

All-Digital Indexer Control



Indexer Control

- Used with GD5C2, GD16C2, GD3J2, GD160LP and GD210LP Indexers
- Advanced G-code programming supports hardware and software limit switches and clamping
- Three additional inputs and outputs support external 24V accessories
- 120 or 240vac operation
- A nonvolatile memory retains your program even when power is turned off
- Program to rotate the spindle clockwise or counter-clockwise with step sizes from .001 to 9999.99 degrees



Optional Handwheel

- Compact Size: 5.60 x 3.25 x 1.53"
- Detented hand wheel positions
- Two handed safe operation
- Eight foot connector cable
- Handle design for hanging
- Anti-skid rubber feet



The Hardinge all-digital indexer controls are current generation, easy to use and will support either brush or brushless indexers. A multi-line display reduces scrolling and user manual dependency. Connect via a standard interface cable or use the RS-232 port. Upload and download your programs via a USB 2.0 compatible memory device.

INDEXER CONTROL PROGRAMMING FEATURES

AUTOMATIC CIRCLE DIVISION	You can program a step that automatically divides a circle into any number of equal parts between 2 and 999
CONTINUOUS ROTATION CAPABLE	Continuous rotation with no limit to the number of revolutions through G-code function
STOP	You can use the CYCLE STOP to feed-hold spindle movement without losing position on restart
FAST SET-UPS	All connectors are "quick-disconnect", ensuring fast and easy set-ups
INTERFACING	Most CNC mills can be interfaced quickly and easily by using a spare M function which provides a switch-closer as a signal between your mill and the control
LINEAR & SPIRAL MILLING	For semi fourth-axis capability
MEMORY	A nonvolatile memory retains your program even when power is turned off
PROGRAM STORAGE	Store and recall from 1 up to 9999 different programs
PROGRAMMABLE PARAMETERS	You can alter many of the basic features by performing your own basic programming
PROGRAMMING	Program to rotate the spindle clockwise or counter-clockwise with step sizes from .001 to 9999.99 degrees
ABSOLUTE OR INCREMENTAL PROGRAMMING	Up to 500 different steps can be stored in memory and each step can be repeated (looped) 999 times
RS-232 INTERFACE	For computer control of sending and receiving programs and running RS-232 commands from machine
RESOLUTION	Standard resolution of .001 degrees
SIMPLE EDITING	Edit a program by simply writing over existing steps, or inserting or deleting a line (or several lines) between steps, with automatic program line renumbering
SUBROUTINES	Allows you to repeat sequences up to 999 times saving programming time and memory space
VARIABLE FEED RATES	Variable from .001 deg/sec to 2150 deg/sec (limited by indexer model)
ZERO RETURN	An "automatic home" position can be programmed to return the spindle to its original starting position from any point

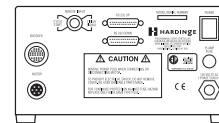
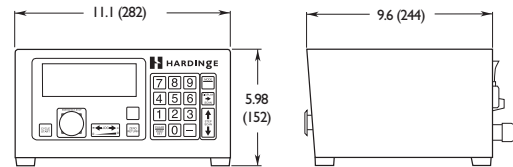
Standard Features

- Supports either brush or brushless motor indexers made by Hardinge and other rotary system manufacturers
- Store up to 9999 programs with up to 500 steps in each program
- Multiple line LCD display will allow you to view the program number, step number, loop count and preparatory g-code without scrolling
- Intelligent power module (drive electronics) to bring the best possible system to your machining center or knee mill
- Parameter number as well as its definition can be viewed in logical English with Parameter Help for some entries.
- Error and fault messages will be displayed to help diagnose problems
- Expanded diagnostic capabilities allow faster troubleshooting and part program debugging.
- External RS232 communication rates to 19.2bps supporting the latest speeds for sending and receiving data
- Communication parameters can be adjusted to support stop bits, data bits and different baud rates to work with different machine tool brands
- Memory is nonvolatile so that the program content is fully captured and will be maintained after power off conditions

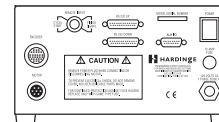
Cable Management Options

- Cable Retractor Kits are available for use with the standard 9-foot main cable(s) that attaches the rotary table to the connectors in the roof of the machining compartment - for fully integrated rotary tables only:
For Gear Driven Systems – Part No. CI 000301 | CSRK
For Direct-Drive Systems – Part No. RT 000301 | CSRK
- Rectangular wall mount Cable Frame Kit is used to route cabling out through the sheet metal of the machine - for indexers operated via indexer control only:
Part No. CI 001208205
- Quick-Connect CNC Cable for use with Bridgeport GX machines that have a wired rotary connection located in the power case - for indexers operated via indexer control only:
Part No. CI 000301 | ICQC

Standard and Enhanced Servo Control Dimensions:



Standard Back Panel



Enhanced Back Panel

Direct-Drive Back Panel



Horizontal mount
tilting stationary shelf



Vertical mount
tilting swivel shelf