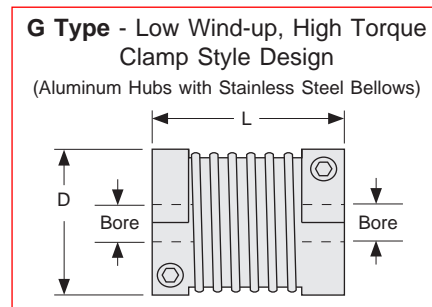
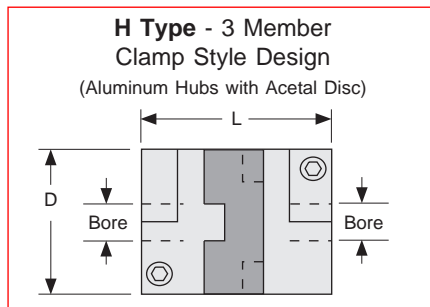
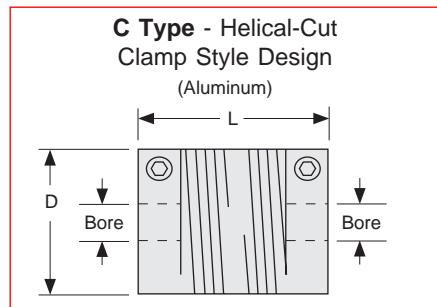


## Motor Couplings

*LINTECH* provides three different types of couplings that can be used to interface a motor to a ball screw assembly. These couplings compensate for some misalignment between the motor shaft & lead screw, or drive shaft extension. This provides for trouble-free operation as long as certain precautions are taken. The connected motor or gearhead output torque should never exceed the coupling maximum torque capacity. Larger capacity couplings may be required for high accelerations, large back driving loads, high torque output motors, servo motors, or gear boxes.



Model #	D inches (mm)	L inches (mm)	Screw	Bore Diameters				Weight ounces (grams)	Inertia oz-in <sup>2</sup> (g-cm <sup>2</sup> )	Wind-up arc-sec/oz-in (deg/N-m)	Max Torque oz-in (N-m)
				Motor	Minimum (in) (mm)	Maximum (in) (mm)					
<b>C100-xxx-aaa</b>	1.00 (25,4)	1.50 (38,1)	<b>xxx</b>	<b>aaa</b>	.250 6	.375 10	1.5 (43)	.19 (35)	23.0 (0,9)	400 (2,8)	
<b>C125-xxx-aaa</b>	1.25 (31,8)	2.00 (50,8)	<b>xxx</b>	<b>aaa</b>	.250 6	.500 14	3.5 (99)	.68 (124)	15.0 (0,59)	700 (4,9)	
<b>C150-xxx-aaa</b>	1.50 (38,1)	2.37 (60,2)	<b>xxx</b>	<b>aaa</b>	.375 10	.625 16	5.5 (156)	1.54 (282)	13.0 (0,51)	950 (4,9)	
<b>H100-xxx-aaa</b>	1.00 (25,4)	1.28 (32,5)	<b>xxx</b>	<b>aaa</b>	.250 6	.375 10	1.2 (34)	.15 (27)	7.2 (0,28)	450 (2,8)	
<b>H131-xxx-aaa</b>	1.31 (33,3)	1.89 (48,0)	<b>xxx</b>	<b>aaa</b>	.250 6	.625 16	2.9 (82)	.62 (114)	2.5 (0,098)	1,000 (7,1)	
<b>H163-xxx-aaa</b>	1.63 (41,4)	2.00 (50,8)	<b>xxx</b>	<b>aaa</b>	.375 10	.750 20	5.4 (153)	1.79 (328)	1.2 (0,047)	2,000 (14,1)	
<b>H197-xxx-aaa</b>	1.97 (50,0)	2.35 (59,7)	<b>xxx</b>	<b>aaa</b>	.375 10	.750 20	7.6 (215)	3.69 (674)	1.1 (0,043)	3,600 (25,4)	
<b>H225-xxx-aaa</b>	2.25 (57,2)	3.07 (78,0)	<b>xxx</b>	<b>aaa</b>	.500 12	1.000 24	13.1 (371)	8.29 (1516)	0.6 (0,024)	5,300 (37,4)	
<b>G100-xxx-aaa</b>	0.99 (25,2)	1.26 (32,0)	<b>xxx</b>	<b>aaa</b>	.250 6	.500 12	1.3 (36)	.16 (29)	1.0 (0,39)	500 (3,5)	
<b>G126-xxx-aaa</b>	1.26 (32,1)	1.62 (41,0)	<b>xxx</b>	<b>aaa</b>	.250 6	.625 16	2.7 (74)	.54 (99)	0.3 (0,012)	1,100 (7,7)	
<b>G158-xxx-aaa</b>	1.58 (40,2)	1.85 (47,0)	<b>xxx</b>	<b>aaa</b>	.375 10	.750 20	4.3 (120)	1.34 (245)	0.2 (0,008)	2,400 (17,0)	
<b>G177-xxx-aaa</b>	1.77 (45,0)	2.48 (63,0)	<b>xxx</b>	<b>aaa</b>	.375 10	.750 20	7.1 (200)	2.78 (508)	0.2 (0,008)	4,250 (30,0)	
<b>G220-xxx-aaa</b>	2.20 (56,0)	2.56 (65,0)	<b>xxx</b>	<b>aaa</b>	.500 12	1.000 24	10.6 (300)	6.41 (1172)	0.04 (0,002)	7,100 (50,0)	
Possible values for <b>aaa</b>	250 = .250 inch 375 = .375 inch 500 = .500 inch 625 = .625 inch	750 = .750 inch 999 = 1.000 inch			005 = 5 mm 006 = 6 mm 008 = 8 mm 010 = 10 mm	012 = 12 mm 014 = 14 mm 016 = 16 mm 018 = 18 mm	019 = 19 mm 020 = 20 mm 024 = 24 mm				

