSORIES

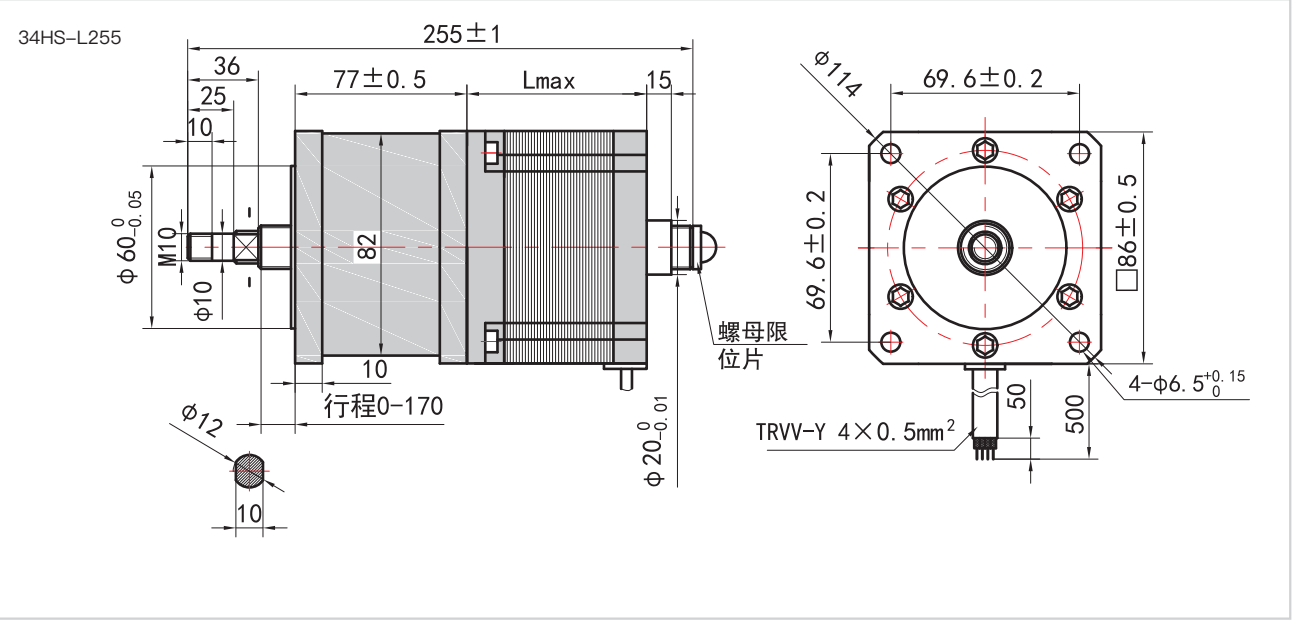
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器
- Motor Controllers / Drives 电机驱动控制器



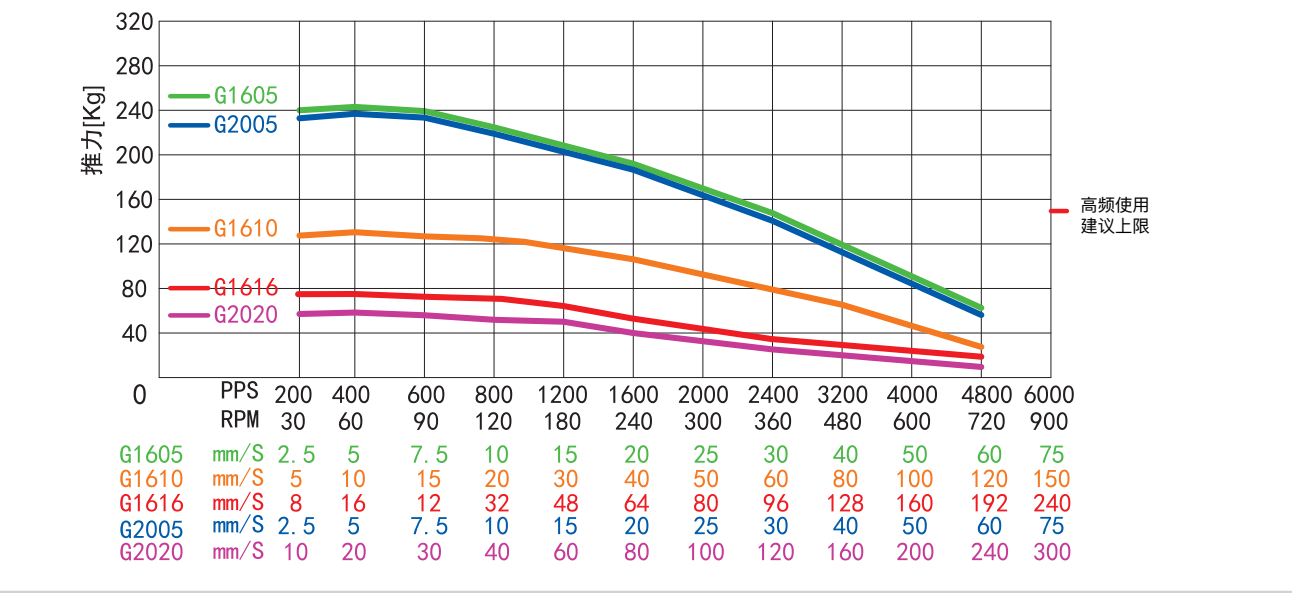
86mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 34

DIMENSIONS (IN MM)



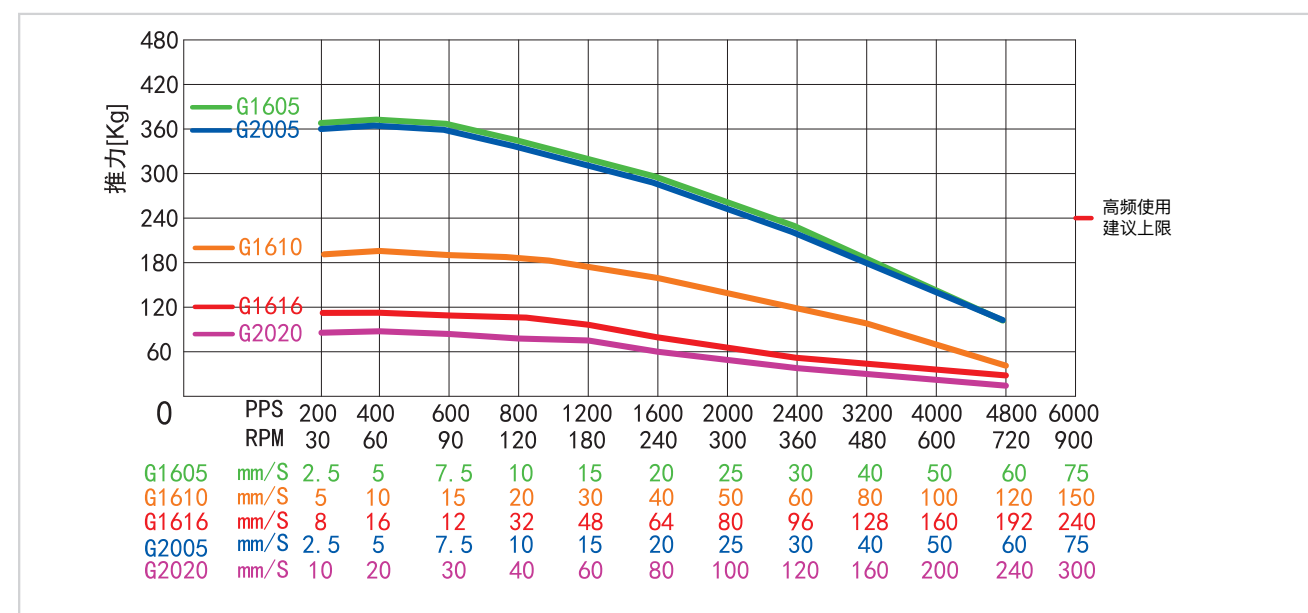
Force-Velocity Curve-34HS76



86mm法兰贯通轴式滚珠直线步进电机

Through-shaft Linear Actuator With Ball Screw – NEMA 34

Force-Velocity Curve-34HS98



复合执行器ZR42

Rotary + linear structure module

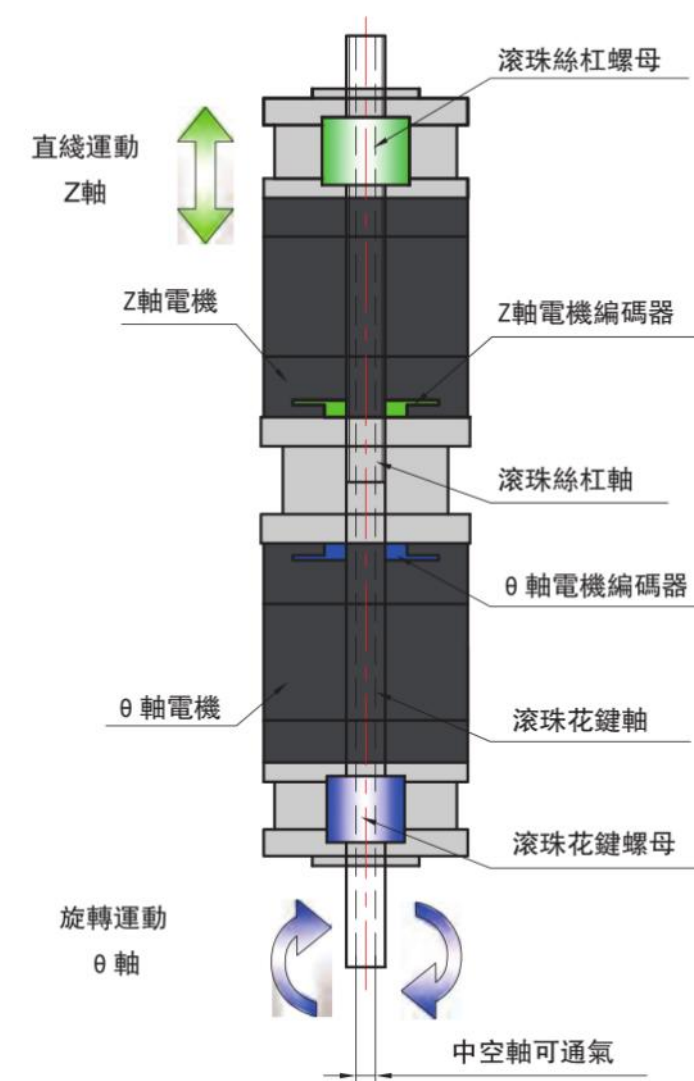
复合功能执行器由滚珠丝杆的Z轴步进电机及装有滚珠花键的旋转轴步进电机组合而成。Z轴步进电机和旋转轴步进电机内部分别配有一个光电编码器,使整个步进电机系统形成一个闭环结构,可随时反馈给控制器电机的运行状态,使得整个系统更为可靠。

The composite function actuator is composed of a Z-axis stepper motor with a ball screw and a rotary shaft stepper motor equipped with a ball spline. The z-axis stepper motor and rotary axis stepper motor are equipped with a photoelectric encoder respectively, which makes the whole stepping motor system form a closed-loop structure, which can feed back the running state of the controller motor at any time, making the whole system more reliable.

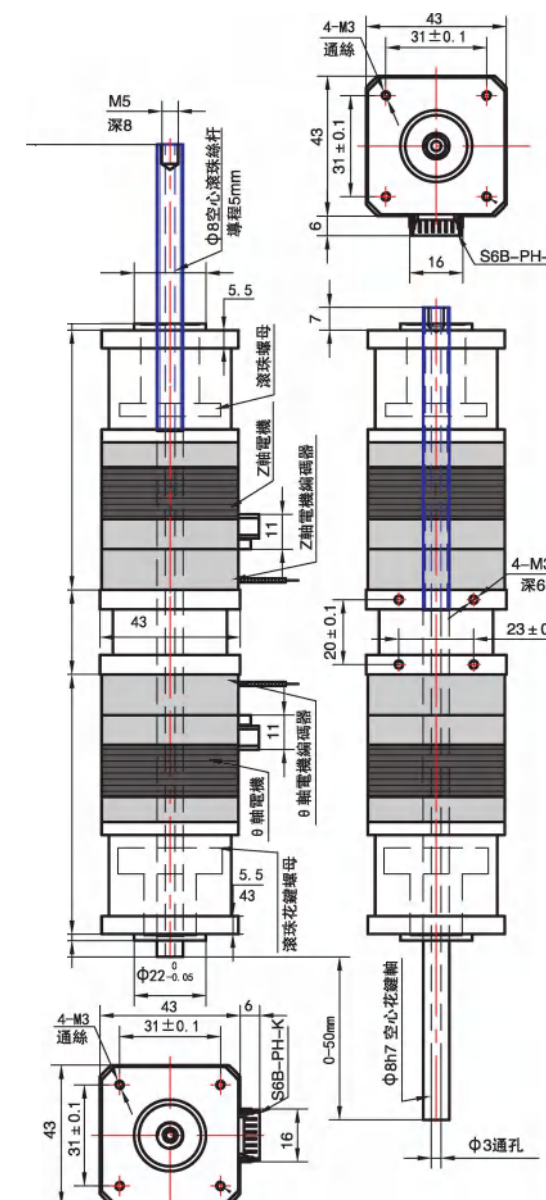
© Feature

- Linear movement 直线运行: 滚珠丝杆轴沿Z轴方向可做直线运行
- Rotate 旋转: 滚珠花键轴可做旋转运行
- Pneumatic connection 吸附或出气: 利用滚珠丝杆轴的中空孔提供正压和负压 (需提供气源)
- Controllers / Drives available 控制器/驱动器可用

* 具体信息请联络我们



* 衍生品可以与我們溝通 Derivatives can communicate with us



复合执行器ZR28

Rotary + linear structure module

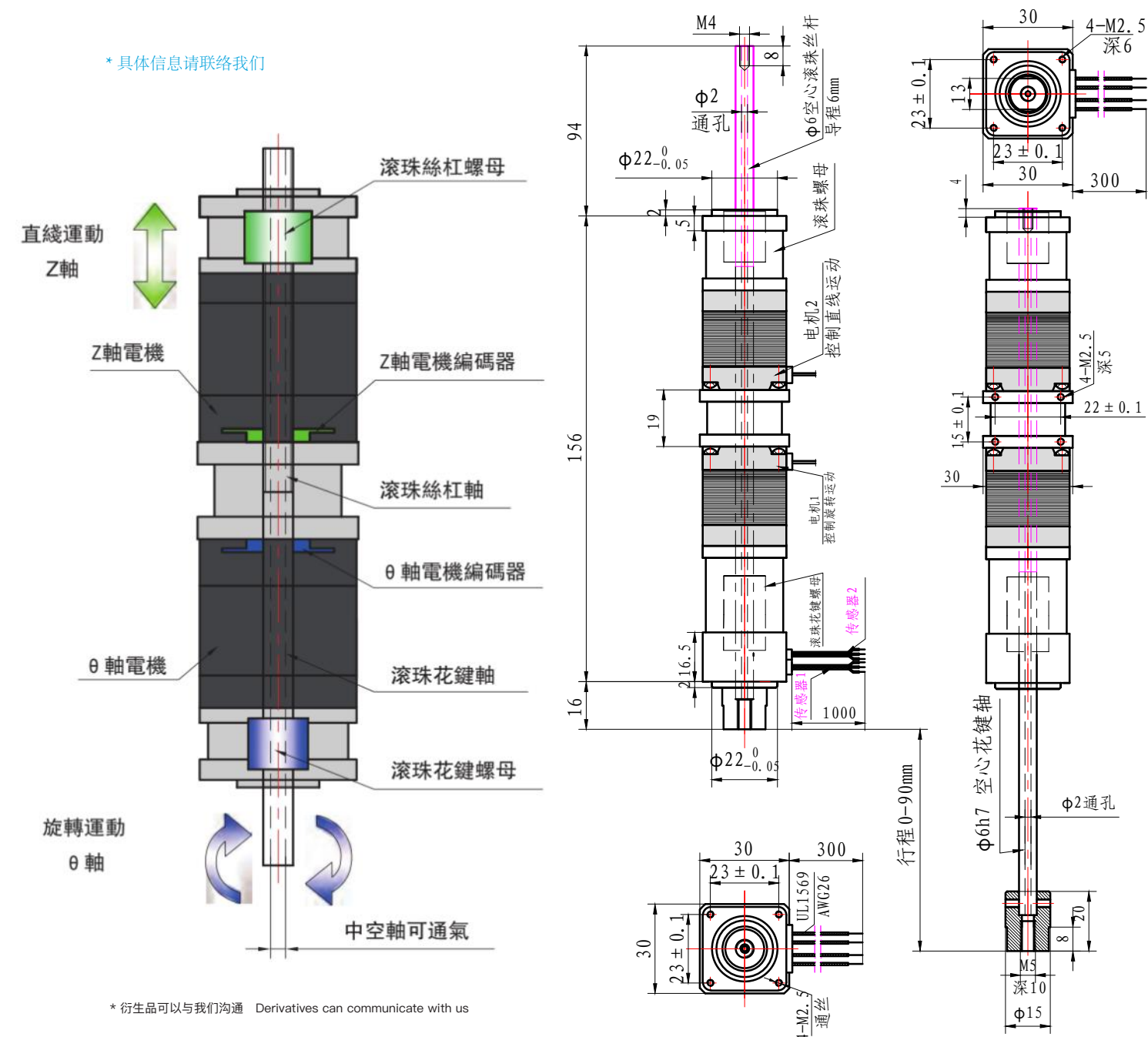
复合功能执行器由由滚珠丝杆的Z轴步进电机及装有滚珠花键的旋转轴步进电机组合成。Z轴步进电机和旋转轴步进电机内部分别配有一个光电编码器,使整个步进电机系统形成一个闭环结构,可随时反馈给控制器电机的运行状态,使得整个系统更为可靠。

The composite function actuator is composed of a Z-axis stepper motor with a ball screw and a rotary shaft stepper motor equipped with a ball spline. The z-axis stepper motor and rotary axis stepper motor are equipped with a photoelectric encoder respectively, which makes the whole stepping motor system form a closed-loop structure, which can feed back the running state of the controller motor at any time, making the whole system more reliable.

© Feature

- Linear movement 直线运行：滚珠丝杆轴沿Z轴方向可做直线运行
- Rotate 旋转：滚珠花键轴可做旋转运行
- Pneumatic connection 吸附或出气：利用滚珠丝杆轴的中空孔提供正压和负压（需提供气源）
- Controllers / Drives available 控制器/驱动器可用

* 具体信息请联络我们

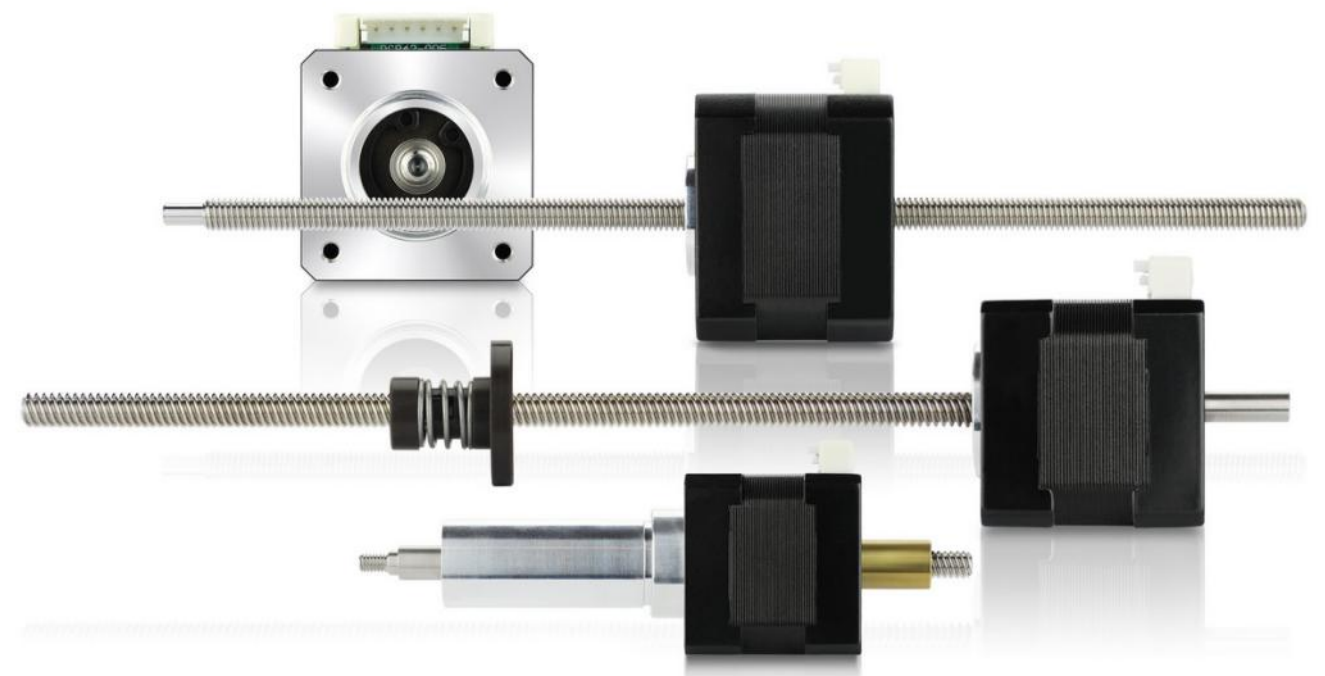


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LINEAR ACTUATOR

线性执行器 · 梯形螺杆

Product Manual · 产品手册



20mm法兰外部驱动式T型直线步进电机

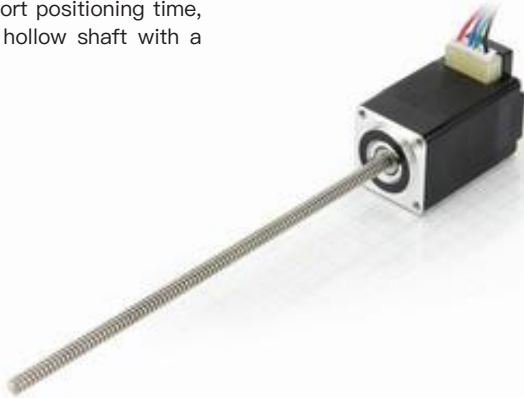
External Linear Actuator With T Screw – NEMA 8

灵活的紧凑型直线步进电机，尺寸为 NEMA 8 (20 mm)，定位时间短、推力和拉力大。带有梯形螺纹。提供多种长度和不同的绕组。

Flexible and compact linear stepper motor, size NEMA 8 (20 mm), short positioning time, high thrust and pull. The threaded nut is injection molded into the hollow shaft with a trapezoidal thread. Provide multiple lengths and different windings.

