

## Case Study

# MWI Direct Moves to Continuous Feed Color Ink Jet Printing and High-Speed Finishing



- MBO Roll Fed Finishing
- Canon Prostream 1000



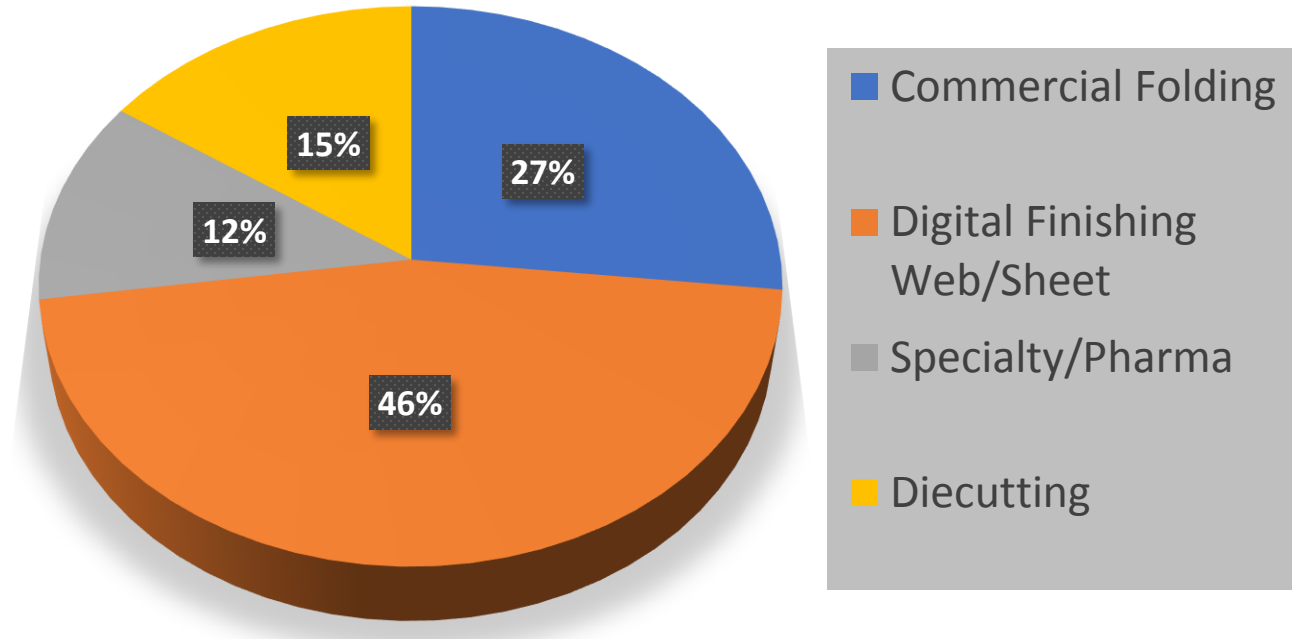
## About MBO America



MBO Letterfold Line

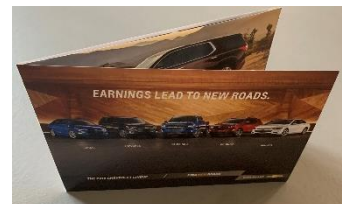


## MBO America Business Segments



## Standardized Roll Fed Solutions

- Direct Mail and Letter Fold
- Self Mailer and Plow Fold
- Cut and Stack, Post Cards and Flat Sheet
- Signature, Saddlestitch, Brochure and Book Block
- DPS 60 Dynamic Perforating and Scoring Unit
- FC 23/30 Aqueous and/or UV Web Coating Unit







- MWI Direct
- Case Study





### **Dean Hart – President/CEO**

- Thirty-five year industry veteran
- Started at MWI in 1994
- Purchased MWI in 1996
- Served on the board of several local organizations
  - Nebraska Diplomats
  - The Foundation for Lincoln Public Schools and Legatus
  - President for the Nebraska Diplomats in 2016
  - MWI was awarded NE Diplomats Business of the Year in 2012
- MWI Direct gives back to the local community:
  - JDRF, Lincoln Heart Ball, Pius X Bolt, United Way, Cedars Home For Children, Tabitha Meals on Wheels Program, and various others
- Managing Partner/Owner of Dino's in Lincoln – 14 years
  - *"Don't get in the restaurant business!"*
- Teaches at the University of Nebraska
  - Lincoln's Hospitality, Restaurant & Tourism Management





## **THE MWI DIRECT STORY**

- Full-service direct marketing since 1989
- Specializing in Fortune 500 Companies and Non-Profit Organizations nationwide with data-driven programs
- Includes Acquisition, Cross-sell, On-boarding, Appeal, Renewal, and Member programs for their clients
- Manage all aspects of production in-house; single-source of services under one roof
- Focused strategy and higher response rates

## **Philosophy**

Customer-centric: Commitment and partnership with our customers are the hallmarks of our business.

