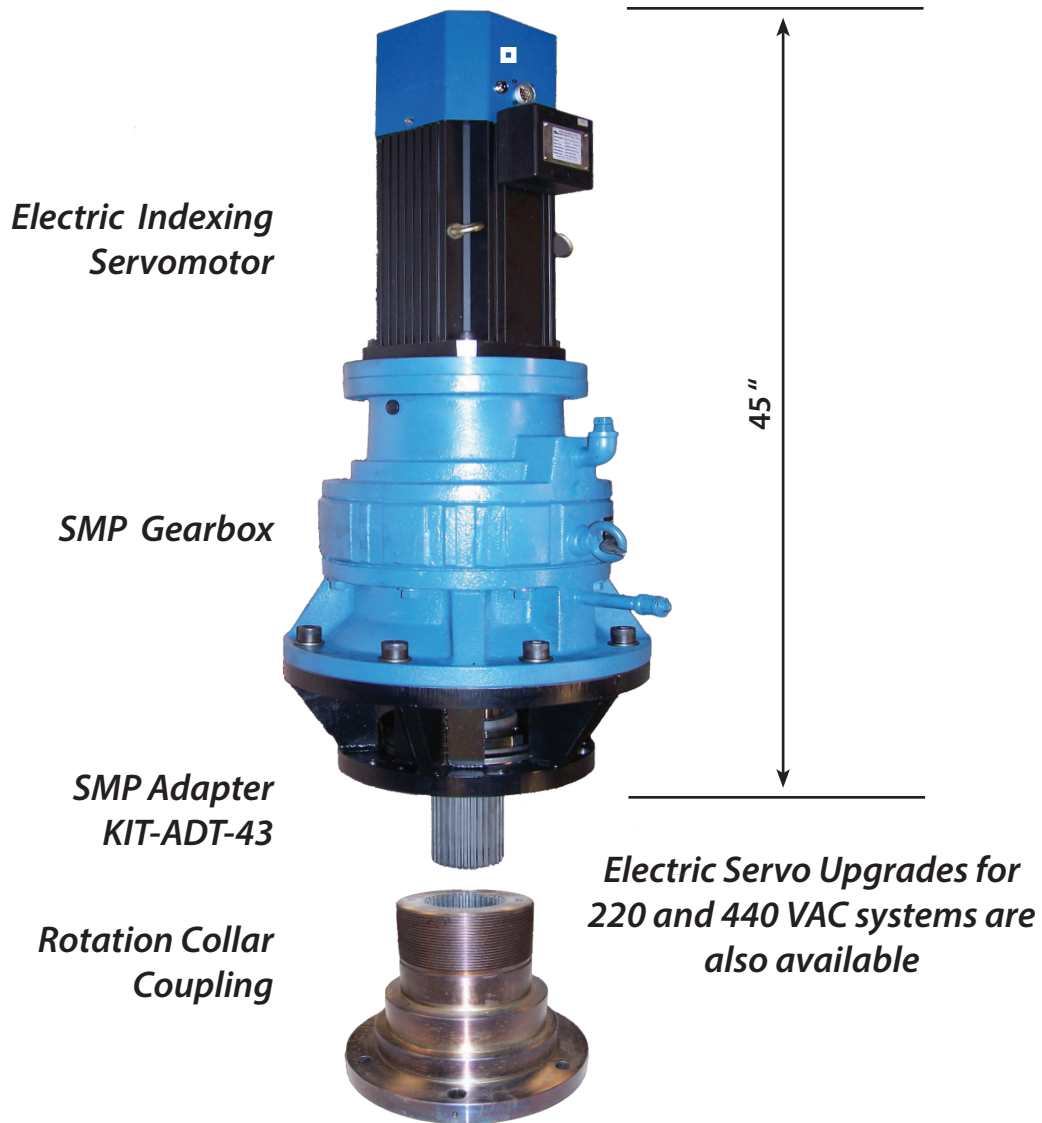


### Electric Drive Conversion for the Nissei Hydraulic ASB Blow Molding Indexing Table



#### **Overview**

The IIS electromechanical indexing system, designed to replace the hydraulic indexing drive, provides improved cycle times and a reduction in the hydraulic maintenance of the Nissei ASB Blow Molding indexing table. Power is supplied by a high performance AC servomotor and heavy duty gearbox to ensure the proper torque and speed is provided to complete a high cycle index time.

**Call us today at (585) 924-9181 to discuss this retrofit in greater detail**

626 Fishers Run, Victor, NY. 14564 ~ [info@iis-servo.com](mailto:info@iis-servo.com) ~ [www.iis-servo.com](http://www.iis-servo.com)

Industrial Indexing Systems developed a special conversion adapter for the gearbox, the KIT-ADT-43 (**Figure 1**), to provide a bolt-in replacement for the HR-20S type hydraulic motor.

