

# Velmex Encoder Selection

## Rotary Encoder Resolution for UniSlides®, BiSlides®, XSlide™ and Rotary Tables

Linear Assemblies					
	Encoder CPR** --->	100	200	400	500
	PPR** --->	400	800	1600	2000
Leadscrew Code	Encoder Resolution** (inches/mm)				
<b>C / P40 / E25</b>	0.025 in/rev	0.0000625	0.00003125	0.00001562	0.0000125
	<i>0.535 mm/rev</i>	<i>0.0015875</i>	<i>0.00079375</i>	<i>0.00039687</i>	<i>0.0003175</i>
<b>B / P20 / E50</b>	0.050 in/rev	0.000125	0.0000625	0.00003125	0.000025
	<i>1.27 mm/rev</i>	<i>0.003175</i>	<i>0.0015875</i>	<i>0.00079375</i>	<i>0.000635</i>
<b>W1 / P10 / E01</b>	0.100 in/rev	0.000250	0.000125	0.00006250	0.000050
	<i>2.54 mm/rev</i>	<i>0.006350</i>	<i>0.003175</i>	<i>0.00158750</i>	<i>0.001270</i>
<b>W2 / P5 / E02</b>	0.200 in/rev	0.000500	0.000250	0.000125	0.000100
	<i>5.08 mm/rev</i>	<i>0.012700</i>	<i>0.006350</i>	<i>0.003175</i>	<i>0.002540</i>
<b>W4 / P2.5 / E04</b>	0.400 in/rev	0.001000	0.000500	0.000250	0.000200
	<i>10.16 mm/rev</i>	<i>0.025400</i>	<i>0.012700</i>	<i>0.006350</i>	<i>0.005080</i>
<b>K1 / Q1 / M01</b>	<i>1.00 mm/rev</i>	0.002500	0.012500	0.000625	0.000500
	0.03937 in/rev	0.000098	0.000049	0.0000246	0.000019
<b>K2 / Q2 / M02</b>	<i>2.00 mm/rev</i>	0.005000	0.002500	0.001250	0.001000
	0.07874 in/rev	0.000196	0.000098	0.000492	0.000039
Rotary Tables	Encoder CPR --->	100	200	400	500
	PPR** --->	400	800	1600	2000
Model	Advance/Turn	Encoder Resolution (in degrees)			
<b>B4818TS</b>	20 deg/turn*	0.050000	0.025000	0.012500	0.010000
<b>B4836TS</b>	10 deg/turn*	0.025000	0.012500	0.062500	0.005000
<b>B4872TS</b>	5 deg/turn*	0.012500	0.006250	0.003125	0.002500
<b>B5990TS</b>	4 deg/turn*	0.010000	0.050000	0.025000	0.002000

\* deg/turn of input shaft    \*\*CPR=Cycles per rev    PPR=Pulses per rev    1 cycle = 4 pulses



Positioning Systems for Science and Industry

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