

Integrated Controller Rod Type – EQY#H EQY16D2HA-300-B6

Datasheet

General series information

- IO-Link compatible
- Body size: 16, 25 and 32 mm
- Ball screw actuation type
- Stroke: 30 to 500 mm
- Horizontal work load: up to 100 kg
- Vertical work load: up to 46 kg
- Speed: up to 900 mm/s
- Horizontal acceleration: up to 10000 mm/s²
- Vertical acceleration: up to 5000 mm/s².

Standard specifications

Size	16
Motor Mounting Position	D2 (In-line, Right Side)
Motor Type	H (Battery-less Absolute, Step Motor 24 VDC)
Lead	A (Size 16: 10 mm, Size 25: 12 mm, Size 32: 16 mm)
Stroke	300 mm
Motor Option	Without Option
Rod End Thread	Rod End Female Thread
Mounting	Ends Tapped/Body Bottom Tapped
Controller Position	B (Integrated Controller)
Interface (Parallel Input/Output/Communication Protocol)	6 (PNP)
Conform to the European RoHS Directive	Conform
Positioning repeatability	±0.02 mm
Lost motion	0.1 mm or less

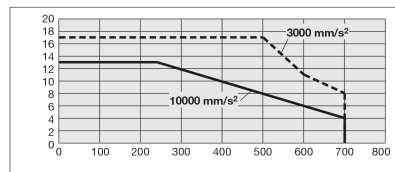
Impact/Vibration resistance	50/20 m/s ²
Actuation type	Ball screw + Belt (EQY#H), Ball screw (EQY#DH)
Operating humidity range	90 % RH or less (No condensation)
Motor type	Battery-less absolute (Step motor 24 VDC)
Encoder	Battery-less absolute
Horizontal work load	17 kg
Vertical work load	3 kg
Speed	15 - 700 mm/s
Max. Acceleration/deceleration	Horizontal: 10000 mm/s ² Vertical: 5000 mm/s ²
Power Consumption	82 W
Operating temperature range	5 - 40 °C
Lock: Holding force	29 N
Guide type	Sliding bushing (Piston rod)
Motor size	28
Lock unit power consumption	5 W
Lock unit rated voltage	24 VDC ±10 %
Technical graph 1	7054ED_graph9_en.jpg
Graph1 title	Speed–Work Load Graph