Feature

- External Linear linear actuator 外驱式线性执行器
- 20mm small size 20系列法兰
- Encoder optional 可配套编码器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	8HY30	8HY40
相电流 Current per Winding A	0.6	0.6
静力矩 Holding Torque mN.m	18	32
相电阻 Resistance per Winding Ohm±10%	6.5	6
相电感 Inductance per Winding mH±20%	2.2	2
转子惯量 Rotor Inertia gcm²	2	3
电机重量 Weight kg	0.06	0.1
电机高度 Length “L” mm	30	40
螺杆长度 Screw length*L1	不同螺杆长度Different lengths available	
反馈装置 Feedback	伺服（闭环）版本Encoder(Closed-loop version)	

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

8HY30-LExx-T3.5-1-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

T3.5-0.61 = Screw Diameter 3.5mm Lead 0.61mm
T3.5-0.61 = 丝杆 直径3.5毫米 导程0.61毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T3.5-0.61	3.5	0.61	0.003048
T3.5-1	3.5	1	0.005
T3.5-1.22	3.5	1.22	0.006096
T3.5-2.44	3.5	2.44	0.012192
T3.5-4	3.5	4	0.02
T5-8	5	8	0.04

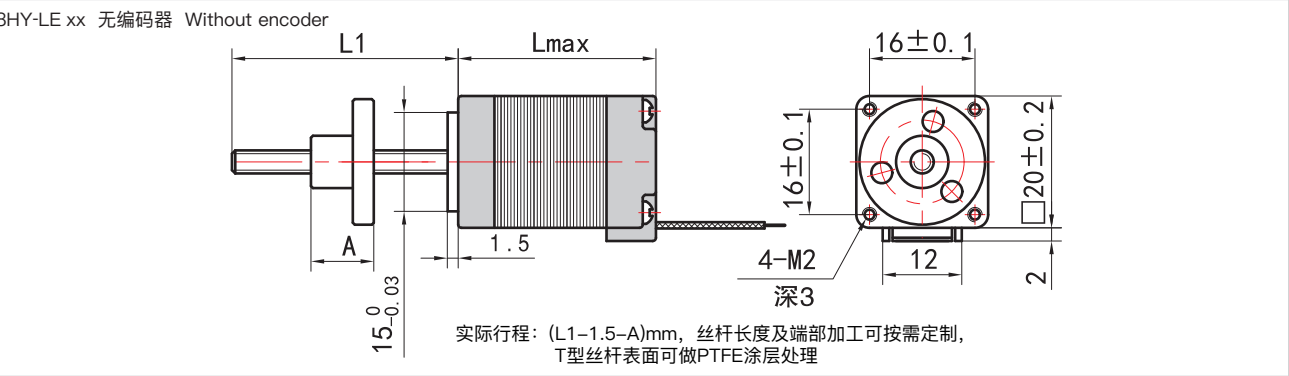
可选配件 ACCESSORIES

- HX12500-6Y Motor Cable 0.4m
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器（增量/绝对值）
- Motor Controllers / Drives 电机驱动控制器

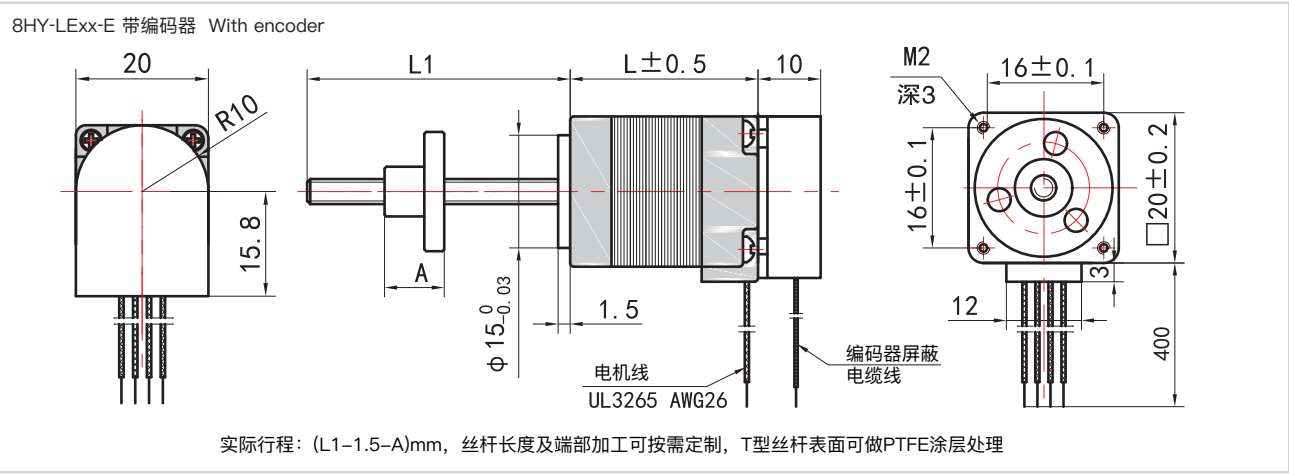
20mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T Screw – NEMA 8

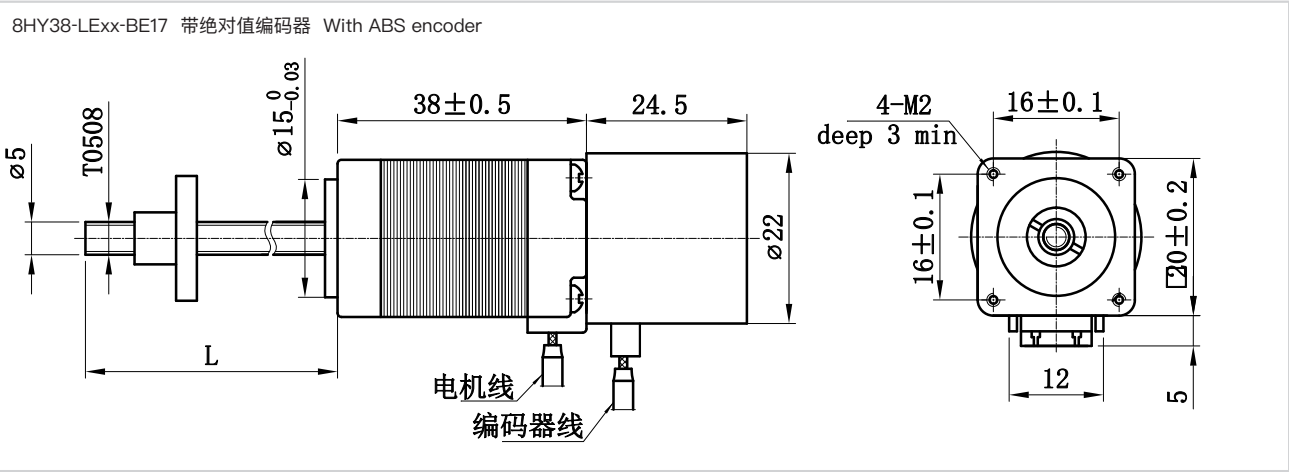
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



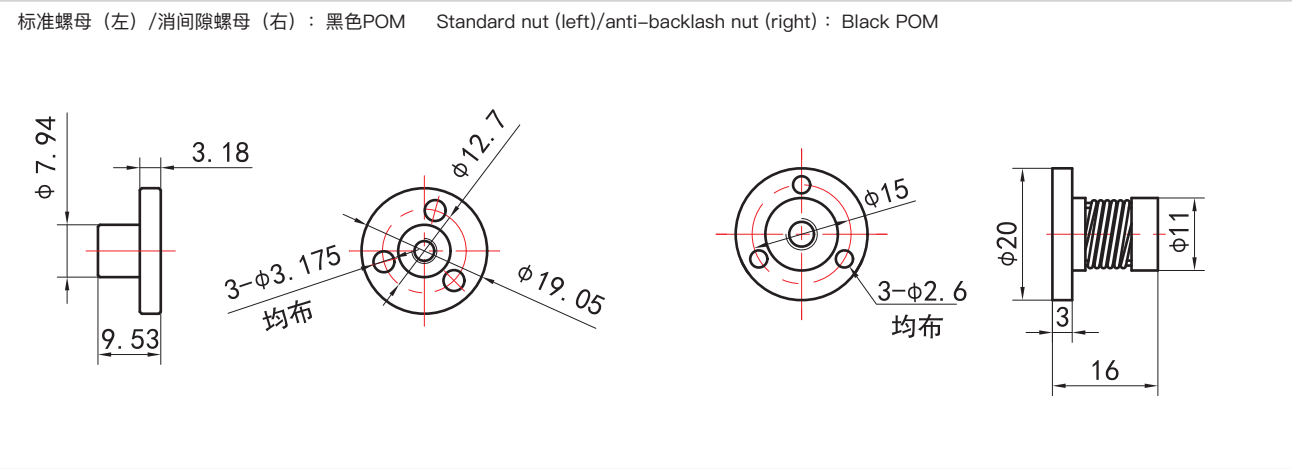
DIMENSIONS (IN MM)



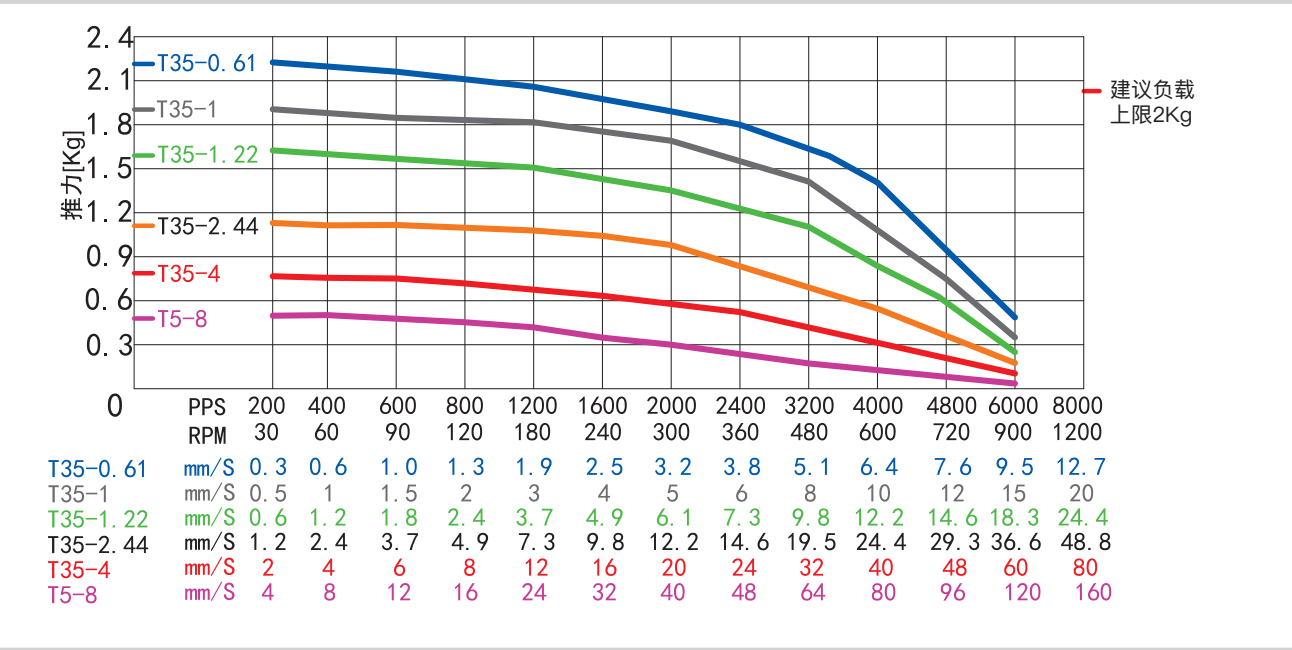
20mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T Screw – NEMA 8

DIMENSIONS (IN MM)



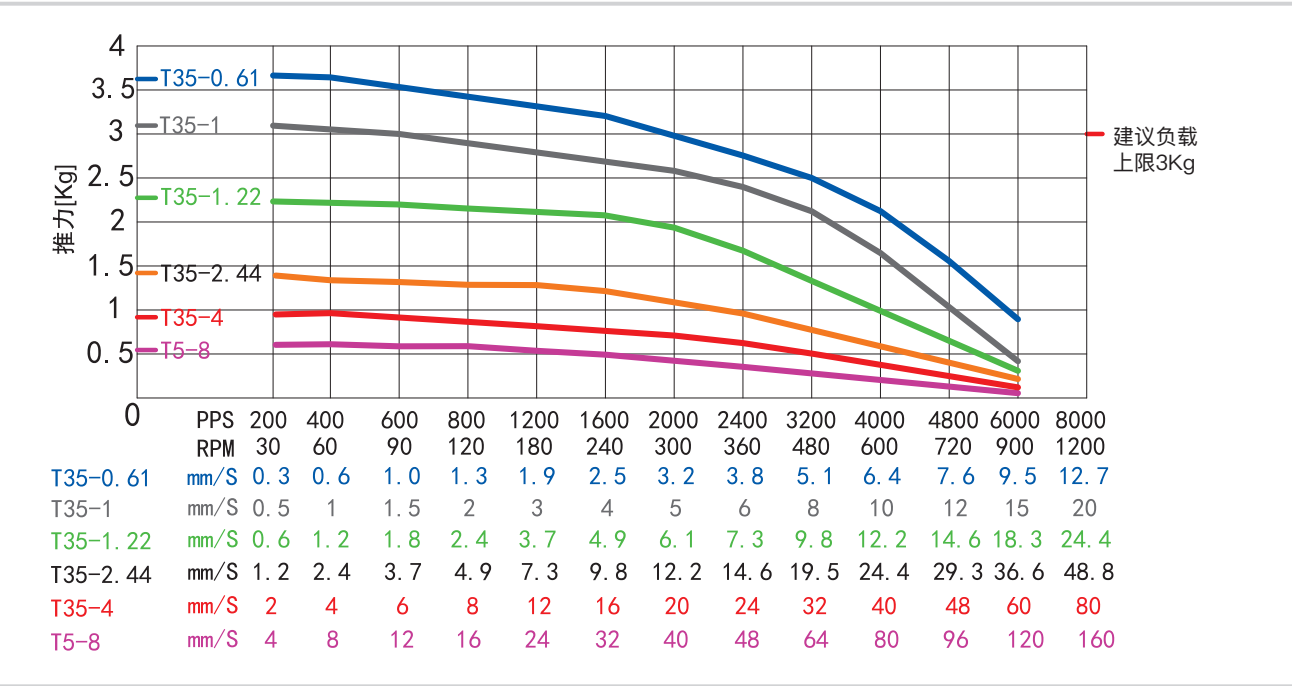
Force-Velocity Curve-8HY30



20mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T Screw – NEMA 8

Force-Velocity Curve-8HY38



*The closed-loop version will have 10%~20% higher performance
*Use other brands of drives, safety margin must be greater than the above value 30% to 50%

20mm法兰贯通式T型直线步进电机

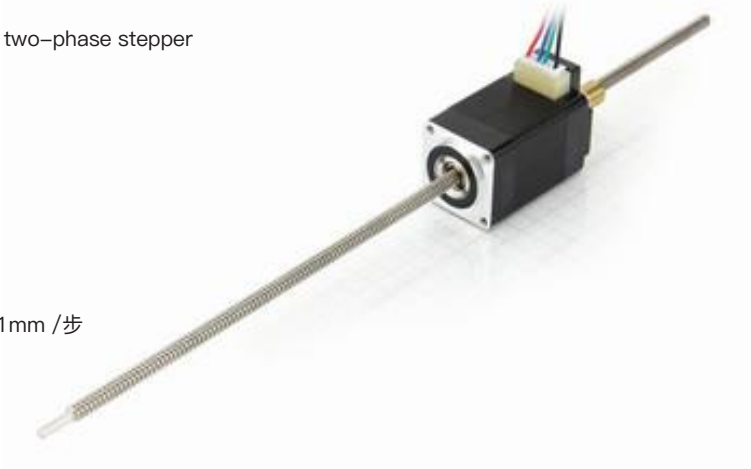
Through-shaft Linear Actuator With T Screw – NEMA 8

NEMA8贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用

Nema8 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide

Feature

- Through-shaft linear actuator 贯通轴线性执行器
- Suitable for compact applications 适合空间紧凑的场合
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.001mm/step with our controller 与我们的控制器一起0.001mm /步



VERSIONS

系列代码 Series models	8HY30
相电流 Current per Winding A	0.6
静力矩 Holding Torque mN.m	18
相电阻 Resistance per Winding Ohm±10%	6.5
相电感 Inductance per Winding mH±20%	2.2
转子惯量 Rotor Inertia gcm²	2
电机重量 Weight kg	0.06
电机高度 Length “L” mm	30
螺杆长度 Screw length*L1	不同螺杆长度Different lengths available
反馈装置 Feedback	伺服（闭环）版本Encoder(Closed-loop version)

* 衍生品可以与我们沟通 Derivatives can communicate with us

订货代号 ORDER IDENTIFIER

8HY30-Lxx-T3.5-1-E2000-B/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T3.5-0.61 = Screw Diameter 3.5mm Lead 0.61mm
T3.5-0.61 = 丝杆 直径3.5毫米 导程0.61毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈）

B/C= (B-Brake C-Customer Definition)
B/C= (B-刹车 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T3.5-0.61	3.5	0.61	0.003048
T3.5-1	3.5	1	0.005
T3.5-1.22	3.5	1.22	0.006096
T3.5-2.44	3.5	2.44	0.012192
T3.5-4	3.5	4	0.02

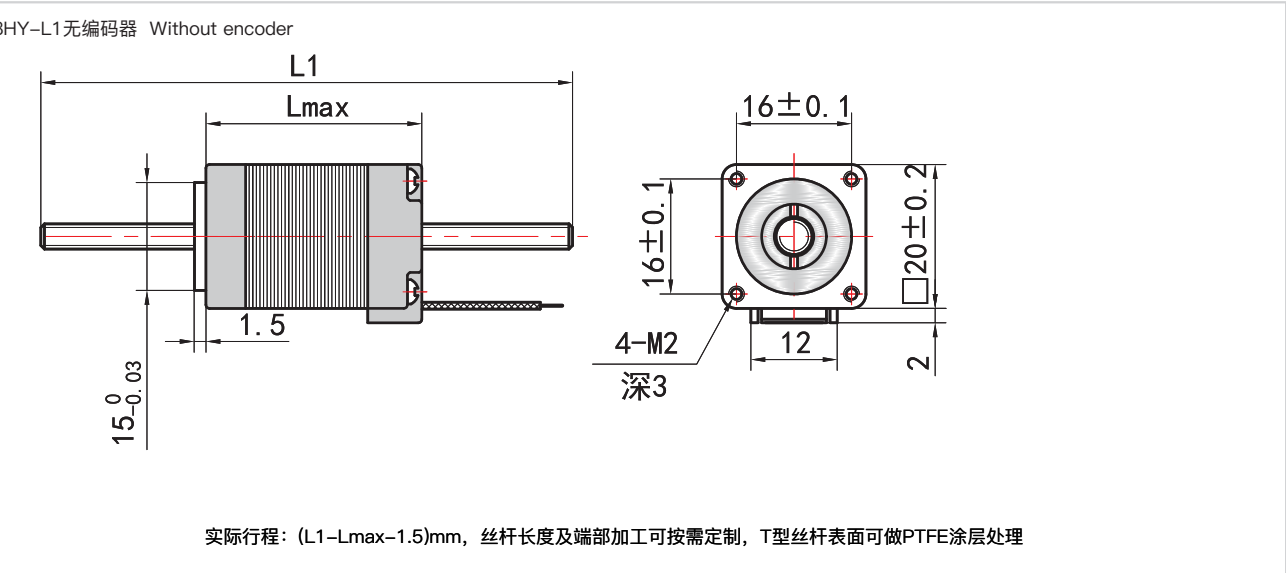
可选配件 ACCESSORIES

- HX12500-6Y Motor Cable 0.4m
- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器（增量/绝对值）
- Motor Controllers / Drives 电机驱动控制器

