



Specification

Model	MESH2		
Size	16	20	
Position repeatability (mm)	±0.02		
Lead (mm)	2	2	8
Maximum speed *1 (mm/s)	≤50	≤100	≤400
Work load *2 (kg)	Horizontal	3	1.5
	Vertical	0.8	0.8
Pushing force *1,3,4 (N)	24 ~ 68	64 ~ 195	18 ~ 48
Stroke (mm)	30 / 50		
Motor size (mm)	□20	□28	
Encoder	Incremental A/B/Z (4000PPR)		
Rated voltage	DC 24V±10%		

*1. The speed and force may change depending on the cable length, load, stroke and mounting conditions.

*2. The maximum load capacity decreases as the speed increases.

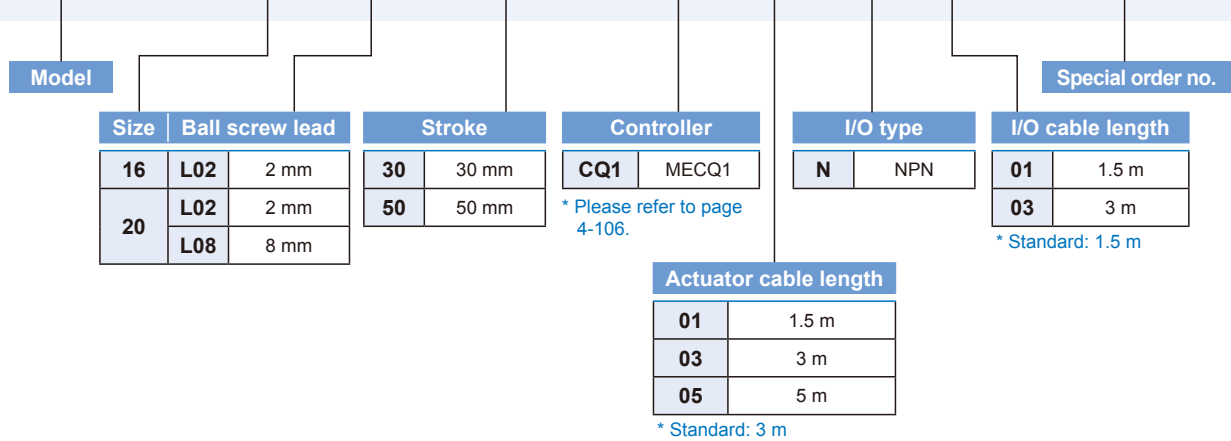
*3. The accuracy of pushing force is ± 20%.

*4. Pushing force for MESH2 is from 30% to 90%.

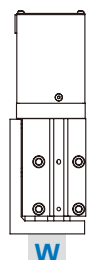
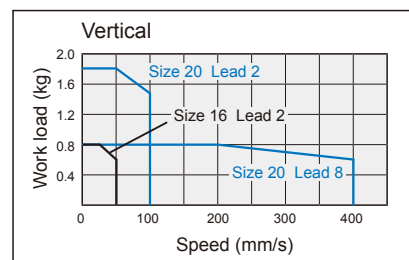
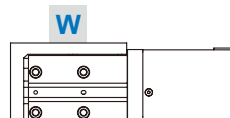
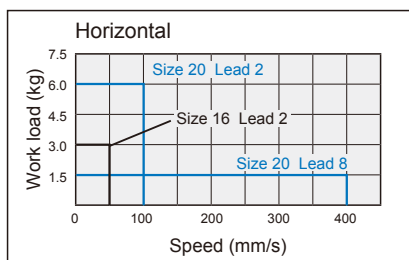
Motor type	Step motor	Transmission	Ball screw
Environment	Standard	Guide type	Linear guideway

