

Technical Specification

DX30

DX30 Standard Linear Servo Motor

Parallel Connected Coils

Parameter	Unit		DX30-C2P	DX30-C3P	DX30-C4P
Continuous Force	N		72	108	144
Peak Force	N		267	400	533
Motor Constant	N/SqRt(W)		8.89	10.89	12.57
Force Constant	N/Amp		13.3	20.0	26.7
Back EMF Constant	V/m/s		18.1	27.2	36.2
Continuous Current	Amps		5.4	5.4	5.4
Peak Current	Amps		20	20	20
Inductance	mH		1.6	2.3	3.1
Phase Resistance@25°C	ohms		2.3	3.4	4.5

Series Connected Coils

Parameter	Unit	DX30-C1S	DX30-C2S	DX30-C3S	DX30-C4S
Continuous Force	N	36	72	108	144
Peak Force	N	133	267	400	533
Motor Constant	N/SqRt(W)	6.29	8.89	10.89	12.57
Force Constant	N/Amp	13.3	26.7	40.0	53.3
Back EMF Constant	V/m/s	18.1	36.2	54.3	72.4
Continuous Current	Amps	2.7	2.7	2.7	2.7
Peak Current	Amps	10	10	10	10
Inductance	mH	3.1	6.2	9.3	12.4
Phase Resistance @25 C°	ohms	4.5	9.0	13.5	18.0

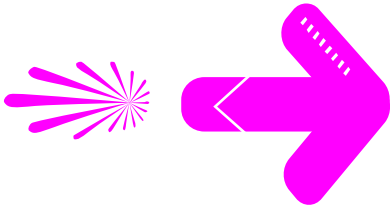
Continuous Power	W	32.8	65.6	98.4	131.2
Peak Power	W	450	900	1350	1800
Coil Weight	gm	225	393	561	729
Coil Length(L)	mm	100	160	220	280

Notes:

- All coils are built with normally closed thermostat sensor for over temperature protection. Thermistor option is also available.
- Standard cable length = 2 metres. Other length options are available.
- Standard coil comes with digital hall sensor.

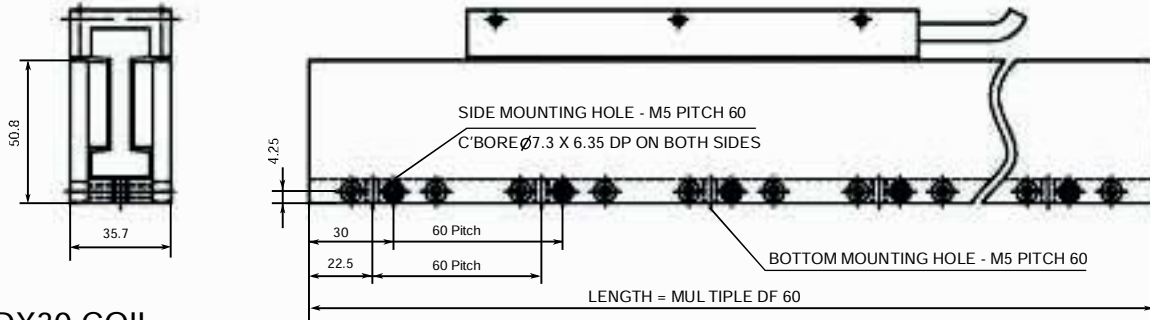
DX30 Standard Magnet Track

- Track length comes in standard length of 300, 600 and 900mm. Custom lengths are available in incremental of 30mm.
- Minimum track length is 240mm.
- Track weight = 570gm per 60mm.

