

## Technical Specification

# DX20

### DX20 Standard Linear Servo Motor Parallel Connected Coils

Parameter	Unit		DX20-C2P	DX20-C3P	DX20-C4P
Continuous Force	N		21.5	32.25	43.0
Peak Force	N		86	129	172
Motor Constant	N/SqRt(W)		4.25	5.20	6.01
Force Constant	N/Amp		5.38	8.06	10.75
Back EMF Constant	V/m/s		7.2	10.8	14.4
Continuous Current	Amps		4	4	4
Peak Current	Amps		16	16	16
Inductance	mH		0.3	0.45	0.60
Phase to Phase Resistance @25°C	ohms		1.6	2.4	3.2

### Series Connected Coils

Parameter	Unit	DX20-C1S	DX20-C2S	DX20-C3S	DX20-C4S
Continuous Force	N	10.75	21.5	32.25	43
Peak Force	N	43	86	129	172
Motor Constant	N/SqRt(W)	3	4.25	5.2	6.01
Force Constant	N/Amp	5.38	10.75	16.13	21.50
Back EMF Constant	V/m/s	7.2	14.4	21.6	28.8
Continuous Current	Amps	2	2	2	2
Peak Current	Amps	8	8	8	8
Inductance	mH	0.6	1.2	1.8	2.4
Phase to Phase Resistance @25°C	ohms	3.2	6.4	9.6	12.8

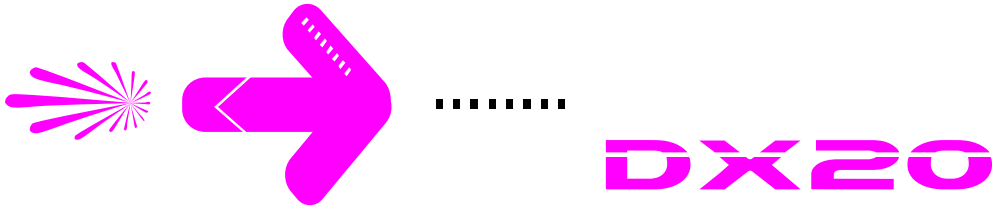
Continuous Power	W	12.8	25.6	38.4	51.2
Peak Power	W	204.8	409.6	614.4	819.2
Coil Weight	gm	72.5	124	176.5	229
Coil Length(L)	mm	65	95	125	155

#### Notes:

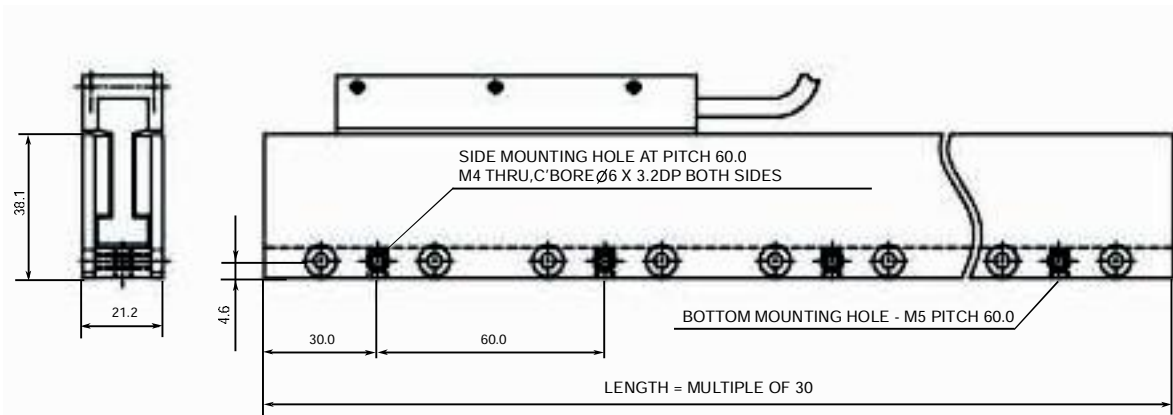
- All coils are built with thermistor sensor for over temperature protection.
- Standard cable length = 2 metres. Other length options are available.
- Standard coil comes with digital hall sensor.

