



YK-ZR Linear Rotary Motor



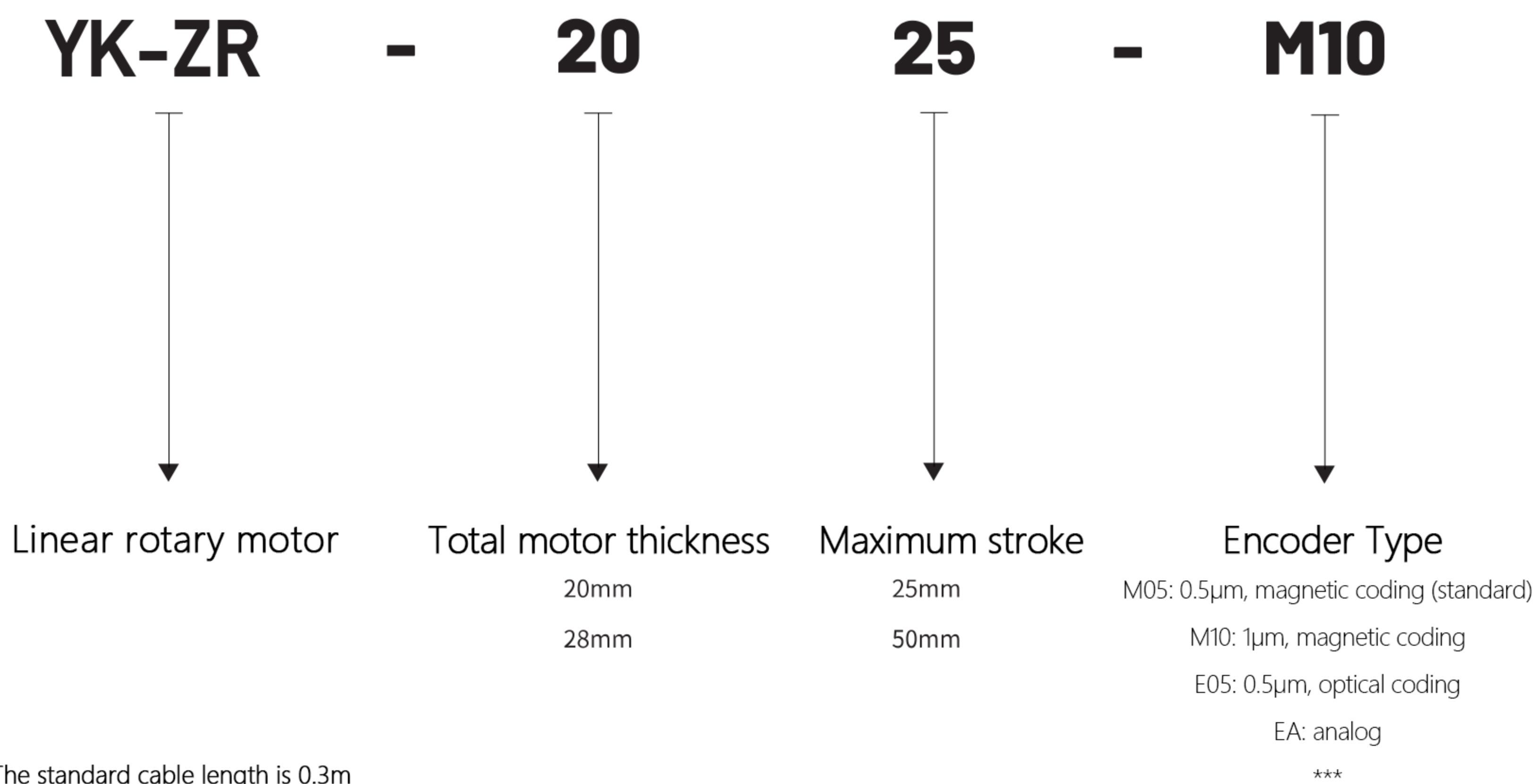
◎ YK-ZR series linear rotary motor has the following characteristics:

- ① Modular design, installation reference surface and shaft end positioning do not require mechanical position calibration
- ② Mounting position accuracy XY: $\pm 1\mu\text{m}$, angle accuracy Z: $\pm 0.001^\circ$; precision fitting, high-speed continuous action
- ③ Force control stability accuracy: $\pm 5.0\text{g}$ (0.05N), soft landing function with lighter force contact, will not damage the chip or leave marks on the chip
- ④ Hollow + customizable Z axis, reserved air pipe interface, vacuum suction plug and play
- ⑤ Can perform linear and rotational motion at the same time, or can achieve linear motion or rotational motion separately

◎ Application range:

Suitable for SMT, plug-in machines, patch machines, semiconductors, photovoltaic panels and optical devices 3C products assembly and testing and other automation equipment.