20mm法兰贯通式T型直线步进电机

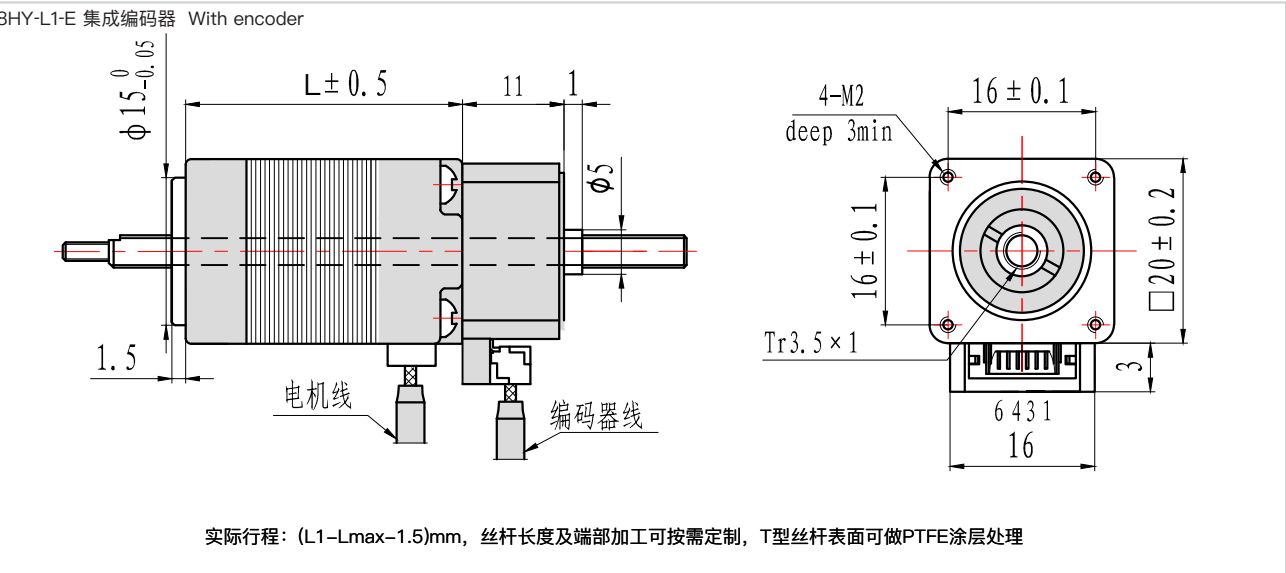
Through-shaft Linear Actuator With T Screw – NEMA 8

DIMENSIONS (IN MM)



* 衍生品可以与我们沟通 Derivatives can communicate with us

DIMENSIONS (IN MM)



* 衍生品可以与我们沟通 Derivatives can communicate with us

20mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw – NEMA 8

灵活的紧凑型直线步进电机，尺寸为 NEMA 8 (20 mm)，定位时间小。固定轴式，直线输出，无需额外结构设计。

Flexible compact linear stepper motor, size NEMA 8 (20 mm), sl time, high thrust and pull. Fixed shaft type, linear output, no ad structural design is required.

© Feature

- Fixed shaft type linear actuator 固定轴式线性执行器
- 20mm small size 20系列紧凑法兰
- Encoder optional(Unlisted) 可配套编码器 (批量可选)
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同行程
- Motor Controllers / Drives available 电机控制器和驱动器可用



© VERSIONS

系列代码 Series models	8HY30
相电流 Current per Winding A	0.6
静力矩 Holding Torque mN.m	18
相电阻 Resistance per Winding Ohm±10%	6.5
相电感 Inductance per Winding mH±20%	2.2
转子惯量 Rotor Inertia gcm²	2
电机重量 Weight kg	0.06
电机高度 Length “L” mm	30
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)

订货代号 ORDER IDENTIFIER

8HY30-LFxx-T3.5-1-E2000-P/B/X/C

LFxx =Fixed shaft type Stroke length xx mm

LFxx = 固定轴式电机，行程xx毫米

T3.5-0.61 = Screw Diameter 3.5mm Lead 0.61mm

T3.5-0.61 = 丝杆 直径3.5毫米 导程0.61毫米

E2000=Encoder (Optional E500~2000/)

E2000=编码器 (可选增量500~2000CPR/)

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)

P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选项目 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T3.5-0.61	3.5	0.61	0.0030548
T3.5-1	3.5	1	0.005
T3.5-1.22	3.5	1.22	0.006096
T3.5-2.44	3.5	2.44	0.012192
T3.5-4	3.5	4	0.02
		8	

Stroke 行程	A(mm) 图示A(mm)
9	11.1
12.7	14.8
19.05	21.15
25.4	27.5
31.8	34.1
38.1	40.2

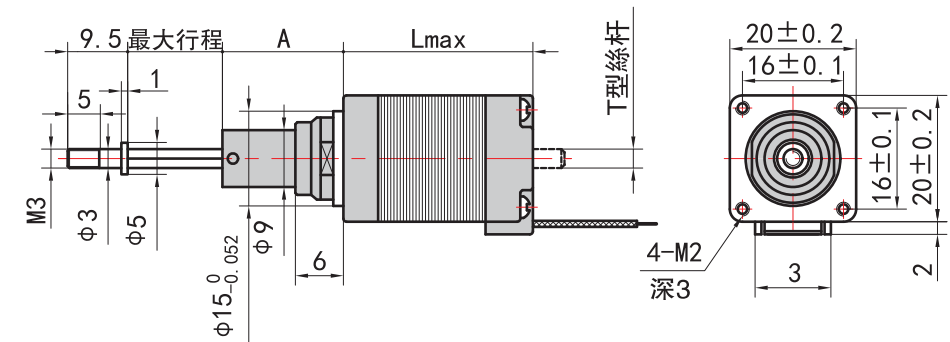
可选配件 ACCESSORIES

- HX12500-6Y Motor Cable 0.4m
- ZK-ENC-500 Encoder Cable 0.5m
- **Encoder** 高精度编码器 (增量)
- **Motor Controllers / Drives** 电机驱动控制器

20mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw – NEMA 8

DIMENSIONS (IN MM)



T型丝杆表面可做PTFE涂层处理

28mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 11

Nema11集成梯形丝杠电机，不带联轴器，电机与丝杠直接连接。 提供两种电机高度版本。 还提供用于位置反馈的内置编码器。

Nema11 integrated T screw motor, without coupling, the motor and screw are directly connected. Two motor height versions available. Screws of different lengths available.A built-in encoder for position feedback is also available.

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时, 0.0002mm /步

VERSIONS

系列代码 Series models	11HY34	11HY45
相电流 Current per Winding A	0.75	0.75
静力矩 Holding Torque mN.m	60	95
相电阻 Resistance per Winding Ohm±10%	6.5	6.7
相电感 Inductance per Winding mH±20%	4.2	3.8
转子惯量 Rotor Inertia gcm²	9	15
电机重量 Weight kg	0.12	0.16
电机高度 Length “L” mm	34	45
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

11HY34-LE25.4-T5-2-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T4.76-0.63	4.76	0.635	0.003175
T4.76-1.27	4.76	1.27	0.00635
T5-2	5	2	0.01
T5-4	5	4	0.02
T5-5.08	5	5.08	0.0254
T5-8	5	8	0.04

可选配件 ACCESSORIES

Motor Controllers / Drives
电机驱动与控制器

Standard nut 标准螺母

Clearance nut 消间隙螺母

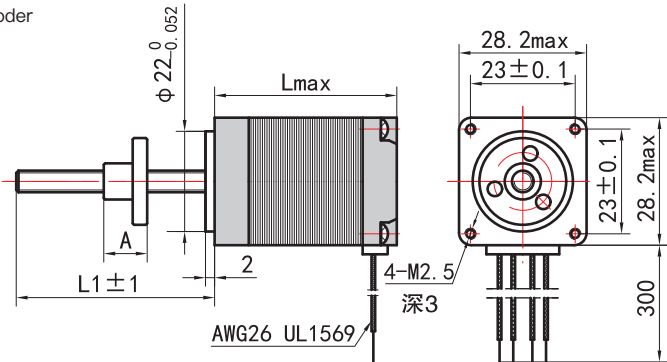


28mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 11

DIMENSIONS (IN MM)

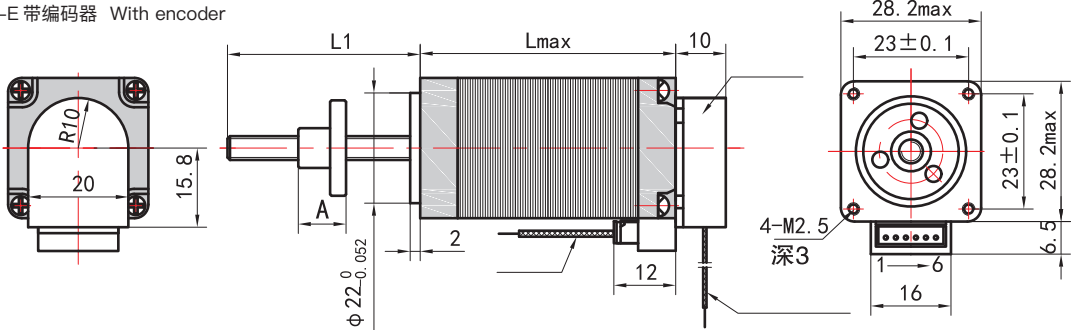
11HY-LExx无编码器 Without encoder



实际行程：(L1-2-A)mm，丝杆长度及端部加工可按需定制，T型丝杆表面可做PTFE涂层处理

DIMENSIONS (IN MM)

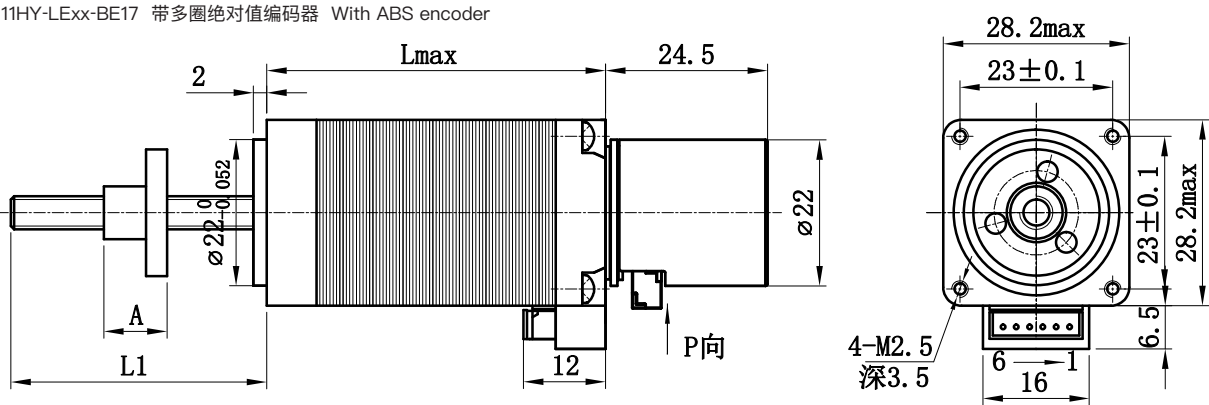
11HY-LExx-E 带编码器 With encoder



实际行程：(L1-2-A)mm，丝杆长度及端部加工可按需定制，T型丝杆表面可做PTFE涂层处理

DIMENSIONS (IN MM)

11HY-LExx-BE17 带多圈绝对值编码器 With ABS encoder

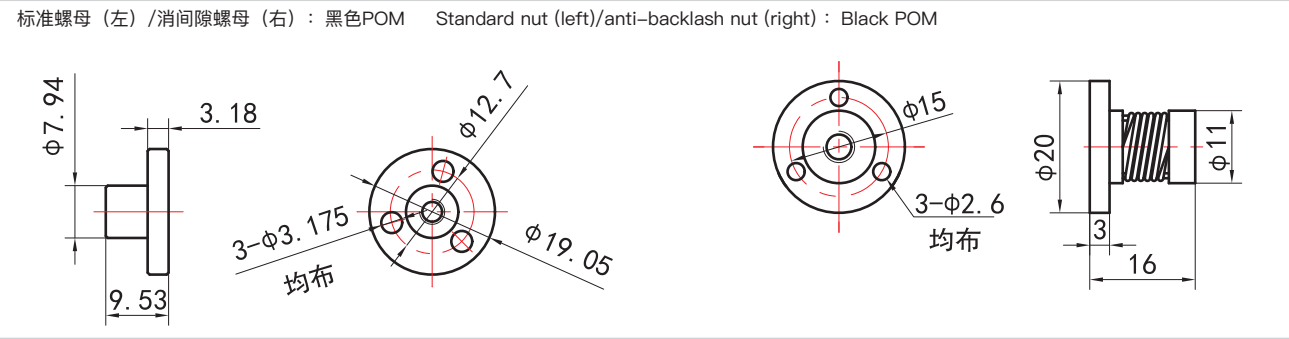


实际行程：(L1-2-A)mm，丝杆长度及端部加工可按需定制，T型丝杆表面可做PTFE涂层处理

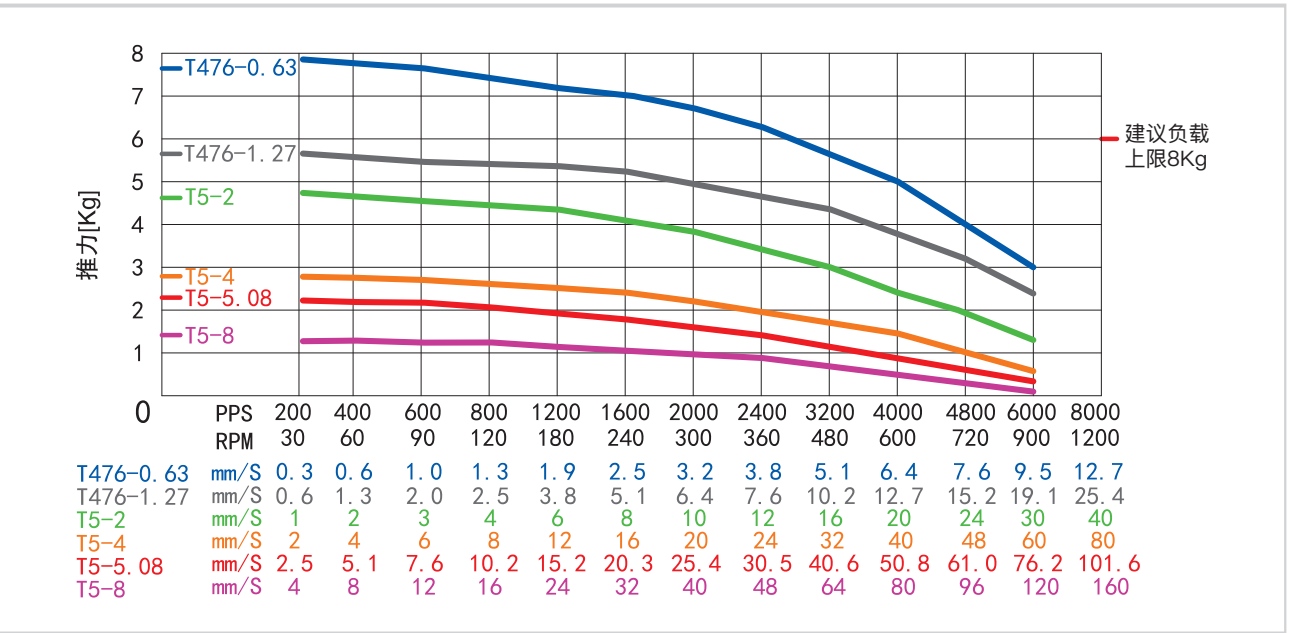
28mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 11

DIMENSIONS (IN MM)



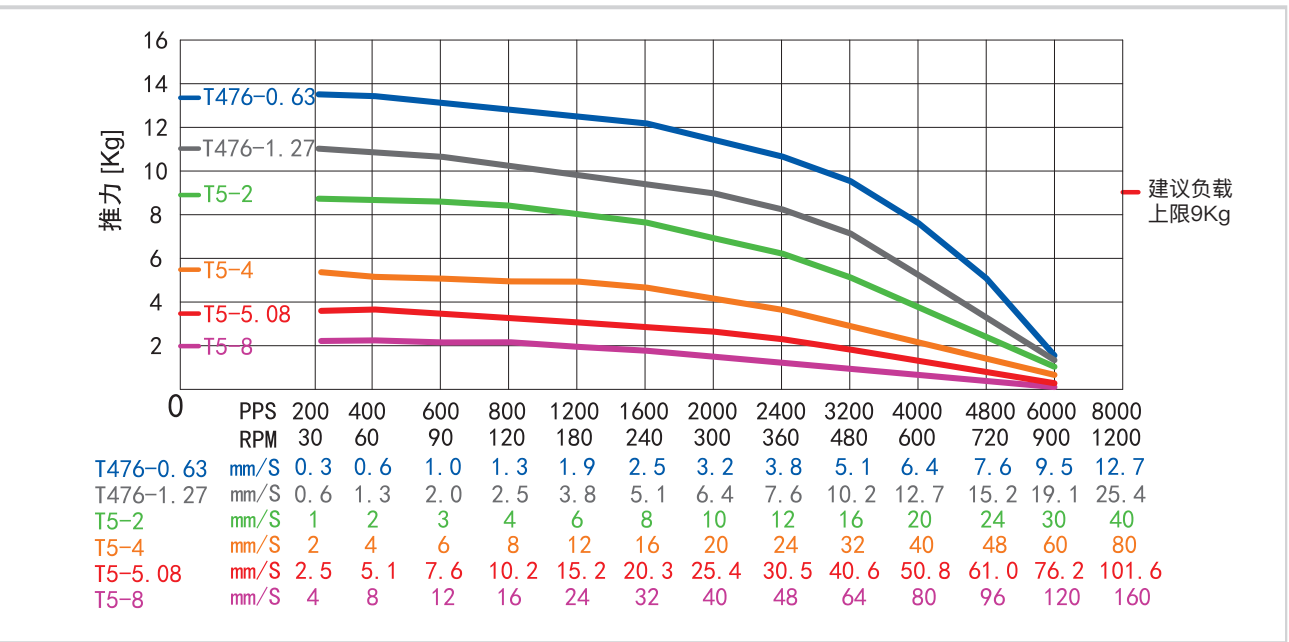
Force-Velocity Curve-11HY34



28mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 11

Force-Velocity Curve-11HY45



28mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw – NEMA11

NEMA11(28mm法兰)贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用
Nema11 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	11HY34	11HY45
相电流 Current per Winding A	0.75	0.75
静力矩 Holding Torque mN.m	60	95
相电阻 Resistance per Winding Ohm±10%	6.5	6.7
相电感 Inductance per Winding mH±20%	4.2	3.8
转子惯量 Rotor Inertia gcm ²	9	15
电机重量 Weight kg	0.12	0.16
电机高度 Length “L” mm	34	45
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

11HY34-Lxx-T3.5-1-E2000-B/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T3.5-0.61 = Screw Diameter 3.5mm Lead 0.61mm
T3.5-0.61 = 丝杆 直径3.5毫米 导程0.61毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

B/C= (B-Brake C-Customer Definition)
B/C= (B-刹车 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T4.76-0.63	4.76	0.635	0.003175
T4.76-1.27	4.76	1.27	0.00635
T5-2	5	2	0.01
T5-4	5	4	0.02
T5-5.08	5	5.08	0.0254
T5-8	5	8	0.04

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

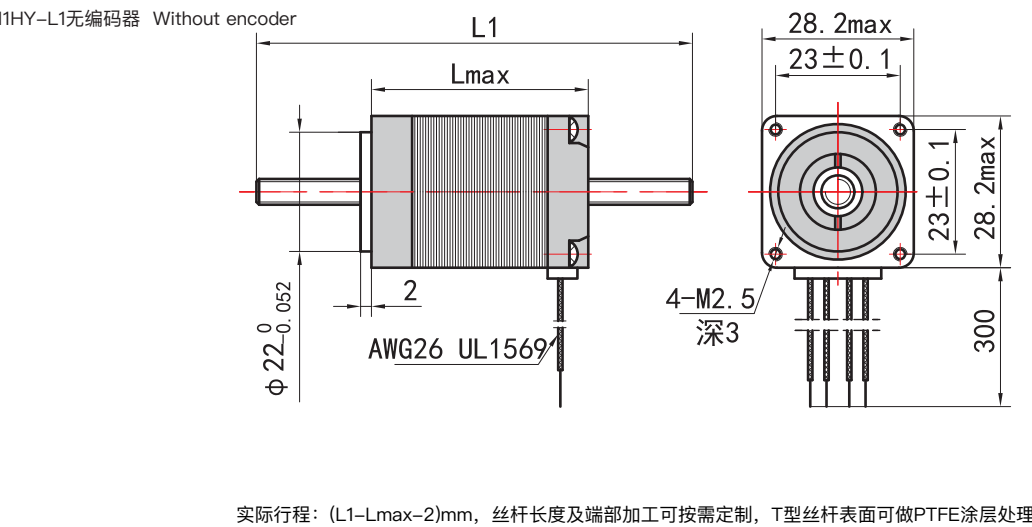
Encoder: 500-4000PCR可选

Motor Controllers / Drives

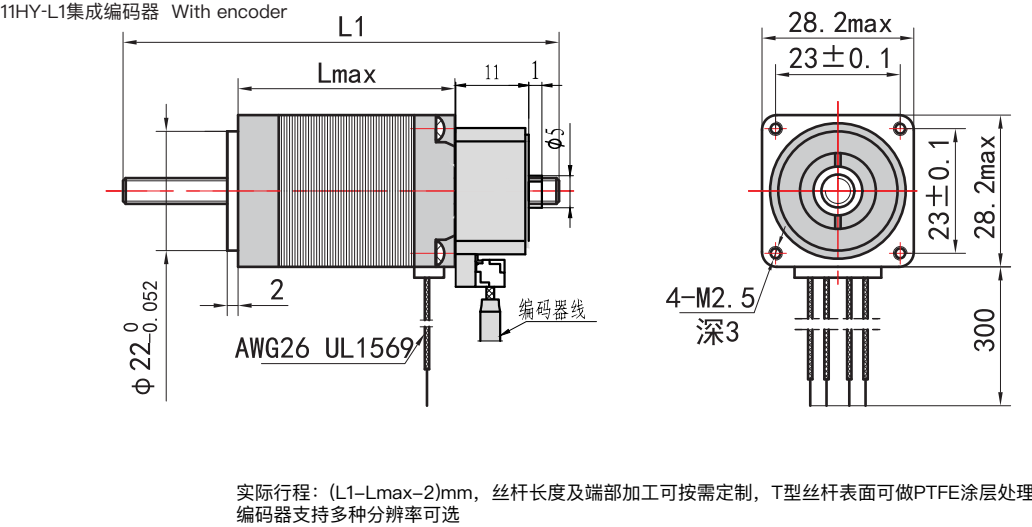
28mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 11

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



28mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw – NEMA 11

灵活的紧凑型直线步进电机，尺寸为 NEMA 11（28 mm），定位时间短、推力和拉力大。固定轴式，直线输出，无需额外结构设计。

Flexible compact linear stepper motor, size NEMA 11（28 mm）, short positioning time, high thrust and pull. Fixed shaft type, linear output, no additional structural design is required.