Servicing and retaining clients is the best business model

They manage complete marketing programs, not just print jobs





## Full Range of Services

- Graphic Design
- Printing:
  - Conventional Web Offset and Sheet Fed
  - Digital Web and Cutsheet
- Personalization, Variable Data
- Data Management
- Folding/Finishing
- Diecutting
- Mailing & Fulfillment
- Binding
- Logistics







## Meeting New Goals –Process for the Future

- Remain ***relevant*** in a fast-changing marketplace
  - Current technologies for existing customers
  - Have a model that attracts new customers
  - Drive higher ROI results for those customers
- Implement new production technologies and enhanced software solutions that position us for the future
- Seek alternatives to conventional printing and finishing methods which streamline workflows to meet demand for faster in-home dates
- Implement processes that work with market trends of more sku's with shorter qty's
  - Consolidate work centers
  - Automate processes
  - Generate more operational efficiencies.
- Lower the total cost of labor across all production work centers





## Original Direct Mail Workflows

Cutsheet  
Workflow



Print Shell  
Guillotine  
Print Data  
Offline Fold  
Offline Glue

Web  
Workflow



Print Shell  
Print Data  
Inline Fold  
Offline Glue





## Original Shell (Pre-Print) Model-WEB

- Roll to fan makeready high cost
  - 2 people normally
  - Typical 1-2 hours
- Roll to fan print run time @ 500fpm +
- Spoilage rate for offset process
  - Makeready + overrun = 8%-10%
- Pin fed prep for finishing = paper waste / tooling
- Makeready time for toner: 5-10 min.
- Fan fed toner print time: 125fpm\*\* (4:1)
- Scalability:
  - 1 conventional Sanden press
  - 1 toner fan fed press
  - 1 buckle folder inline
- Long time frame in aggregate





## Images of Original Process Steps-WEB



Form Print Offset



Data Print Toner



Buckle Fold Finish







## Original Shell (Pre-Print) Model-SHEET

Roll to sheet print makeready high cost

- 2 people normally
- Typical 1-2 hours
- Roll to roll print run time @ 500fpm +
- Spoilage rate for offset process
  - Makeready + overrun = 8%-10%
- Guillotine cutter step required 3 cuts/min\*
- Makeready time for toner: 5-10 min.
- Cutsheet toner print time slow
- Offline buckle folder (9 machines)
- Scalability:
  - 1 conventional press
  - 1 Guillotine cutter
  - 4 toner cutsheet presses
  - 9 Buckle folders (manned as needed)
- Long time frame in aggregate
- Many handling points







## Images of Original Process Steps-SHEET



Form Print



Guillotine Cut



Data Print



Fold/Finish  
(2x\*\*)





## Acquiring the New Processes

### Evaluation of Technology

- Hi speed color inkjet system that is capable of consolidating multiple processes with enhanced variable text and graphics
- Hi speed finishing system that can consolidate all finishing operations in one line
- Finishing NOT inline with press
- Decrease total labor hours versus conventional operations
- Decrease turnaround times
- Strong emphasis on reliability, service and support





## Canon

- ProStream 1000
- Color inkjet systems that meets customer's expectations for quality
- Industry leading output speeds
- Exceptional service and support network
- CIJ device that is field upgradable
- Minimal OEM's associated within the system
- Workflow training and support





## MBO America

- Near-line finishing system that is able to consolidate up to 4 off-line processes for one step finishing
- Industry leading finishing speeds of 400 - 600 ft. per min to reduce turn times
- Built for heavy production environment
- Excellent service and support network
- Reduce labor requirement 50% to 60% and increase throughput speeds 3:1
- Extensive history in production finishing solutions