## Motor Couplings

Coupling	Cost	Torque Capacity	Wind-up	Suggested Motor	Comments
<b>C Type</b>	least expensive	light	the most	stepper	ideal for most step motor applications
<b>H Type</b>	medium priced	medium	medium	stepper or servo	use for high accels & for starting & stopping large inertia loads
<b>G Type</b>	most expensive	high	the least	servo	use for very high torque requirements & very high servo accelerations

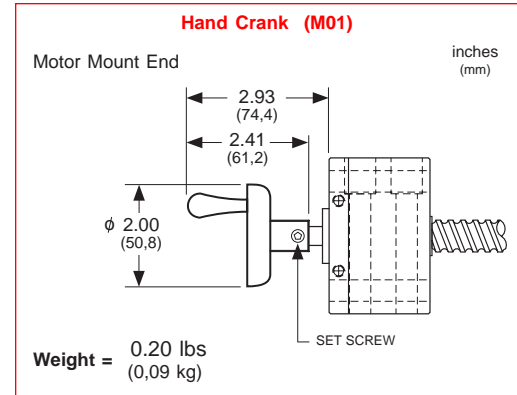
Specification		Ball Screw Diameters								
		0.500 inch		0.625 inch & 16 mm		0.750 inch & 20 mm		1.000 inch		1.500 inch
		NEMA 23 Mount	NEMA 34 Mount	NEMA 23 Mount	NEMA 34 Mount	NEMA 23 Mount	NEMA 34 Mount	NEMA 34 Mount	NEMA 42 Mount	NEMA 42 Mount
<b>Shaft extension diameter at motor mount end</b>	inches (mm)	.312 (7,92)		.375 (9,52)		.500 (12,70)		.625 (15,87)		.750 (19,05)
<b>Maximum coupling diameter</b>	inches (mm)	2.00 (50,8)	2.00 (50,8)	2.00 (50,8)	2.00 (50,8)	2.00 (50,8)	2.00 (50,8)	3.20 (50,8)	2.80 (71,1)	3.80 (96,5)
<b>Maximum coupling length</b>	inches (mm)	2.10 (53,3)	2.10 (53,3)	2.10 (53,3)	2.10 (53,3)	2.10 (53,3)	2.10 (53,3)	2.60 (66,0)	3.60 (91,4)	3.40 (86,4)

Note: Custom motor mounts available upon request.