Technical information graphs

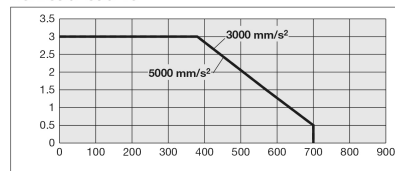
Speed–Work Load Graph

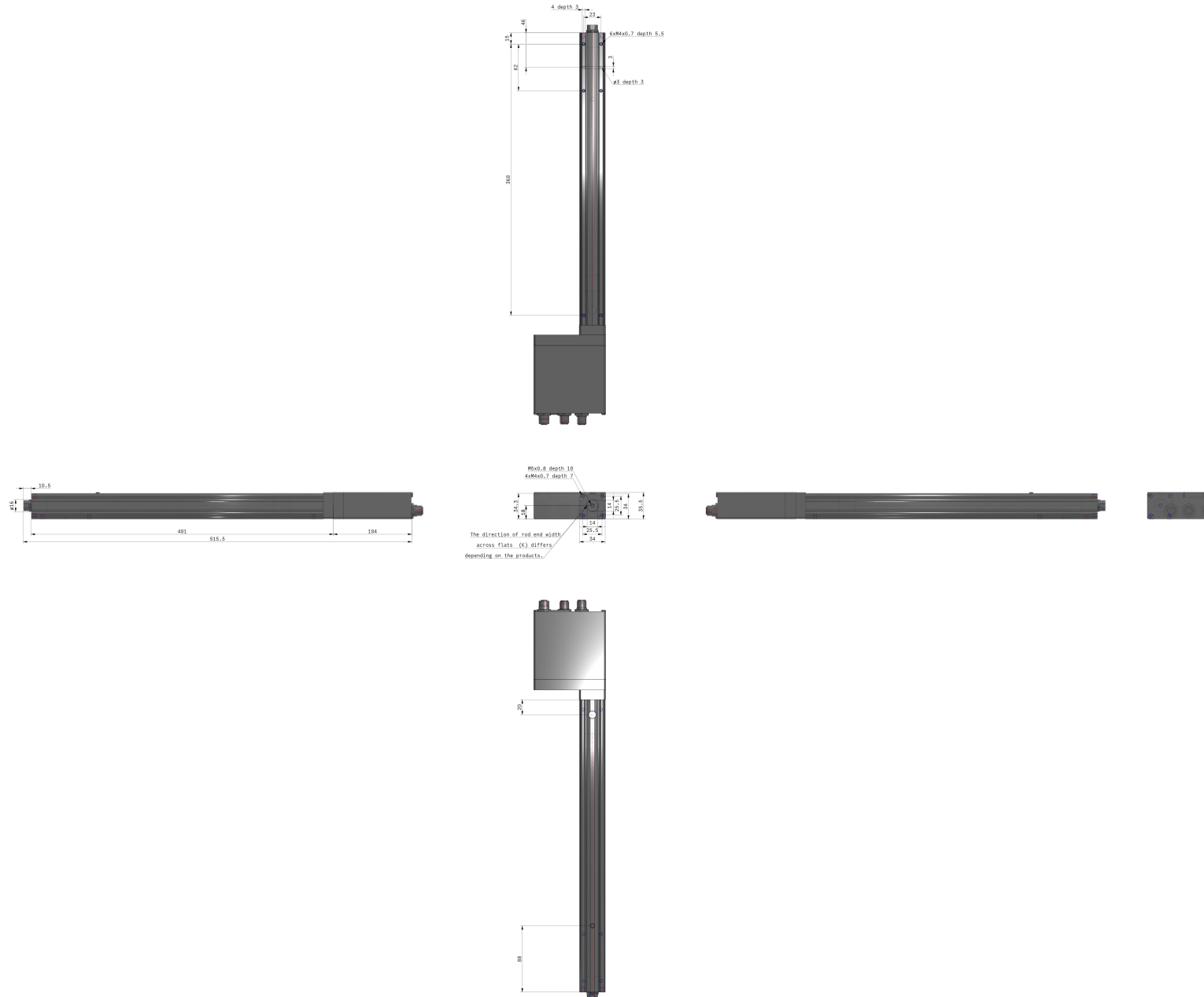
EQY16□HA

Horizontal/Lead 10

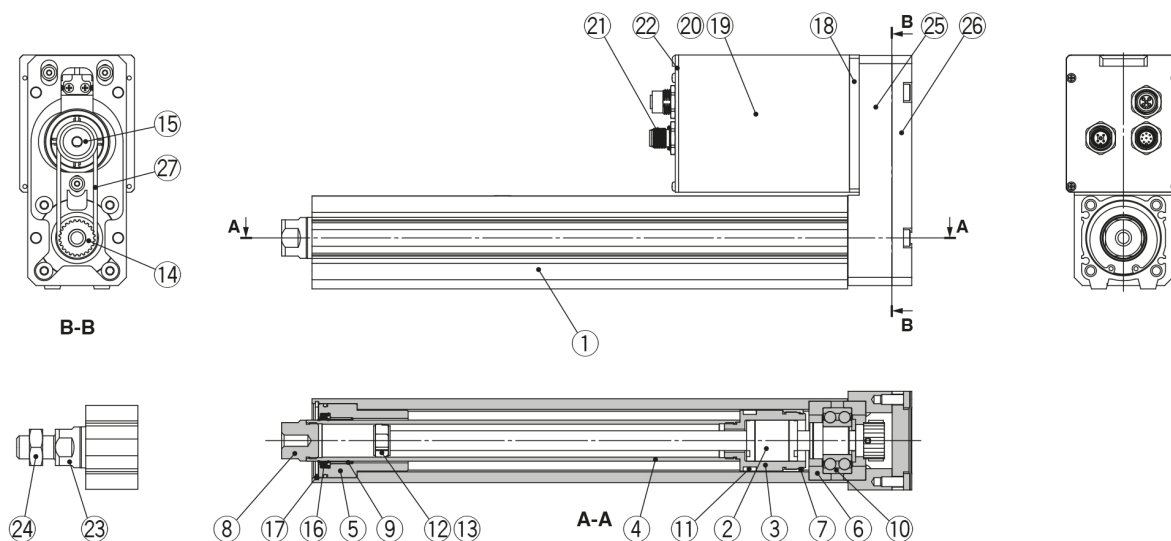


Vertical/Lead 10

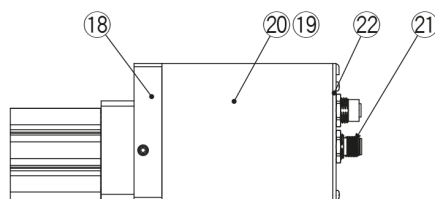




Constructions



In-line motor



Component Parts

No.	Description	Material	Note
1	Body	Aluminium alloy	Anodised
2	Ball screw assembly	—	
3	Piston	Aluminium alloy	
4	Piston rod	Stainless steel	Hard chrome plating
5	Rod cover	Aluminium alloy	
6	Bearing holder	Aluminium alloy	
7	Rotation stopper	Synthetic resin	
8	Socket (Female thread)	Free cutting carbon steel	Nickel plating
9	Bushing	Bearing alloy	
10	Bearing	—	
11	Magnet	—	
12	Wear ring holder	Stainless steel	101 mm stroke or more
13	Wear ring	Synthetic resin	101 mm stroke or more
14	Screw pulley/hub	Aluminium alloy	
15	Motor pulley/hub	Aluminium alloy	
16	Seal	NBR	
17	Retaining ring	Steel for spring	
18	Motor adapter	Aluminium alloy	Anodised
19	Motor	—	
20	Motor cover	Aluminium alloy	Anodised
21	Connector	—	
22	End cover	Aluminium alloy	Anodised
23	Socket (Male thread)	Free cutting carbon steel	Nickel plating/ Rod end male thread
24	Hexagon nut	—	Rod end male thread

Component Parts (Top/Right/Left side parallel only)

No.	Description	Material	Note
25	Return box	Aluminium die-casted	Coating
26	Return plate	Aluminium die-casted	Coating
27	Belt	—	

Additional information

Catalogue	EQFSH-EQYH-EQYGH-D_EU.pdf
Declaration of conformity	newDoC_EQY_TF122-175EN-B.pdf
Installation manuals	IM_EQYxH_TF222-152EN-B.pdf
Operation manuals	OM_EQY_DOC1023126EN-1.pdf OM_JXC_OMA1006EN-D.pdf OM_EQ_DOC1138459EN-1.pdf