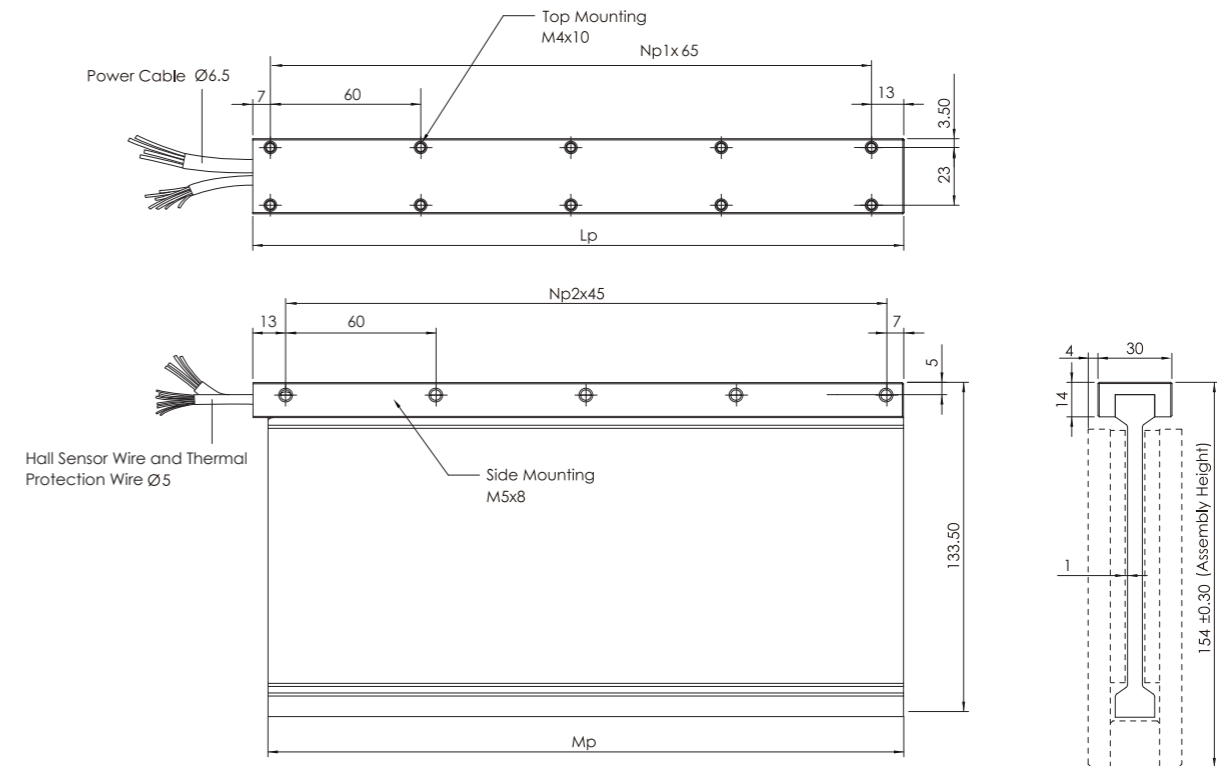


**LM-PC SERIES**  
Linear Motion Technology

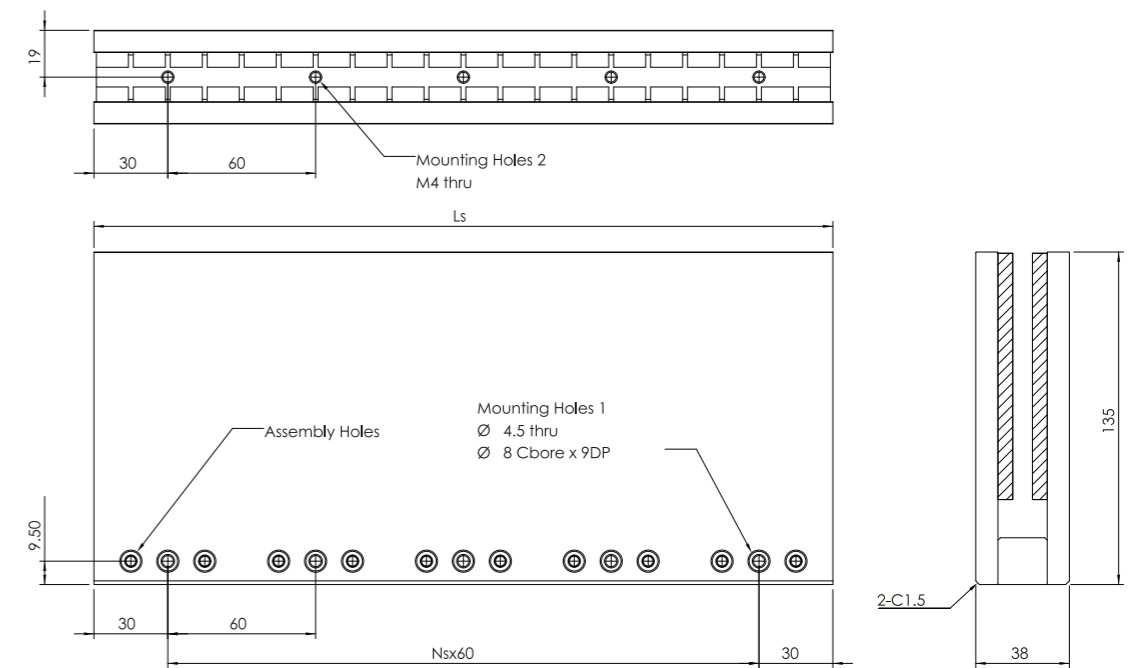
## LM-PC Coil Assembly



## LM-PC Coil Assembly Model

Coil Assembly Model	LM-PC4			LM-PC6			LM-PC8			
	W1	W2	W3	W1	W2	W3	W1	W2	W3	W4
<b>Performance</b>										
Peak force (N)	520			776			1048			
Continuous force (N)	130			194			259			
Peak power (W)	684			1368			2925			
Continuous power (W)	42			85			171			
<b>Mechanical</b>										
Coil assembly length (mm)	144			204			264			
Coil assembly weight (kg)	0.6			0.9			1.1			
Magnet track weight (kg/m)	29.3			29.3			29.3			
Electrical cycle length (mm)	30			30			30			
<b>Electrical</b>										
Continuous current (Arms)	1.5	3.0	6.0	1.5	3.0	6.0	1.5	3.0	5.9	12.0
Peak current (Arms)	6.0	12.0	24.0	6.0	12.0	24.0	6.2	12.5	24.3	48
Force constant (N/A)	86.6	43.3	21.6	129	64.6	32.3	172	86	44	22
Back EMF constant (V/m/s)	45.5	22.8	11.4	91	45.5	22.8	182	91	45.5	22.7
