

RING DEX 2

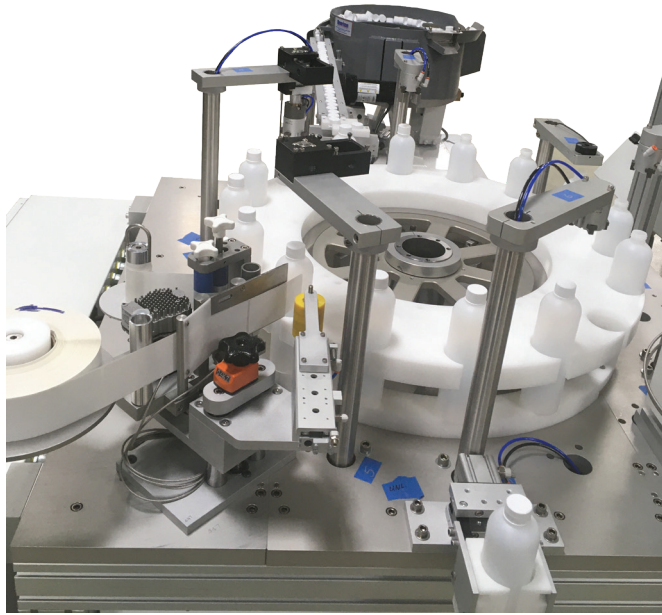
Feeding - Filling - Tipping - Capping - Labeling



RING DEX 2 SERIES

Feeding Filling Capping Systems

A Just Right "Solution"



Streamline Your Production

The Ring Dex 2 system is a unique solution for automating your manual filling, tipping and capping operations with one precise and affordable package.

The machine is available in several configurations from manual load bench top design, to full hopper / feeder solutions to best suit your unique requirement.

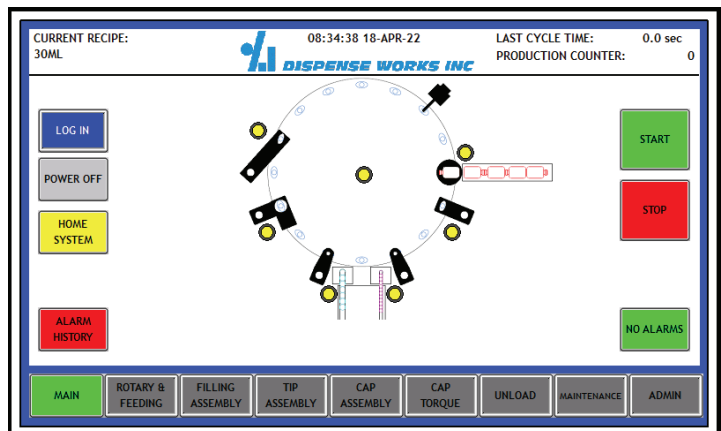
Powered Work Stations

The Ring Dex 2 has various stations positioned around the rotary dial. Each of these stations performs a specific operation on the parts in the dial after the dial indexes. These stations are custom engineered, tooled, and programmed for each application. The HMI allows for operational parameters of each station to be adjusted.

Latest Control System Technology

The Ring Dex 2 uses a PLC based control system. Machine operation is controlled using the touchscreen HMI at the front of the machine. The HMI is also used to modify various operational parameters, and provide diagnostic information.

Recipe files can be configured for simple changeover between different part configurations. Emergency Stop buttons can be pressed to immediately remove power to all motors and pneumatic solenoids on the machine.



