

Instrument stepper motors

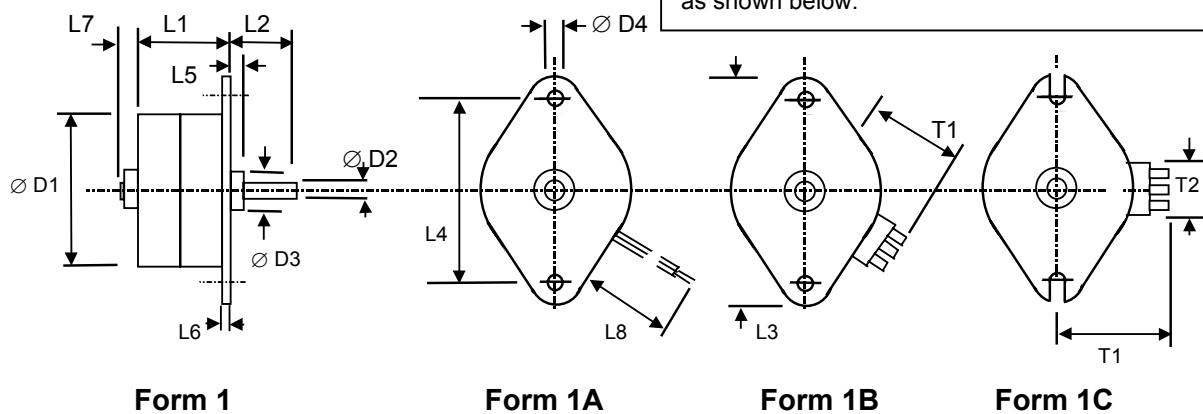
The instrument stepper motors are high quality permanent magnet types providing a 7.5 degree step angle

The motors may be specified factory fitted with a gearhead where increased torque and resolution are required at reduced operating speed. The programme has gained a world-wide reputation for high reliability and is widely used in industrial control and instrumentation drives. The miniature 1415 series, incorporates a low backlash precision gearhead to provide outstanding torque and resolution for a unit of such compact dimensions. A comprehensive programme of drives, power supplies and controllers have been developed to match the motor's characteristics to enable single or multi-axis systems to be readily constructed.



ID series stepper motor dimensions

ID series motors are either provided with leads (Form 1 A) or solder terminals (Forms 1B & 1C) as shown below:



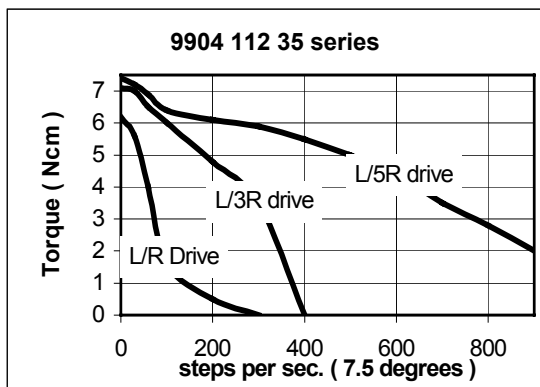
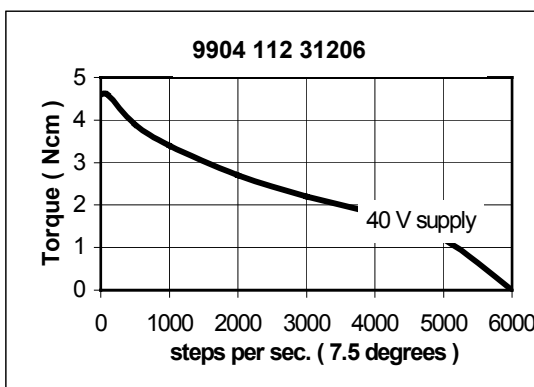
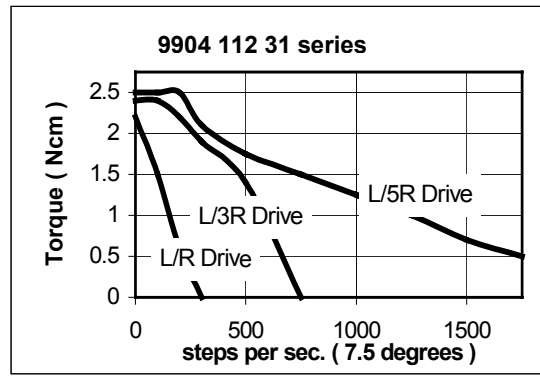
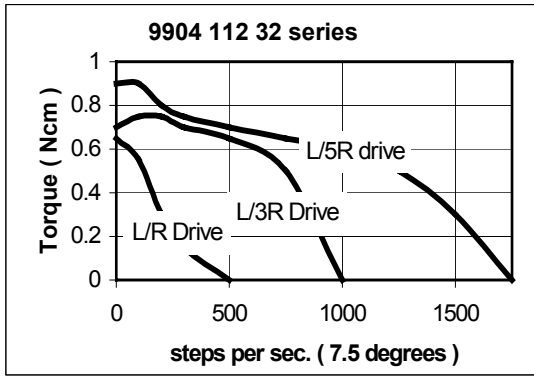
motor type	form	dimensions mm													
		D1	D2	D3	D4	L1	L2	L3	L4	L5	L6	L7	L8	T1	T2
9904 112 series	1 A	35	2	10	3.2	21.5	8.8	50	42	1.2	0.8	2.2	175	N/A	N/A
9904 112 31001	1 A	51	3	10	3.5	25	8.2	70.5	60.2	1.5	1.0	3	175	N/A	N/A
9904 112 31101	1 B	51	3	10	3.5	25	8.2	70.5	60.2	1.5	1.0	3	N/A	38.5	18.3
9904 112 31004	1 B	51	3	10	3.5	25	8.2	70.5	60.2	1.5	1.0	3	N/A	38.5	18.3
9904 112 31104	1 B	51	3	10	3.5	25	8.2	70.5	60.2	1.5	1.0	3	N/A	38.5	18.3
9904 112 35 series	1 C	56.3	4	12	4.4	33.5	16	76.5	66	1.5	1.5	3.8	N/A	37.1	20