◎ YK-ZR series linear rotary motor naming rules



The standard cable length is 0.3m

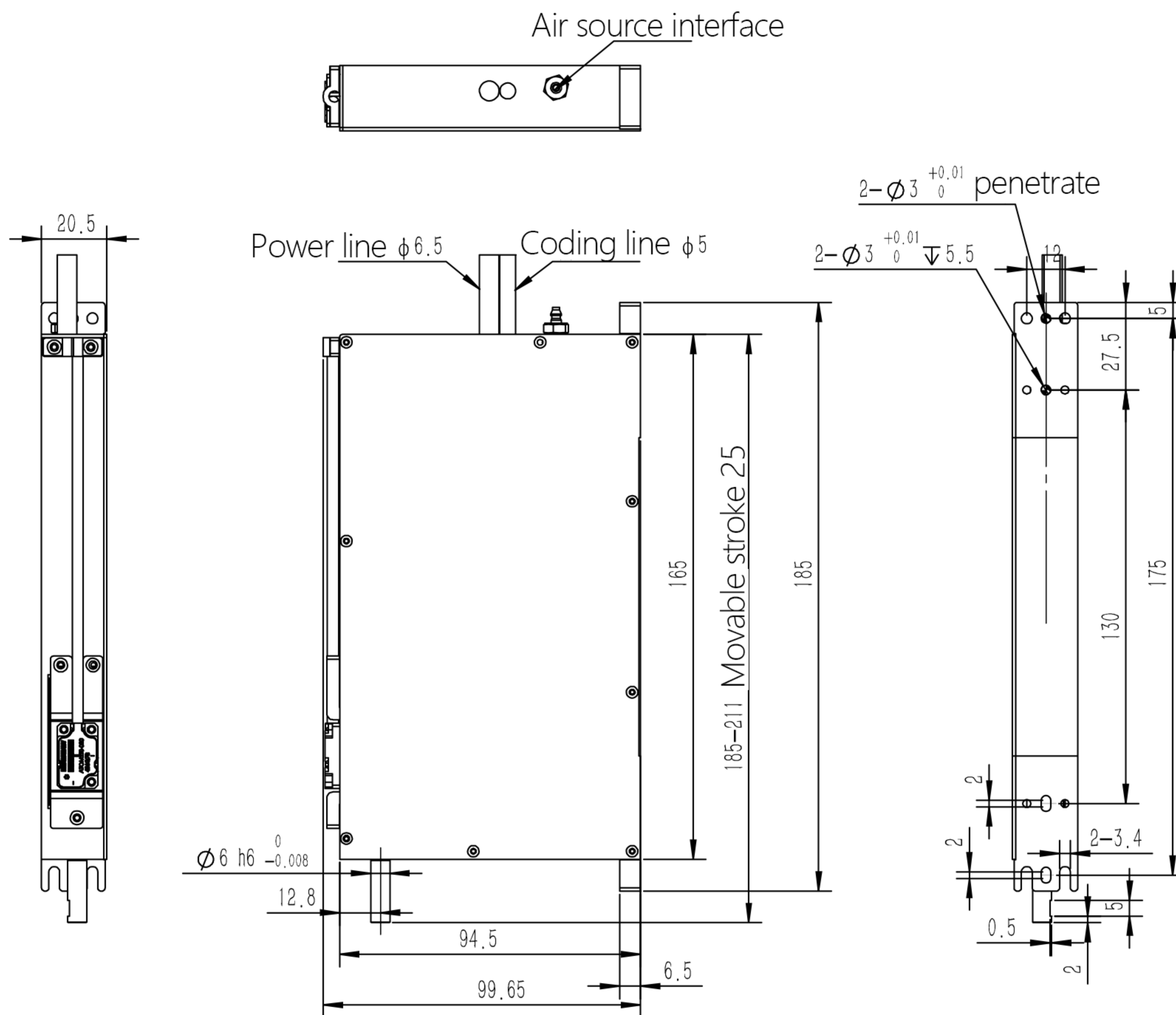


◎ YK-ZR Linear Rotary Motor Catalog

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◎ Y K - Z R - 2025



Linear parameters			Rotation parameters		
Parameters	Value	Unit	Parameters	Value	Unit
Valid itinerary	25	mm	Rated torque	10	mNm
resolution	0.5,customizable	μm	Instantaneous torque	43.8	mNm
Continuous thrust	8	N	encoder	4096	Wire
peak thrust	15	N	Rated current	1.3	Arms
continuous current	1.2	A	instantaneous current	3.3	Arms
Peak current	2.5	A	Torque constant	13.2	mNm/A
force constant	5.4	N/A	Voltage	24 ~ 48	V
DC resistance	13.5	Ω	Line resistance	23.78	Ω
inductance	2.5	mH	Line inductance	1.96	mH
Voltage	24~48	V	Rated speed	3000	rpm



Straight line parameters			Rotational parameters		
Parameters	Value	Unit	Parameters	Value	Unit
Valid itinerary	50	mm	Rated torque	95	mNm
resolution	0.5,customizable	μm	Instantaneous torque	285	mNm
Continuous thrust	22	N	encoder	2048	Wire
peak thrust	66	N	Rated current	4	Arms
continuous current	1.5	A	instantaneous current	11.2	Arms
Peak current	4.5	A	Torque constant	26	mNm/A
force constant	14.67	N/A	Voltage	24 ~ 48	V
DC resistance	9.8	Ω	Line resistance	0.907	Ω
inductance	0.77	mH	Line inductance	0.2	mH
Voltage	24~48	V	Rated speed	4000	rpm