The Operator's Choice

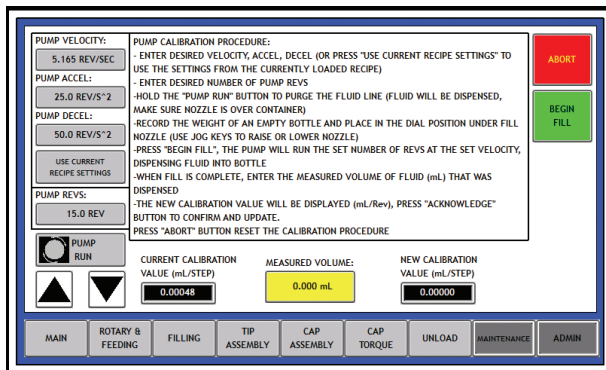
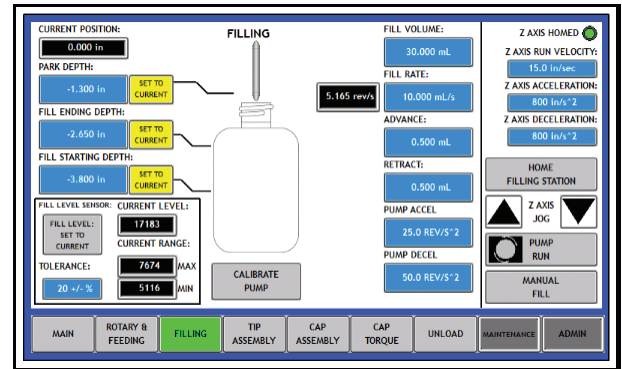
Your operators will appreciate the ergonomics and ease of use with the machine, its setup, calibration function and file management system. Your techs will love the zero maintenance, machine tool quality construction.

Pre-Programmed Functions

Advanced Filling Performance

Fill files control the peristaltic (or positive displacement) pump with simple graphical menu entry. Built-In digital pump control.

- Fill Volume
- Diving Nozzle (Servo) Programmable
- Snuff-back Control
- Additional Logic



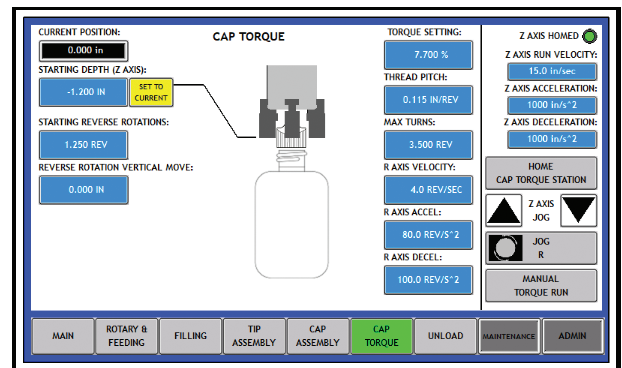
Pump Calibration

Built-in Pump files allow calibrating the peristaltic pump with the system controls. Just enter the actual weight from a sample. Automatically adjusts all encoder values. A limitless number of pump files may exist in the machine for different tubing sizes, nozzles, etc. Ideal for future expansion.

Control Capping Torque & Cap Pitch

Cap files control the station with simple, graphical menu entry of pre-programmed parameters:

- Bottle Height
- Cap Thread Data
- RPM & Number of Turns
- Programmable Torque (Servo)



Bottle Shapes | Screw or Snap Fit Caps

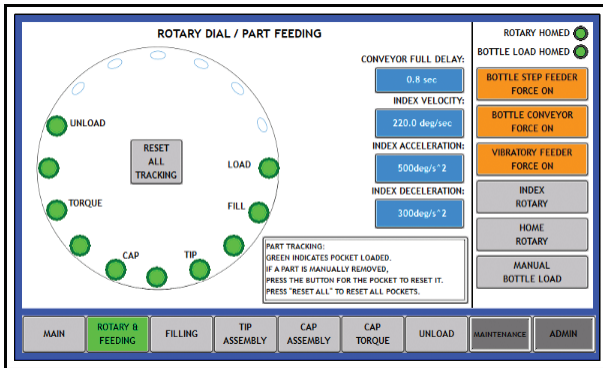
Containers may be processed with caps assembled to them or supplied loose. Software logic is included for either scenario.

