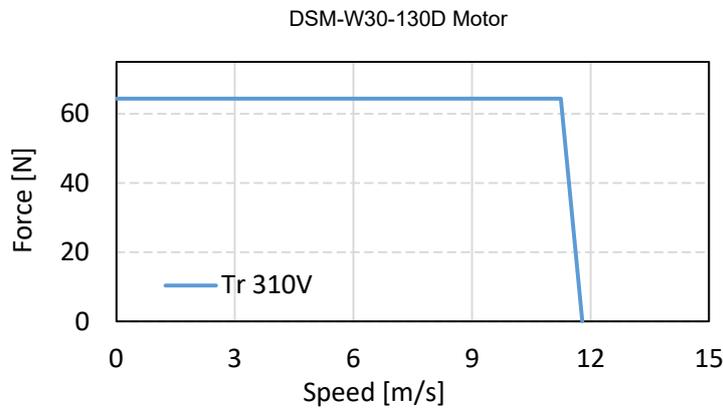
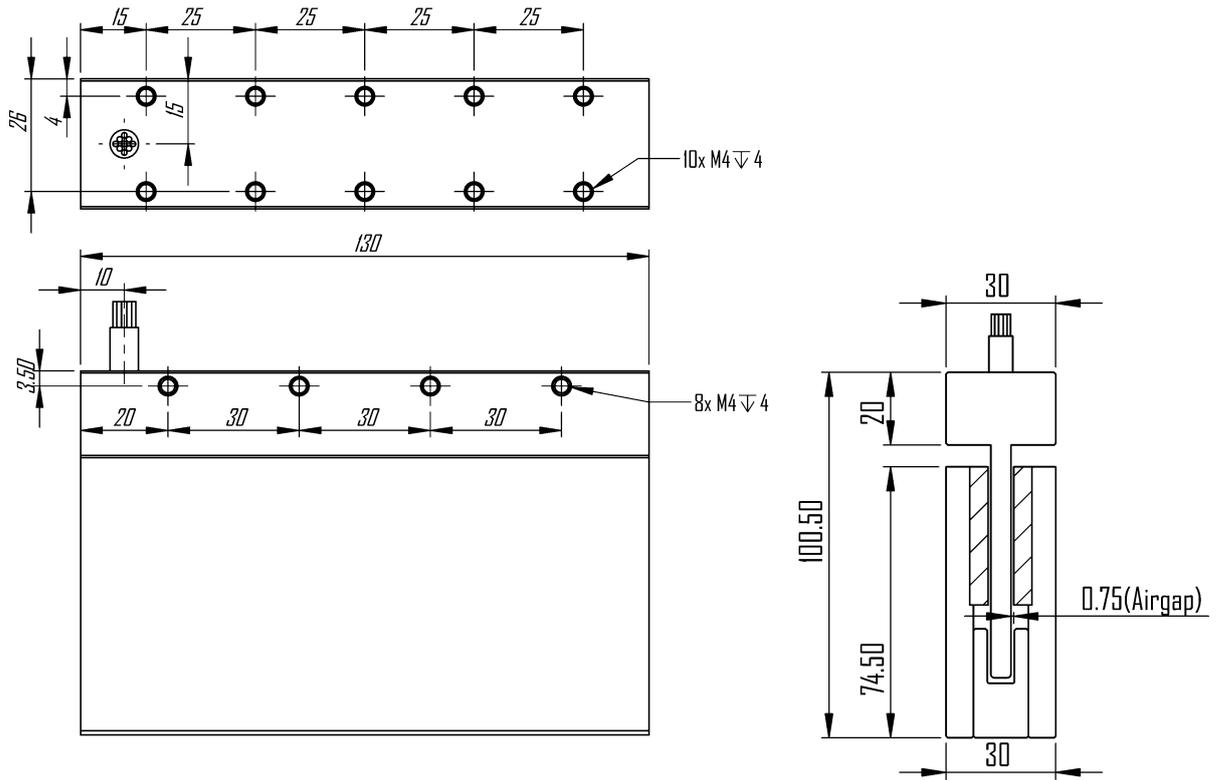


Motor Parameters	Symbols	Units	DSM-W30-130D
PERFORMANCE			
Peak Force	F_p	N	193.2
Continuous Force	F_c	N	64.4
Motor Constant	K_m	N/VW	2.4
ELECTRICAL			
Peak Current	I_p	A _{rms}	6.0
Continuous Current	I_c	A _{rms}	2.0
Force Constant	K_f	N/A _{rms}	32.2
Back EMF Constant	K_v	V/(m/s)	26.3
Line Resistance @25°C	R_{LL}	ohm	11.04 (±20%)
Line Inductance (@60Hz)	L_{LL}	mH	9.04 (±30%)
Terminal Voltage	V_{DC}	V	310
Electrical Time Cons.	τ_e	ms	0.82
THERMAL			
Thermal Resistance	R_{th}	°C/W	1.7
Max. Winding Temp.	T_w	°C	135
MECHANICAL			
Forcer Length	L	mm	130
Forcer Weight	W_f	kg	0.51
Magnet Pitch	$2\tau_p$	mm	60
Attractive Force	F_a	N	0

DSM-W30 Force-Speed Curves



Coil Assembly



Track Assembly

