

## FRAMELESS TORQUE MOTORS

- *Diameters from 65 up to 410 mm*
- *Rated torques Up to 70 Nm*
- *The direct drive technology of Frameless torque motors is a perfect way to enhance productivity, accuracy, and dynamic performance of applications.*



Frameless Torque Motors consist of a separate rotor and stator which are assembled directly inside the machine. The result is a compact, fully-integrated motor with improved dynamic performance. The motor winding can be customized to get any desired speed as per requirement of application.



## In Runner Frameless Torque Motors

### Specification Summary by Model

Electrical Specifications			065-OD		100-OD	152-OD	230-OD	410-OD
Sr. No	Specification	Unit	T-I-065-18-07-N-AB	T-I-065-54-35-N-AB	T-I-100-60-40-N-AB	T-I-152-38-93-N-AB	T-I-230-35-130-N-AB	T-I-410-45-235-N-AB
1	Continuous Torque	Nm	0.25	1	4	8	16	70
2	Continuous Current	A	2.9	2.2	9.5	5.5	11.5	28
3	Phases		3	3	3	3	3	3
4	Kt (Torque Constant)	Nm /A	0.086	0.454	0.421	1.454	1.39	2.5
5	Ke (Voltage Constant)	V/Krpm	7	35	40	93	130	235
6	Km (Motor Constant)	$N/\sqrt{W}$	0.075	0.242	0.538	1.156	1.88	7.21
7	Resistance (L-L)	Ohm	1.322	3.52	0.612	1.33	0.548	0.12
8	Poles		8	8	12	24	32	64
Mechanical Specifications								
9	Stator OD	mm	65	65	100	152	230	410
10	Stator ID	mm	35	35	65	108	184.5	332
11	Rotor OD	mm	33.3	33.3	63	106.5	183	330
12	Rotor ID	mm	17	17	43	89	160	290
13	Air Gap	mm	0.85	0.85	1	0.75	0.75	1
14	Stator Length	mm	18	54	60	38	35	45
15	Stator Height	mm	10	44	40	26	20	25
16	Weight	kg	0.25	0.6	1.7	1.9	3	12

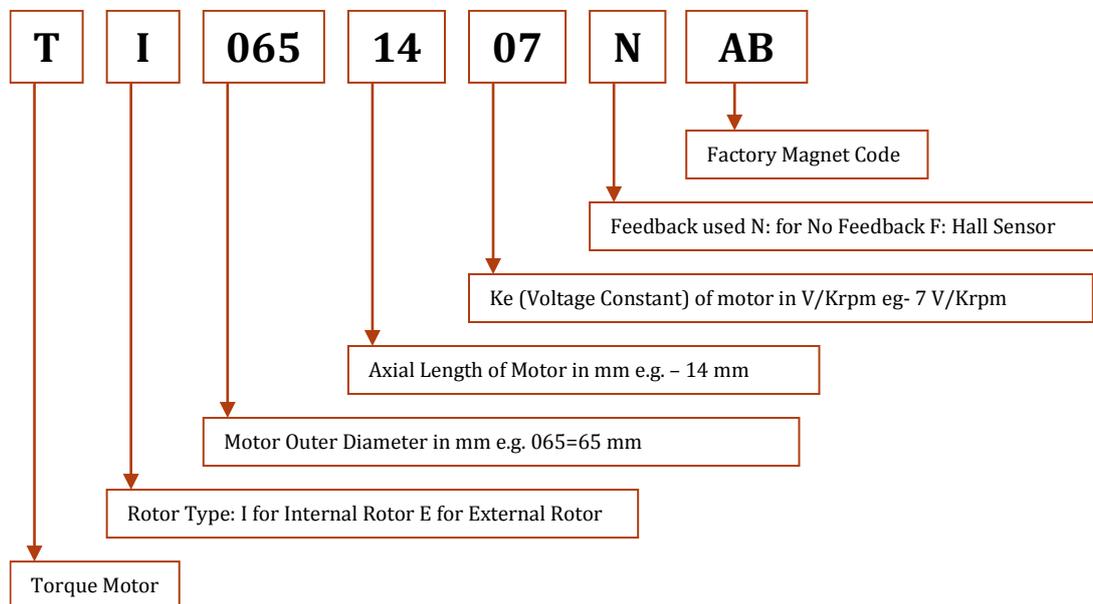
## Features and Benefits

- High torque output at low speed for direct-drive application – eliminates gearing issues.
- Direct drive (No gear, No backlash), Low height, big hollow shaft.
- Easy integration into system design.
- Higher accuracy.

## Applications

- Pharmaceutical shaker
- Surgical robot and other medical systems
- Indexing Table
- Robot joint axes
- Material handling – Cable Reeling drums
- Ring rail machine

## Model Numbering





On demand design & Manufacturing capability with quick response to the customer, which in turn can help the customer to reduce his time to market that will more than offset the modest price premium.

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