Feature

- External Linear linear actuator 固定轴式线性执行器
- 20mm small size 28系列法兰
- Encoder optional(Unlisted) 可配套编码器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器和驱动器可用



VERSIONS

系列代码 Series models	11HY34	11HY45
相电流 Current per Winding A	0.75	0.75
静力矩 Holding Torque mN.m	60	95
相电阻 Resistance per Winding Ohm±10%	6.5	6.7
相电感 Inductance per Winding mH±20%	4.2	3.8
转子惯量 Rotor Inertia gcm²	9	15
电机重量 Weight kg	0.12	0.16
电机高度 Length “L” mm	34	45
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

11HY45-LFxx-T5-2-E2000-P/B/X/C

LFxx =Fixed shaft type Stroke length xx mm
LFxx =固定轴式电机，行程xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-E和BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T4.76-0.63	4.76	0.635	0.003175
T4.76-1.27	4.76	1.27	0.00635
T5-2	5	2	0.01
T5-4	5	4	0.02
T5-5.08	5	5.08	0.0254
T5-8	5	8	0.04
Max.Stroke(mm) 最大行程 (mm)	A(mm) 图示A(mm)		
12.7	17.4		
19.05	23.75		
25.4	30.1		
31.8	36.5		
38.1	42.8		
50.8	55.5		
63.5	68.2		

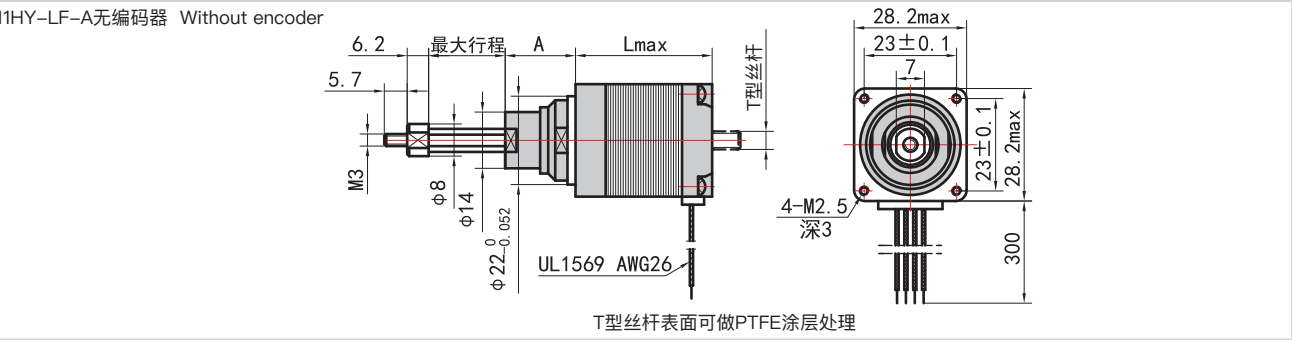
可选配件 optional

- ZK-ENC-500 Encoder Cable 0.5m
- Encoder 高精度编码器（增量）
- Motor Controllers / Drives 电机驱动控制器

28mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw – NEMA 11

DIMENSIONS (IN MM)



35mm法兰外部驱动式T型直线步进电机

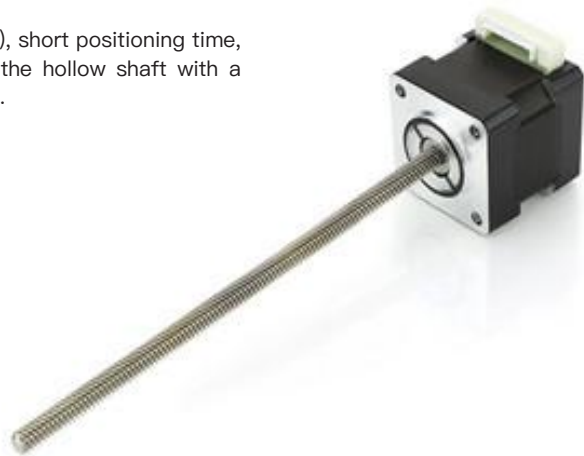
External Linear Actuator With T-Screw – NEMA 14

灵活的紧凑型直线步进电机，尺寸为 NEMA 14 (35 mm)，定位时间短、推力和拉力大。带有梯形螺纹。提供多种长度和不同的绕组。

Flexible and compact linear stepper motor, size NEMA 14 (35 mm), short positioning time, high thrust and pull. The threaded nut is injection molded into the hollow shaft with a trapezoidal thread. Provide multiple lengths and different windings.

Feature

- External Linear linear actuator 外驱式线性执行器
- 35mm size 35系列法兰
- Encoder optional 可配套编码器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可用



VERSIONS

系列代码 Series models	14HS34
相电流 Current per Winding A	1.0
静力矩 Holding Torque mN.m	160
相电阻 Resistance per Winding Ohm±10%	2.3
相电感 Inductance per Winding mH±20%	3.0
转子惯量 Rotor Inertia gcm ²	18
电机重量 Weight kg	0.18
电机高度 Length “L” mm	34
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)

订货代号 ORDER IDENTIFIER

14HS34-LE100-T5-2-E2000-P/B/X/

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.58	0.0079375
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.015875
T6.35-6.35	6.35	6.35	0.3175
T5.56- 9.75	5.56	9.7536	0.048768
T8- 20	8	20	0.1

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

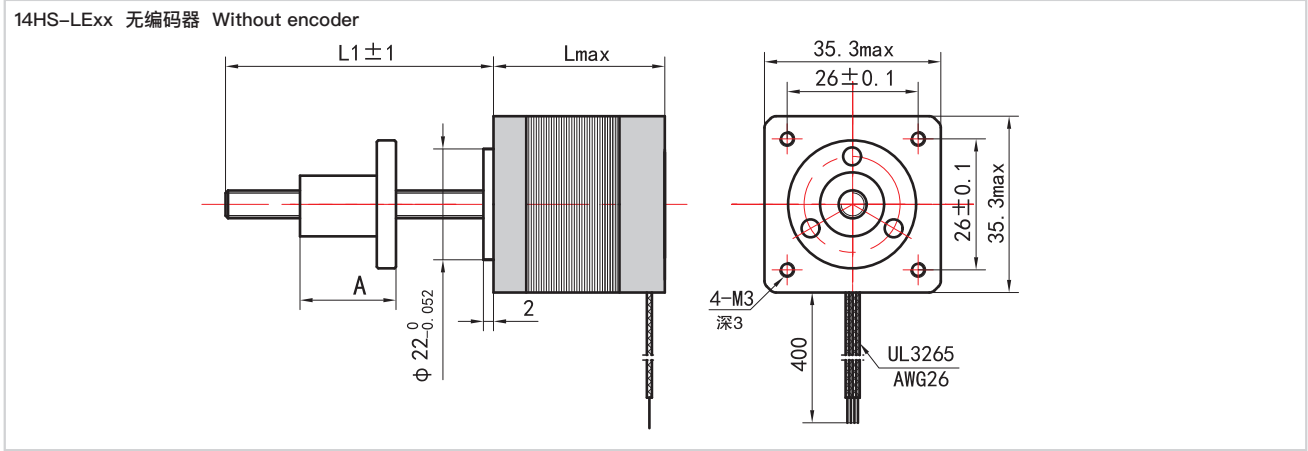
Encoder: 500-4000PCR

Motor Controllers / Drives

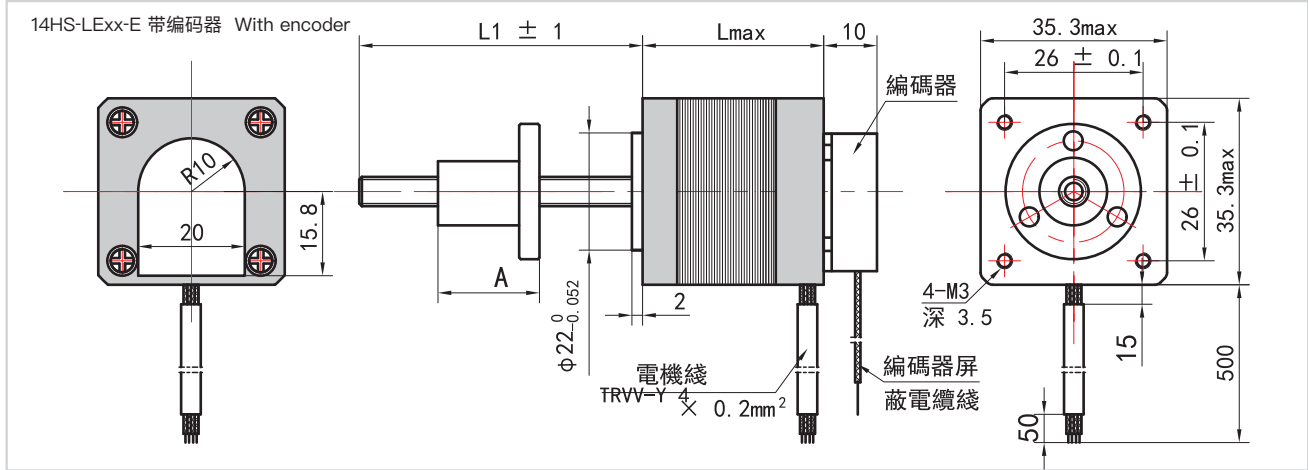
35mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw – NEMA 14

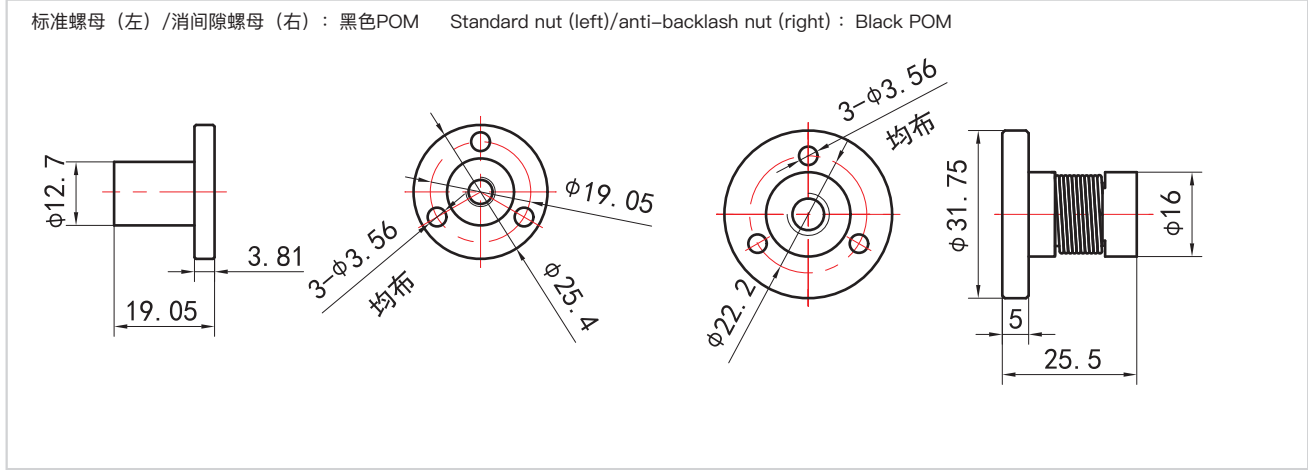
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



DIMENSIONS (IN MM)

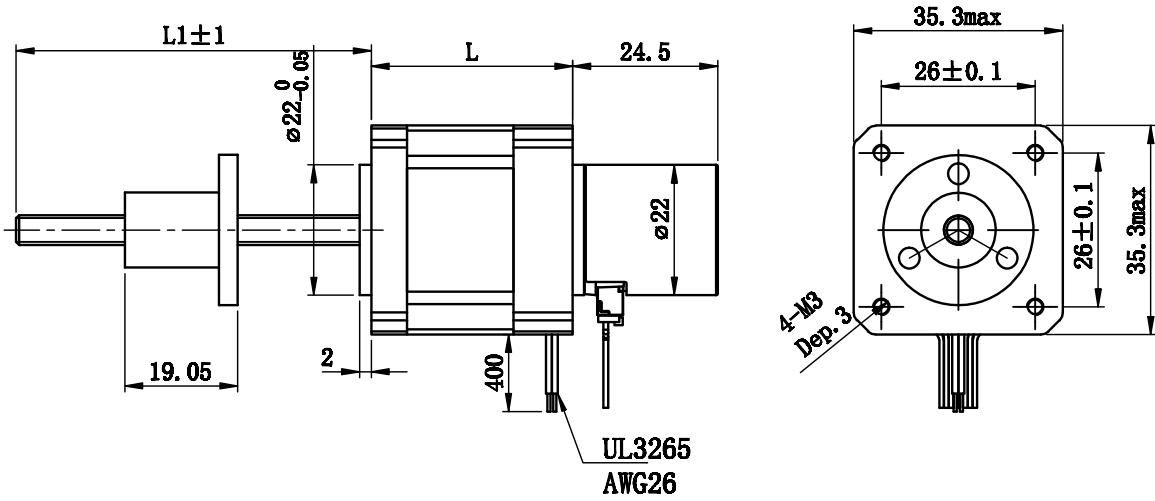


35mm法兰外部驱动式T型直线步进电机

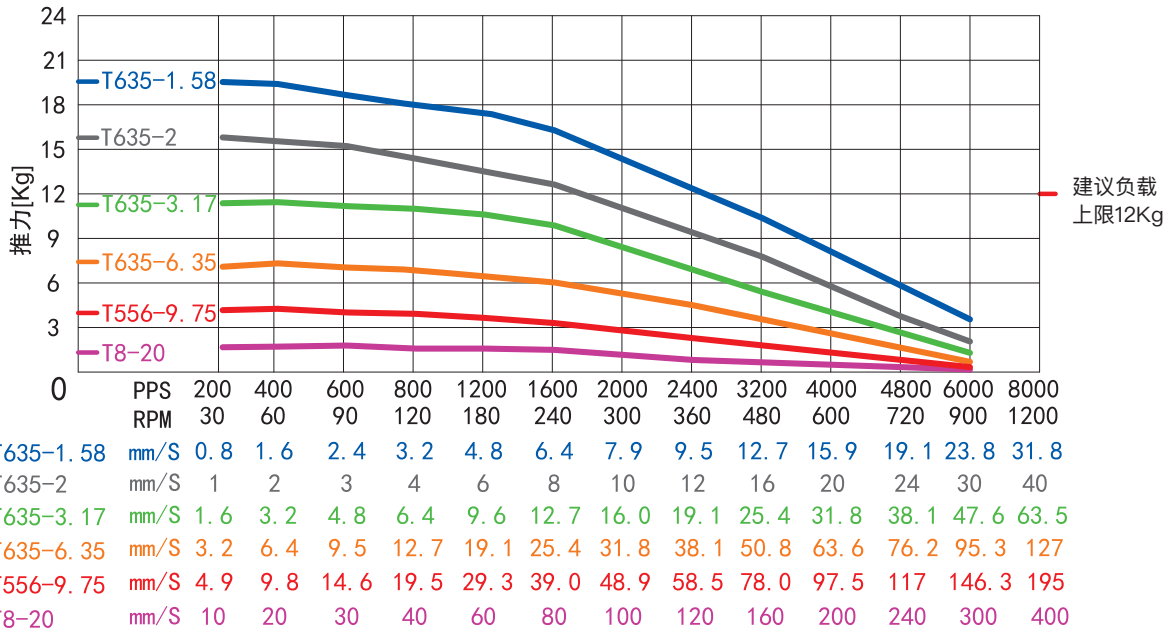
External Linear Actuator With T-Screw – NEMA 14

DIMENSIONS (IN MM)

14HS-LExx-BE17 带多圈绝对值编码器 With Multi-Turn Absolute Encoder



Force-Velocity Curve-14HS34



35mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw – NEMA14

NEMA14贯通轴式直线电机是贯通式的线性执行器，结构紧凑，精度高。可选装高分辨率的贯通编码器配合高定位使用

Nema14 through-axis linear actuators integrate T screws and motors. Additional encoder can also provide

Feature

- Through-shaft linear actuator 贯通轴线性执行器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器/驱动器可
- 0.001mm/step with our controller 与我们的控制器一起0.001mm/步

VERSIONS

系列代码 Series models	14HS34
相电流 Current per Winding A	1.0
静力矩 Holding Torque mN.m	160
相电阻 Resistance per Winding Ohm±10%	2.3
相电感 Inductance per Winding mH±20%	3.0
转子惯量 Rotor Inertia gcm ²	18
电机重量 Weight kg	0.18
电机高度 Length “L” mm	34
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available
反馈装置 Feedback	伺服 (闭环) 版本 Encoder(Closed-loop version)

订货代号 ORDER IDENTIFIER

14HS34-L25.4-T5-2-E2000-P/B/X/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器 (可选增量500-2000CPR/17位多圈)

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-E和BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.58	0.0079375
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.015875
T6.35-6.35	6.35	6.35	0.3175
T5.56- 9.75	5.56	9.7536	0.048768

