Soft Servo SYSTEMS, INC

ServoWorks™ CNC Product Comparison Guide

Features	ServoWorks MC-Quad	ServoWorks S-100M	ServoWorks S-120M	ServoWorks S-140M	ServoWorks S-200M*	ServoWorks S-100T
Target machines	General 4-axis CNC machines without a spindle control	Mills and machining centers	Mills and machining centers	Mills and machining centers	Mills and machining centers requiring 5-axis machining (for complex free-form shapes in a single setup)	Lathes
Number of CNC axes	4	3	4	5	5	2
Advanced 5-axis machining					✔	
Spindle axis		✔	✔	✔	✔	✔
C axis control		✔	✔	✔	✔	✔
PLC axes			✔	✔	✔	
Spindle gear change					✔	✔
Canned cycles and advanced machining functions	None, but can be customized	Complete drilling and boring canned cycles, including rigid tapping	Complete drilling and boring canned cycles, including rigid tapping	Complete drilling and boring canned cycles, including rigid tapping	Complete drilling and boring canned cycles PLUS rigid tapping, tilted working plane commands, 3-D coordinate conversion, 3-D circular interpolation, 3-D handle feed, tool center point control and rotary table dynamic fixture offset, 3-D tool radius compensation	Drilling, profiling, grooving, chamfering, indexing, boring, multi-pass threading, live tool features
Optional dual-axis synchronization control	✔		✔	✔	✔	
Optional macro functions	✔	✔	✔	✔	✔	✔
Optional 3-D DLACC (look-ahead)	✔	✔	✔	✔	✔	
Includes Ladder-Works PLC	✔	✔	✔	✔	✔	✔
Includes Ladder-Works Console	✔	✔	✔	✔	✔	

* Under development

Features	ServoWorks MC-Quad	ServoWorks S-100M	ServoWorks S-120M	ServoWorks S-140M	ServoWorks S-200M[*]	ServoWorks S-100T
Customized axis naming		✓	✓	✓	✓	
800 configurable alarm messages programmable through PLC	✓	✓	✓	✓	✓	✓
Linear scale feedback control	✓	✓	✓	✓	✓	✓
Tool compensation	✓	✓	✓	✓	✓	✓
Workpiece coordinates	✓	✓	✓	✓	✓	✓
Linear interpolation	✓	✓	✓	✓	✓	✓
Circular interpolation	✓	✓	✓	✓	✓	✓
Helical interpolation	✓	✓	✓	✓	✓	
Exponential interpolation	✓	✓	✓	✓	✓	
Cylindrical interpolation						✓
Polar coordinate interpolation						✓
Manual feedrate override	0–254%	0–254%	0–254%	0–254%	0–254%	0–230%
Per minute & per revolution feed		✓	✓	✓	✓	✓
Constant surface speed control						✓
Servo platforms available	VersioBus II, MECHATROLINK, RTEX, SSCNET	VersioBus II, MECHATROLINK, RTEX, SSCNET	VersioBus II, MECHATROLINK, RTEX, SSCNET	VersioBus II, MECHATROLINK, RTEX, SSCNET	VersioBus II, MECHATROLINK, RTEX, SSCNET	VersioBus II, MECHATROLINK, RTEX, SSCNET
Individual axis machine lock	✓	✓	✓	✓	✓	✓
Individual axis & individual direction interlock	✓					✓
Includes ServoWorks MotionLite	✓	✓	✓	✓	✓	
Customizable for special CNC requirements	✓	✓	✓	✓	✓	✓

* Under development

Consult the ServoWorks CNC Product Parts List or your Soft Servo Systems sales representative regarding standard and optional features for these products.

Soft Servo Systems, Inc.
Control the Future