<b>C020</b> C100-312-250	<b>C090</b> C150-500-016	<b>C171</b> H131-500-010	<b>C281</b> H197-750-375	<b>C435</b> G126-375-250	<b>C492</b> G158-625-375
<b>C021</b> C100-312-375	<b>C091</b> C150-625-375	<b>C172</b> H131-500-012	<b>C282</b> H197-750-500	<b>C436</b> G126-375-375	<b>C493</b> G158-625-500
<b>C022</b> C100-312-006	<b>C092</b> C150-625-500	<b>C173</b> H131-500-014	<b>C283</b> H197-750-625	<b>C437</b> G126-375-500	<b>C494</b> G158-625-625
<b>C023</b> C100-312-008	<b>C093</b> C150-625-625	<b>C174</b> H131-500-016	<b>C284</b> H197-750-750	<b>C438</b> G126-375-625	<b>C495</b> G158-625-750
<b>C024</b> C100-312-010	<b>C094</b> C150-625-010	<b>C175</b> H131-625-375	<b>C285</b> H197-750-010	<b>C439</b> G126-375-006	<b>C496</b> G158-625-010
<b>C025</b> C100-375-250	<b>C095</b> C150-625-012	<b>C176</b> H131-625-500	<b>C286</b> H197-750-012	<b>C440</b> G126-375-008	<b>C497</b> G158-625-012
<b>C026</b> C100-375-375	<b>C096</b> C150-625-014	<b>C177</b> H131-625-006	<b>C287</b> H197-750-014	<b>C441</b> G126-375-010	<b>C498</b> G158-625-014
<b>C027</b> C100-375-006	<b>C097</b> C150-625-016	<b>C178</b> H131-625-008	<b>C288</b> H197-750-016	<b>C442</b> G126-375-012	<b>C499</b> G158-625-016
<b>C028</b> C100-375-008	<b>C125</b> H100-312-250	<b>C179</b> H131-625-010	<b>C289</b> H197-750-018	<b>C443</b> G126-375-014	<b>C500</b> G158-625-018
<b>C029</b> C100-375-010	<b>C126</b> H100-312-375	<b>C180</b> H131-625-012	<b>C290</b> H197-750-019	<b>C444</b> G126-375-016	<b>C501</b> G158-625-019
<b>C040</b> C125-312-250	<b>C127</b> H100-312-006	<b>C181</b> H131-625-014	<b>C291</b> H197-750-020	<b>C445</b> G126-500-250	<b>C502</b> G158-625-020
<b>C041</b> C125-312-375	<b>C128</b> H100-312-008	<b>C182</b> H131-625-016	<b>C337</b> H225-750-500	<b>C446</b> G126-500-375	<b>C503</b> G158-750-375
<b>C042</b> C125-312-500	<b>C129</b> H100-312-010	<b>C201</b> H163-500-375	<b>C338</b> H225-750-625	<b>C447</b> G126-500-500	<b>C504</b> G158-750-500
<b>C043</b> C125-312-006	<b>C130</b> H100-375-250	<b>C202</b> H163-500-500	<b>C339</b> H225-750-750	<b>C448</b> G126-500-625	<b>C505</b> G158-750-625
<b>C044</b> C125-312-008	<b>C131</b> H100-375-375	<b>C203</b> H163-500-625	<b>C340</b> H225-750-999	<b>C449</b> G126-500-006	<b>C506</b> G158-750-750
<b>C045</b> C125-312-010	<b>C132</b> H100-375-006	<b>C204</b> H163-500-750	<b>C341</b> H225-750-012	<b>C450</b> G126-500-008	<b>C507</b> G158-750-010
<b>C046</b> C125-312-012	<b>C133</b> H100-375-008	<b>C205</b> H163-500-010	<b>C342</b> H225-750-014	<b>C451</b> G126-500-010	<b>C508</b> G158-750-012
<b>C047</b> C125-312-014	<b>C134</b> H100-375-010	<b>C206</b> H163-500-012	<b>C343</b> H225-750-016	<b>C452</b> G126-500-012	<b>C509</b> G158-750-014
<b>C048</b> C125-375-250	<b>C145</b> H131-312-250	<b>C207</b> H163-500-014	<b>C344</b> H225-750-018	<b>C453</b> G126-500-014	<b>C510</b> G158-750-016
<b>C049</b> C125-375-375	<b>C146</b> H131-312-375	<b>C208</b> H163-500-016	<b>C345</b> H225-750-019	<b>C454</b> G126-500-016	<b>C511</b> G158-750-018
<b>C050</b> C125-375-500	<b>C147</b> H131-312-500	<b>C209</b> H163-500-018	<b>C346</b> H225-750-020	<b>C455</b> G126-625-375	<b>C512</b> G158-750-019
<b>C051</b> C125-375-006	<b>C148</b> H131-312-625	<b>C210</b> H163-500-019	<b>C347</b> H225-750-024	<b>C456</b> G126-625-500	<b>C513</b> G158-750-020
