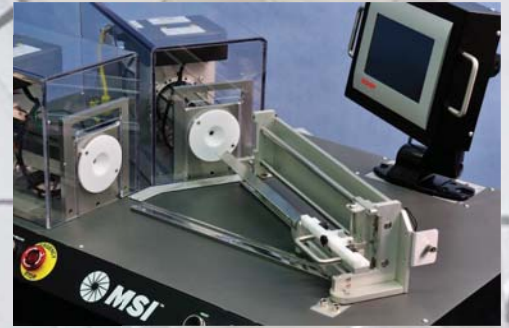


FFS475S/575S

Balloon Catheter Pleating & Folding Equipment



MSI		FFS475S / FFS575S		MSI		
Run Process - Current Lot						
Recipe Name: (Last Recipe #)						
Recipe Container: (MSI Test)						
Recipe Number: 0001						
Pleat Head						
Close Delay	Vacuum Delay	Dwell Time	Temperature	Pleat Time	Current Diameter	Current Force
2 sec	1 sec	12 sec	90 deg F	25 sec	0.210 in	2.0 lbs
						Max Force
						8.3 lbs
Fold Head						
Close Delay	Close Diameter	Dwell Time	Temperature	Fold Time	Current Diameter	Current Force
1 sec	0.045 in	15 sec	9 deg F	20 sec	0.375 in	1.2 lbs
					Min Diameter	Max Force
					0.045 in	9.9 lbs
Ballon Pressure: 40 psi						
					Run Total Time	45 sec
END LOT PAUSE LOT VIEW ACTIVE RECIPE						
Load Product						

The MSI FFS475S/575S is engineered and manufactured to pleat and fold balloon catheters to the lowest possible profile. This machine base provides accurate and repeatable results while reducing cycle times and reject rates. Small balloon profiles are achieved by designing each proprietary thermal Wavepleat™ head to the exact balloon specifications they are intended to process. MSI uses the most advanced machining practices to ensure the tightest tolerances in the industry.

This new and improved balloon catheter pleating and folding equipment focuses on a more user friendly design while maintaining the capabilities and robustness of our current models. We have improved upon our current FFS775S/875S platforms by integrating all machine controls into the PLC/HMI to ensure ease of operation and maintenance while providing a more cost effective package.

The FFS475S/575S models are designed to be compatible with our current pleat and fold head designs. The two platforms can accommodate multiple sized heads creating our most versatile pleat and fold platform offering.

FFS475S/575S Features

- Produces low profiles and high yields
- Tightest dimensional tolerances in the industry
- Reduced operator dependency
- Product specific profiles that allow for quick and easy set-up during lot changes
- Interchangeable with multiple sized thermal Wavepleat™ and fold heads
- Force and diameter calibration performed by customer without removal of the heads



FFS475S/575S

Balloon Catheter Pleating & Folding Equipment



Summary of Spec Data

Pleat/Fold Head Length	FFS475S 60mm, 80mm, 90mm FFS575S 150mm, 250mm, 350mm
Thermal Compression Control	Ambient to 100°C / 212°F
Head Activation / Diameter Control	Servo Motor Encoder
Balloon Pressure	0 - 100 PSI
Balloon Vacuum	Up to 600 mmHg (at sea level)
Profile Storage Capacity	Up to 1,000 Recipes
Units of Measurement	User Selectable
Pleat/Fold Force	Up to 100 lb
Control System	PLC with PC HMI
Power Requirements	110 or 220 VAC
General Warranty	1 Year

FFS475S/575S Equipment Specifications

Form/Fold/Set Base Unit Specifications

- Servo motor controlled base with interchangeable pleat and fold heads
- No head removal required for force calibration
- Sensor activation
- Indusoft Windows based HMI
- Process force feedback
- Error handling and reporting
- Networking capabilities
- Increased recipe storage and parameters
- PLC temp control through HMI ambient to 100°C
- Simplified V-block clamping system for ease of use
- Pleat and fold head guide funnels
- Easy accessibility for maintenance
- Servo pressure regulator control from 0 - 100 psi
- Pleat dwell timers 0 – 999 seconds
- CE compliant

Programmable Parameters

- Pleat/Fold starting diameter
- Fold head close diameter
- Pleat/fold close delays
- Pleat/fold open/close speeds
- Pleat vacuum delay
- Pleat/fold dwell times
- Pleat/fold min/max force alarms
- Balloon pressure control
- Temperature control

Head Specifications

- One (1) stainless steel Wavepleat™ head with balloon diameter ranges from 2mm-60mm
- One (1) ten segment stainless steel fold head with balloon diameter ranges from 2mm-60mm
- Heater junction box with LED indicators

Options

- Barcode Scanning
- Vision Alignment System
- Multi Luer Connection
- Data Acquisition and Networking

Machine Dimensions

FFS475S

- Height: 20.0" (508mm)
- Width: 34.0" (863.6mm)
- Depth: 29.0" (736.6mm)
- Machine Weight Max: 155lbs (70Kg)

FFS575S

- Height: 20.0" (508mm)
- Width: 40.0" (1016mm)
- Depth: 29.0" (736.6mm)
- Machine Weight Max: 230lbs (104Kg)