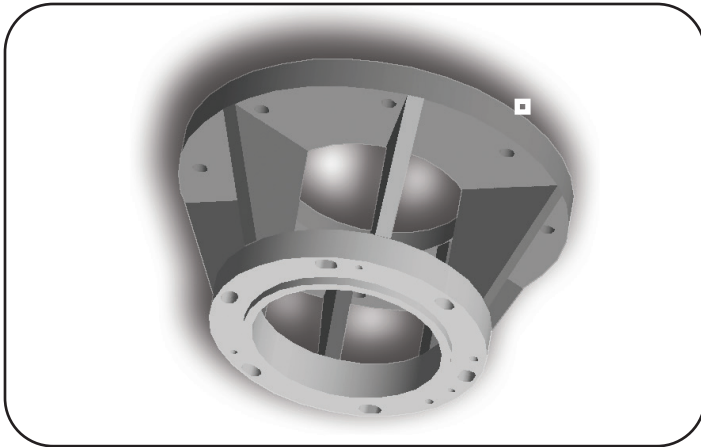


Figure 1

*KIT-ADT-43 Motor adaptor assembly designed to fit the ASB-650 table that uses the HR-20S type hydraulic motor*

## Cycle Time Improvement

Faster index completion time and an improved PLC scan time can reduce the index cycle time for the 90° move on the table to 1.3 seconds with a standard precision assembly or 0.99 seconds with a reduced backlash assembly. See **Figure 2** to observe an actual speed profile of an ASB-650 index table's cycle using a standard precision assembly.

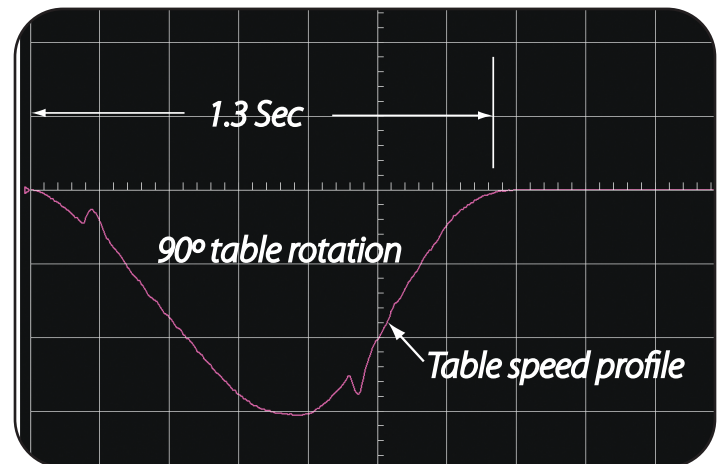


Figure 2

*Chart of actual speed profile and cycle time of the IIS electric indexing system for the ASB-650 blowing molding table*

## Simple Adjustments

Using a touchscreen interface mounted on the enclosure, the indexing table's acceleration and speeds can be adjusted on-the-fly for optimum performance.

## Conversion Process

The ASB-650 table modifications consist of removing the hydraulic motor and the rotation arm from the table assembly and installing the rotational collar coupling, available from Nissei. The motor/gearbox/adaptor assembly and electrical enclosure are then installed.

## Install, Setup, and Support

IIS can be contracted to provide a technician to install the wiring from the IIS enclosure to the servomotor and to assist in integrating the IIS indexing system into PLC

logic and controls. PLC programming is required for this retrofit and IIS can recommend a third party who is expert in the operation of the ASB machines.

## Other Programs

Electric Servo Upgrade kits for other obsolete electric and hydraulic motor based index tables are also available from IIS including:

- ASB-650, 220 and 440 VAC
- ASB-16, 220 and 440 VAC
- ASB-70, 220 and 440 VAC

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## **Mechanical Specifications:**

- Motor/Gear/Adaptor assembly: 300 Kg (660 lbs)
- Collar coupling: JIS D2001-1059
- Output Torque: 5200 Nm peak  
3220 Nm rated
- SMP Gear ratio: 71:1
- Standard motor cable lengths: 10 meters
- Index time with standard assembly 1.3 Seconds
- Index time with low backlash assembly 0.99 seconds

## **Electrical Specifications**

- Enclosure size: 30x24x14in  
(760x600x350mm)
- Current requirements: In-rush - 50 amps  
Rated - 50 amps
- Input voltage tolerances: 420Vac - 460Vac
- An external contactor is installed in the machine's main control panel and wired into the safety circuit.

**Note: The rotation collar and pins are not part of the IIS kit and are ordered separately from Nissei.**



*EN-667001 Enclosure*



*Blow Molded Bottles*



*Inside View of the Enclosure*

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# INDUSTRIAL INDEXING SYSTEMS, INC

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## Team IIS



## Headquarters in Victor NY



Our objective is to bring state-of-the-art servo system products to practical use on the factory floor. Whether it is a complete turnkey system or servo components, IIS' commitment to quality products and personalized support is unsurpassed. Our business philosophy is pretty simple. We take responsibility for everything we sell. By doing that we make a long-term commitment to our customer's success.

To accommodate the steady growth we've enjoyed over the years, our facility has been expanded several times to its present 17,000 square foot capacity. This location houses all critical departments - Sales, Marketing, Applications Engineering, R&D, Production, Warehouse, Panel Shop, Quality Control and Customer Support. Having everything under one roof speeds communications and provides better service to our customers.

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*If you would like to discuss the opportunity of becoming a Sales Representative for our organization, drive brand awareness, and develop business relationships with new and existing clients, please contact Mike Hupf, Sales Manager at (585)924-9181*



Ready to elevate the efficiency, consistency, and repeatability in your operations? Call us today at (585)924-9181 to discuss your application needs