Ph-Ph resistance @25°C(Ω)	19	4.8	1.2	38	9.5	2.4	76.1	19.2	4.8	12
Ph-Ph inductance @25°C(mH)	26.4	13.2	6.6	39.6	9.9	2.4	52.8	13.2	6.6	1.6
Motor constant (N/A/W)	20	20	20	21	21	21	19.7	19.7	19.7	19.7

## LM-SC Magnetic Way



## LM-PC Coil Assembly

	Np1	Np2	Lp	Mp
LM-PC4	2	2	144	134
LM-PC6	3	3	204	194
LM-PC8	4	4	264	254

## LM-SC Magnetic Way

	Ns	Ls
LM-SC0	1	120
LM-SC1	4	300
LM-SC2	7	480

### OUTPUT CABLE (All cable standard length 400 mm)

Motor Wire Table			Hall Sensor Wire Table and Thermal Protection Wire Table						
Pin Number	Function	Cross section	Color	Function	Cable Dia.	Color	Function	Cable Dia.	
1	U phase	1.0 mm <sup>2</sup>	Pink	Hall A U phase	0.14 mm <sup>2</sup>	Brown/Blue	Thermal sensor	0.14 mm <sup>2</sup>	
2	V phase	1.0 mm <sup>2</sup>	Yellow	Hall B V phase	0.14 mm <sup>2</sup>				
3	W phase	1.0 mm <sup>2</sup>	Green	Hall C W phase	0.14 mm <sup>2</sup>				
yellow/green	PE	1.0 mm <sup>2</sup>	Grey	Hall IC +5V	0.14 mm <sup>2</sup>				
			White	GND	0.14 mm <sup>2</sup>				