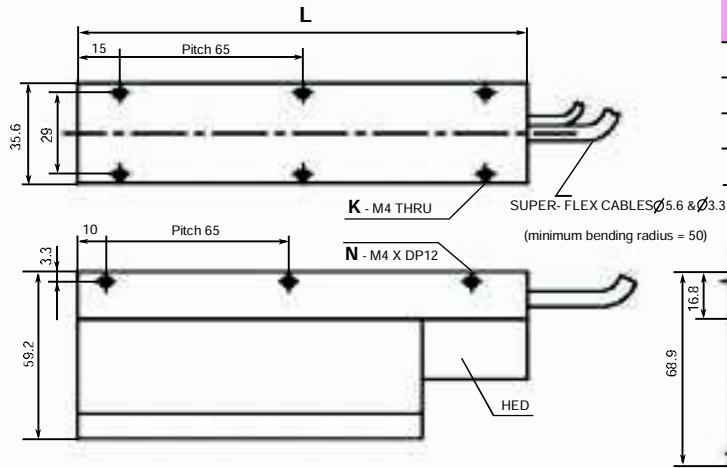


DX30

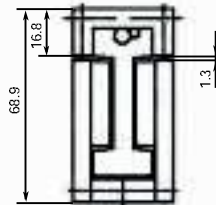
DX30 MAGNET TRACK



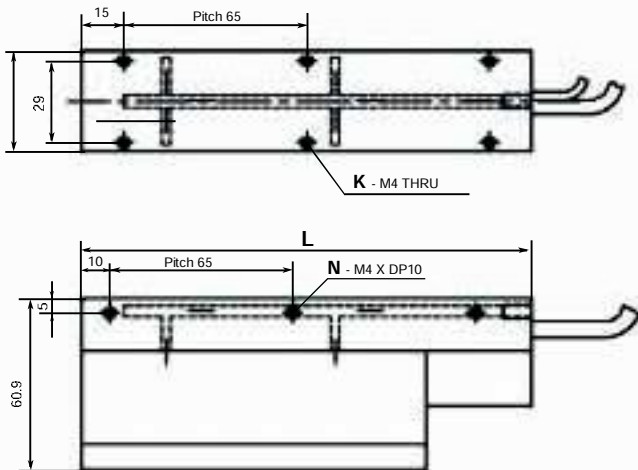
DX30 COIL



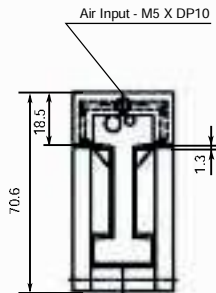
Coil Type	L	N	K
C1	100	4	4
C2	160	6	6
C3	220	8	8
C4	280	10	10

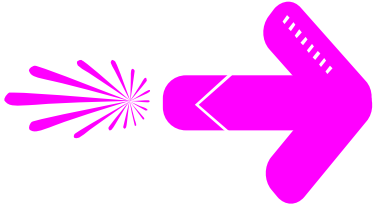


DX30 COIL - AIR COOLING OPTION

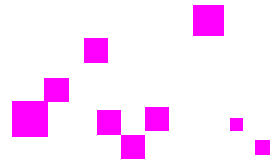


Coil Type	L	N	K
C1	100	4	4
C2	160	6	6
C3	220	8	8
C4	280	10	10



**DX 30B**

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Technical Specification**DX 30B****DX30B Standard Linear Servo Motor
Parallel Connected Coils**

Parameter	Unit		DX30B-C2P	DX30B-C3P	DX30B-C4P
Continuous Force	N		72	108	144
Peak Force	N		288	432	576
Motor Constant	N/SqRt(W)		10.2	12.51	14.44
Force Constant	N/Amp		15.7	23.5	31.3
Back EMF Constant	V/m/s		18.1	27.2	36.2
Continuous Current	Amps		4.6	4.6	4.6
Peak Current	Amps		18.4	18.4	18.4
Inductance	mH		1.6	2.3	3.1
Phase Resistance@25°C	ohms		2.4	3.5	4.7

Series Connected Coils

Parameter	Unit	DX30B-C1S	DX30B-C2S	DX30B-C3S	DX30B-C4S
Continuous Force	N	36	72	108	144
Peak Force	N	144	288	432	576
Motor Constant	N/SqRt(W)	7.2	10.2	12.5	14.4
Force Constant	N/Amp	15.7	31.3	47.0	62.6
Back EMF Constant	V/m/s	18.1	36.2	54.3	72.4
Continuous Current	Amps	2.3	2.3	2.3	2.3
Peak Current	Amps	9.2	9.2	9.2	9.2
Inductance	mH	3.1	9.3	9.3	12.4
Phase Resistance @25 C°	ohms	4.7	14.1	14.1	18.8

