

Ironcore Linear motor_ AFS Series

Force

- Peak: 150-1500N
- Continuous: 50-500N

Maximum Velocity

- 4m/s

Built-in Feedback (Optional)

- Can built-in position sensor

Range of motion

- 5mm-6000mm



AFS Series Electrical Specification:

Parameters	Unit	AFS15-1	AFS15-2	AFS18-5	AFS18-10
Peak force	N	150	300	750	1500
Continuous force	N	50	100	250	500
Peak current	A	4.2	4.2	9.0	15.0
Continuous current	A	1.4	1.4	3.0	5.0
Force constant	N/Arms	35.7	71.4	83.0	100.0
Back EMF constant	Vpk/m/s	27.5	55.0	68.0	81.6
Max speed	m/s	4	4	4	4
Peak acceleration	m/s/s	150	150	250	250
Encoder	um	0.1-5	0.1-5	0.1-5	0.1-5
Inductance (phase to phase)	mH	18	36	65	36
Resistance	omiga	10.0	20.0	5.5	4.5
Pole pitch	mm	18	18	36	36
Forcer size	mm	150*40*21	150*67*21	184*70*30	184*120*30
Forcer weight	kg	670	1340	2210	3730
Magnet rail weight	g/mm	2.16	4.32	4.63	9.87

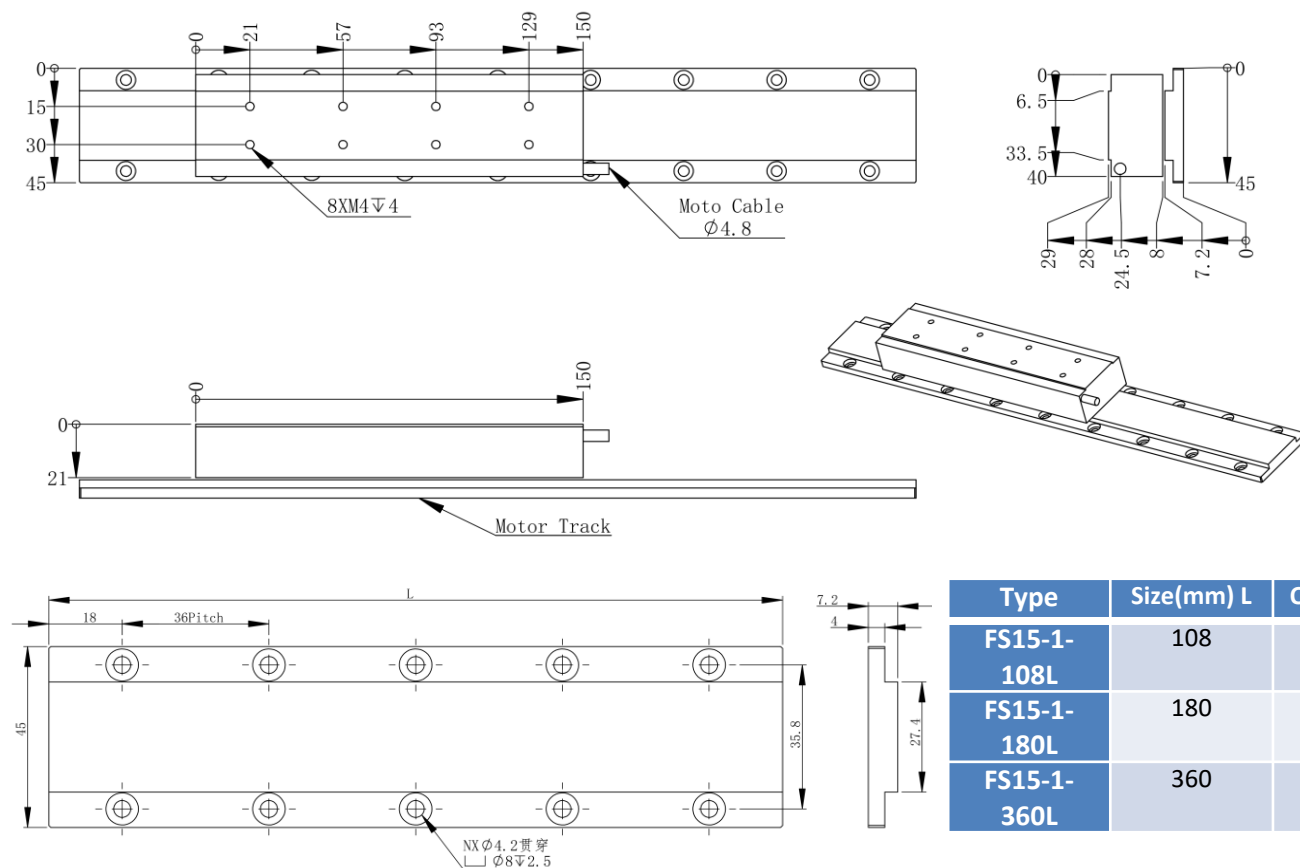
Motor Power Cable:

