



Machine Infeed and Outfeed

The ALPS NexGen Rotary XLS leak tester is designed to inspect extra-large containers e.g. 5-gallon (20L) at high speeds. A rotary approach ensures efficient container handling and sufficient test time to perform a sensitive leak test. Machines can be configured for round or rectangular container shapes. The inspection technology is based on the standard ALPS NexGen Rotary controls platform, using ALPS' high accuracy Leak Test Controllers (LTC's).

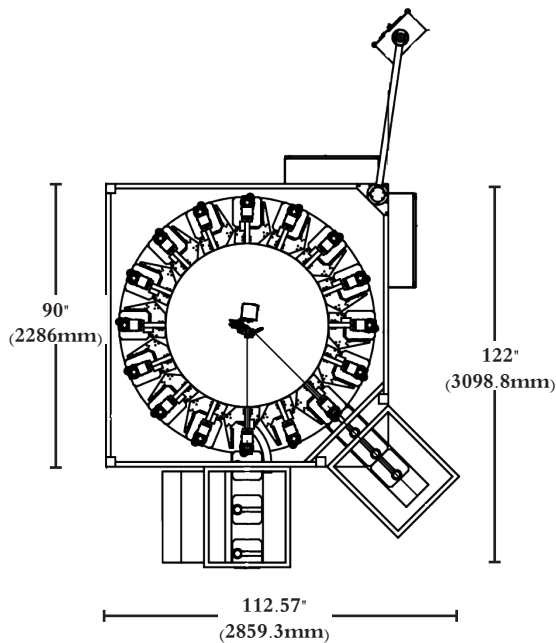
## Features and Benefits

Feature	Corresponding Benefit
No Timing Screw	Reduces change parts and eliminates potential handling problem for large low density rectangular bottles; bottles are accumulated with a minimum backlog eye and 'swept' onto and off of rotary turntable for the leak test
45 degree infeed and outfeed	Utilizes maximum possible portion of inspection turntable to maximize test time
Standard ALPS rotary touch screen controls	Easy operator interface; little training needed in addition to standard units
Standard ALPS Smart Test Module (STM) test circuits	Modular heads using same hardware as other ALPS models
Continuous motion operation	Smooth and efficient bottle flow
Fast fill capability	Leak test time optimized
Dual height bottle infeed sensors	Detects proper bottle insertion
Infeed and exit conveyors with independent frequency drives	Adjustable infeed and exit speeds to optimize bottle handling

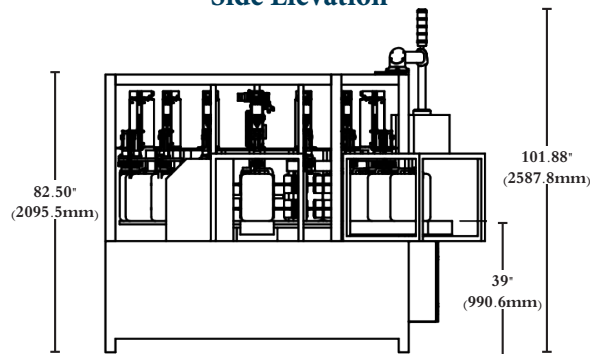
# NexGen Rotary XLS

## Standard Machine Specifications

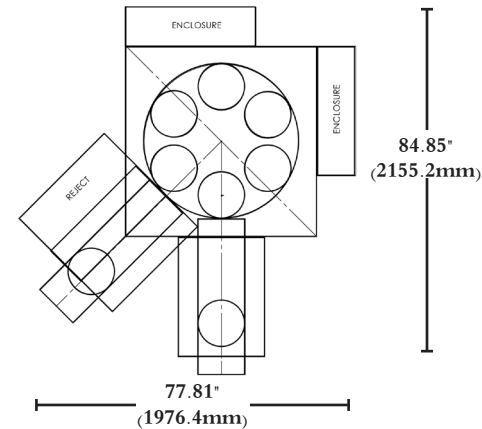
Top View  
(16 Head Version Shown)



Side Elevation



Top View  
(6 Head Version Shown)



### Standard Machine Sizes\*

Model Number	Container Type	Nominal Maximum Testing Rate	Approximate Demensions** Length X Width X Height	
NexGen Rotary XLS 16	5-gallon (20L) square edible oil	60 CPM (3600 CPH)	123" x 122" x 102"	3125 x 3100 x 2600mm
NexGen Rotary XLS 6	5-gallon round	50 CPM (3000 CPH)	85" x 78" x 102"	2160 x 2000 x 2600mm
NexGen Rotary XLS 3	5-gallon round	25 CPM (1500 CPH)	85" x 78" x 102"	2160 x 2000 x 2600mm

\* Note that additional sizes can be designed based on the container type, speed, and hole size sensitivity requirements

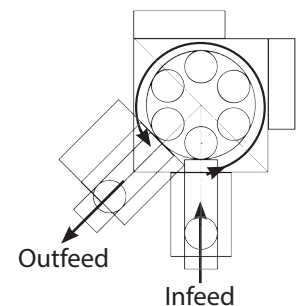
\*\* Dimensions are approximate and for reference only

### Standard Utility Requirements

480 VAC • 60Hz • 3 phase • 20 Full Load Amps  
30 Full Load Amps with Turntable Vacuum option  
80 PSI • 10-30 SCFM

## How It Works

Containers are fed into the machine via a speed-controlled infeed conveyor section. Each container is conveyed directly into its corresponding test station, then 'swept' at a 90 degree angle, using container specific nests, to travel around the rotary turntable. Each station uses two sensors to verify containers have entered the test area in a standing fashion. As the container travels around the turntable, a test probe extends to perform a pressure decay leak test, using the ALPS Leak Test Controller (LTC) at each station. Containers exit the machine via curved guides onto a speed-controlled exit conveyor section. A reject cylinder ejects bad containers into a reject chute mounted on the exit conveyor. The infeed and exit are designed at a 45 degree angle in order to maximize the available test time on the turntable. Machines can be configured for either flow direction at the time of order.



**ALPS is the leading North American manufacturer of high speed container leak inspection systems. Our current installed base of machines has capacity to test approximately 50 billion containers annually.**

# ALPS

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