ASI CONTROLLER LABEL INFORMATION

1. **PRODUCT NUMBER** in all system starts with a 2-3 letter prefix that specifies the type of controller being used followed by the 4 digit controller generation and lastly the encoder type code.

   **Example:**
   
   MS = Desktop Controller with Joystick
   2000 = Generation
   500 = Count/rotation Z axis encoder
   CP = CRISP daughter board installed

   **Other controllers:**
   
   MS = MS-2000 Controller
   MFC = Multi-Focus Controller
   RM = Rack Mount Controller

2. **MODEL NUMBERS** starts with a 2-3 letter prefix that specifies the type of control board used followed by the stage axis information and encoder status or special axis information and is ended with the type of microscope or item the system is to be attached to. Each set of numbers/letters is separated by a ‘-‘.

   **Example:**
   
   WX = MS2000 controller with a Wiz Kid motherboard
   Options for special character, normally left off
   XYBH = XY stage information (B=Course Pitch
   04 TPI H= Heidenhain Linear Encoder
   APZ50 = Z axis information (ADEPT Piezo 500 µm, could also be a rotary motor silver = Zs, or Linear Z stage Z5A = 50 µm stage 16 TPI pitch)
   F5A = Fourth Axis (5=50 mm travel A= Fine Pitch 16 TPI)
   FW = Special Function/Capability
   DMI8FT = System Microscope

   **Optional controller Special Characters:**
   
   Upright stages will have a character for this designation in the model number as WKU. The character “6” is for the 6” Stage, 8 = Eight Inch Stage, 10 = Ten Inch Stage, and 94 = 9” x 4” Stage

   **Options for XY Stage portion:**
   
   XYBH
   X = Signifies this info is for the XY Stage
   Y = Stage has Course Pitch Lead screws
   H = Stage has Heidenhain Linear Encoders

   Stage Index is always started with an ‘XY’ and followed with options in the following order:

   L – Older Linear Encoder
   H – Heidenhain Linear Encoder
   U – Ultra Fine Pitch 40 TPI
   A – Fine Pitch 16 TPI
   B – Course Pitch 04 TPI
   C – Very Coarse pitch 02 TPI
   D – Ultra Coarse Pitch 01 TPI

   **OPTIONS FOR Z AXIS PORTION:**
   
   APZ xx - ADEPT Piezo Z drives:
   15 - 150 Micron Travel
   30 - 300 Micron Travel
   50 - 500 Micron Travel

   PZ XX - Older Piezo Z drives:
   10 - 100 Micron Travel
   20 - 200 Micron Travel

   Z - Standard Rotary Z Drive:
   S = Silver Motor
   L = Has Linear Encoder
Z - Linear Positioner:
5 - 50 mm travel
10 - 100 mm travel
15 - 150 mm travel
20 - 200 mm travel

U – Ultra Fine Pitch 40 TPI
A – Fine Pitch 16 TPI
B – Course Pitch 04 TPI
C – Very Coarse pitch 02 TPI
D – Ultra Coarse Pitch 01 TPI
H – Has Heidenhain Linear Encoder

Example Z5A – LS50 type motor where the ‘5’ represents the length (50 mm travel) and ‘A’ is the pitch (16TPI)

F - EXTRA AXIS OR FEATURES
Any special features that are then added:
M = Magnification Focus (as on a stereo microscope)
AF = Auto Focus
PT = Photo Tracker
LT = Laser Tracker
T = Theta rotary stage
TF = Tif Actuator
Mt = Motorized Turret
CS = Cube Slider

3. SERIAL NUMBER contains 3 - 4 digit numbers separated by dashes. The Serial Number starts with a composite number whose first two digits represent the year and whose second digits represent the month. The next is the controller serial number, then the stage serial number, then the Z axis serial number, then the F axis serial number. Lastly is any special option serial number like CRISP numbers.