

Direct drive linear servomotors SKA DDL

Synchronous direct-drive linear motors based on iron-core technology. SKA DDL provides tangible solutions and achieves a level of performance that was previously impossible with conventional kinematic chains. The direct-drive technology leads to exceptional results in dynamics, performance, positioning precision and energy saving. SKA DDL is available in **Linear Stage** version, which consists of a complete product, ready for installation in machines where it becomes a structural part.

Feature

40 2400N continuous force
5m/s speed
50m/s acceleration
NdFeB Magnets
Feedback: SinCos encoder, TTL encoder, optical and magnetic absolute encoders, Hall sensors
CE - UL certified

SKA DDL		30.40	30.80	50.75	50.150	55.275	55.550	75.660	75.990	100.1200	100.1600	125.2000	150.2400
Peak force	(N)	134.8	269.5	247	495	825	1650	1980	2970	3600	4800	6000	7200
Continuous force	(N)	40	80	75	150	275	550	660	990	1200	1600	2000	2400
Magnetic attraction	(N)	260	520	430	860	1202	2405	3143	4663	5831	7774	9829	11790
Speed	(m/s)	5	5	5	5	5	5	5	5	5	5	5	5
Acceleration	(m/s ²)	50	50	50	50	50	50	50	50	50	50	50	50
Coil length	(mm)	102	186	102	186	186	354	354	522	522	690	690	690
Coil width	(mm)	56	56	76	76	80	80	100	100	125	125	150	175
Coil height	(mm)	23	23	23	23	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
Coil weight	(Kg)	0.55	1	0.8	1.6	3	7	10	14	18	25	31	38
Magnetic track width	(mm)	50	50	70	70	90	90	120	120	140	140	175	200
Magnetic track height	(mm)	10.8	10.8	10.8	10.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
Magnetic track weight	(Kg/m)	3.3	3.3	5	5	9.1	9.1	12.2	12.2	14.6	14.6	18	21.4

Data are rated at $\Delta T=80$ °C, 0 ± 40 °C environmental temperature - Class F insulation - Performances are rated with natural ventilation

The Linear Stage version includes the pre-assembled SKA DDL linear motor with temperature sensor, linear ball bearings, linear guides, bellows, feedback, cables and cables carrier