### DX20 Standard Magnet Track

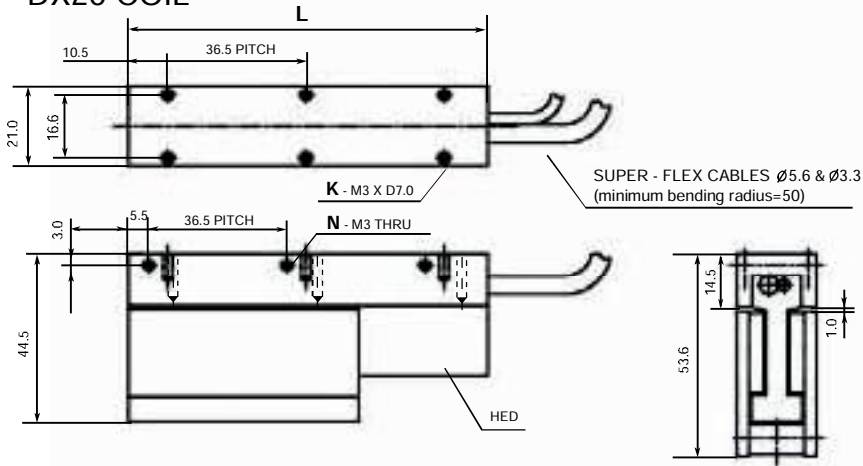
- Track length comes in standard length of 240, 360 and 540mm, Custom lengths are available in incremental of 15mm.
- Minimum track length is 180mm.
- Track weight = 220gm per 60mm.



DX20 MAGNET TRACK

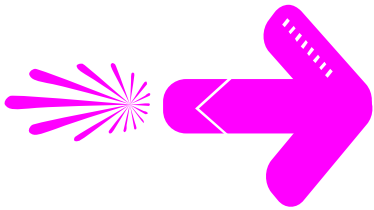


DX20 COIL



Coil Type	L	N	K
C1	65	2	4
C2	95	3	6
C3	125	4	8
C4	155	5	8





**DX 20B**

## Technical Specification

**DX 20B**

### DX 20B Standard Linear Servo Motor

#### Parallel Connected Coils

Parameter	Unit	DX20B-C2P	DX20B-C3P	DX20B-C4P
Continuous Force	N	22	33	44
Peak Force	N	88	132	176
Motor Constant	N/SqRt(W)	5.50	8.25	11.00
Force Constant	N/Amp	6.4	9.5	12.7
Back EMF Constant	V/m/s	4.31	5.28	6.10
Continuous Current	Amps	4	4	4
Peak Current	Amps	16	16	16
Inductance	mH	0.38	0.56	0.75
Phase to Phase Resistance @25°C	ohms	1.63	2.44	3.25

#### Series Connected Coils

Parameter	Unit	DX20B-C2S	DX20B-C3S	DX20B-C4S
Continuous Force	N	22	33	44
Peak Force	N	88	132	176
Motor Constant	N/SqRt(W)	4.31	5.28	6.10
Force Constant	N/Amp	11.00	16.50	22.00
Back EMF Constant	V/m/s	12.7	19.1	25.4
Continuous Current	Amps	2	2	2
Peak Current	Amps	8	8	8
Inductance	mH	1.5	2.25	3.0
Phase to Phase Resistance@25°C	ohms	6.5	9.75	13.0

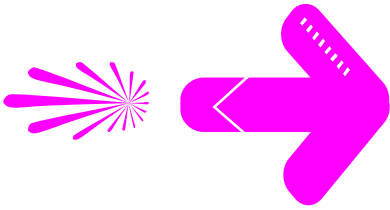
Continuous Power	W	26	39	52
Peak Power	W	416	624	832
Coil Weight	gm	120	180	240
Coil Length(L)	mm	61	91	121

#### Notes:

- All coils are built with thermistor 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.