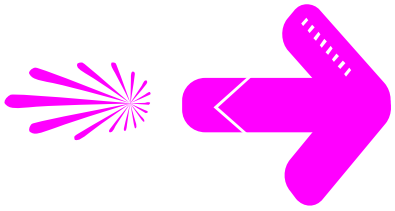
Continuous Power	W	24.9	49.7	74.6	99.5
Peak Power	W	397.8	795.6	1193.4	1591.2
Coil Weight	gm	220	450	680	910
Coil Length(L)	mm	61	121	181	241

Notes:

- All coils are built with normally closed thermostat sensor for over temperature protection. Thermistor option is also available.
- Standard cable length = 2 metres. Other length options are available.
Standard coil comes with digital hall sensor.

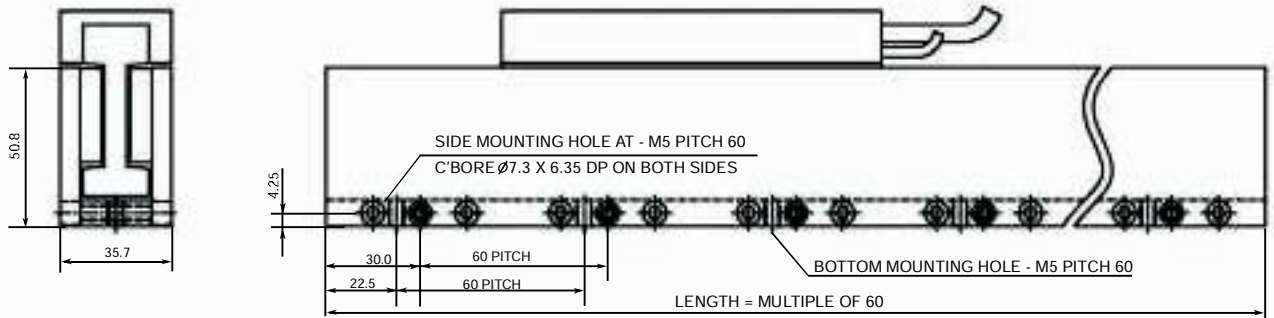
DX30B Standard Magnet Track

- Track length comes in standard length of 300, 600 and 900mm. Custom lengths are available in incremental of 30mm.
- Minimum track length is 240mm.
- Track weight = 570gm per 60mm.

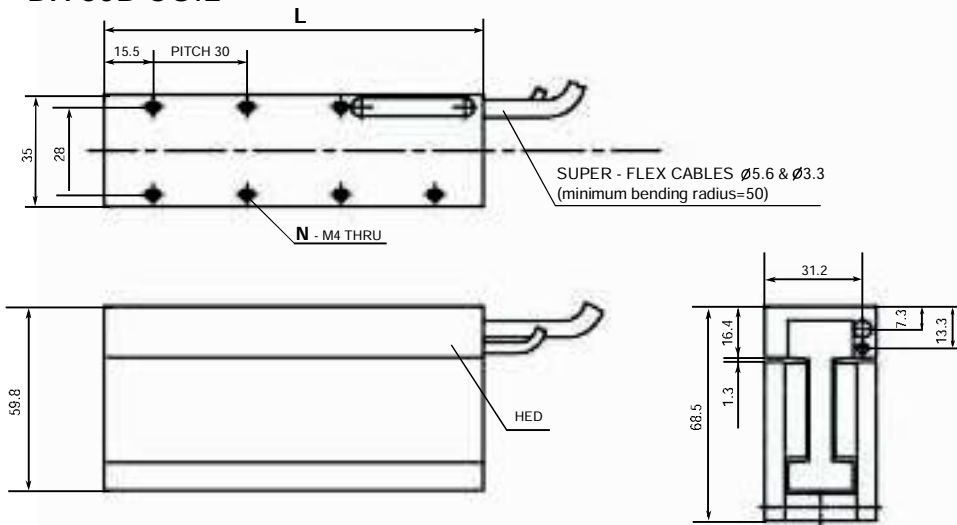


DX 30B

DX 30B MAGNET TRACK



DX 30B COIL



Coil Type	L	N
C1	61	3
C2	128	7
C3	181	11
C4	241	15

