C40 IMB Upgrade

02/21/2013

1. X-axis guider 1
   1. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each (4 on order)
   2. US Digital E2 relative Encoder E2-400-250-IE-D-D-8 1 each (5 each on hand)
   3. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity NPN N.C. 2 each (1 each on hand, 9 each on order)

Y-axis guider 1

1. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
2. US Digital E2 relative Encoder E2-400-250-IE-D-D-8 1 each
3. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity N.C. 2 each

Focus 1

* 1. Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 Part #: 57J47-05-003ENG 1 each (3 each on hand).
  2. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity NPN N.C. 2 each
  3. Air Cylinder, MRS-021.5-DXP Bimba 1 each
  4. Air Cylinder, MRS-022.5-DXP Bimba 1 each
  5. Air Cylinder, 0071 Bimba 1 each
  6. Position Sensors: Bimba MSKX 5 each
  7. S-H lenslet control
  8. LED control

1. X-axis guider 2
   1. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
   2. US Digital E2 relative Encoder E2-400-250-IE-D-D-8 1 each
   3. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity NPN N.C. 2 each

Y-axis guider 2

1. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
2. US Digital E2 relative Encoder E2-400-250-IE-D-D-8 1 each
3. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity NPN N.C. 2 each

Focus 2

1. Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 Part #: 57J47-05-003ENG 1 each
2. Pepperl+Fuchs NBN4-F29-AO Inductive Proximity NPN N.C. 2 each
3. Air Cylinder, MRS-021.5-DXP Bimba 1 each
4. Air Cylinder, MRS-022.5-DXP Bimba 1 each
5. Air Cylinder, 0071 Bimba 1 each
6. Position Sensors: Bimba MSKX 5 each
7. S-H lenslet control
8. LED control
9. Filter Wheel 1

6 position

Detent A microswitch Honeywell 311SM4-T 1 each

Detent B microswitch Honeywell 311SM4-T 1 each

TMG 5609L-0502 0.9 Degree, 400 Steps/Rev Hybrid Stepper, NEMA 23 1 each

Encoder: BEI-HS35F absolute hollow core 4096 or 8192 counts/rev 1 each

1. Filter Wheel 2

6 position

Detent A microswitch Honeywell 311SM4-T 1 each

Detent B microswitch Honeywell 311SM4-T 1 each

TMG 5609L-0502 0.9 Degree, 400 Steps/Rev Hybrid Stepper, NEMA 23 1 each

Encoder: BEI-HS35F absolute hollow core 4096 or 8192 counts/rev. 1 each

1. Galil DMC-4080(ISCNTL)-C012(P422)-I200(SSI,STEP)-I200(SSI,STEP)-D4040-D4040 1 each (on hand)