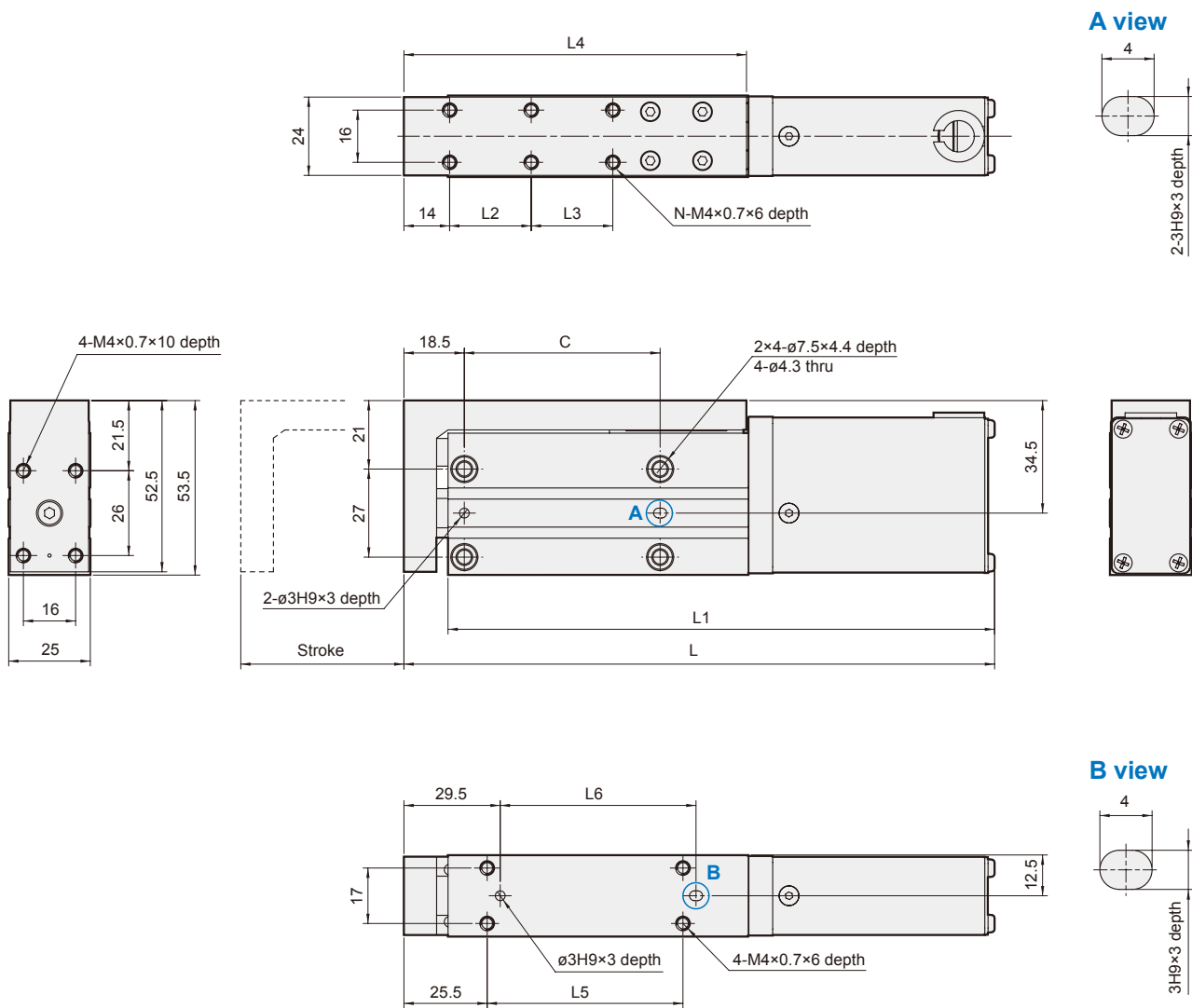
Order example

MESH2 - 16 L02 - 30 - CQ1 03 N 01 - XA00



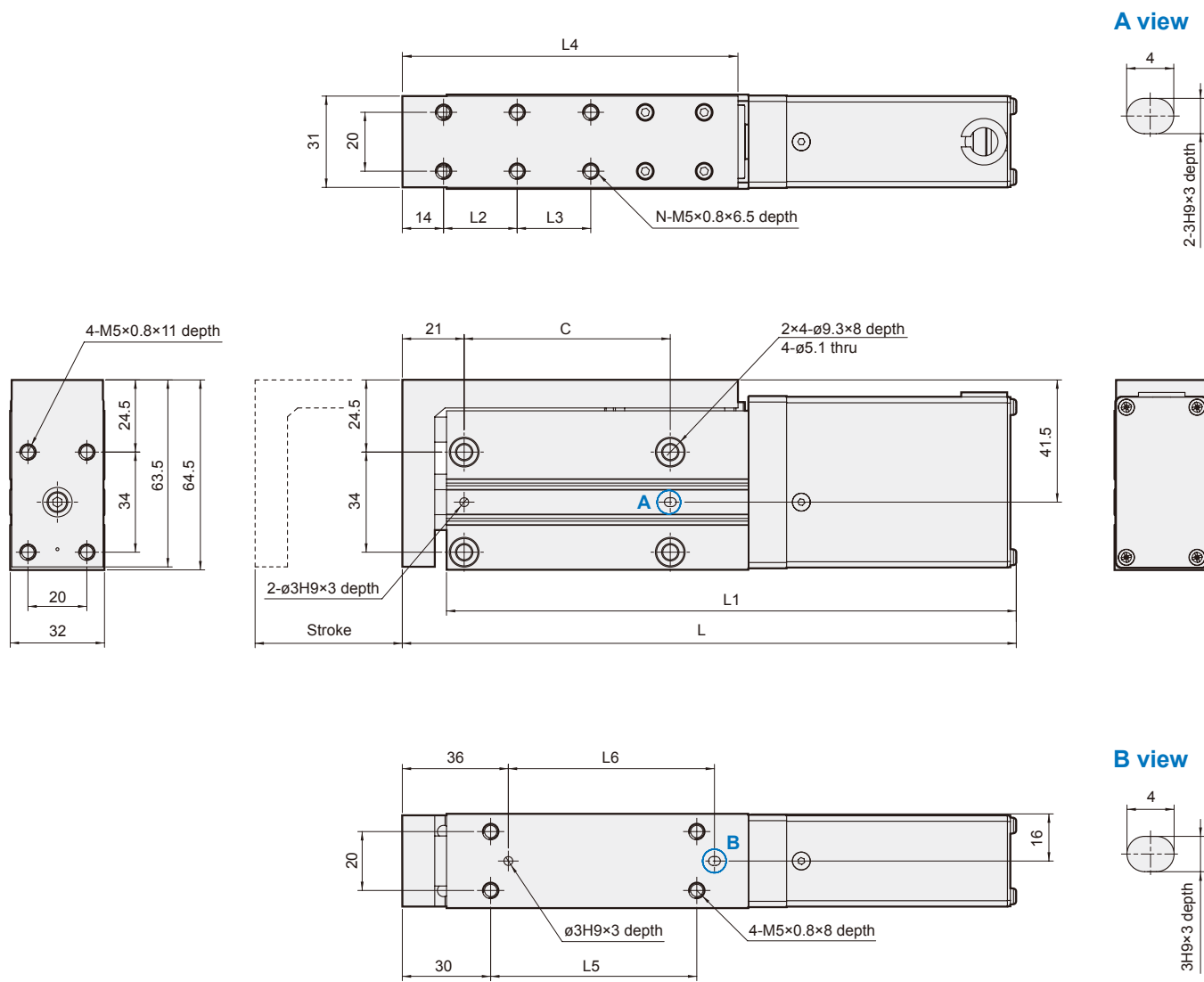
Speed-work load curve diagram





Unit: mm

Stroke	C	L	L1	L2	L3	L4	L5	L6	N	Weight (g)
30	40	161	147.5	30	-	85	40	40	4	500
50	60	181	167.5	25	25	105	60	60	6	562