Ring dial accommodates hundreds of container shapes and sizes:

- Square
- Round
- Cryo Vials
- Special Shapes

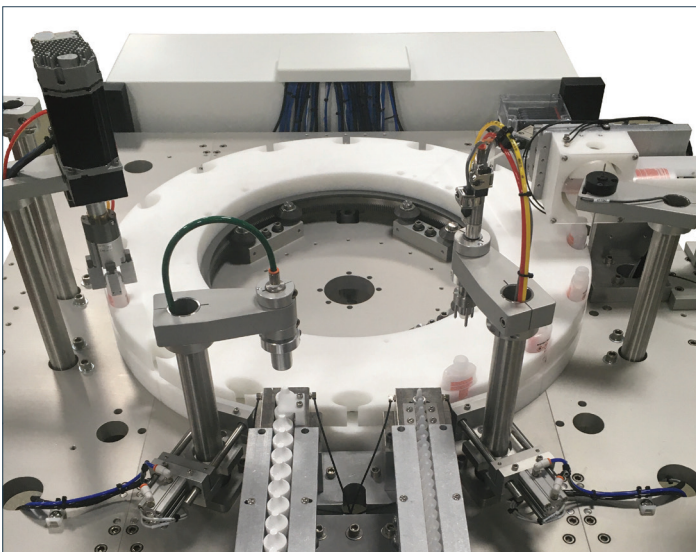
Part Feeding

The Ring Dex 2 uses various methods of feeding the different components of the parts into the machine, depending on nature of the components and how they are to be supplied. Step Feeders, conveyors and vibratory feeding devices are some of the types of feeders used. These are controlled with variable speed drives, with either manual adjustment or PLC controlled.



Rotary Dial

The rotary dial is a servo driven dial with a number of pockets, or dial positions. A pneumatic shot pin is used to lock the dial into position after each index. The rotary dial is used to move parts from station to station, where various operations are performed (filling, capping, etc.).



Filling/Capping/Pumping Stations

The Ring Dex 2 has various stations positioned around the rotary dial. Each of these stations performs a specific operation on the parts in the dial after the dial indexes.

These stations are custom engineered, tooled, and programmed for each application.

The HMI allows for operational parameters of each station to be adjusted.