Color	White	Yellow	Red	Black
Sign	U	V	W	PE

Outline Dimension (Unit: mm)

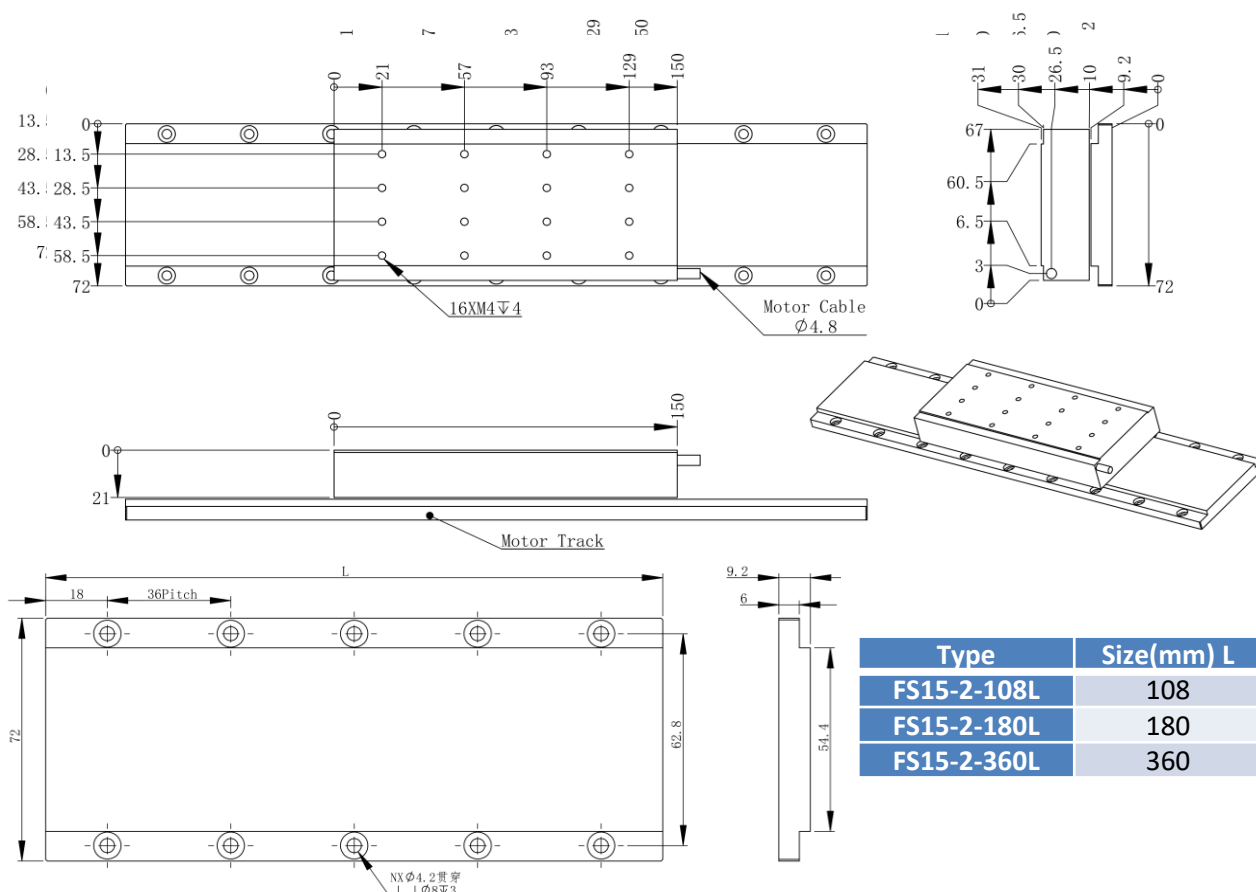
*Distance of Forcer and motor track: 0.8mm

AFS15-1 Series(Unit: mm):



