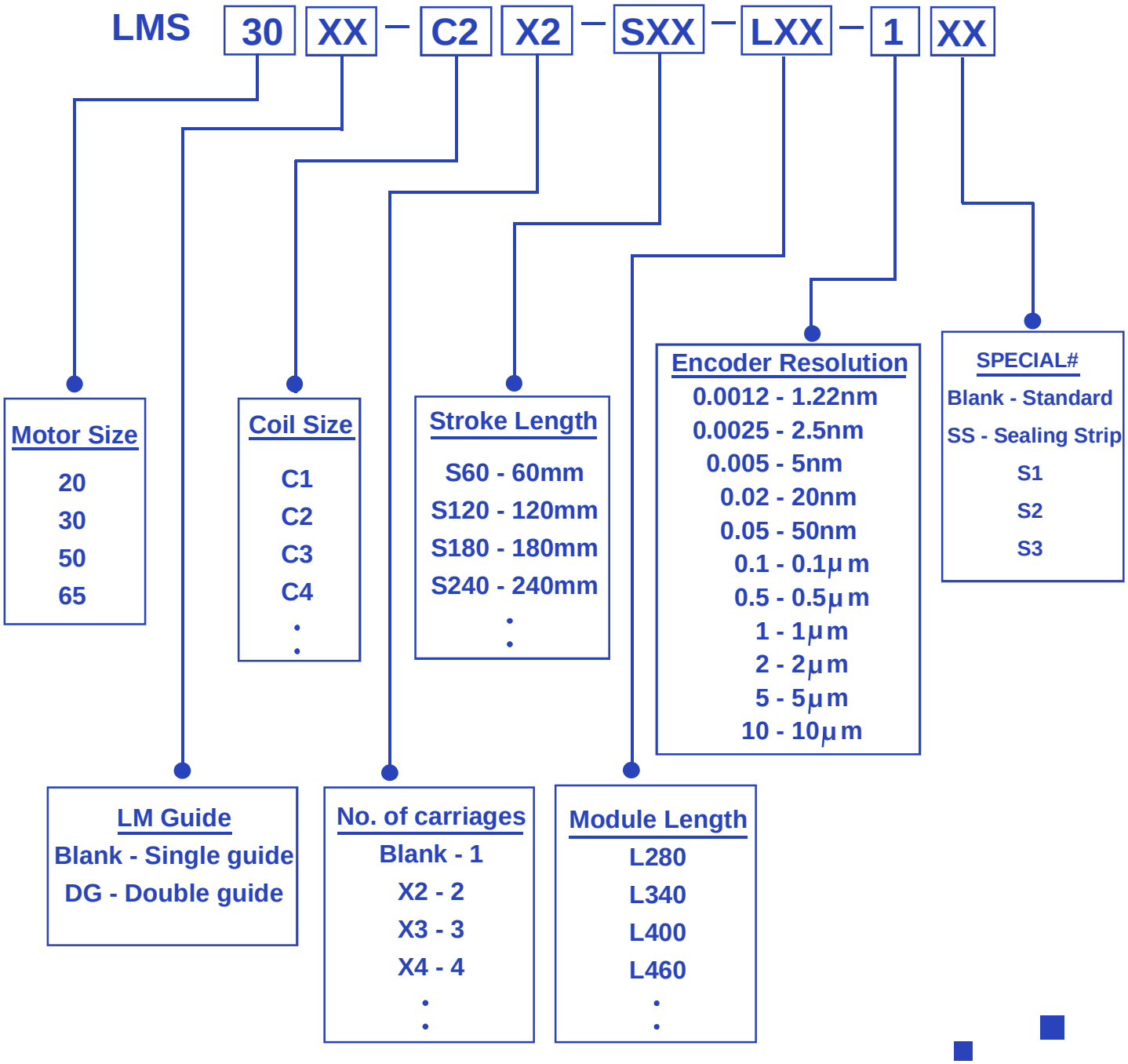
LMS SERIES

Part Numbering System



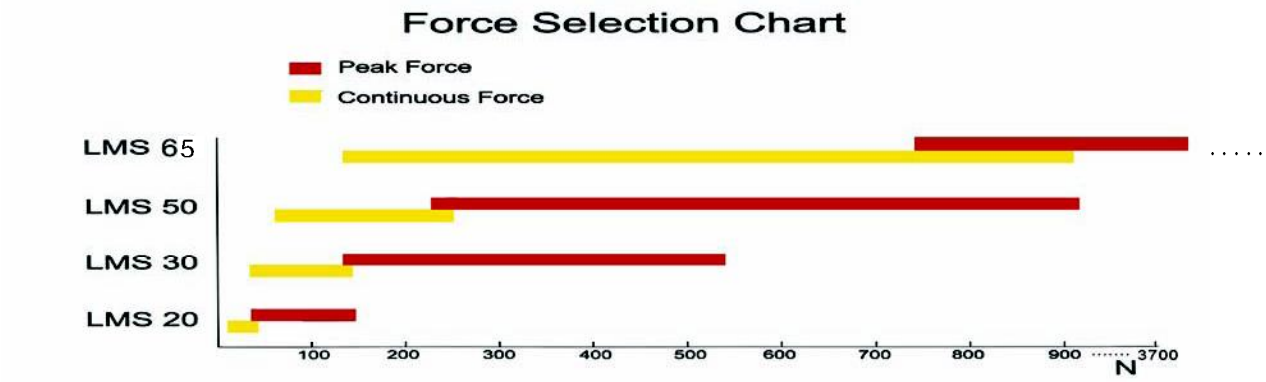
Features of LMS Series Linear Motor Actuators

Comparison With Traditional Actuators

Features	Ball Screw Actuators	Timing Belt Actuators	LMS Series Linear Motor Actuators
Speed	Max 1.5 m/s	Max 3.5 m/s	Max 20 m/s
Motor	Rotary Servo Motor	Rotary Servo Motor	Linear Servo Motor
Backlash	3μm - 5μm	10 μm -100μm	Zero Backlash
Servo Feedback/ Accuracy	Rotary Encoder	Rotary Encoder	Linear encoder (Measure actual linear position)
Dirve Design	Complicated (Many mechanical parts)	Complicated (Many mechanical parts)	Simple design (Direct drive)
Reliability	Wear and Tear (high maintenance)	Wear and Tear (high tensioning required periodically)	Least maintenance (no contact between coil & track)
Smoothness	Noisy when moving fast	Noisy	Smooth Motion

LMS Series Linear Motor Specifications

Model Number	Resolution (μm)	Max. Velocity (m/s)	Straightness (μm)
LMS20 LMS30 LMS50 LMS30DG LMS50DG LMS65DG	0.05	1	20
	0.1	0.5	20
	0.5	1.5	20
	1.0	4.0	20
	5.0	5.0	20
	10	5.0	30



Accuracy Evaluation

State-of-the-art laser Calibration systems are utilized for verifying LM series linear motor actuators accuracy and performance specifications.