

# Indexer Servo Controller

[www.DanaherMotion.com](http://www.DanaherMotion.com)



## DESCRIPTION

Fast 360° per second Indexing Speed controller, Multiple- line LCD Display providing fast and easy setups - Store up to 50 Programs (up to 1000 steps per program) All- Digital Control supports either brush or brushless motor indexers.

## RATIONALE

5C Rotary Indexing System with an all-digital servo control generations ahead of the electronic features in today's benchmark unit.

## SOLUTION

Digital control with an intelligent power module (drive electronics) for cool and quiet operation resulting in a highly efficient system. This combination of high- level servo control technology backed by Danaher Motion, and the reliability that Hardinge has engineered into the mechanical indexer offers the user fast indexing and programming.

## Applications

- 5C Rotary Indexing System

## FEATURES

Servo control multiple line LCD display that lets you view and edit the program number, step number, loop and preparatory code all on one screen. You can store up to 50 programs with up to 1000 steps in each program. The parameter number as well as its definition can be viewed in logical English. Error and fault messages are displayed to help diagnose problems quickly. The four line display means you are viewing all critical data, eliminating scrolling and spending less time referring to the operator's manual. The servo control has the ability to handle baud rates up to 56 k supporting the latest speeds for sending and receiving data. RS-232 communication parameters can be adjusted to support stop bits, data bits and different baud rates to work with different machine tool brands, and is accessible for remote diagnostics and the servo control can be used as a direct replacement for trouble-shooting. The current benchmark control in conjunction with either brush or brushless motor indexers. Parameters are common to the benchmark unit to ease operator integration from one brand to the other.

Download programs can be done via serial communication RS-232 connected to a PC or via IR InfraRed communication and Pocket PC.

### Feedback

- Incremental encoder with halls and index pulse

### Motion Options

- Point-to-Point incremental or absolute with trapezoidal and S-Curve profiles acceleration and deceleration control
- Motion indexing profiles in memory
- Homing functions

### Velocity

- 360 deg/sec
- Resolution 0.001 degree

### Motor

- Custom AKM with new shaft and cabling design, P/N AKM41H-CSMN2-02

### I/O's

- 2 Input's, emergency stop, start motion
- 1 output, motion done

### Communication

- Serial communication RS-232
- ASCII Infrared communication for pocket PC
- Keypad

### Additional Features

- Serial communication RS-232 daisy chain
- Emergency stop button

## Rating

Type	Power supply AC Input One phase	Output Continuous Current Per Phase (RMS/Phase) @ 45°C	Output Peak Current Per Phase (RMS/Phase) 1 sec	VBUS
1	110-230	4.5	18	160-320

## Mechanical Dimensions

5.9" (height) X 11" (width) X 9.5" (length)