



Rotary Maximum Revolutions

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INTRODUCTION

Use these charts for each rotary model. These charts show the maximum rotation that the rotary can turn.

1. Sigma 5 motors have more encoder counts per revolution, so fewer revolutions are possible.
2. For software version M18.14A and later, maximum revolutions are limited to Sigma 5 values.
3. Next Generation Control (NGC) machines have no limit on the number of revolutions.

Sigma 1 Motor

Model	Approximate Maximum Rotation (degrees)	Approximate Maximum Revolutions
HA5C	393,216	1,092
HRT A5	187,246	520
HRT A6	131,072	364
HRT110	1,179,648	3,277
HRT160	187,246	520
HRT210	131,072	364
HRT310	163,840	455
HRT450	109,227	303
HRT600	93,263	260
TRT110	1,179,648	3,277
TR160	187,246	520
TR210	131,072	364
TR310	163,840	455
EC-1600/ZT	47,186	131

Sigma 5 Motor

Model	Approximate Maximum Rotation (degrees)	Approximate Maximum Revolutions
HA5C	49,152	137
HRT A5	23,406	65
HRT A6	16,384	46
HRT110	36,864	102
HRT160	23,406	65
HRT210	16,384	46
HRT310	20,480	57
HRT450	13,653	38
HRT600	11,703	33
HRC160	81,920	228
HRC210	81,920	228
TRT110	36,864	102
TR160	23,406	65
TR210	16,384	46
TR310	20,480	57
TRT100	368,640	1,024
UMC-750/SS	13,653	38
EC-1600/ZT	5,898	16