

## Computerized Double End Stretcher

Model CJS-3X12

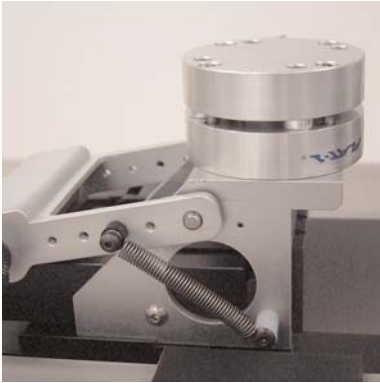
- Automated cycle
- Pre-programmed embedded system controller
- Touch screen programming
- Stretches both parison ends during one cycle
- Processes 3 tubes in parallel
- Large tubing diameter capability
- Password lockout

### GENERAL INFORMATION

Interface Associates' **Computerized Double End Stretcher** is a bench-top system designed to stretch or neck down tubing parisons in preparation for the balloon forming process. In many applications, the final balloon design calls for a very small neck diameter with respect to the finished balloon size. The balloon neck diameter may be smaller than the raw tubing needed to form the desired balloon size. In order to thread the balloon tubing through the mold, the parison, proximal and distal ends must be reduced in diameter. Diameter reduction is accomplished by stretching the tubing axially at an elevated temperature. The magnitude of the stretching temperature is such as to merely soften the material to reduce its yield strength without melting it.

The Stretcher can process a variety of tubing sizes and materials such as PE, PU, PVC, PET, Nylon™, etc. It provides the capability of precisely selecting the tubing stretching parameters and automatically controlling the sequence and timing of individual steps of the tubing stretching cycle.

## Computerized Double End Stretcher



### DESCRIPTION

Interface Associates' Computerized Double End Stretcher is fully computerized and utilizes a touch screen display to input process parameters, such as stretch speed, temperature, distance, and timing. The parameters may be keyed in via numeric touch pads, or can be easily adjusted using up and down arrow keys. Up to six stretch sequences may be stored in the memory. Once a program is selected, the tubing is loaded and clamped into place, and a single button initiates the stretch sequence.

The machine uses a non-contact method for heating the tubing. A set of moveable heater jaws slide forward and clamp around the tubing. The machine features a pair of 3.0 inch wide electrically heated, tellurium copper jaws. The machine is configured to stretch both parison ends during the same cycle. Each jaw has three heating channels to allow three tubing parisons to be processed simultaneously. Typical cycle time is less than one minute. The main timing sequence runs under embedded system control, pre-programmed to satisfy the majority of applications. Safety buttons and password protection are provided.

### SPECIFICATIONS

Bench Top Space Required	51" L x 20" W x 16.5" H
Electrical Power	110VAC, 60Hz, 520 Watts (220VAC, 50Hz)
Capacity	3 tubes side-by-side, .020 to .125 O.D. (.5mm to 4.5mm O.D.) 2 tubes side-by-side, .187 to .275 O.D. (4.5mm to 7.0mm O.D.) 1 tube, .314 to .433 O.D. (8.0mm to 11.0mm O.D.)
Maximum Stretch Distance	240mm each direction
Temperature Range	Ambient to 500°F
Stretch Speed	Programmable between 1 to 150mm/second



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