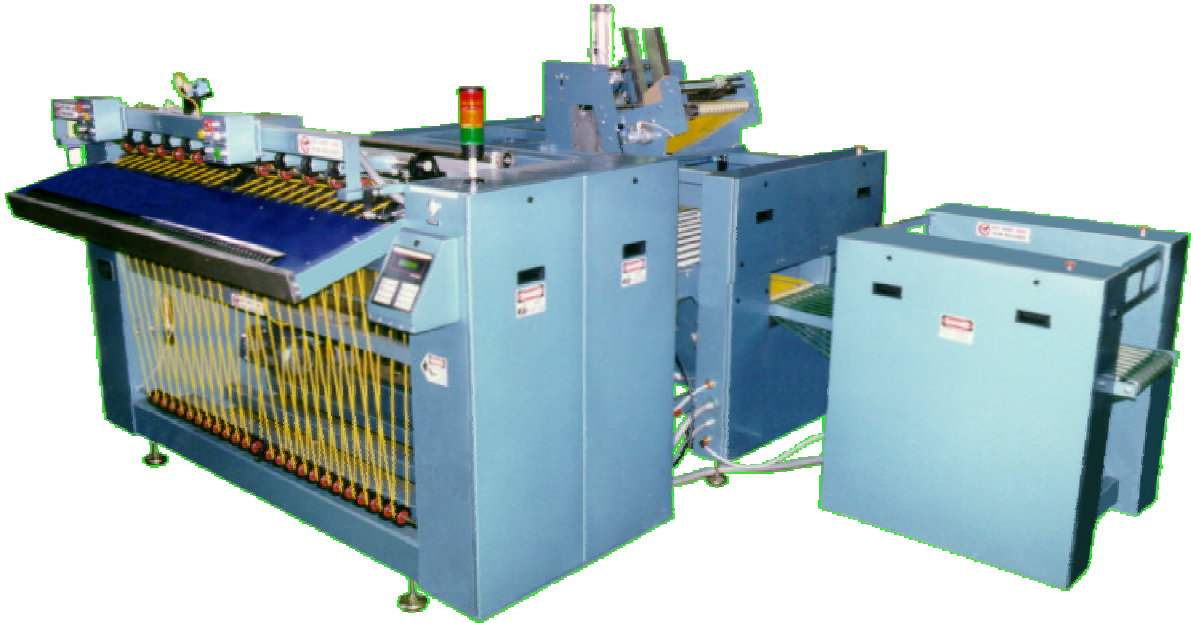


NEPTUNE

Drapery & Tablecloth Folding System



Microprocessor Control

The Neptune is controlled by a powerful microprocessor (PLC) that has a 64-program capacity to provide complete folding flexibility. Its high speed folding calculations ensure the most precise folds. Diagnostic support features include continuous display of machine's status.

- **Advanced Design**
- **Precise Folds**
- **High Speed Operation**
- **Jam Prevention System**
- **Reduced Maintenance**

The Neptune folding system provides high quality folds for large items including draperies and tablecloths. It makes up to 4 lateral folds and 4 crossfolds. It also folds clear shower curtains.

Precision Folding

First and third (or second and fourth with 4 primary folds) primary folds are accomplished by air jets between pinch rolls. Second (or third with 4 primary folds) primary fold is a reverse fold assisted by air jets between pinch rolls.

First and second crossfolds are accomplished by a knife between pinch rolls. The space between the rolls is controlled by air cylinders to accommodate for a variety of material thicknesses. Third (and optional fourth) crossfold is accomplished by a swing arm that folds the material over two flat arms.

High volume and precise solenoid valves are used to ensure that the right volume of air is released through the air jets at the right time, accomplishing precise folds every time.

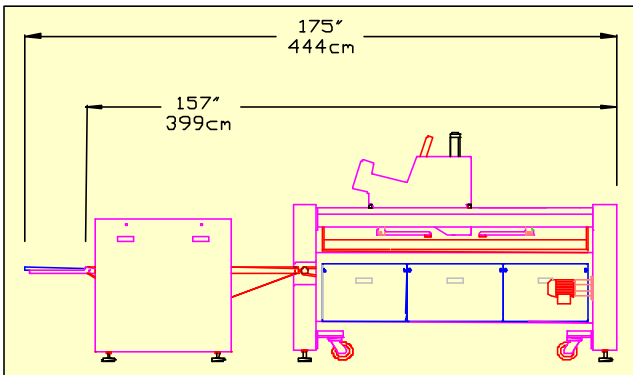
Microprocessor (PLC) Control

A high-speed microprocessor (PLC) and an advanced programming language ensure accurate folds with high-speed operation.

- 64 program capacity for complete folding flexibility
- Folding adjustments can be as small as 1/16"
- High speed (2 milliseconds) folding calculations
- Keypad has 2-line display & 32 push buttons
- Real time diagnostic and trouble-shooting support, including instant display messages showing the locations of dirty photocells, positioning switches, and jams.

Advanced Technology

- Sensors will detect clear materials
- All motors are controlled by frequency inverters to ensure:
 - Precise folds
 - Smooth start of all drive systems
 - Reduced maintenance by eliminating the need for brake motors



Jam-Prevention System

The folder will automatically reject any misfed piece that is likely to result in a jam in order to provide uninterrupted operation.

If a jam does occur, the PLC will only shut off the actual section where the jam occurred. The items that were already in the machine in front of the jam will be folded and clear the machine in order to minimize any down time.

Safety

The folder will shut off automatically anytime the machine's covers are removed. The machine can not be started when covers are off, or when positioning switches are not in their home position.

Production Pacer System

This system monitors operators' feeding speed. It is composed of two large lights (red and green) that will signal to the operator and manager any time feeding speed is less than the speed set by the manager.

Options

- Automatic Feeding from a sewing system
- Cardboard Inserter in the 1st crossfold
- Additional Crossfold Units
- Pickup & Place Stackers
- Machine-to-Office Computer Link

