

Rotary Encoder Selection for UNISLIDES, BISLIDES, XSLIDES, Rotary Tables

Linear

Encoder CPR --->		100	200	250	400	500
		Encoder Resolution (inches/mm) (Suggested Encoder Resolution in BOLD Type)				
<u>Leadscrew</u>						
C/P40	0.0025 in/rev	0.000025	0.000013	0.000010	0.000006	0.000005
	mm/rev	<i>0.00064</i>	<i>0.00032</i>	<i>0.00025</i>	<i>0.00016</i>	<i>0.00013</i>
B/P20	0.050 in/rev	0.000500	0.000250	0.000200	0.000125	0.000100
		<i>0.01270</i>	<i>0.00635</i>	<i>0.00508</i>	<i>0.00318</i>	<i>0.00254</i>
W1/P10/E01	0.100 in/rev	0.001000	0.000500	0.000400	0.000250	0.000200
		<i>0.02540</i>	<i>0.01270</i>	<i>0.01016</i>	<i>0.00635</i>	<i>0.00508</i>
W2/P5	0.200 in/rev	0.002000	0.001000	0.000800	0.000500	0.000400
		<i>0.05080</i>	<i>0.02540</i>	<i>0.02032</i>	<i>0.01270</i>	<i>0.01016</i>
W4/P2.5/E04	0.400 in/rev	0.004000	0.002000	0.001600	0.001000	0.000800
		<i>0.10160</i>	<i>0.05080</i>	<i>0.04064</i>	<i>0.02540</i>	<i>0.02032</i>
K1/Q1/M01	in/rev	0.000394	0.000197	0.000157	0.000098	0.000079
	1.00 mm/rev	0.01000	<i>0.00500</i>	<i>0.00400</i>	<i>0.00250</i>	<i>0.00200</i>
K2/Q2/M02		0.000000	0.000000	0.000000	0.000000	0.000000
	2.00 mm/rev	<i>0.00000</i>	0.01000	<i>0.00000</i>	<i>0.00000</i>	<i>0.00000</i>
Suggested encoder (250 CPR) for C/P40 Leadscrew highlighted as an example						

Rotary

Encoder CPR --->		100	200	250	400	500
		Encoder Resolution (degrees) (Suggested Encoder Resolution in BOLD Type)				
<u>Model</u>						
B4818TS	20 deg/turn*	0.200000	0.100000	0.080000	0.050000	0.040000
B4836TS	10 deg/turn*	0.100000	0.050000	0.040000	0.025000	0.020000
B4872TS	5 deg/turn*	0.050000	0.025000	0.020000	0.012500	0.010000
B5990TS	4 deg/turn*	0.040000	0.020000	0.016000	0.010000	0.008000

* deg/turn of input shaft