Unit: mm

Stroke	C	L	L1	L2	L3	L4	L5	L6	N	Weight (g)
30	40	188.5	173.5	30	-	97	40	40	4	950
50	70	208.5	193.5	25	25	114	70	70	6	1049



Specification

Model	MECQ1	
Input voltage	DC 24V ±10%	
Number of axis	Control 16 axes by daisy-chaining through RS-485 port	
Dimension (mm)	W134 × H83 × D26.5	
Motor size	□20 / □28 / □35 / □42 / □56	
Encoder	Incremental A/B/Z (4000PPR)	
Operation mode	I/O trigger, Communication control	
Motion control mode	ABS mode	
	INC mode	
	Continuous mode	
	Push mode	
Position	Number of rows	256
	Rows setting	I/O, Software

Order example

MECQ1 – 20L

Controller

Motor size

Motor size	Motor size
20L	□20
28L	□28
35L	□35
42L	□42
56L	□56

Accessories

MECQ1 – S015

Controller

Cable length

I/O signal cable

Cable length	Cable length
S015	1.5 m
S03	3 m

Actuator cable*

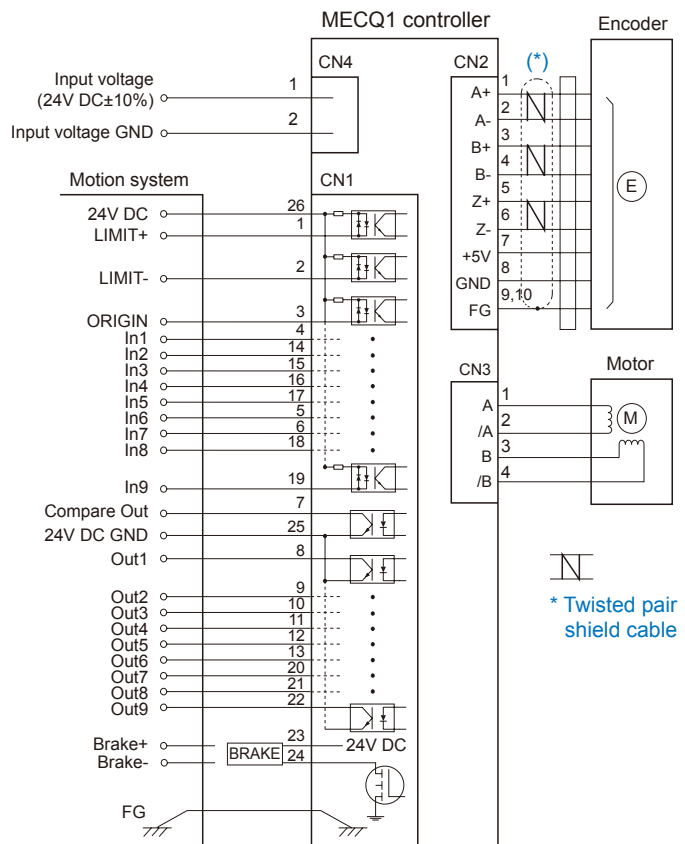
Actuator cable*	Actuator cable*
M015	1.5 m
M03	3 m
M05	5 m

