

Test Stand that works (PEPPEX Chassis)

Parameter file name: test_stand_061422.prm

Motor: HT23-601C (Applied Motion)

Encoder: Resolute Encoder RL26BAE050D30A

Pitch: 5mm

Positive Dir: to the left

Counts/unit

Encoder = 50nm resolution => 1 count of encoder = 5×10^{-5} mm

Counts/unit = $1 / (5 \times 10^{-5}) = 20000$

Counts/rev

1 motor revolution = 5 mm

=> $20000 \times 5 = 100000$

If 0 pos is set at right end:

Speed at 1mm/sec:

CW end of travel limit switch encoder reading: 139.2416mm

CCW end of travel limit switch encoder reading: 52.6566mm

mid point= 95.9622mm

0 pos is set at middle:

Speed at 1mm/sec:

CW end of travel limit switch encoder reading: 43.3323mm

CCW end of travel limit switch encoder reading: -43.3531mm