<b>C052</b> C125-375-008	<b>C149</b> H131-312-006	<b>C211</b> H163-500-020	<b>C400</b> G100-312-250	<b>C457</b> G126-625-625	<b>C561</b> G177-750-375
<b>C053</b> C125-375-010	<b>C150</b> H131-312-008	<b>C212</b> H163-625-375	<b>C401</b> G100-312-375	<b>C458</b> G126-625-008	<b>C562</b> G177-750-500
<b>C054</b> C125-375-012	<b>C151</b> H131-312-010	<b>C213</b> H163-625-500	<b>C402</b> G100-312-500	<b>C459</b> G126-625-010	<b>C563</b> G177-750-625
<b>C055</b> C125-375-014	<b>C152</b> H131-312-012	<b>C214</b> H163-625-625	<b>C403</b> G100-312-006	<b>C460</b> G126-625-012	<b>C564</b> G177-750-750
<b>C056</b> C125-500-250	<b>C153</b> H131-312-014	<b>C215</b> H163-625-750	<b>C404</b> G100-312-008	<b>C461</b> G126-625-014	<b>C565</b> G177-750-010
<b>C057</b> C125-500-375	<b>C154</b> H131-312-016	<b>C216</b> H163-625-010	<b>C405</b> G100-312-010	<b>C462</b> G126-625-016	<b>C566</b> G177-750-012
<b>C058</b> C125-500-500	<b>C155</b> H131-375-250	<b>C217</b> H163-625-012	<b>C406</b> G100-312-012	<b>C481</b> G158-500-375	<b>C567</b> G177-750-014
<b>C059</b> C125-500-006	<b>C156</b> H131-375-375	<b>C218</b> H163-625-014	<b>C407</b> G100-375-250	<b>C482</b> G158-500-500	<b>C568</b> G177-750-016
<b>C060</b> C125-500-008	<b>C157</b> H131-375-500	<b>C219</b> H163-625-016	<b>C408</b> G100-375-375	<b>C483</b> G158-500-625	<b>C569</b> G177-750-018
<b>C061</b> C125-500-010	<b>C158</b> H131-375-625	<b>C220</b> H163-625-018	<b>C409</b> G100-375-500	<b>C484</b> G158-500-750	<b>C570</b> G177-750-019
<b>C062</b> C125-500-012	<b>C159</b> H131-375-006	<b>C221</b> H163-625-019	<b>C410</b> G100-375-006	<b>C485</b> G158-500-010	<b>C571</b> G177-750-020
<b>C063</b> C125-500-014	<b>C160</b> H131-375-008	<b>C222</b> H163-625-020	<b>C411</b> G100-375-008	<b>C486</b> G158-500-012	<b>C617</b> G220-750-500
<b>C064</b> C125-625-375	<b>C161</b> H131-375-010	<b>C223</b> H163-750-375	<b>C412</b> G100-375-010	<b>C487</b> G158-500-014	<b>C618</b> G220-750-625
<b>C065</b> C125-625-500	<b>C162</b> H131-375-012	<b>C224</b> H163-750-500	<b>C413</b> G100-375-012	<b>C488</b> G158-500-016	<b>C619</b> G220-750-750
<b>C066</b> C125-625-010	<b>C163</b> H131-375-014	<b>C225</b> H163-750-625	<b>C425</b> G126-312-250	<b>C489</b> G158-500-018	<b>C620</b> G220-750-999
<b>C067</b> C125-625-012	<b>C164</b> H131-375-016	<b>C226</b> H163-750-750	<b>C426</b> G126-312-375	<b>C490</b> G158-500-019	<b>C621</b> G220-750-012
<b>C068</b> C125-625-014	<b>C165</b> H131-500-250	<b>C227</b> H163-750-010	<b>C427</b> G126-312-500	<b>C491</b> G158-500-020	<b>C622</b> G220-750-014
<b>C084</b> C150-500-375	<b>C166</b> H131-500-375	<b>C228</b> H163-750-012	<b>C428</b> G126-312-625	<b>C623</b> G220-750-016	<b>C624</b> G220-750-018
<b>C085</b> C150-500-500	<b>C167</b> H131-500-500	<b>C229</b> H163-750-014	<b>C429</b> G126-312-006	<b>C625</b> G220-750-019	<b>C626</b> G220-750-020
<b>C086</b> C150-500-625	<b>C168</b> H131-500-625	<b>C230</b> H163-750-016	<b>C430</b> G126-312-008	<b>C627</b> G220-750-024	
<b>C087</b> C150-500-010	<b>C169</b> H131-500-006	<b>C231</b> H163-750-018	<b>C431</b> G126-312-010		
<b>C088</b> C150-500-012	<b>C170</b> H131-500-008	<b>C232</b> H163-750-019	<b>C432</b> G126-312-012		
<b>C089</b> C150-500-014		<b>C233</b> H163-750-020	<b>C433</b> G126-312-014		
			<b>C434</b> G126-312-016		