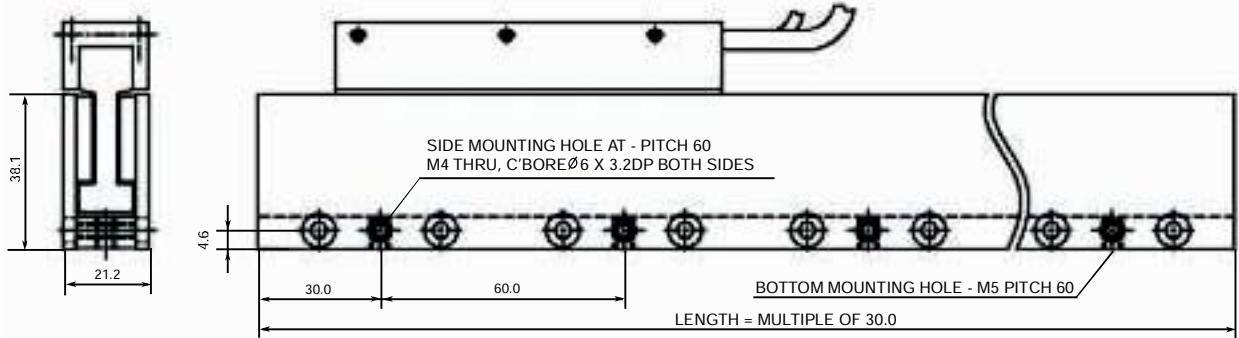
#### DX 20B Standard Magnet Track

- Track length comes in standard length of 240, 360 and 540mm. Custom lengths are available in incremental of 15mm.
- Minimum track length is 180mm.
- Track weight = 220gm per 60mm.

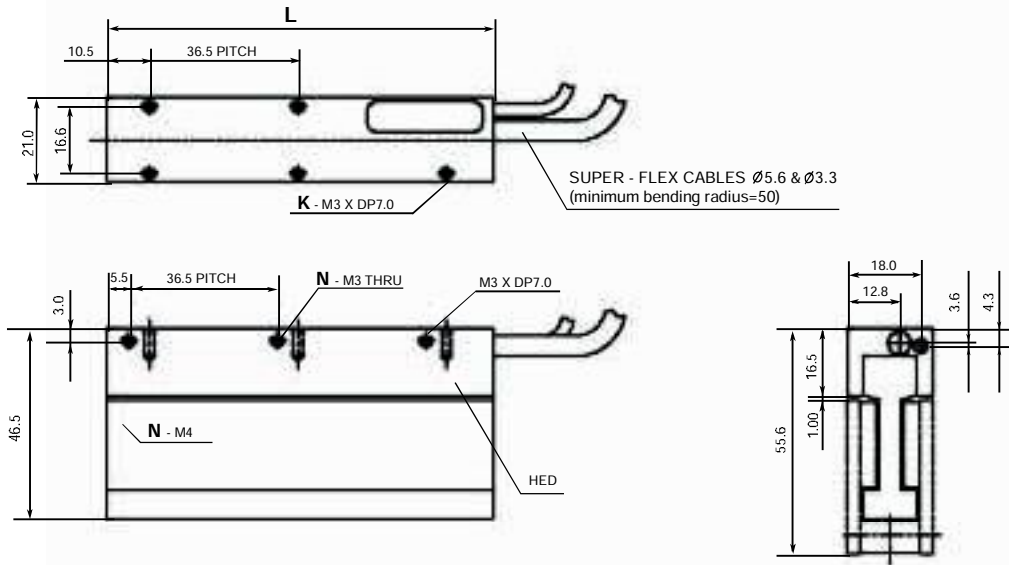


# DX 20B

## DX 20B MAGNET TRACK



## DX 20B COIL



Coil Type	L	N	K
C2	61	1	3
C3	91	2	5
C4	121	3	7

