



The "Workcell" is an automated platform designed to improve the quality, speed and cost of multiple balloon catheter and stent delivery production processes.

MSI's patented balloon catheter pleating and folding equipment has been reconfigured to allow pleating and folding processes to occur simultaneously to significantly reduce takt time. A new automated sheathing process ensures folded balloons are carefully loaded into protective sheaths without risk of twisting or damage.

The system also features industry leading stent positioning capabilities so that stents are accurately aligned between marker bands. The system can be configured with standard or film integrated stent crimping heads to protect drug coatings from damage and contamination.

Inspection stations can be incorporated as well. Stent positioning and leak tests are examples of inspections that can be completed without affecting production takt times.

Catheters are oriented in a vertical direction to significantly reduce floor space required. It is estimated that the standard configuration of these machines would require over 20 linear meters of manufacturing floor space. The work cell can squeeze all of these processes into 2m2 machine.

Full size 350mm Pleat and Fold heads and 120mm Crimp heads are accommodated for on the Workcell platform.



# WORKCELL

## Automated Balloon Catheter Processing

<i>Power Requirements:</i>	220 VAC; 10A FLA
<i>Pneumatic Requirement:</i>	100psi (300psi for high pressure inflation and leak test)
<i>Thermal Compression Control:</i>	Ambient to 100°C
<i>Stent Placement Accuracy:</i>	+/-0.1mm after pre-crimp
<i>Profile Storage Capacity:</i>	999
<i>CE Certified :</i>	Yes
<i>General Warranty :</i>	1 Year

### Workcell Features:

- Single operator can run multiple production processes
- Vertical product handling reduces equipment footprint
- Reduction in product takt times by splitting pleat and fold processes
- Integrated vision and leak testing without impact on takt time

### Work Station Equipment Specifications

- Station Overview:
- Station 1: Load/Unload
- Station 2: Load/Unload
- Station 3: Initial Inspection
- Station 4: Pleat
- Station 5: Pleat
- Station 6: Fold
- Station 7: AutoSheather
- Station 8: Pre Crimp
- Station 9: Final Crimp
- Station 10: Final Inspection

*\*Station sequence can be customized to meet customer needs*