## Hand Crank

For manually operated applications, *LINTECH* provides a hand crank option for 0.500 inch, 0.625 inch, 0.750 inch, 16 mm, and 20 mm diameter screws. If ordered, the hand crank would be installed at the drive end (normally where the motor mount would be).



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## Other Motor Mounts

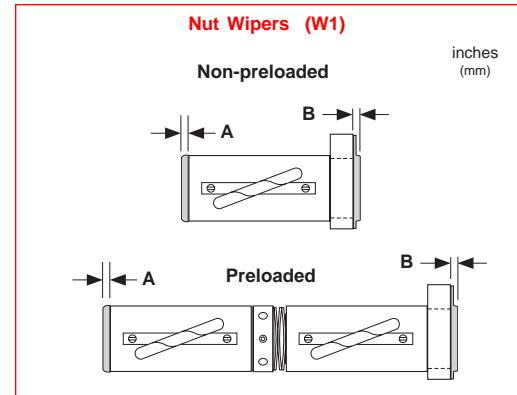
For motor driven applications, *LINTECH* provides NEMA 23, 34 and 42 motor mounts that easily adapt to either a fixed or rigid bearing housing. For non-NEMA motors, *LINTECH* provides custom motor mounts upon request.

## Wiper kits

Wiper kits are only available on the ball nut versions of the RS series assemblies. These brush type wiper kits aid in keeping foreign particles from penetrating the ball nut, and help spread lubricant over the screw as the nut travels back & forth. The wiper kit adds the below lengths to a particular ball nut, thus the overall thread length will increase for a set travel length requirement. Also, one of the nut flange types (F1, F2, F3, F4, or F5) is required to hold the wiper kit in place on the ball nut.

Model Number	A in (mm)	B in (mm)
<b>RS050</b>	.139 (3,53)	.148 (3,76)
<b>RS062</b>	.139 (3,53)	.148 (3,76)
<b>RS075</b>	.158 (4,01)	.148 (3,76)

Model Number	A in (mm)	B in (mm)
<b>RS100</b>	.158 (4,01)	.148 (3,76)
<b>RS150025</b>	.158 (4,01)	.148 (3,76)
<b>RS150050</b> <b>RS150100</b> <b>RS150200</b>	0.0 (0,0)	0.0 (0,0)