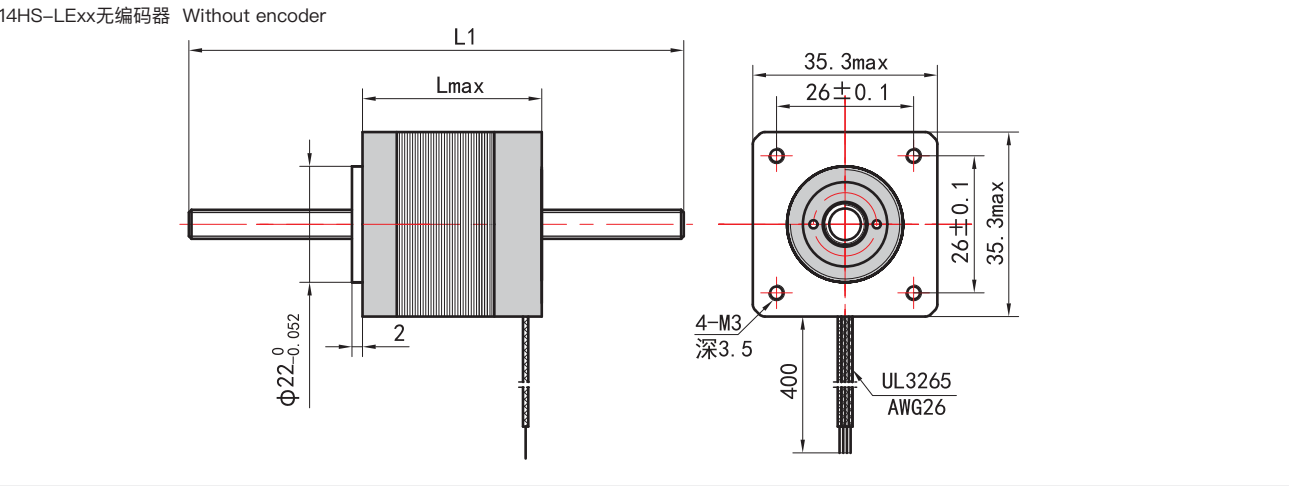
可选配件 ACCESSORIES

Motor Controllers / Drives
电机驱动与控制器

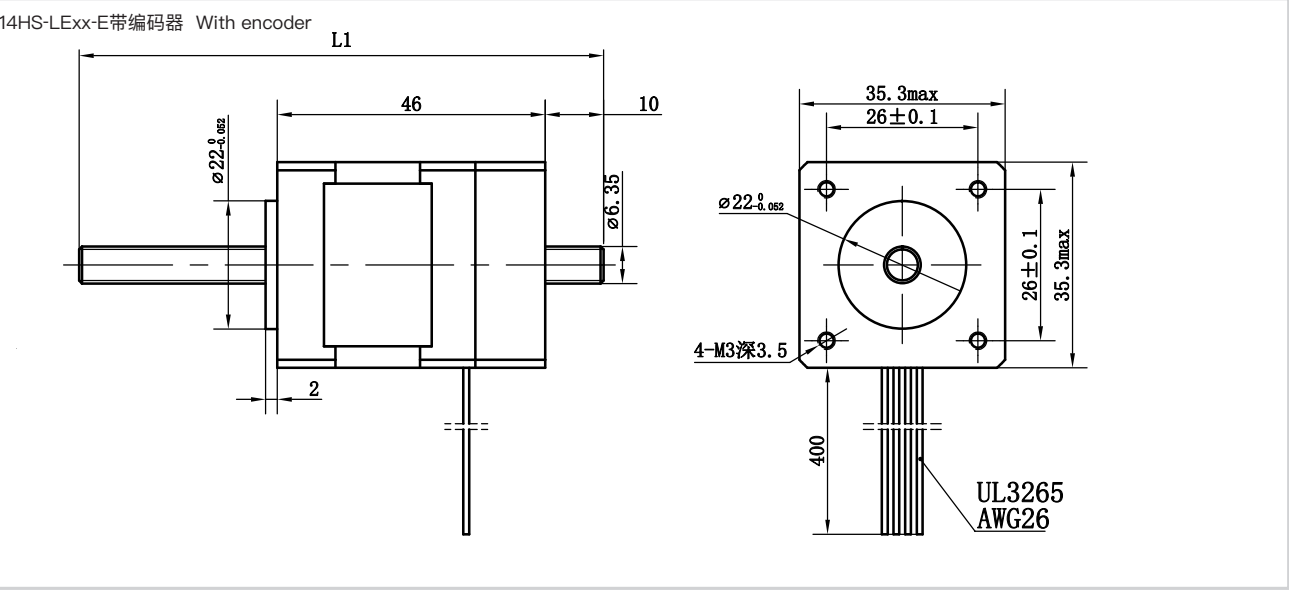
35mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw – NEMA14

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



35mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw – NEMA 14

灵活的紧凑型直线步进电机，尺寸为 NEMA 14 (35 mm)，定位时间短、推力和拉力大。固定轴式，直线输出，无需额外结构设计。

Flexible compact linear stepper motor, size NEMA 14 (35 mm), short high thrust and pull. Fixed shaft type, linear output, no additional structure required.

Feature

- External Linear linear actuator 固定轴式线性执行器
- 35 mm small size 35mm系列法兰
- Encoder optional(Unlisted) 可配套编码器（未来）
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器和驱动器可用



VERSIONS

系列代码 Series models	14HS34
相电流 Current per Winding A	1.0
静力矩 Holding Torque mN.m	160
相电阻 Resistance per Winding Ohm±10%	2.3
相电感 Inductance per Winding mH±20%	3.0
转子惯量 Rotor Inertia gcm ²	18
电机重量 Weight kg	0.18
电机高度 Length “L” mm	34
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)

订货代号 ORDER IDENTIFIER

14HS34-LFxx-T3.5-1-E2000-P/B/X/C

LFxx =Fixed shaft type Stroke length xx mm

LFxx =固定轴式电机，行程xx毫米

T3.5-0.61 = Screw Diameter 3.5mm Lead 0.61mm

T3.5-0.61 = 丝杆 直径3.5毫米 导程0.61毫米

E2000=Encoder (Optional E500-2000/BE17)

E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)

P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选项目 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.5875	0.0079375
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.15875
T6.35-6.35	6.35	6.35	0.03175
T5.56-9.75	5.56	9.7536	0.048768

Stroke行程 A(mm) 图示A(mm)

12.7	18.4
19.05	24.75
25.4	31.1
31.8	37.5
38.1	43.8
50.8	56.5
63.5	69.2

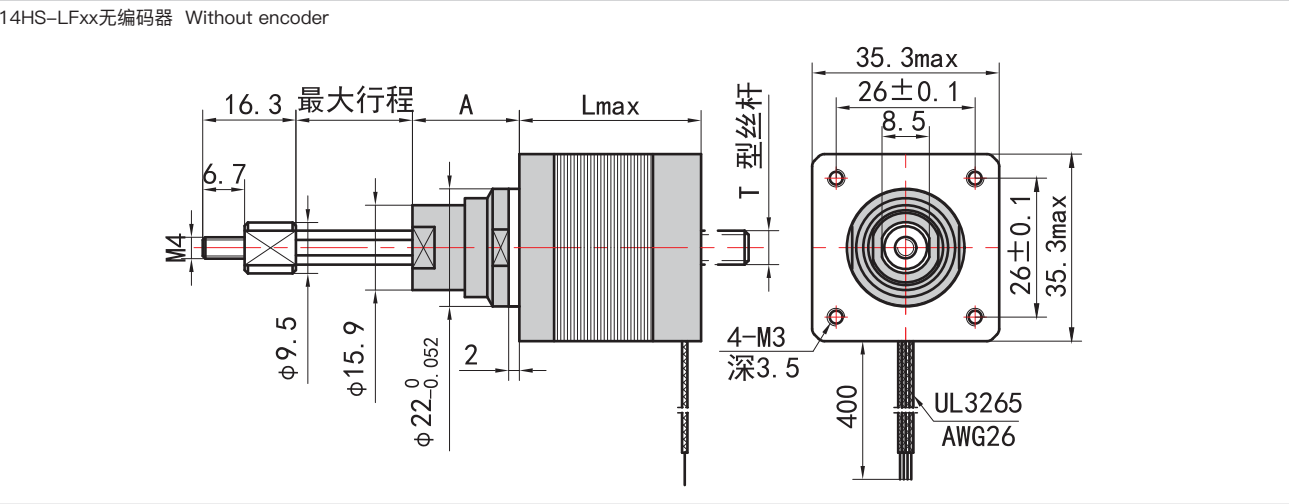
可选配件 ACCESSORIES

- Motor Controllers / Drives 电机驱动控制器

35mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw - NEMA 14

DIMENSIONS (IN MM)



42mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 17

Nema17集成梯形丝杠电机，不带联轴器，电机与丝杠直接连接。本。还提供用于位置反馈的内置编码器。

Nema11 integrated T screw motor, without coupling, the directly connected. Two motor height versions available. lengths available.A built-in encoder for position feedback is

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时, 0.0002mm /步



VERSIONS

系列代码 Series models	17HS34	17HS48
相电流 Current per Winding A	1.5	1.5
静力矩 Holding Torque mN.m	260	430
相电阻 Resistance per Winding Ohm±10%	1.56	2
相电感 Inductance per Winding mH±20%	2.4	3.85
转子惯量 Rotor Inertia gcm ²	38	82
电机重量 Weight kg	0.2	0.34
电机高度 Length “L” mm	34	48
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

17HS01-LE100-T5-2-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.58	0.0079
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.015875
T6.35-6.35	6.35	6.35	0.03175
T5.56-9.75	5.56	9.7536	0.048768
T8-20	8	20	0.1

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

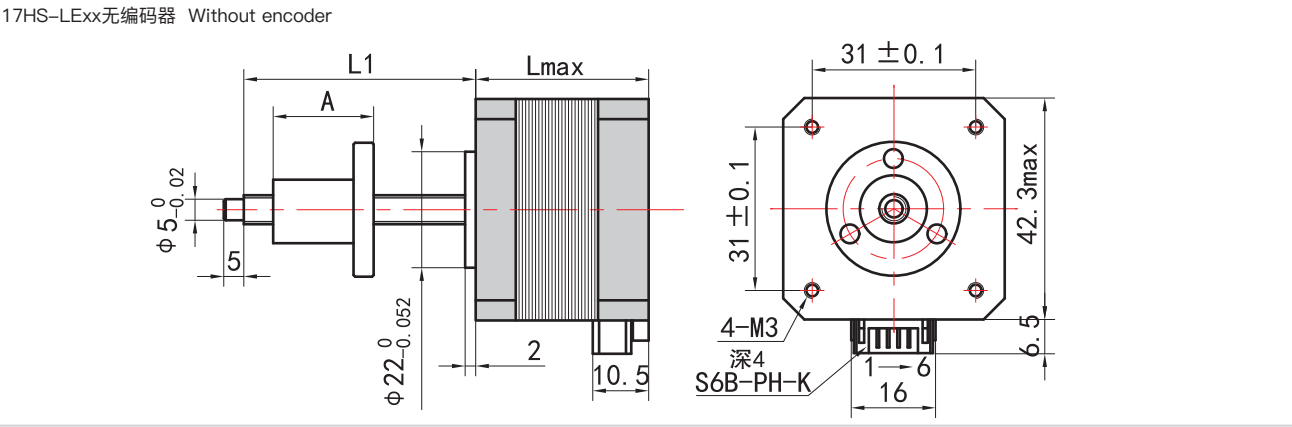
Encoder: 500-4000PCR

Motor Controllers / Drives

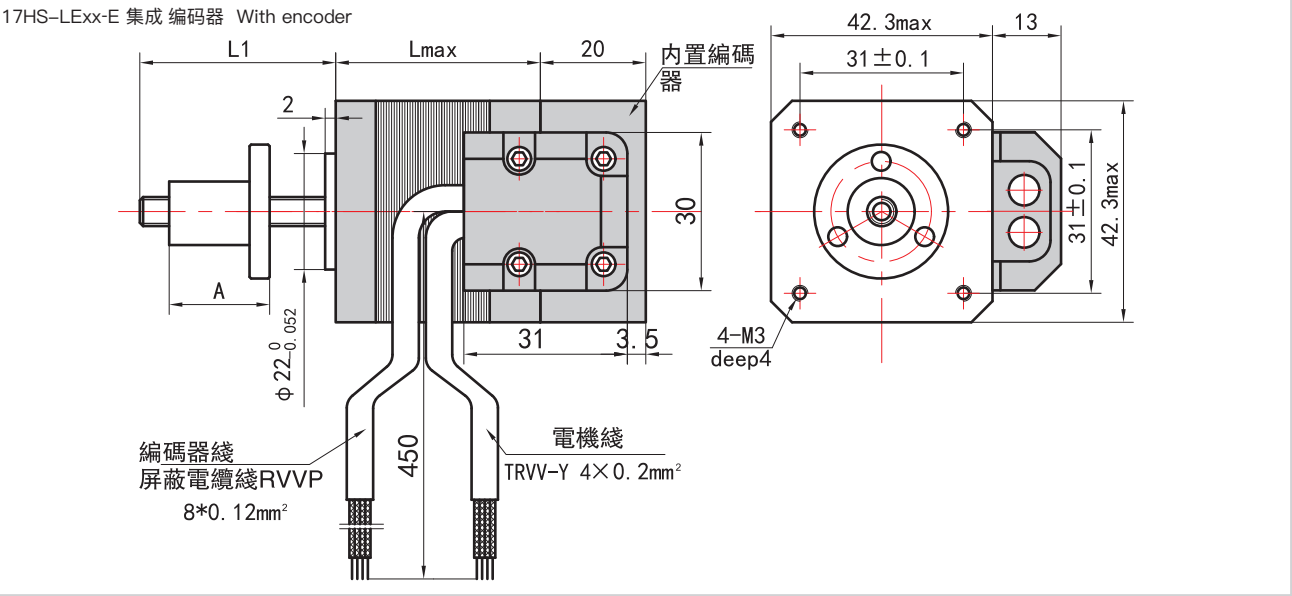
42mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 17

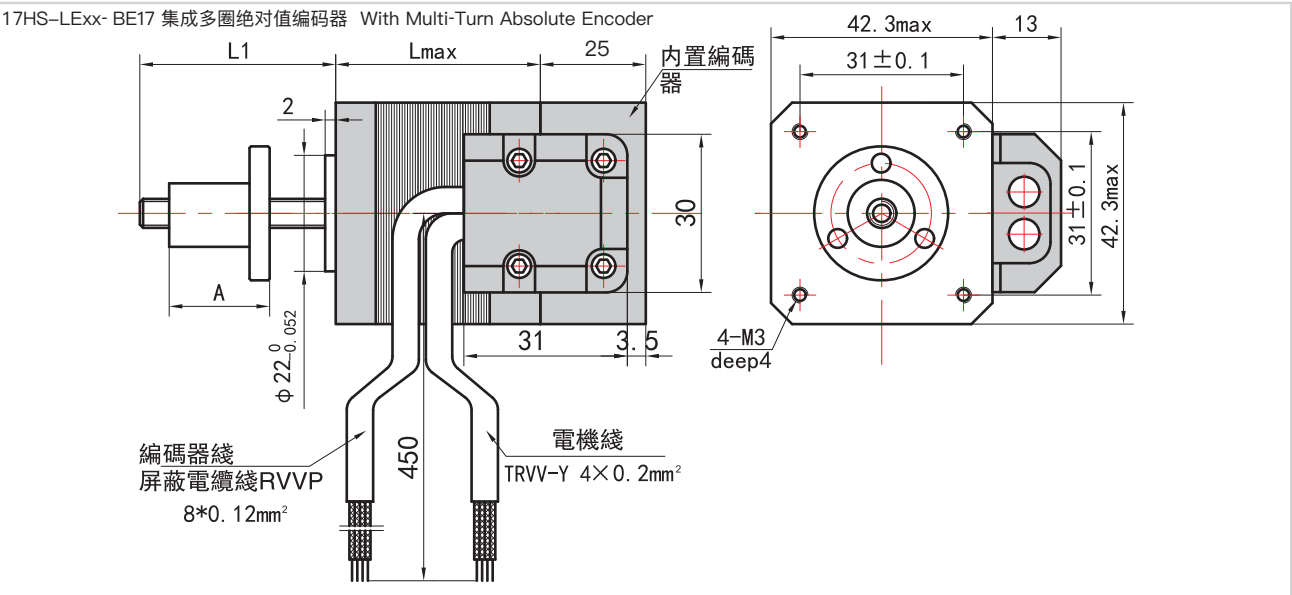
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



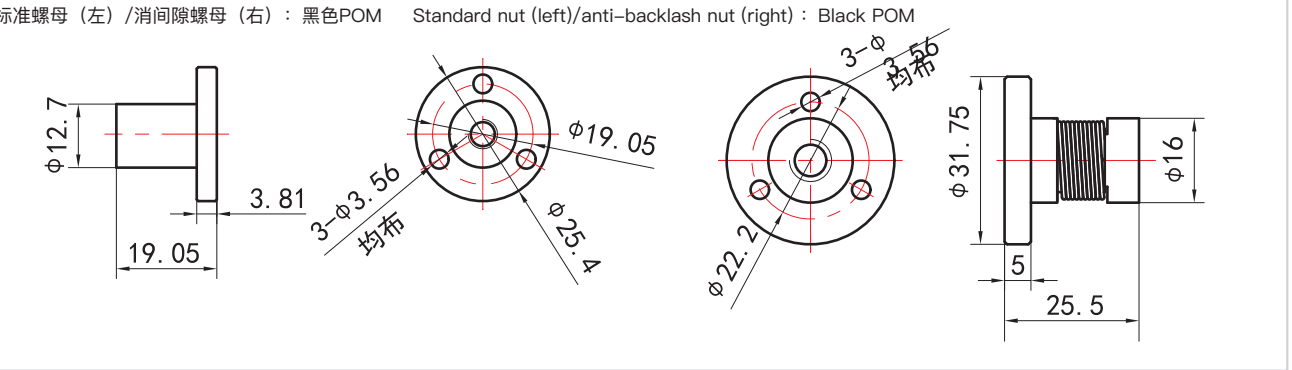
DIMENSIONS (IN MM)



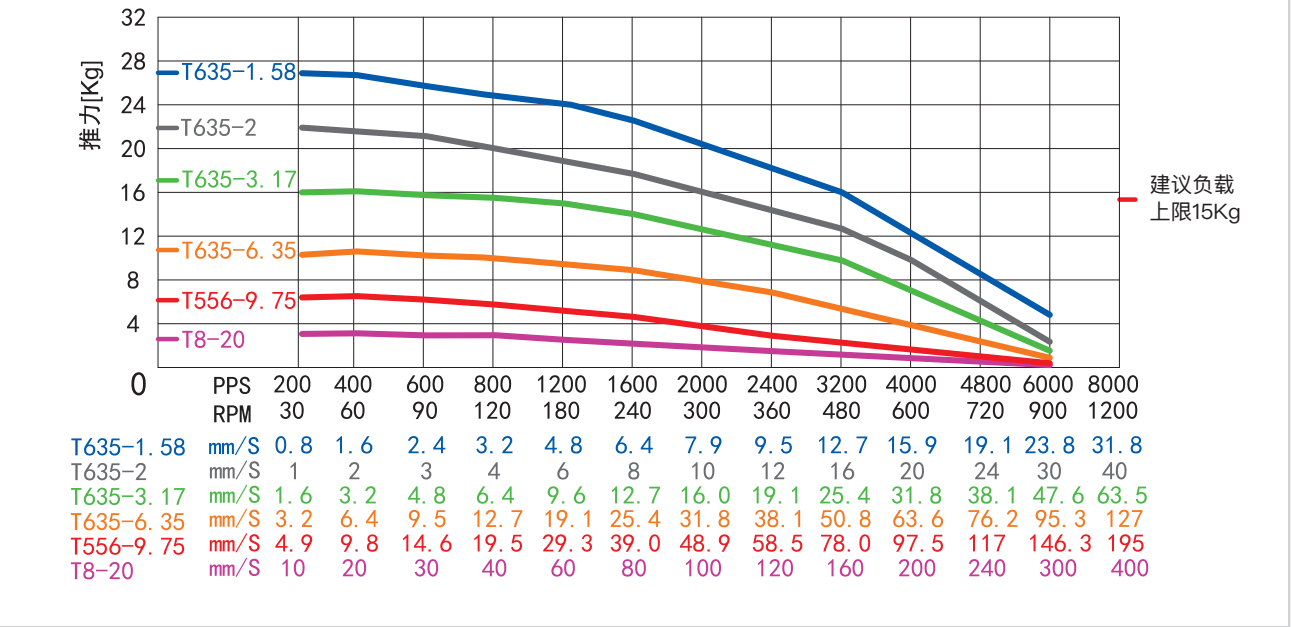
42mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 17

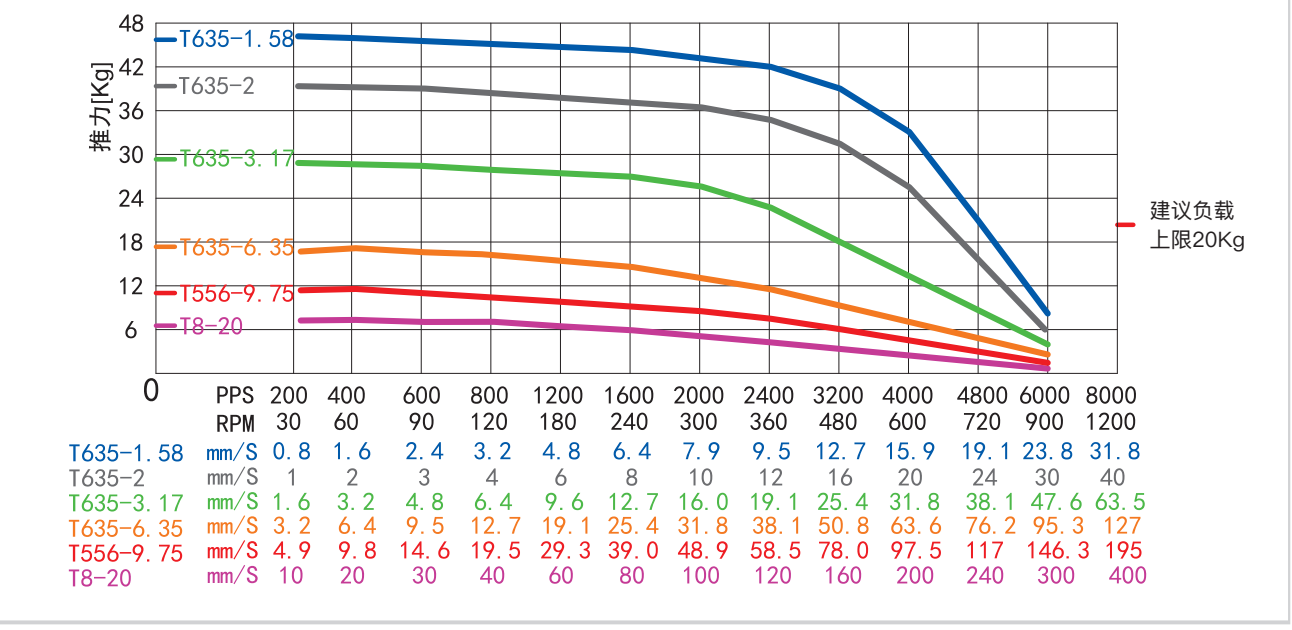
DIMENSIONS (IN MM)



