

ServoWorks™ CNC Product Comparison Guide

| Features | ServoWorks S-100M | ServoWorks S-120M | ServoWorks S-140M | ServoWorks S-100T | ServoWorks S-120T |
|--|---|---|---|---|---|
| Target machines | Mills and machining centers | Mills and machining centers | Mills and machining centers | Lathes | Lathes |
| Number of coordinated CNC axes | 3 | 4 | 5 | 2 | 3 |
| Spindle axis | ✓ | ✓ | ✓ | ✓ | ✓ |
| Number of PLC axes or synchronous control axes | 0 | 3 | 2 | 0 | 0 |
| Total axes | 4 | 8 | 8 | 3 | 4 |
| C axis control | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spindle gear change | | | | ✓ | ✓ |
| Canned cycles and advanced machining functions | 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 | Drilling, profiling, grooving, chamfering, indexing, boring, multi-pass threading, live tool features | 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 | ✓ | ✓ | ✓ | | |

| Features | ServoWorks S-100M | ServoWorks S-120M | ServoWorks S-140M | ServoWorks S-100T | ServoWorks S-120T |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 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% | 0–230% | 0–230% |
| Per minute & per revolution feed | ✓ | ✓ | ✓ | ✓ | ✓ |
| Constant surface speed control | | | | ✓ | ✓ |
| Servo platforms available | EtherCAT, MECHATROLINK II & III | EtherCAT, MECHATROLINK II & III | EtherCAT, MECHATROLINK II & III | EtherCAT, MECHATROLINK II & III | EtherCAT, MECHATROLINK II & III |
| Individual axis machine lock | ✓ | ✓ | ✓ | ✓ | ✓ |
| Individual axis & individual direction interlock | | | | ✓ | ✓ |
| Includes ServoWorks MotionLite | ✓ | ✓ | ✓ | | |
| Customizable for special CNC requirements | ✓ | ✓ | ✓ | ✓ | ✓ |