## Bellows

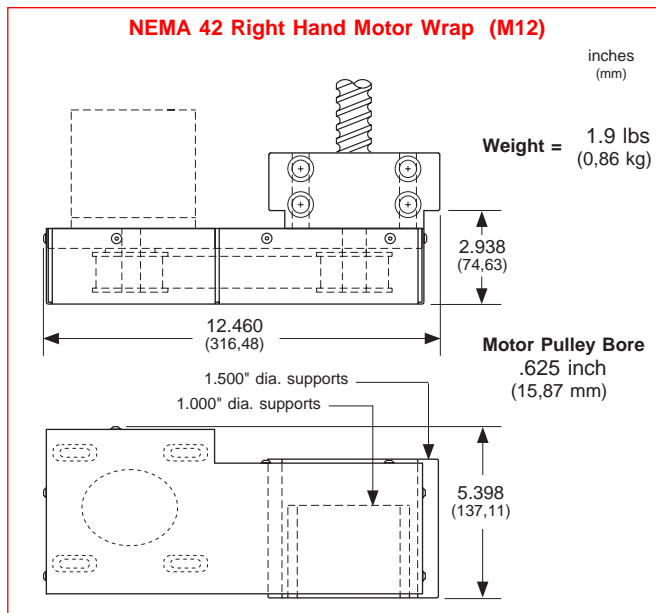
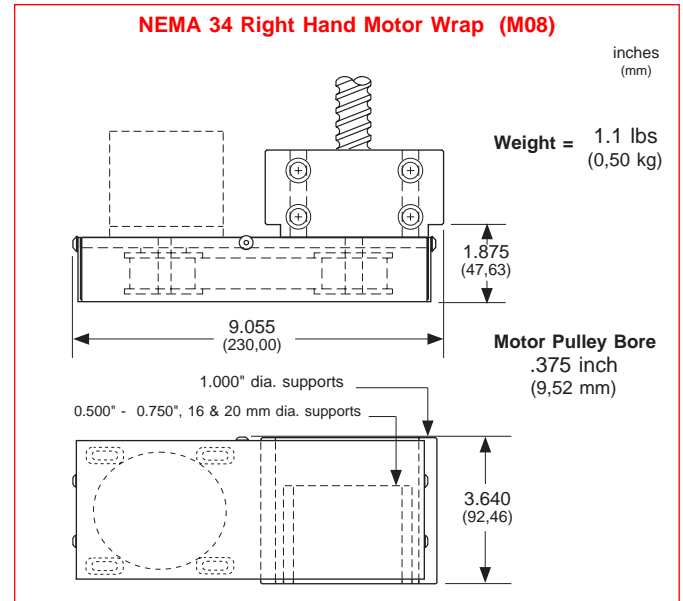
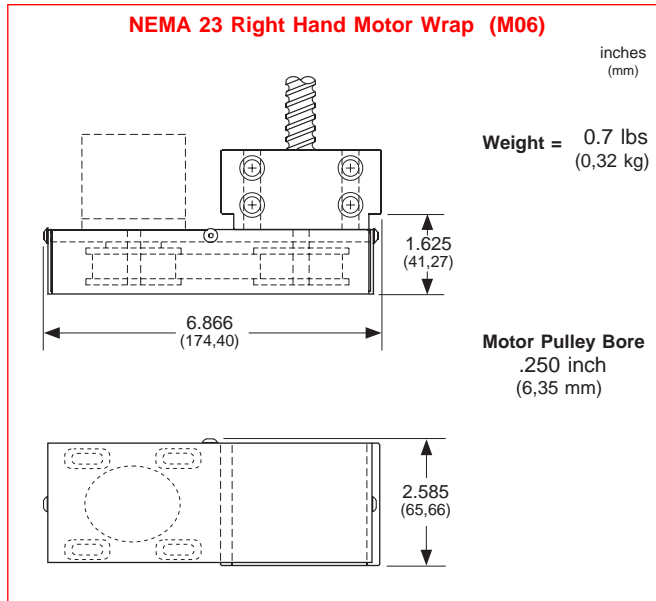
Bellows (covers) are available to protect the ball screw & nut from particulates present in the environment. The bellows are designed as a custom fit over the entire length of the screw. Contact the factory for assistance when bellows are required for an application.

## Chrome Plated Screw, Nut, Support Housings, and Flange

For applications in high moisture, high humidity, clean room, or highly corrosive environments, chrome plating of the ball screw, ball nut, supports, and flanges will offer superior resistance to corrosion than stainless steel, resulting in longer life. The process uniformly deposits dense, hard, high Chromium alloy on the screw and nut, and has a case hardness value of Rc 67-72. This process also conforms to MIL spec.: (MIL-C-23422). The chrome plating bonds to the parent material and will not crack, chip or peel under load of the balls on the screw. This chrome plating process differs from a normal chrome plate which just lays on the surface of the plated part.

## Motor Wrap Packages

For space limited motor driven applications, a belt and pulley system can couple the ball screw to the motor shaft. This wraps the motor parallel to the ball screw assembly in order to decrease the overall ball screw assembly length. Pulley weights and diameters are given in order to assist in calculating motor torque requirements. This option is available only with the fixed and rigid bearing housings and are shown below in the right hand wrap configurations.