Force-Velocity Curve-17HS34



Force-Velocity Curve-17HS48



42mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA17

NEMA17(42mm法兰)贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用
Nema17 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide



Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时, 0.0002mm /步

VERSIONS

系列代码 Series models	17HS34	17HS48
相电流 Current per Winding A	1.5	1.5
静力矩 Holding Torque mN.m	260	430
相电阻 Resistance per Winding Ohm±10%	1.56	2
相电感 Inductance per Winding mH±20%	2.4	3.85
转子惯量 Rotor Inertia gcm²	38	82
电机重量 Weight kg	0.2	0.34
电机高度 Length “L” mm	34	48
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

17HS34-L25.4-T5-2-E2000-P/B/X/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.58	0.0079
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.015875
T6.35-6.35	6.35	6.35	0.03175
T5.56-9.75	5.56	9.7536	0.048768

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

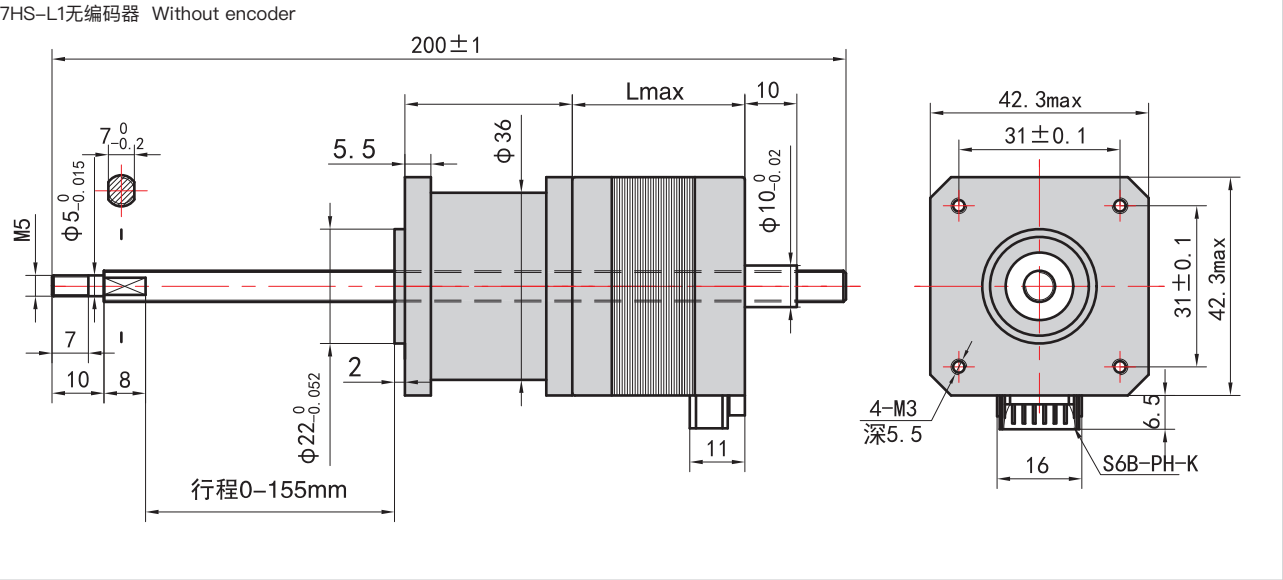
Encoder: 500-4000PCR

Motor Controllers / Drives

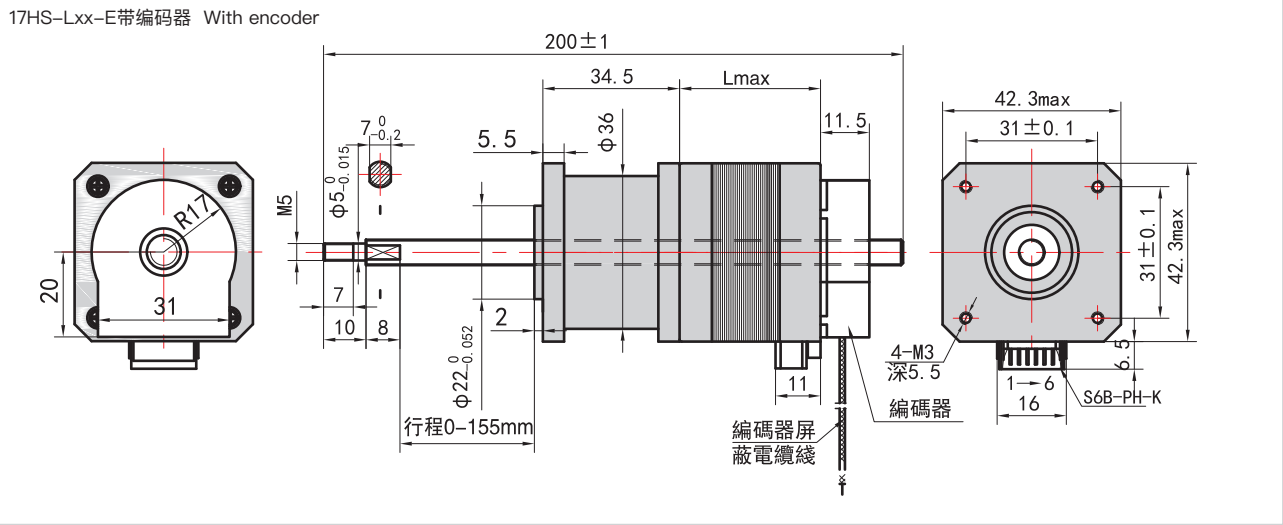
42mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA17

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



42mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw - NEMA 17

灵活的紧凑型直线步进电机，尺寸为 NEMA 17 (42 mm)，定位时间短、推力和拉力大。固定轴式，直线输出，无需额外结构设计。

Flexible compact linear stepper motor, size NEMA 17 (42 mm), short positioning time, high thrust and pull. Fixed shaft type, linear output, no additional structural design is required.

Feature

- External Linear linear actuator 固定轴式线性执行器
- 20mm small size 42系列法兰
- Encoder optional 可配套编码器
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- Motor Controllers / Drives available 电机控制器和驱动器可用



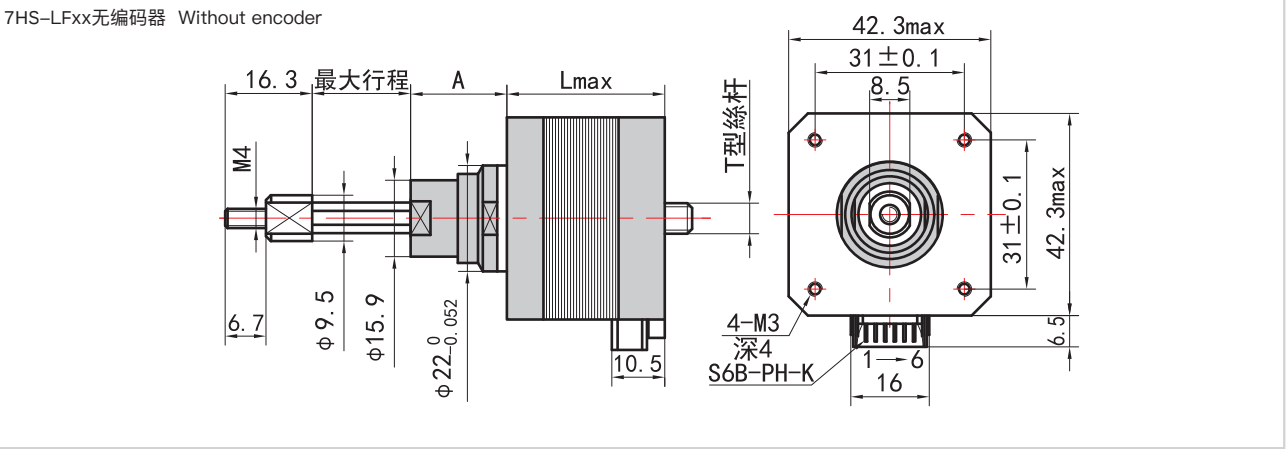
VERSIONS

系列代码 Series models	17HS34	17HS48
相电流 Current per Winding A	1.5	1.5
静力矩 Holding Torque mN.m	260	430
相电阻 Resistance per Winding Ohm±10%	1.56	2
相电感 Inductance per Winding mH±20%	2.4	3.85
转子惯量 Rotor Inertia gcm²	38	82
电机重量 Weight kg	0.2	0.34
电机高度 Length “L” mm	34	48
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服(闭环)版本 Encoder(Closed - loop version)	

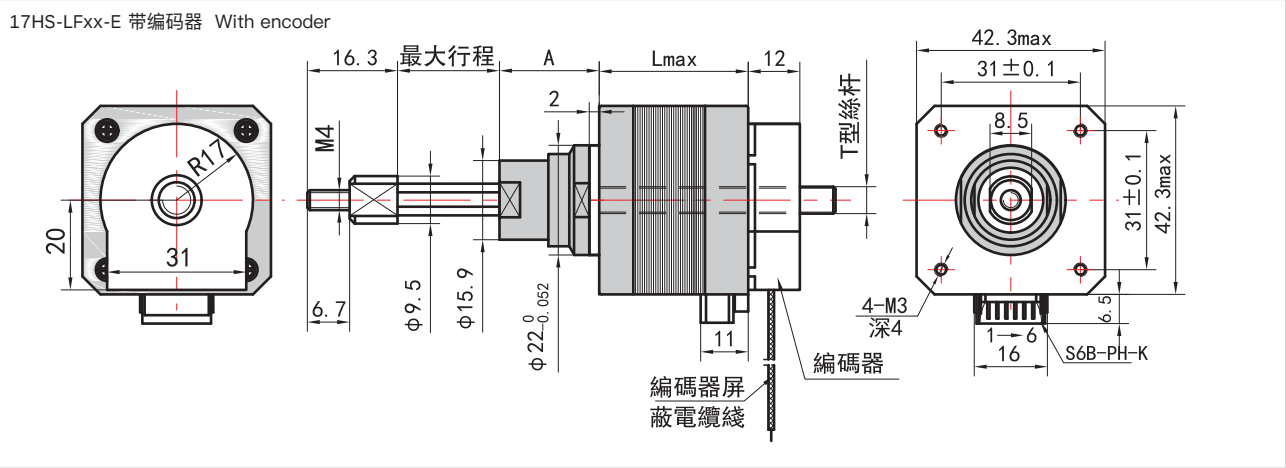
42mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw - NEMA 17

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



订货代号 ORDER IDENTIFIER

17HS34-LFxx-T5-2-E2000-P/B/X/C

LFxx =Fixed shaft type Stroke length xx mm
LFxx =固定轴式电机，行程xx毫米

T5-2= Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T6.35-1.58	6.35	1.5875	0.0079375
T6.35-2	6.35	2	0.01
T6.35-3.17	6.35	3.175	0.015875
T6.35-6.35	6.35	6.35	0.03175
T5.56-9.75	6.35	0.7536	0.048768

Max.Stroke(mm) 最大行程 (mm)	A(mm) 图示A(mm)
12.7	18.4
19.05	24.75
25.4	31.1
31.8	37.5
38.1	43.8
50.8	56.5
63.5	69.2

可选配件 optional

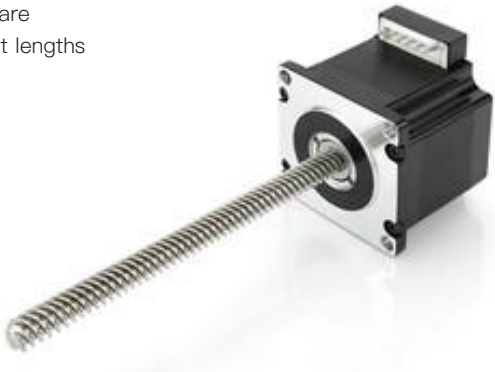
- ZK-ENC-500 Encoder Cable 0.5m
- **Encoder** 高精度编码器（增量）
- **Motor Controllers / Drives** 电机驱动控制器

57mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 23

Nema23集成梯形丝杠电机，不带联轴器，电机与丝杠直接连接。 提供多种电机高度版本。 还提供用于位置反馈的内置编码器。

Nema23 integrated T screw motor, without coupling, the motor and screw are directly connected. Two motor height versions available. Screws of different lengths available.A built-in encoder for position feedback is also available.



Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电流 Current per Winding A	2	3	4
静力矩 Holding Torque mN.m	0.7	1.3	1.6
相电阻 Resistance per Winding Ohm±10%	1.63	1.1	0.5
相电感 Inductance per Winding mH±20%	4.2	3.2	1.7
转子惯量 Rotor Inertia gcm²	155	280	460
电机重量 Weight kg	0.5	0.62	1
电机高度 Length “L“ mm	45	56	76
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available		
反馈装置 Feedback	伺服(闭环)版本 Encoder(Closed-loop version)		

订货代号 ORDER IDENTIFIER

23HS45-LE100-T5-2-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm
LExx =外部驱动式电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器 (可选增量500~2000CPR/17位多圈)

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm)
T9.53-1.58	9.525	1.5875	0.0079375
T9.53-25.4	9.525	25.4	0.127
T10-2	10	2	0.01
T10-4	10	4	0.02
T10-10	10	10	0.05
T10-20	10	20	0.1

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

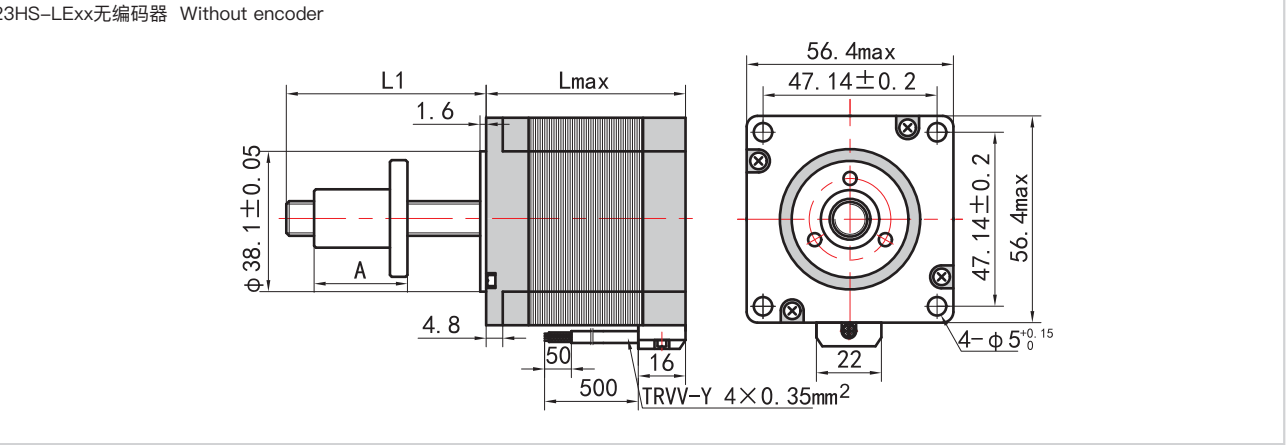
Encoder: 500-4000PCR

Motor Controllers / Drives

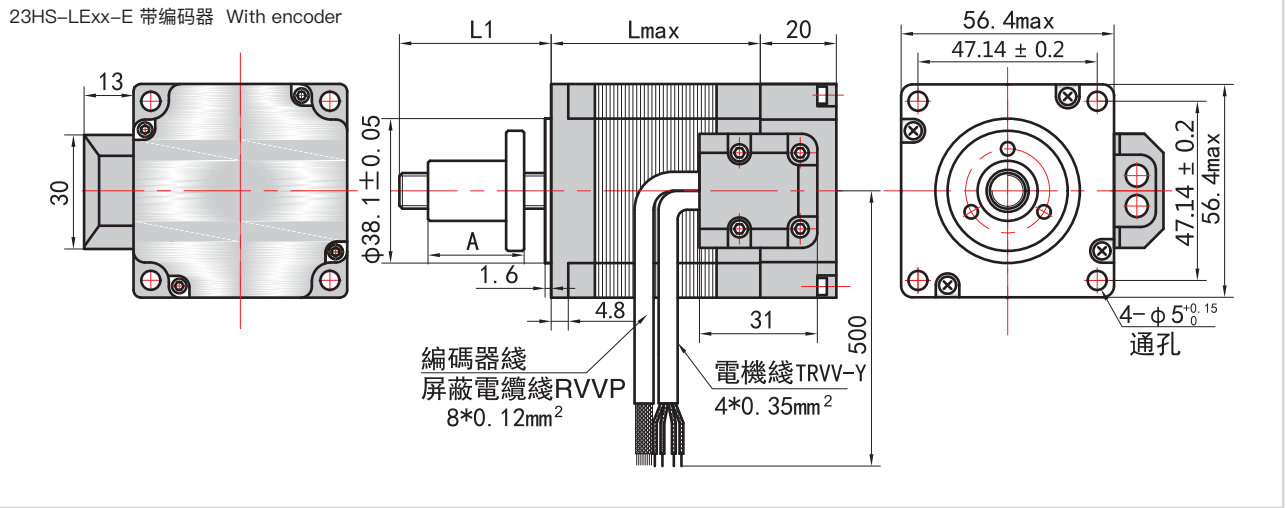
57mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 23

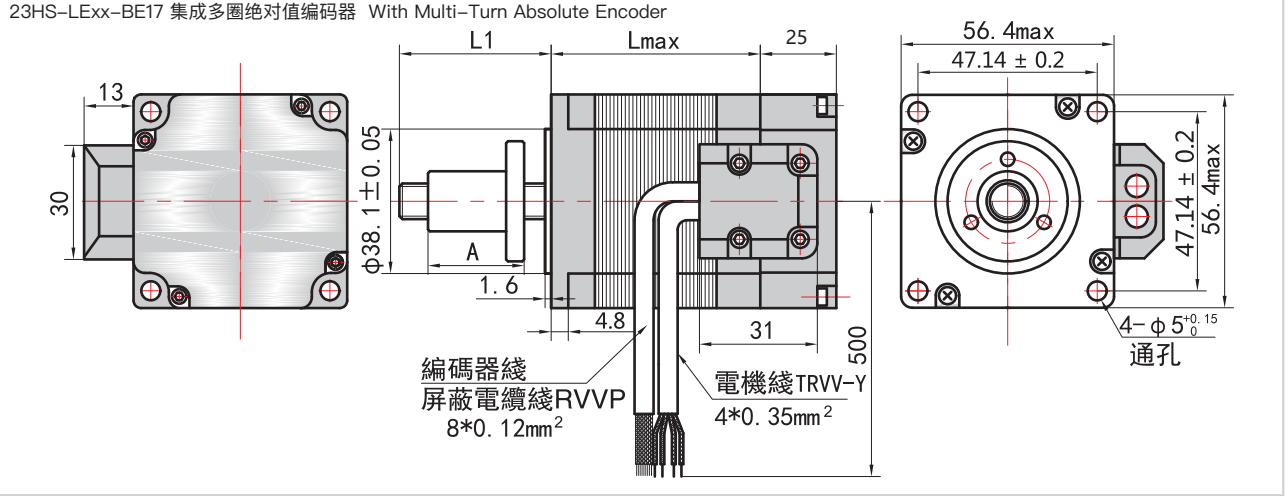
DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



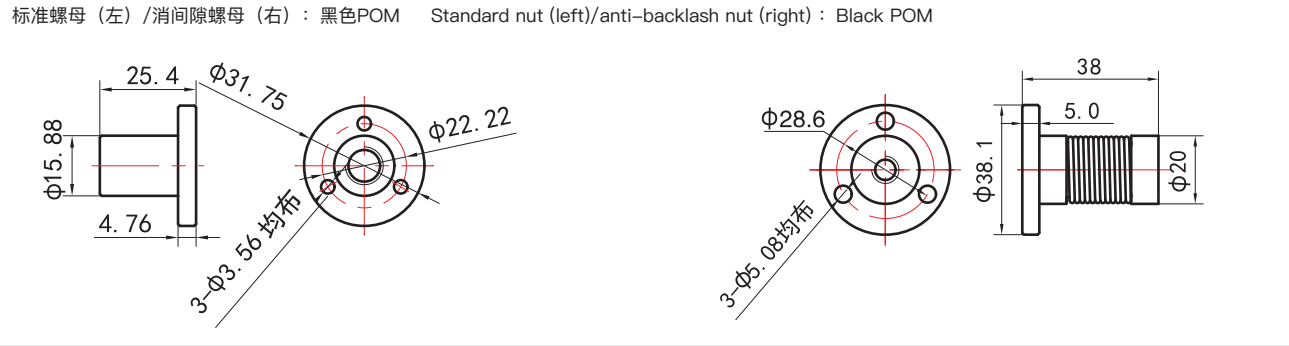
DIMENSIONS (IN MM)