Power connection

P

* Actuator cable = Encoder cable + motor cable

External wiring diagram

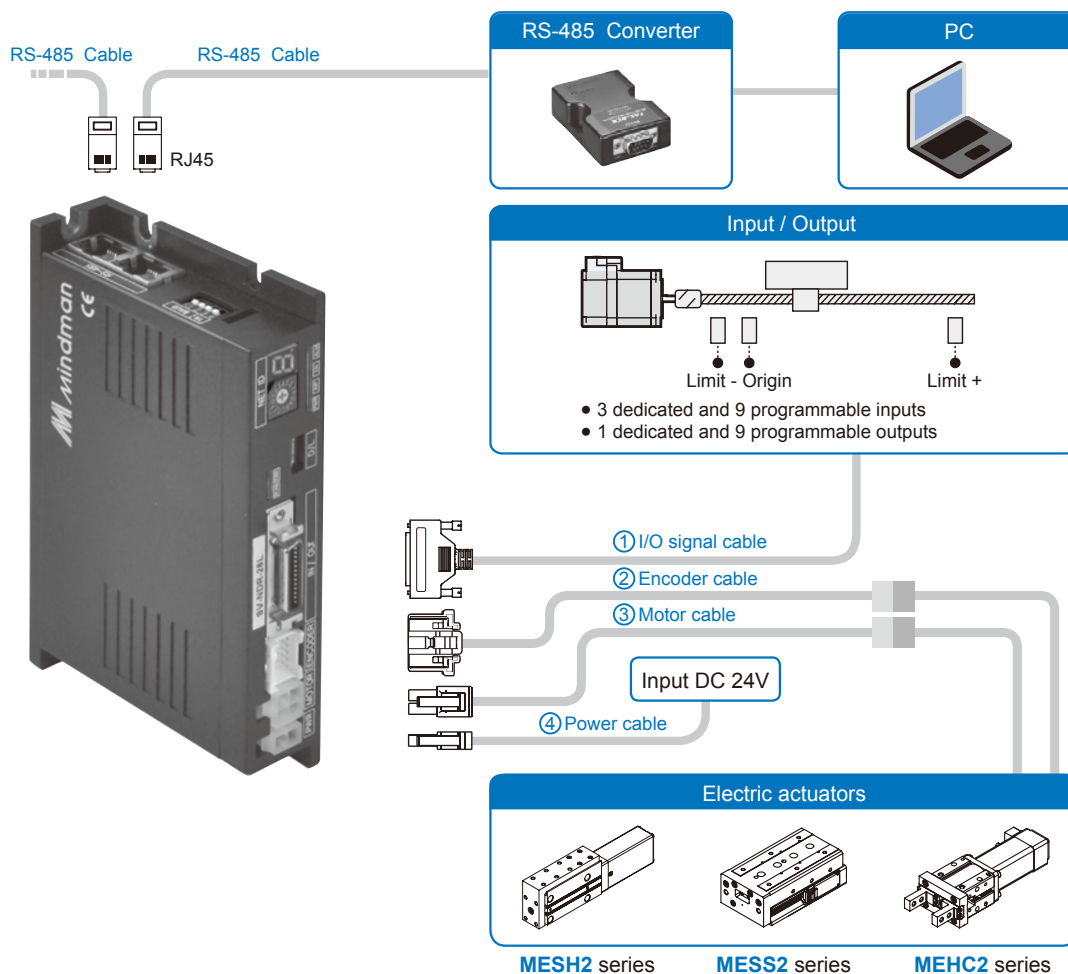


Caution

- Please refer to the manual when connects motor extension cable.
- Careful connection will be required to protect any damages.

MECQ1 Motor controller – System configuration

ELECTRIC CYLINDER CONTROLLER



Accessories

No.	Purpose	Item	Note	Exterior		
①	I/O signal cable	Shell	10326-52FO-008	Isolation		
		Connector	10126-3000PE			
②	Encoder cable	Drive side	Housing	51353-1000	Isolation + Flexible	
		Terminal	56134-9000			
	Encoder side	Housing	SMP-09V-NC			
	Terminal	SHF-001T-0.8BS				
③	Motor cable	Drive side	Housing	5557-04R	Flexible	
		Terminal	5556T			
	Motor side	Housing	5557-04R			
	Terminal	5556T				
④	Power connection	Housing	5557-02R	Housing and terminal only		
		Terminal	5556T			