**Note:** Right hand motor wraps shown. The left hand wrap packages orient the motor to the opposite side of the bearing housing. Motor pulley & belt shipped "loose". No motor mount nuts & bolts are provided. Custom motor wrap packages are available upon request. Other motor pulley bores MUST be specified for non-NEMA motors.

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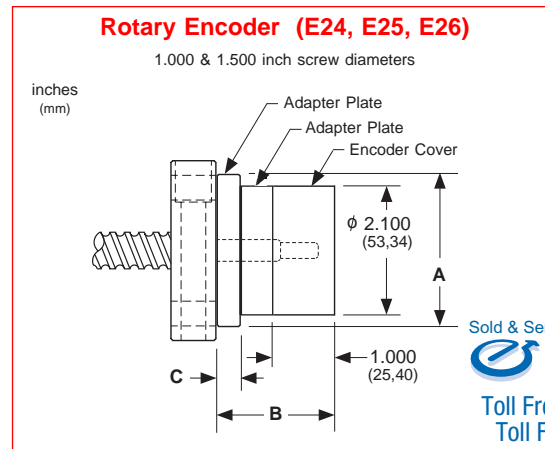
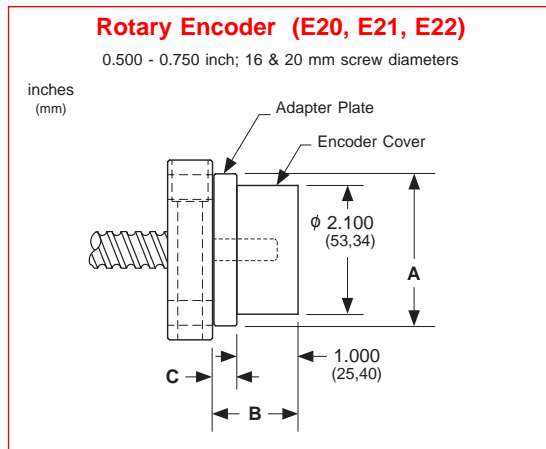
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[www.electromate.com](http://www.electromate.com)  
[sales@electromate.com](mailto:sales@electromate.com)

Motor Wrap Frame Size	Motor Pulley Dia. inches (mm)	Motor Pulley Weight ounces (kgf)	Screw Pulley Dia. inches (mm)	Screw Pulley Weight ounces (kgf)	Belt Weight ounces (kgf)
<b>NEMA 23</b>	1.65 (41,9)	7.5 (0,21)	1.65 (41,9)	7.5 (0,21)	1.0 (0,028)
<b>NEMA 34</b>	1.65 (41,9)	8.0 (0,23)	1.65 (41,9)	8.0 (0,23)	1.2 (0,034)
<b>NEMA 42</b>	2.12 (53,9)	19.2 (0,54)	2.12 (53,9)	19.2 (0,54)	3.0 (0,085)

## Rotary Incremental Encoders

Fully enclosed, shaftless, incremental, optical rotary encoders can be mounted to the screw extension located on the support housing opposite the motor mount end. These encoders are mounted to an adapter plate that is mounted to the face of the housing. An incremental encoder is ideal for providing positional feedback to either a motion controller, or a digital position display.

Specification	ROTARY ENCODERS		
	E20/E24	E21/E25	E22/E26
<b>Line Count</b>	500 lines/rev	1000 lines/rev	1270 lines/rev
<b>Pre Quadrature Resolution</b>	0.002 revs/pulse	0.001 revs/pulse	0.00079 revs/pulse
<b>Post Quadrature Resolution</b>	0.0005 revs/pulse	0.00025 revs/pulse	0.00019 revs/pulse
<b>Maximum Speed</b>	60 revs/sec		
<b>Maximum Accel</b>	4 G's		
<b>Excitation Power</b>	+ 5 VDC @ 125 ma		
<b>Operating Temperature</b>	32° F to 230° F (0° C to 100° C)		
<b>Humidity</b>	20% to 98% non condensing		
<b>Shock</b>	50 G's for 11 msec duration		
<b>Weight</b>	4.5 ounces		
<b>Cable Length</b>	10 ft (3 m), unterminated 26 gauge leads		
<b>Zero Reference Output</b>	Once per revolution		
<b>Outputs</b>	TTL square wave; Two channel (A+ & B+); Differential (A- & B-); Line Driver		



