

LARC Linear ARC Motor kits

UTH Motor:

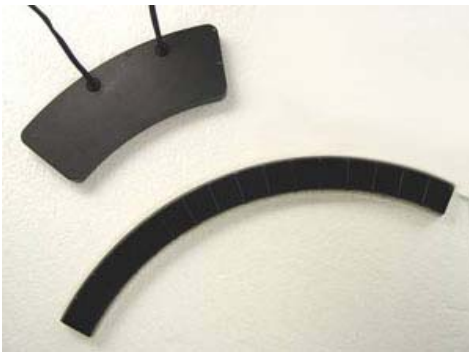
Geared to high output and high motor constant, the UTH motors combine some of the unique attributes of our ULT series, but add high performance magnets. Keeping with tradition, large through holes and low profile pancake construction allow them to fit into tight spots.

Features:

- Wide Range of Diameters - from 29 mm to 533 mm. Special sizes can also be created with short lead time.
- High motor constant – Low phase resistance for the motor size allows operation with low voltage power supplies and provides the high output with minimum voltage drop.
- Optional Windings – Select your voltage, speed and current, Applimotion will create a special winding to optimize torque or efficiency.
- Sinusoidal Torque Curves – motor designs for optimum performance with sinusoidal current control.
- Single Slot wound Stators – machine wound for more consistent performance and high reliability with no copper forming required.
- Optional Back Iron Rings - A standard set of iron rings are offered for each motor. Optional rings are available allowing more options for higher integration.
- Optional Hall Device Feedback – internally mounted PCA doesn't add to motor height offered on some motors, others require externally mounted hall device board.

Images

LARC Rotor



Part number identification

ARC-100-A-15-A-N-000

- └─ Motor Series
- └─ Diameter mm
- └─ Magnetic Attributes - factory code
- └─ Axial Length mm
- └─ Winding Option - factory code
- └─ Feedback Option, N=none, H=Halls
- └─ Mechanical Configuration: 000=std, 001 no back iron

("x" designates a standard option, contact factory for more details.)

Data table

Part number LARC Series	R (ohm)	L (mh)	Ke (v/krpm)	Kt (oz-in/a)	Kt sine (oz-in/a)	Km (oz-in/w1/2)	Thermal Res (degC/Watt)	Torque (oz-in)	Current (amp)
ARC-112-A-20-A-x-xxx	5.3	1.1	20.2	27.3	23.7	11.9	1.5	91.9	3.4
ARC-200-A-23-A-x-xxx	1.4	0.6	35	47.3	41	40	1.5	309.8	6.6
ARC-225-A-33-A-x-xxx	10.9	9.1	389	525.9	455.5	159.3	0.6	1951	3.7
ARC-325-A-40-A-x-xxx	50	38.4	670	905.8	784.5	128.1	0.6	1569	1.7
ARC-545-A-40-A-x-xxx	57	32	1250	1690	1463.5	223.8	0.5	3003.2	1.8
ARC-765-A-40-A-x-xxx	18	13	1485	2007.7	1738.7	473.2	0.3	8978.8	4.5

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