	Acorn	Acorn Six
Servo Motor types	Steppers or AC, Open or Hybrid Closed loop	Steppers or AC, Open or Hybrid Closed loop.
Maximum number of Axes	4	6
Compatible with Mills, Lathes, Routers,and other specialty machines	Yes	Yes
AC Servo Motor/Drive compatible	Yes, (Step and Direction)	Yes, (Step and Direction)
DC Servo Motor/Drive compatible	Yes, (Step and Direction)	Yes, (Step and Direction)
Stepper Motor/Drive compatible	Yes	Yes
True Closed Loop Operation	No	Scales for Position correction
Built in Motion Control CPU	Yes	Yes
Built in DC servo motor amplifier	No	No
Built in PLC	Yes 8 In, 8 Out	Yes 16 In, 16 Out
Optional input output expansion board	Yes	Yes
Optically Isolated Inputs	Yes	Yes
Fused Relay Outputs	No, installer adds fuse	No, installer adds fuse
On board relay output types	Ribbon cable to Relay 8 board	Ribbon cable to Relay 8 board
Built-in Analog spindle control output	Yes 0-10 vdc or 0-5 vdc	Yes, 0-10, +-10, 0-5, +-5 12 bit
PWM output for Laser and/or Spindle	Yes, 1 PWM output	Yes, 2 PWM output
Runs on Centroid Millor Lathe or Router CNC software	Yes	Yes
Uses Standard G and M codesYes	Yes	Yes
Probing and Digitizing compatible	Yes	Yes
Compression and Rigid Tapping Compatible	Yes	Yes
Automatic Tool Measurement Compatible	Yes	Yes
Spindle Encoder feedback,w/ RPM display	Yes	Yes
Lathe Constant Surface Speed	Yes	Yes
Lathe Threading	Yes	Yes
Compatible with Windows 10	Yes	Yes
Centroid Touch Screen Operator Control Panel Compatible	Yes	Yes
Centroid Operator Control Panel Hardware Compatible	No	Yes
Xkeys & Xbox Controller/Panel Compatible	Yes	Yes
Centroid CNC Console Compatible	No	Yes
Keyboard Jogging and controls compatible	Yes	Yes
Encoder Expansion Board Compatible	No	Yes
PLC Expansion Board Compatible	Yes	Yes
Analog IN/OUT Expansion Board Compatible	No	Yes
Hi performance MPG connector	No	Yes
Wireless USB MPG Compatible	Yes	Yes
CNC Configuration Wizard	Yes	Yes
Built in Encoder ports	1	3
Maximum Inputs and Outputs	56 in/ 56 out	96 in / 96 out
Maximum # of Encoder connections	1	9
Maximum # of Analog outputs	1	6
Velocity Mode	No, (Step and Direction only)	No, (Step and Direction only)
Position Mode	No, (Step and Direction only)	No, (Step and Direction only)
Real Time Hardware Based Step and Direction Output	Yes	Yes
Axis Motor Tuning	Yes, Accell/Decell	Yes, Accell/Decell
Stepper motor Drive Compatible	Yes	Yes
AC Servo Drive compatible	Yes	Yes
Yaskawa, Delta, SureServo	Yes	Yes
Motion control off-loaded from CNC PC CPU	Yes	Yes
G code Smoothing	Yes	Yes

Paired Axis capability	Yes, hardware and software techniques	Yes, hardware and software techniques
DIY Kits available	Yes	Yes
Any axis can be Linear of Rotary Axis	Yes	Yes
Rotary Table Compatible	Yes	Yes
Build your own compatible CNC PC	Yes	Yes
Factory CNCPC with preloaded CNC software available for purchase	Yes	Yes
(USA market 110 VAC, World 220-240 VAC)	Yes	Yes
Spindle Motor can run on single phase 220-240 VAC	Yes	Yes