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Wire Color	Description
White	Channel A <sup>+</sup> (or A)
Blue	Channel A <sup>-</sup> (or $\bar{A}$ )
Green	Channel B <sup>+</sup> (or B)
Orange	Channel B <sup>-</sup> (or $\bar{B}$ )
White/Black	Channel Z <sup>+</sup> (or Z)
Red/Black	Channel Z <sup>-</sup> (or $\bar{Z}$ )
Black	Common
Red	+ 5 vdc (+/- 5%)

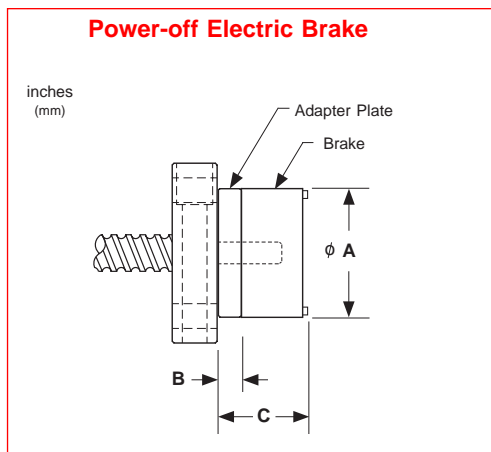
Screw Diameters	Encoder Version	A in (mm)	B in (mm)	C in (mm)	Weight lbs (kgf)
<b>0.500 to 0.750 inch 16 &amp; 20 mm</b>	E20, E21 & E22	2.500 (63,50)	1.375 (34,92)	0.375 (9,52)	1.0 (0,45)
<b>1.000 inch</b>	E24, E25 & E26	3.500 (88,90)	2.200 (55,88)	0.500 (12,70)	1.4 (0,63)
<b>1.500 inch</b>	E24, E25 & E26	4.250 (107,95)	2.425 (61,59)	0.625 (15,87)	1.6 (0,73)

## Power-off Electric Brakes

For vertical applications, or for those applications requiring the load to be locked securely in place, an electric brake may be mounted to the ball screw assembly. The RS, PS, GS series can have the brake mounted to the screw extension located on the support housing opposite the motor mount end. This power-off friction brake ensures the ball screw is firmly held in place when no electric power is applied. This prevents the ball screw from rotating. When power is applied to the brake, the brake is opened or "released", thus, allowing rotation of the screw. For proper emergency holding of the ball screw, this electric brake needs to be interfaced to a position controller or relay network. *LINTECH* also provides 24 & 90 VDC power supplies which can be used to power the brakes.

Screw Diameters	Brake Version	Holding Force	Excitation Voltage	Current
		in-lbs (N-m)	volts	amps
0.500 to 0.750 inch 16 & 20 mm	B20	18 (2,03)	24 VDC	0.733
	B21	18 (2,03)	90 VDC	0.178
1.000 inch	B22	84 (9,49)	24 VDC	0.973
	B23	84 (9,49)	90 VDC	0.239
1.500 inch	B24	180 (20,3)	24 VDC	1.136
	B25	180 (20,3)	90 VDC	0.287

**Note:** This power-off electric brake MUST NOT be engaged when the ball screw is in motion. Moving the screw with the brake applied could damage the brake and the ball screw assembly. Also, continuous use of this brake to stop the load that is in motion could damage the brake and the ball screw assembly. Dynamic braking of a ball screw assembly should be done by the motor and not the brake.



Screw Diameters	Brake Version	A in (mm)	B in (mm)	C in (mm)	Weight lbs (kgf)
0.500 to 0.750 inch 16 & 20 mm	B20 & B21	2.460 (62,48)	0.375 (9,52)	2.125 (53,97)	1.7 (0,77)
1.000 inch	B22 & B23	3.520 (89,41)	0.500 (12,70)	2.350 (59,69)	4.1 (1,86)
1.500 inch	B24 & B25	4.270 (108,46)	0.625 (15,87)	2.650 (67,31)	5.5 (2,49)

## Power Supplies

Model Number	DC Output			AC Input		
	volts	amps	style	volts	amps	Hz
41970	5	3.0	regulated	120 / 240	0.8 / 0.4	47-63
37488	24	1.2	regulated	120 / 240	0.8 / 0.4	47-63
37489	90	0.8	unregulated	120	1.0	50/60
37490	90	0.8	unregulated	240	0.5	50/60

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Specifications subject to change without notice