

Motion Axis Data (M.Brown 4/6/00)

- **CAROUSEL**

Encoder Counts /Revolution	64 (16*4=64cnts)Quadrature
Gear reduction at gearbox	1526:1
Gear reduction at Belt drive	1.875:1
Counts per revolution	183120
Counts per Tube	16647
Counts per degree	508.667

- **LINEAR SHUTTLE**

Encoder Counts /Revolution	64 (16*4=64cnts)
Gear reduction at gearbox	246:1
Gear reduction at Belt drive	17:24
Ball Screw Pitch =1/8 Inch	8 revolutions = 1 inch
Counts per revolution	11152
Counts per Inch	89216

- **SYRINGE**

Encoder Counts /Revolution	64 (16*4=64cnts)
Gear reduction at gearbox	159:1
Gear reduction at Belt drive	1:1
Ball Screw Pitch =1/8 Inch	8 revolutions = 1 inch
Counts per revolution	10176
Counts per Inch	81408

- **CLAMP**

Encoder Counts /Revolution	64 (16*4=64cnts)
Gear reduction at gearbox	989:1
Ball Screw Pitch =.050 Inch	20 revolutions = 1 inch
Counts per revolution	63296
Counts per Inch	1265920