specification

motor type	step angle degrees	holding torque Ncm	rotor inertia Kgcm ²	resistance per phase ohms	current per phase amps	inductance per phase mH	number of leads or terminals	mass gms
9904 112 32001	7.5	1.0	0.0026	120	0.1	160	6	80
9904 112 32101	7.5	1.0	0.0026	21	0.22	30	6	80
9904 112 31004	7.5	2.8	0.011	65	0.175	100	6 terminals	170
9904 112 31001	7.5	3.0	0.011	62	0.190	160	8	200
9904 112 31104	7.5	3.2	0.011	11	0.4	16	6 terminals	170
9904 112 31101	7.5	3.4	0.011	17	0.325	45	8	200
9904 112 31206 **	7.5	5.5	0.011	7	0.50	18	4	170
9904 112 35014	7.5	8.5	0.045	47	0.24	400	6 terminals	300
9904 112 35114	7.5	8.5	0.045	7.7	0.60	65	6 terminals	300
Precision Geared stepper motors								
1415 - 41:1 **	0.366	10	0.00045	12.5	0.25	5.5	4	47
1415 - 76:1 **	0.197	10	0.00045	12.5	0.25	5.5	4	50
1415 -141:1 **	0.106	10	0.00045	12.5	0.25	5.5	4	50

note** The above motors are, in general, 4 phase units suitable for use with uni-polar or bi-polar drive circuits. Motors identified by '**' however are only designed for bi-polar operation.

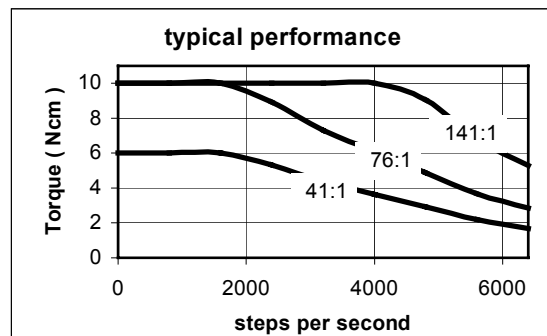
Typical stepper motor performance



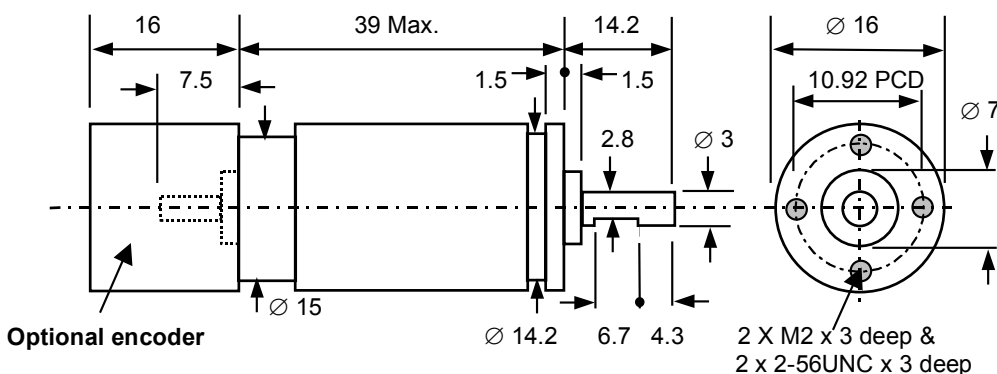
1415 series miniature geared stepper motor

The 1415 series miniature geared stepper motor is ideally suited for use in precision instrumentation mechanisms. The unit incorporates a two phase bi-polar stepper motor and a precision gearhead featuring an anti-backlash system to ensure accurate positioning.

When required a dual; track encoder may be specified, as shown below, to enable the unit to be used under closed loop control



Dimensions: mm



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