Type	Size(mm) L	Qty(pcs) N
FS15-1-108L	108	3
FS15-1-180L	180	5
FS15-1-360L	360	10

AFS15-2 Series (Unit: mm):

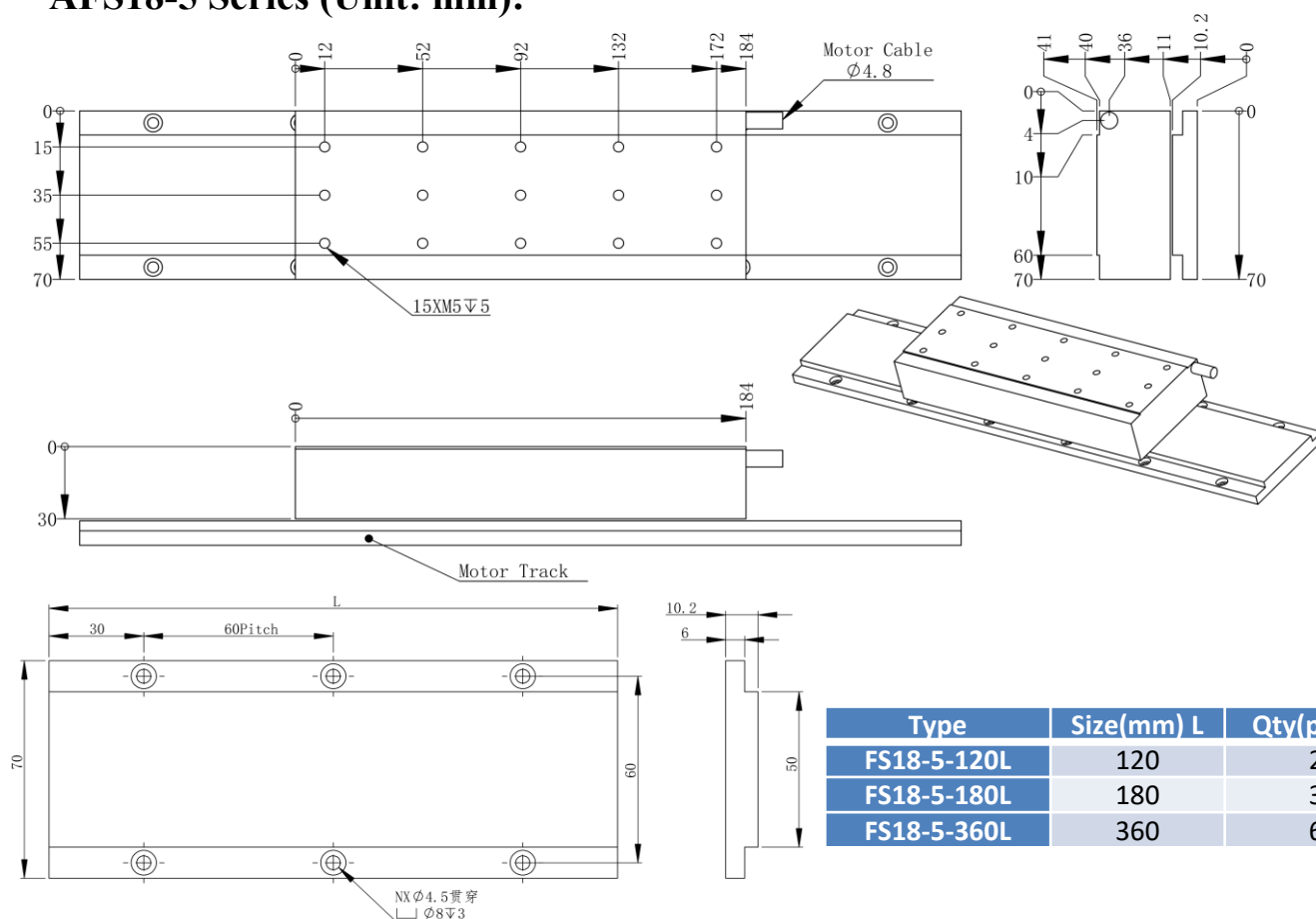


Type	Size(mm) L	Qty(pcs) N
FS15-2-108L	108	3
FS15-2-180L	180	5
FS15-2-360L	360	10

Outline Dimension (Unit: mm)

*Distance of Forcer and motor track: 0.8mm

AFS18-5 Series (Unit: mm):



AFS18-10 Series (Unit: mm):