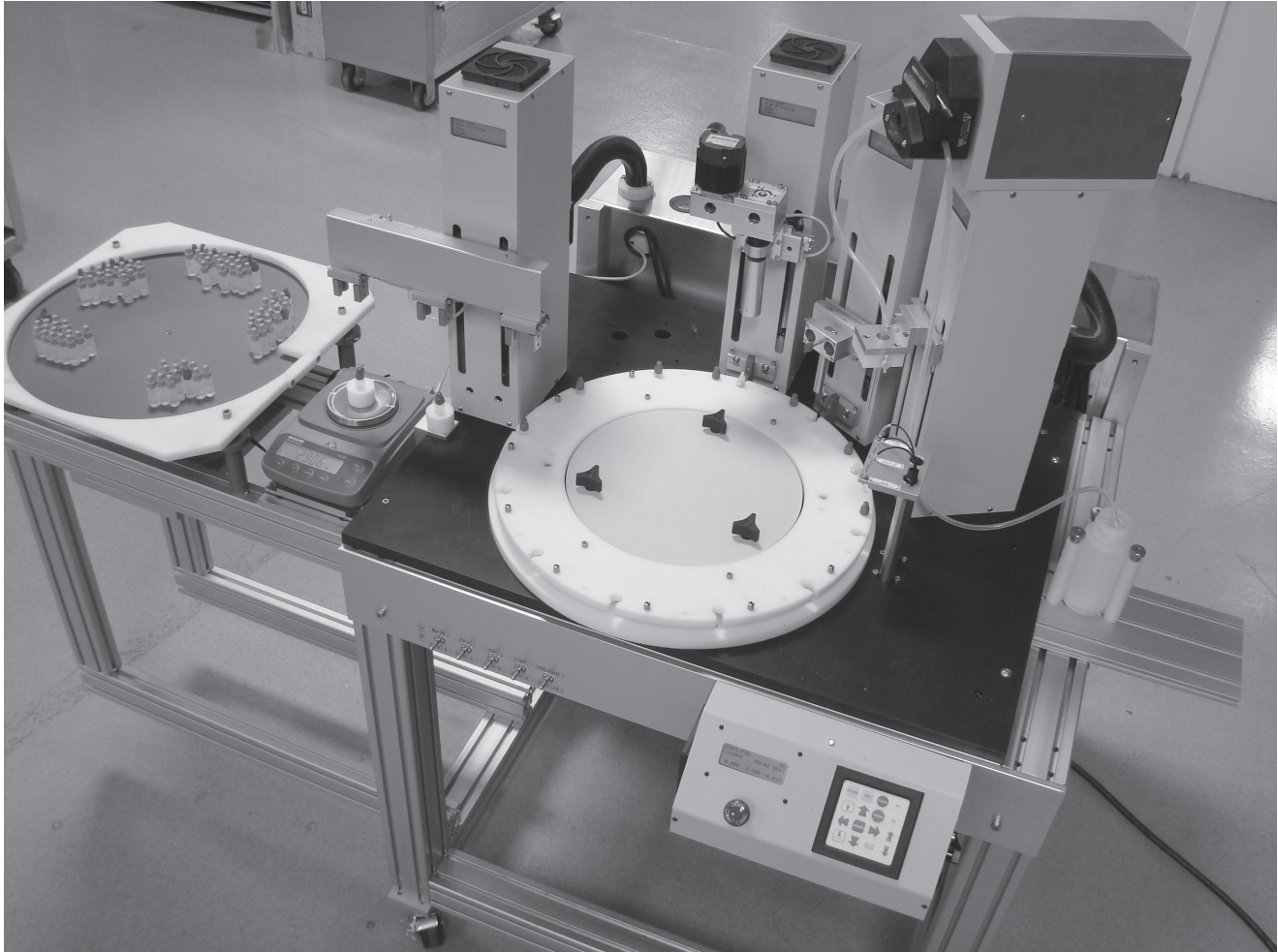
A Modular Design

Machine Tool Quality

The machine base is constructed from a cast aluminum alloy precision machined for flatness, rigidity and stability to suit most dispensing applications.

The base remains stationary during the dispensing cycle as the mounted components move to feed, fill, cap etc. the bottles.

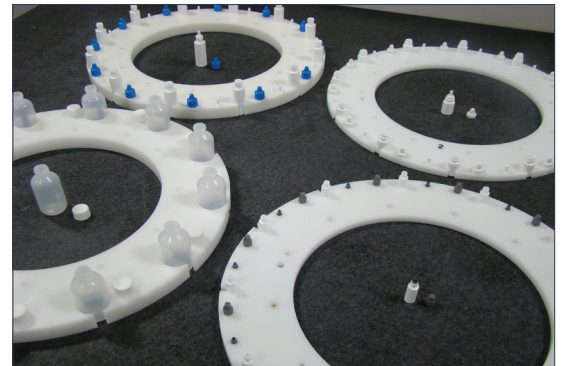
The base machine is configured from the factory for optimized speeds and accuracy. Over its many years of service very little maintenance is required.



Quick Changeover Time

The Ring Dex dials are removable for quick changeover requiring no previous technical experience. Great for processing families of small bottles and vials. Changeover means just loading a new file

The indexing rings, gripper jaws, clamps may be purchased at a later date as needed and installed in the field using only a few hand tools.



Proven Existing Designs or Custom Solutions

Versatile and Affordable

These versatile, yet affordable robotic dispensing systems will automate and streamline your manual bottle or vial filling and capping operations. Choose from one of our time proven designs or let us customize a precision automatic vial and bottle filling solution to meet your needs.



About Us

All systems are designed & manufactured in our clean, state of the art facility on modern CNC equipment to the industry's most stringent quality control. Over 25,000 sq ft is dedicated to research / development & high tech assembly. Systems feature time proven designs with pre-engineered stations requiring minimal "custom" tooling for low risk, rapid deployment. In the effort of constant improvement, these specifications are subject to change.

Contact Us

For more information contact us at:



Dispense Works Inc. | 815-353-3524 | info@dispenseworks.com | dispenseworks.com