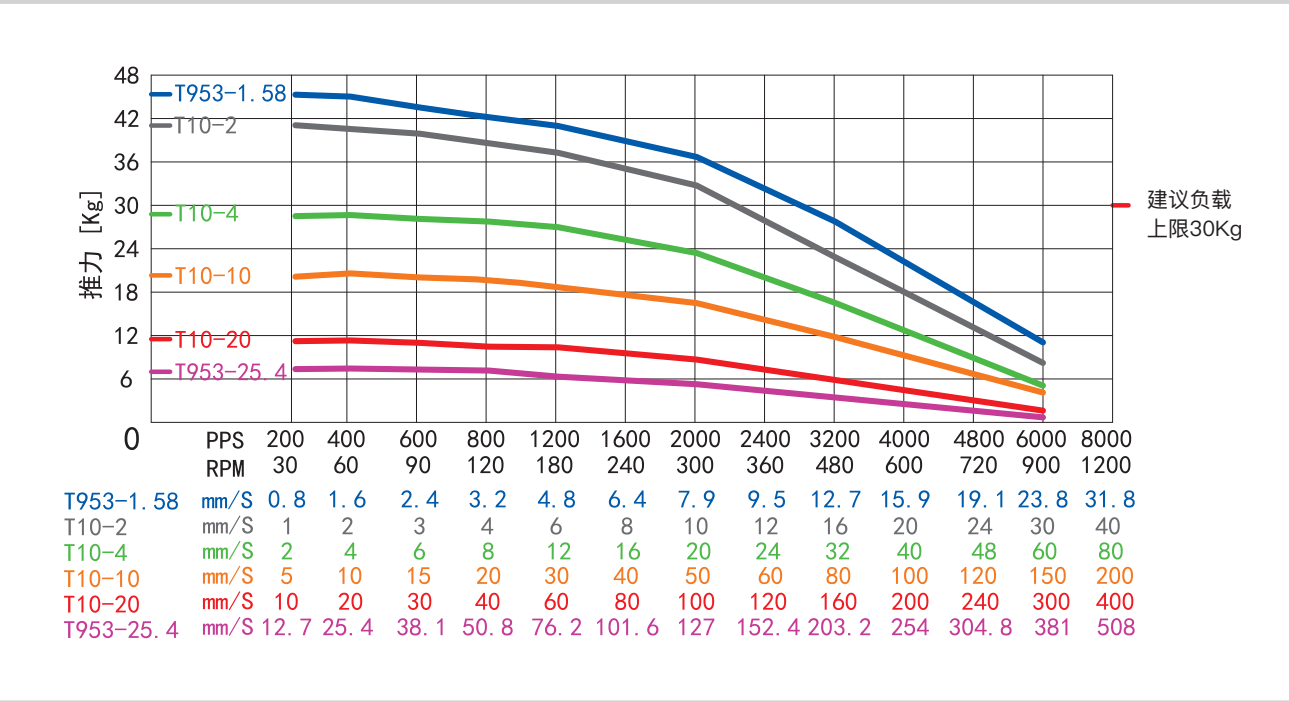
57mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 23

DIMENSIONS (IN MM)



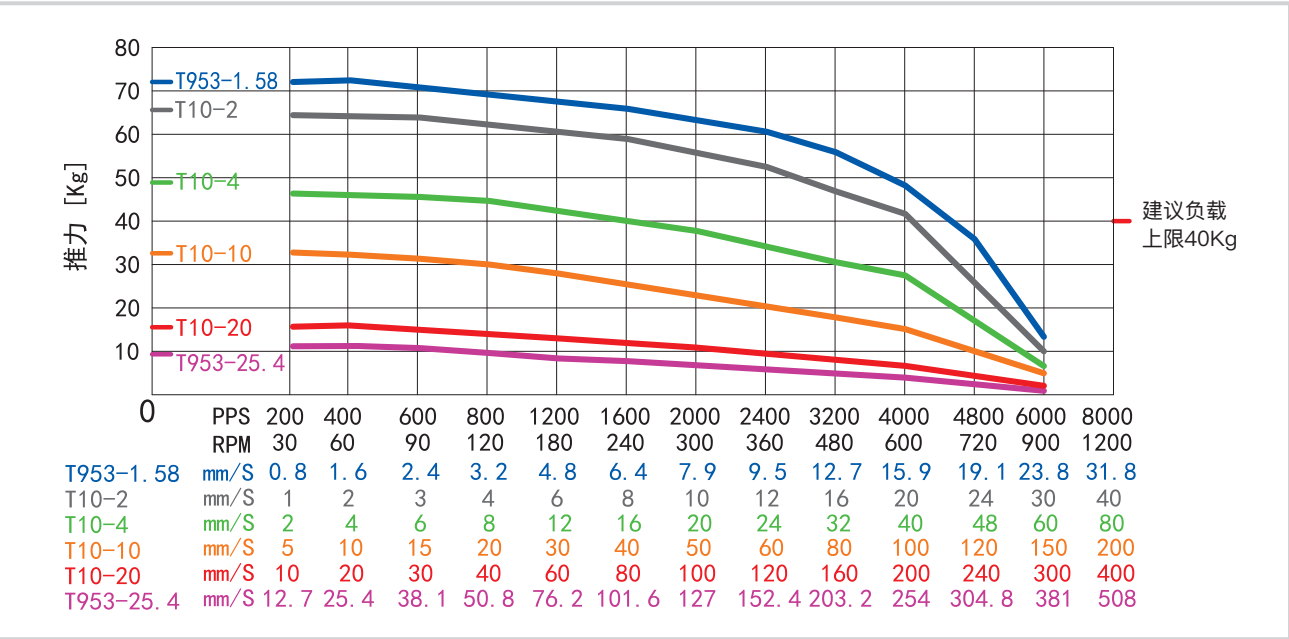
Force-Velocity Curve-23HS45



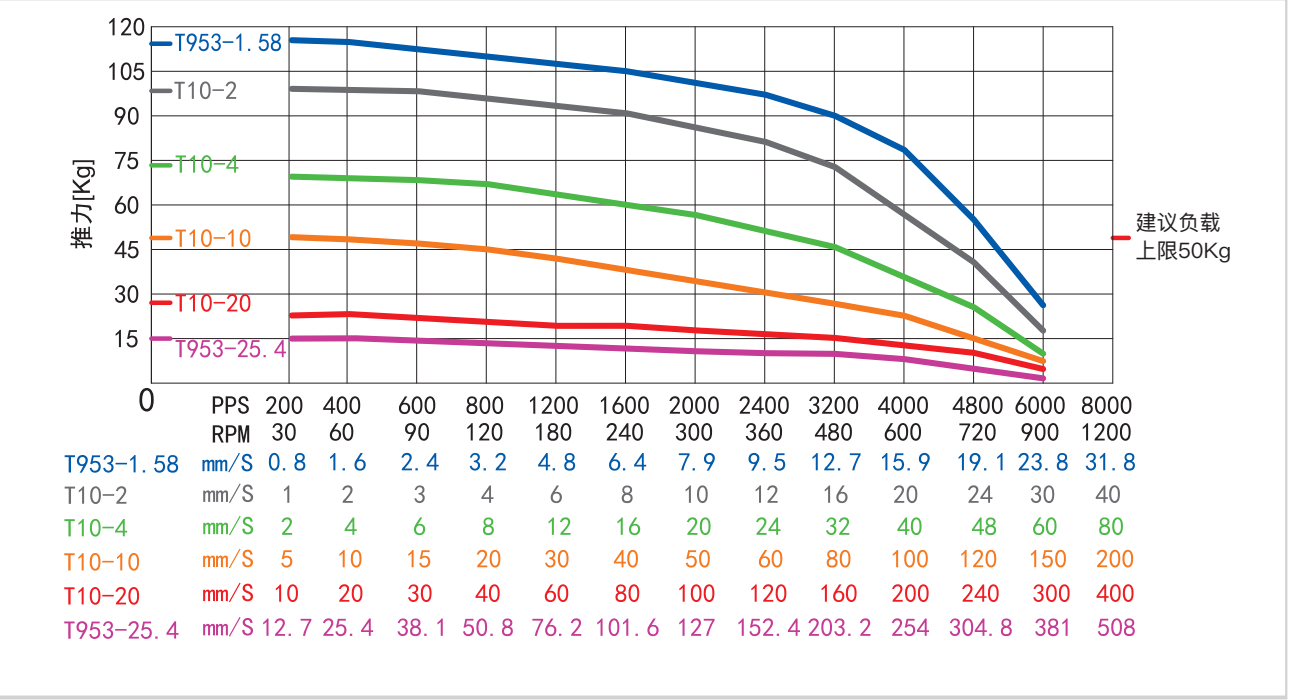
57mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 23

Force-Velocity Curve-23HS56



Force-Velocity Curve-23HS76



57mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA 23

NEMA23(57mm法兰)贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用
Nema17 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步



VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电流 Current per Winding A	2	3	4
静力矩 Holding Torque mN.m	0.7	1.3	1.6
相电阻 Resistance per Winding Ohm±10%	1.63	1.1	0.5
相电感 Inductance per Winding mH±20%	4.2	3.2	1.7
转子惯量 Rotor Inertia gcm ²	155	280	460
电机重量 Weight kg	0.5	0.62	1
电机高度 Length “L” mm	45	56	76
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available		
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)		

订货代号 ORDER IDENTIFIER

23HS45-L25.4-T5-2-E2000-P/B/X/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T953-1.58	9.525	1.5875	0.0079375
T953-25.4	9.525	25.4	0.127
T10-2	10	2	0.01
T10-4	10	4	0.02
T10-10	10	10	0.05
T10-20	10	20	0.1

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

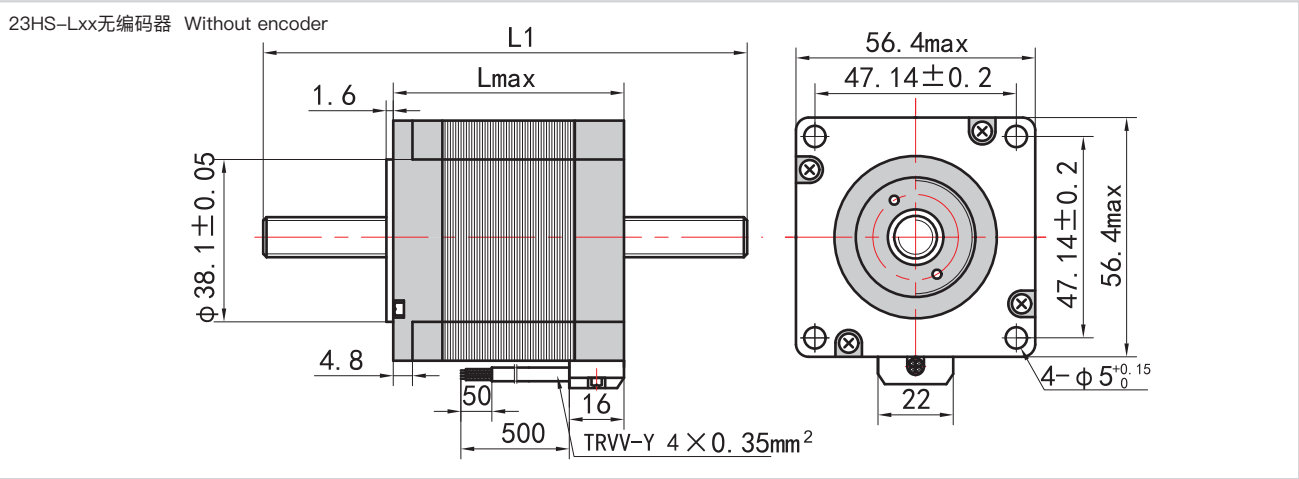
Encoder: 500-4000PCR

Motor Controllers / Drives

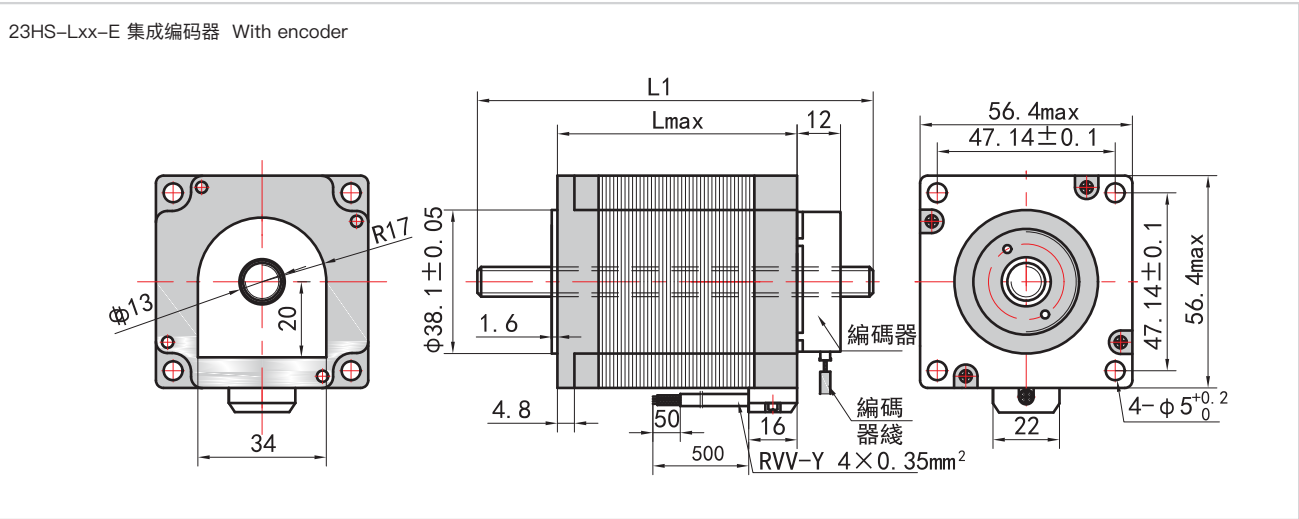
57mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA 23

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)



57mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw - NEMA 23

NEMA23(57mm法兰)贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用
Nema17 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide

Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	23HS45	23HS56	23HS76
相电流 Current per Winding A	2	3	4
静力矩 Holding Torque mN.m	0.7	1.3	1.6
相电阻 Resistance per Winding Ohm±10%	1.63	1.1	0.5
相电感 Inductance per Winding mH±20%	4.2	3.2	1.7
转子惯量 Rotor Inertia gcm ²	155	280	460
电机重量 Weight kg	0.5	0.62	1
电机高度 Length “L” mm	45	56	76
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available		
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)		

订货代号 ORDER IDENTIFIER

23HS45-LFxx-T5-2-E2000-P/B/X/C

LFxx =Fixed shaft type Stroke length xx mm
LFxx =固定轴式电机，行程xx毫米

T5-2= Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500~2000/BE17)
E2000=编码器（可选增量500~2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T953-1.58	9.525	1.5875	0.0079375
T953-25.4	9.525	25.4	0.127
T10-2	10	2	0.01
T10-4	10	4	0.02
T10-10	10	10	0.05
T10-20	10	20	0.1

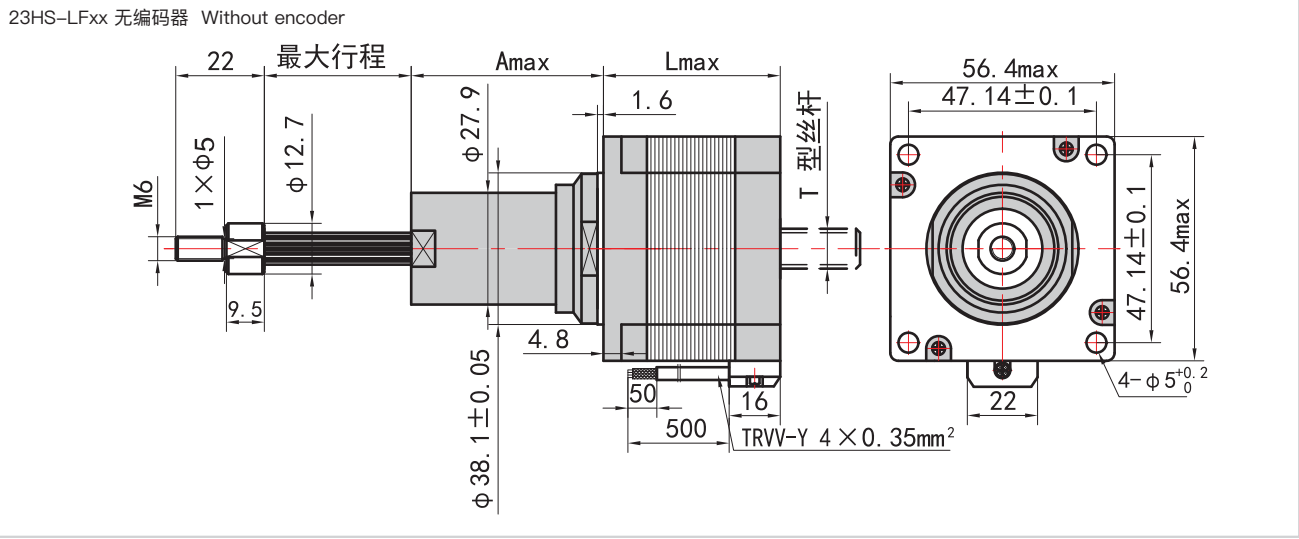
可选行程 Travel optional

Max.Stroke(mm) 最大行程	A(mm)
12.7	20.4
19.05	25.8
25.4	33.1
31.8	39.5
38.1	45.8
50.8	58.5
63.5	71.2

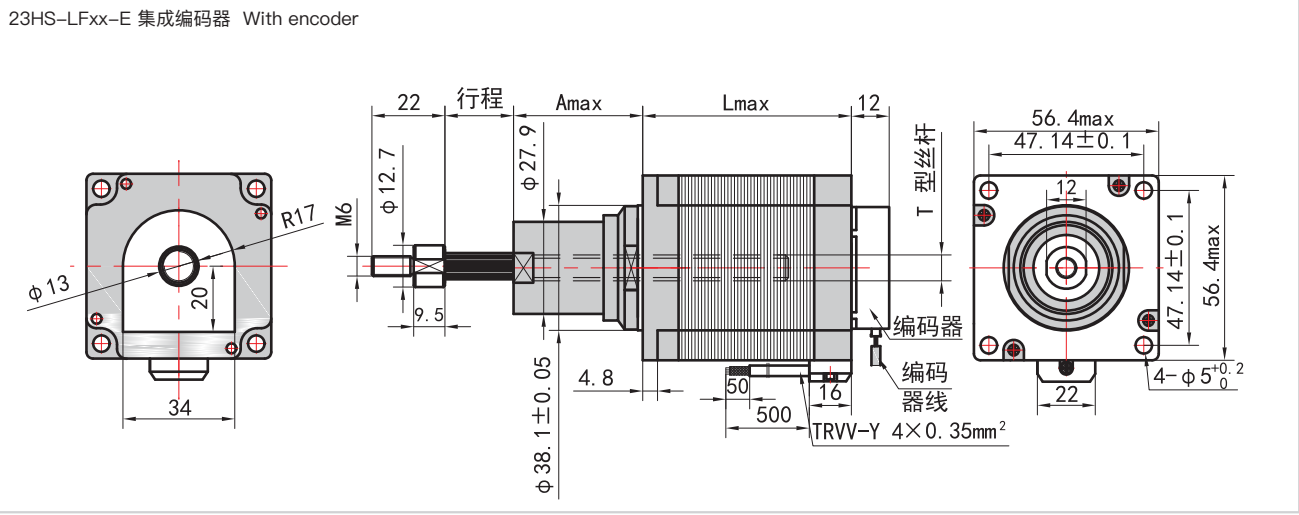
57mm法兰固定轴式直线步进电机

Fixed shaft Linear Actuator With T-Screw - NEMA 23

DIMENSIONS (IN MM)



DIMENSIONS (IN MM)

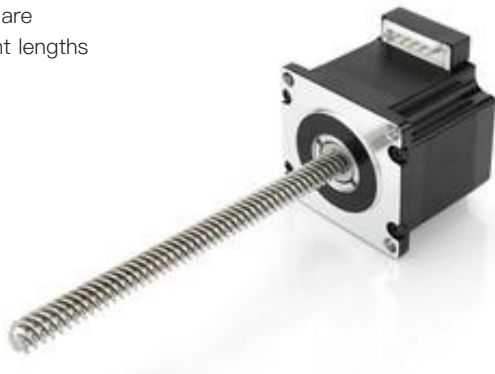


86mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 3 4

Nema34集成梯形丝杠电机，不带联轴器，电机与丝杠直接连接。 提供多种电机高度版本。 还提供用于位置反馈的内置编码器。

Nema34 integrated T screw motor, without coupling, the motor and screw are directly connected. Two motor height versions available. Screws of different lengths available.A built-in encoder for position feedback is also available.



Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	34HS76	34HS98
相电流 Current per Winding A	4	6
静力矩 Holding Torque mN.m	3.5	7
相电阻 Resistance per Winding Ohm±10%	0.5	0.4
相电感 Inductance per Winding mH±20%	3.7	3.8
转子惯量 Rotor Inertia gcm ²	1400	1700
电机重量 Weight kg	1.4	2.7
电机高度 Length “L” mm	76	98
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

34HS76-LE100-T16-3-E2000-P/B/X/C

LExx =Externally driven Screw length xx mm

LExx =外部驱动式电机，丝杆长度xx毫米

T16-3 = Screw Diameter 16mm Lead 3mm

T16-3 = 丝杆 直径16毫米 导程3毫米

E2000=Encoder (Optional E500-2000/BE17)

E2000=编码器（可选增量500~2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output

C-Customer Definition)

P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T16-3	16	3	0.015
T18-3	18	3	0.015
T14-4	14	4	0.02

可选配件 ACCESSORIES

ZK-ENC-500 Encoder Cable 0.5m

Encoder: 500-4000PCR

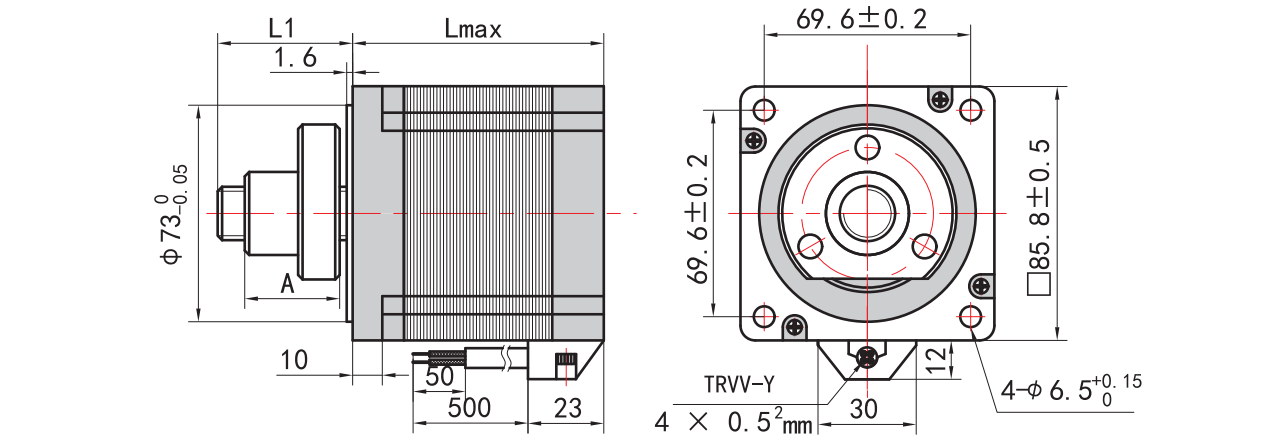
Motor Controllers / Drives

86mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 34

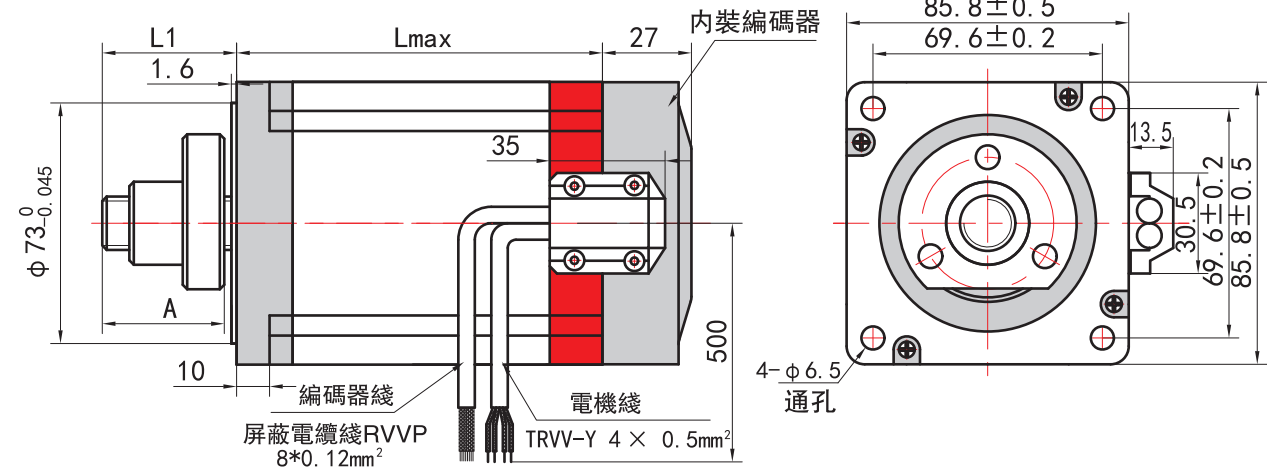
DIMENSIONS (IN MM)

34HS01-LExx 无编码器 Without encoder



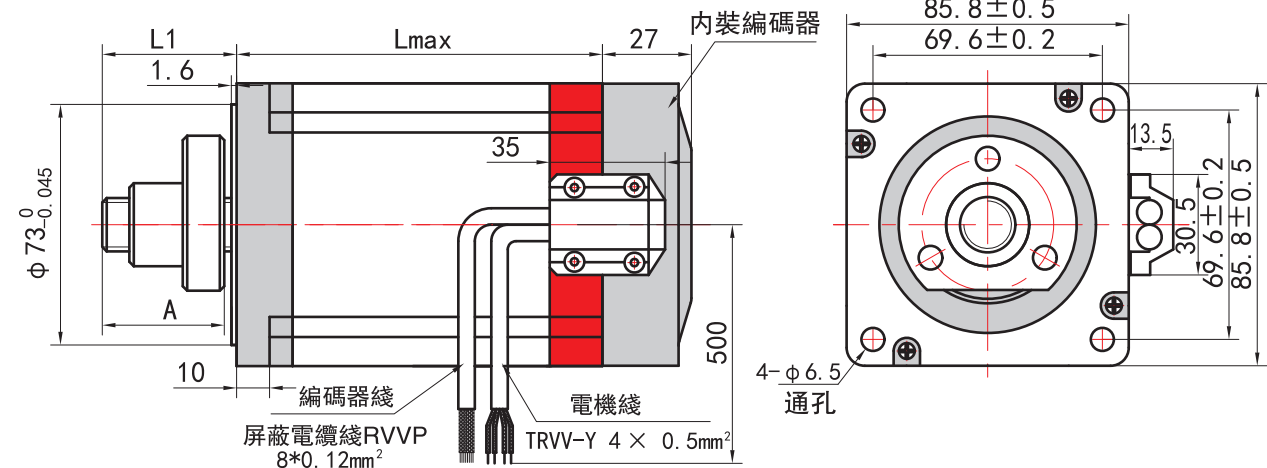
DIMENSIONS (IN MM)

34HS-LExx-E 集成编码器 With encoder



DIMENSIONS (IN MM)

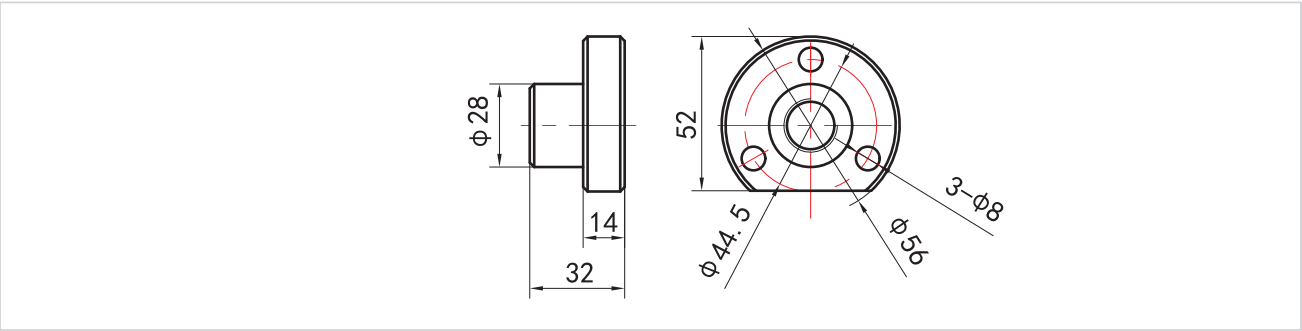
34HS-LExx-BE17 集成多圈绝对值编码器 With Multi-Turn Absolute Encoder



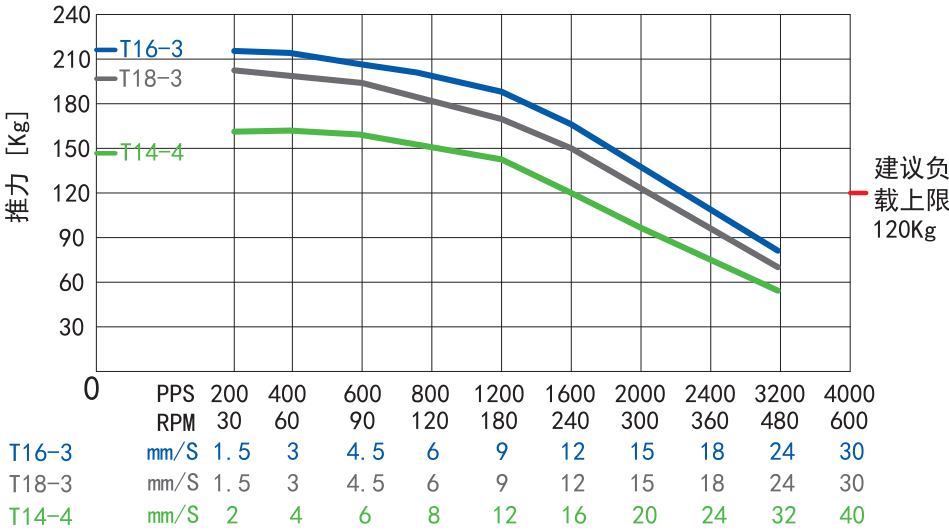
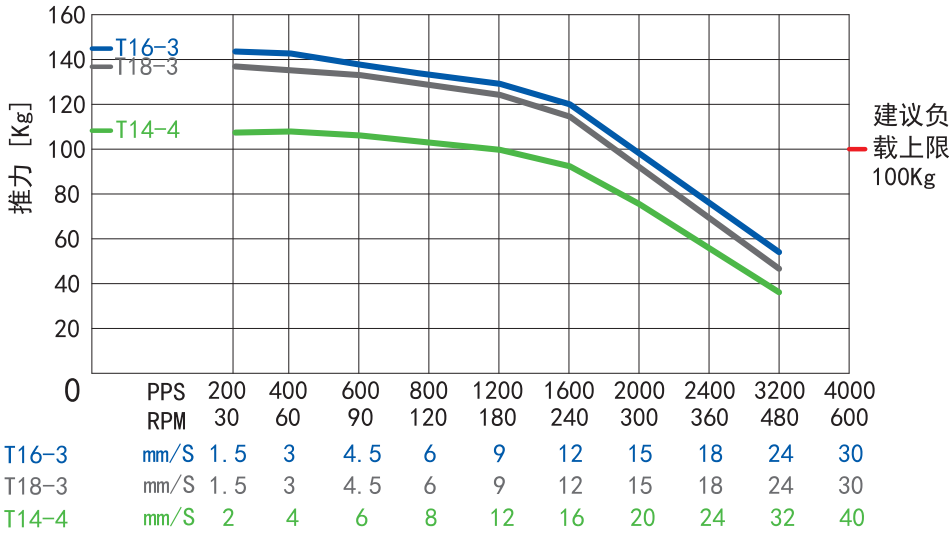
86mm法兰外部驱动式T型直线步进电机

External Linear Actuator With T-Screw - NEMA 34

DIMENSIONS (IN MM)



Force-Velocity Curve-34HS76 & 34HS98



86mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA 34

NEMA34(86mm法兰)贯通轴式直线电机是贯通式的线性执行器，结构紧凑，传动效率和定位精度高。可选装高分辨率的贯通编码器配合高定位使用
Nema34 through-axis linear actuators integrate T screws and two-phase stepper motors. Additional encoder can also provide



Feature

- Integrated structure 一体化结构
- Multiple specifications available 提供多种规格
- Longer life and higher accuracy 更长的寿命和更高的精度
- Different lengths available 提供不同长度
- A built-in encoder available. 提供内置编码器。
- Motor Controllers / Drives available 电机控制器/驱动器可用
- 0.0002mm/step with our controlle 使用控制器时，0.0002mm /步

VERSIONS

系列代码 Series models	34HS76	34HS98
相电流 Current per Winding A	4	6
静力矩 Holding Torque mN.m	3.5	7
相电阻 Resistance per Winding Ohm±10%	0.5	0.4
相电感 Inductance per Winding mH±20%	3.7	3.8
转子惯量 Rotor Inertia gcm ²	1400	1700
电机重量 Weight kg	1.4	2.7
电机高度 Length “L” mm	76	98
螺杆长度 Screw length*L1	不同螺杆长度 Different lengths available	
反馈装置 Feedback	伺服（闭环）版本 Encoder(Closed-loop version)	

订货代号 ORDER IDENTIFIER

23HS76-L25.4-T5-2-E2000-P/B/X/C

Lxx =Through-shaft Screw length xx mm
Lxx =贯通式直线电机，丝杆长度xx毫米

T5-2 = Screw Diameter 5mm Lead 2mm
T5-2 = 丝杆 直径5毫米 导程2毫米

E2000=Encoder (Optional E500-2000/BE17)
E2000=编码器（可选增量500-2000CPR/17位多圈）

P/B/X/C= (P-Handwheel B-Brake X-Rear output
C-Customer Definition)
P/B/X/C= (P-手轮 B-刹车 X-后出轴 C-客户定义)

注：-E和BE版本请与我们确认供货状态

可选螺杆 Screw optional

Screw 丝杠代码	Diameter(mm) 直径	Lead(mm) 导程	Step(mm) 步长
T16-3	16	3	0.015
T14-3	14	3	0.15
T14-4	14	4	0.02
T12-12	12	12	0.06

可选配件 ACCESSORIES

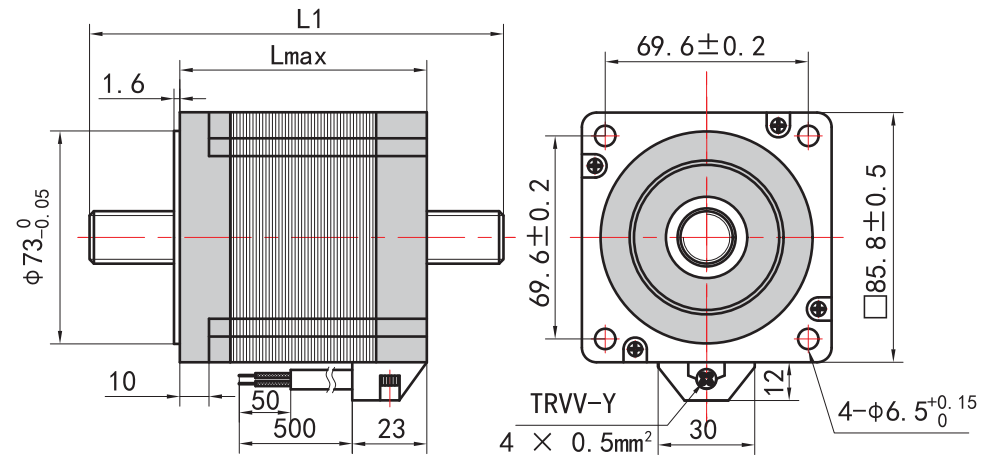
Motor Controllers / Drives

86mm法兰贯通式T型直线步进电机

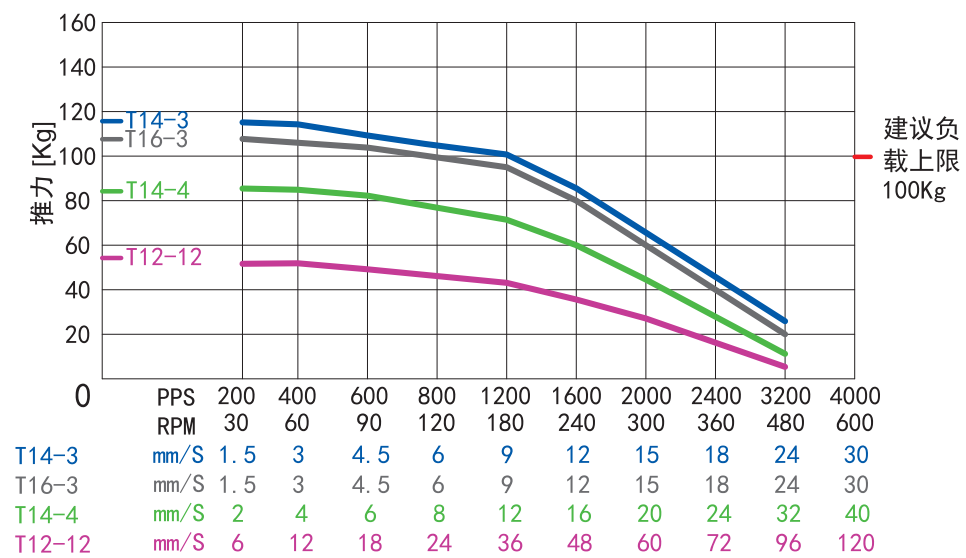
Through-shaft Linear Actuator With T- Screw - NEMA34

DIMENSIONS (IN MM)

34HS-Lxx 无编码器 Without encoder



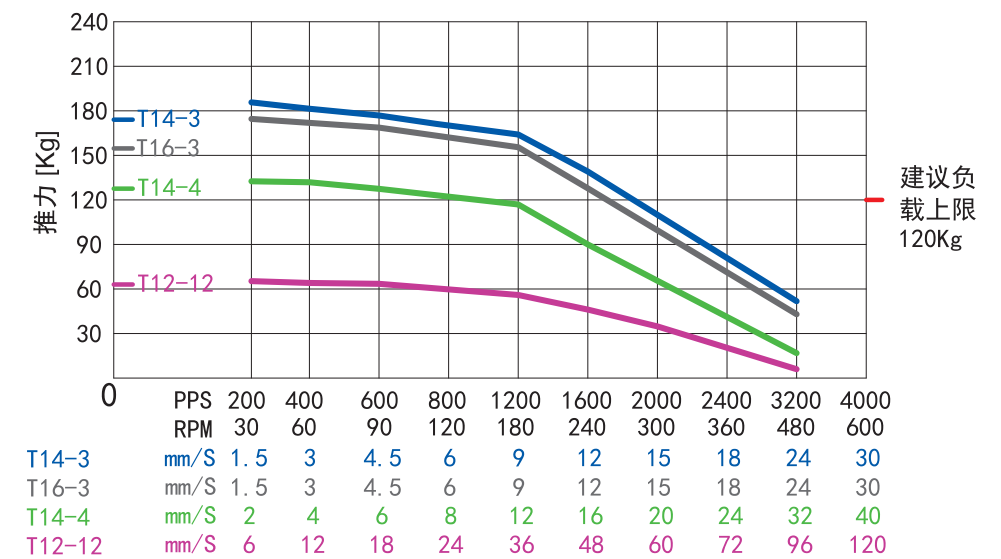
Force-Velocity Curve-34HS76



86mm法兰贯通式T型直线步进电机

Through-shaft Linear Actuator With T- Screw - NEMA 34

Force-Velocity Curve-34HS98



- 步进电机 – 采用编码器或微步进静音技术的伺服系统
- 无刷直流电机 – 采用编码器或霍尔驱动器的伺服系统
- 位置、速度和扭矩 - PID 控制回路
- EtherCAT、EtherNet/IP、CANopen、USB、Modbus TCP 和 RTU (RS485) – 完全可编程！
- 步进和脉冲可选任意分辨率
- 通过模拟输入端进行位置、速度或扭矩控制



	N5	C5	C5-E
工作电压	12-72V（低电流） 12-48V（高电流）	12-48V	12-48V
额定电流	10A（低电流） 18A（高电流）	6A	6A（低电流） 10A（高电流）
峰值电流	10A（低电流） 40A（高电流）	6A	6A（低电流） 30A（高电流）
编码器输入	✓	-	✓
刹车输出	✓	-	✓
接口	CANopen, EtherCAT, Ethernet/IP Modbus RTU (RS485), Modbus TCP	USB	CANopen, EtherCAT, EtherNet/ IPUSB, Modbus RTU (RS485), Modbus TCP
输入/输出端	6 个数字输入端 2 个模拟输入端 2 个数字输出	3 个差分输入端 3 个数字输入端 1 个模拟输入 2 个数字输出	5 个数字输入端 2 个模拟输入端 3 个数字输出



	CL3-E	CL4-E	CPB-3
工作电压	12-24V	12-58V	12-57.6V
额定电流	3A	3A（低电流） 6A（高电流）	3A
峰值电流	3A（低电流） 6A（高电流）	6A（低电流） 18A（高电流）	3 A（低电流） 9 A（高电流）
编码器输入	✓	✓	✓
接口	USB, CANopen, Modbus RTU (RS485, RS232)	USB, CANopen, Modbus RTU, USB	EtherCAT USB
输入/输出端	5 个数字输入端 2 个模拟输入端 3 个数字输出	4 数字输入 1 个模拟输入 2 个数字输出	4个数字输入 2个数字输出 1个模拟输入 1个刹车输出