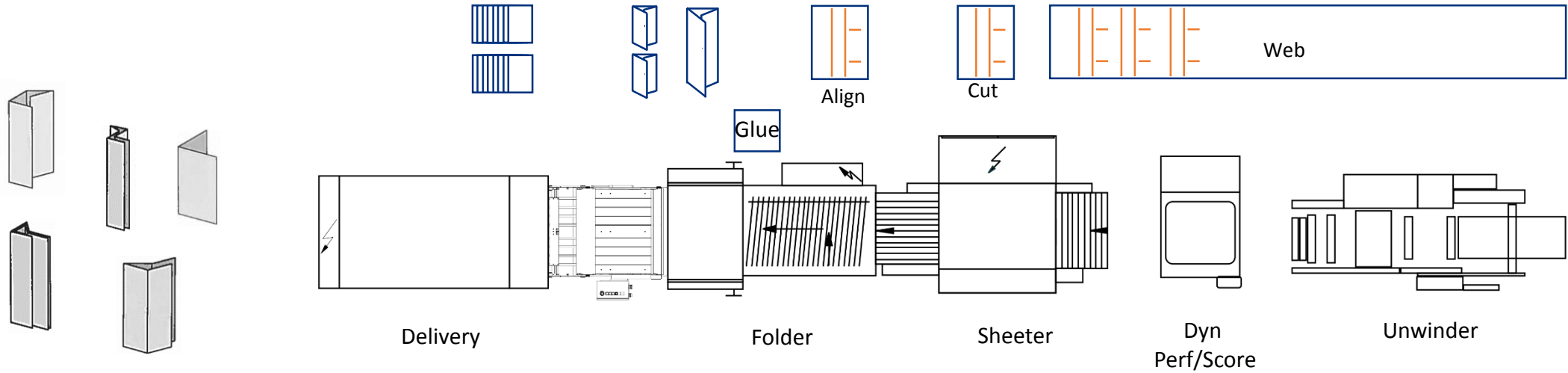
## Finishing Line Configurations



- MWI Direct
- MBO Letterfold Line with Options



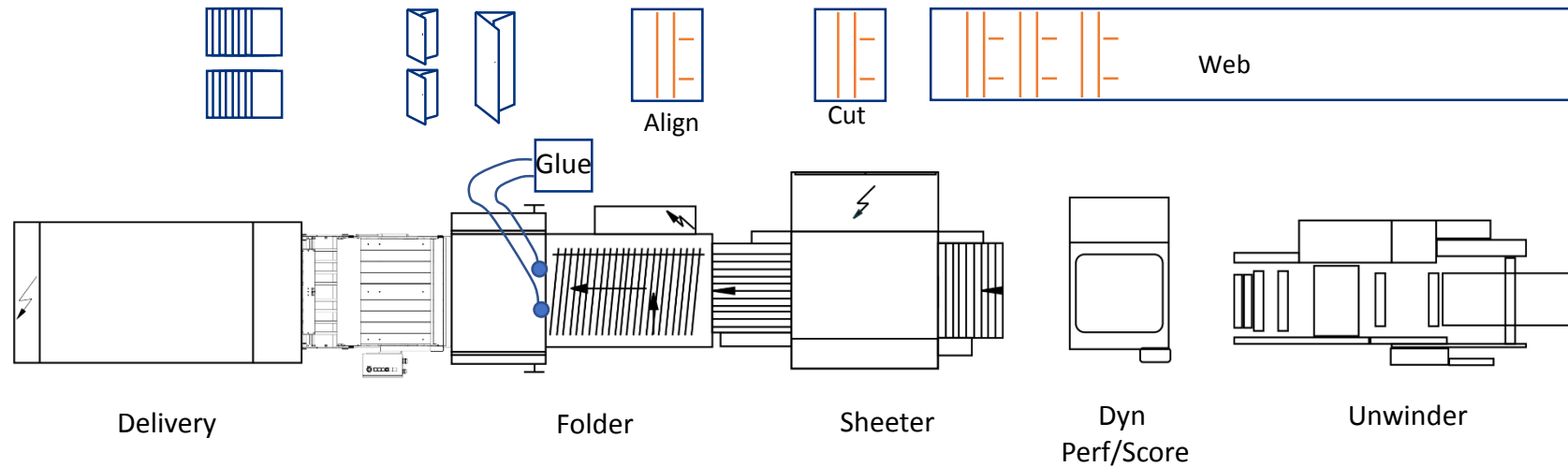




### Letterfold (Primary)

- Common for letterfolds

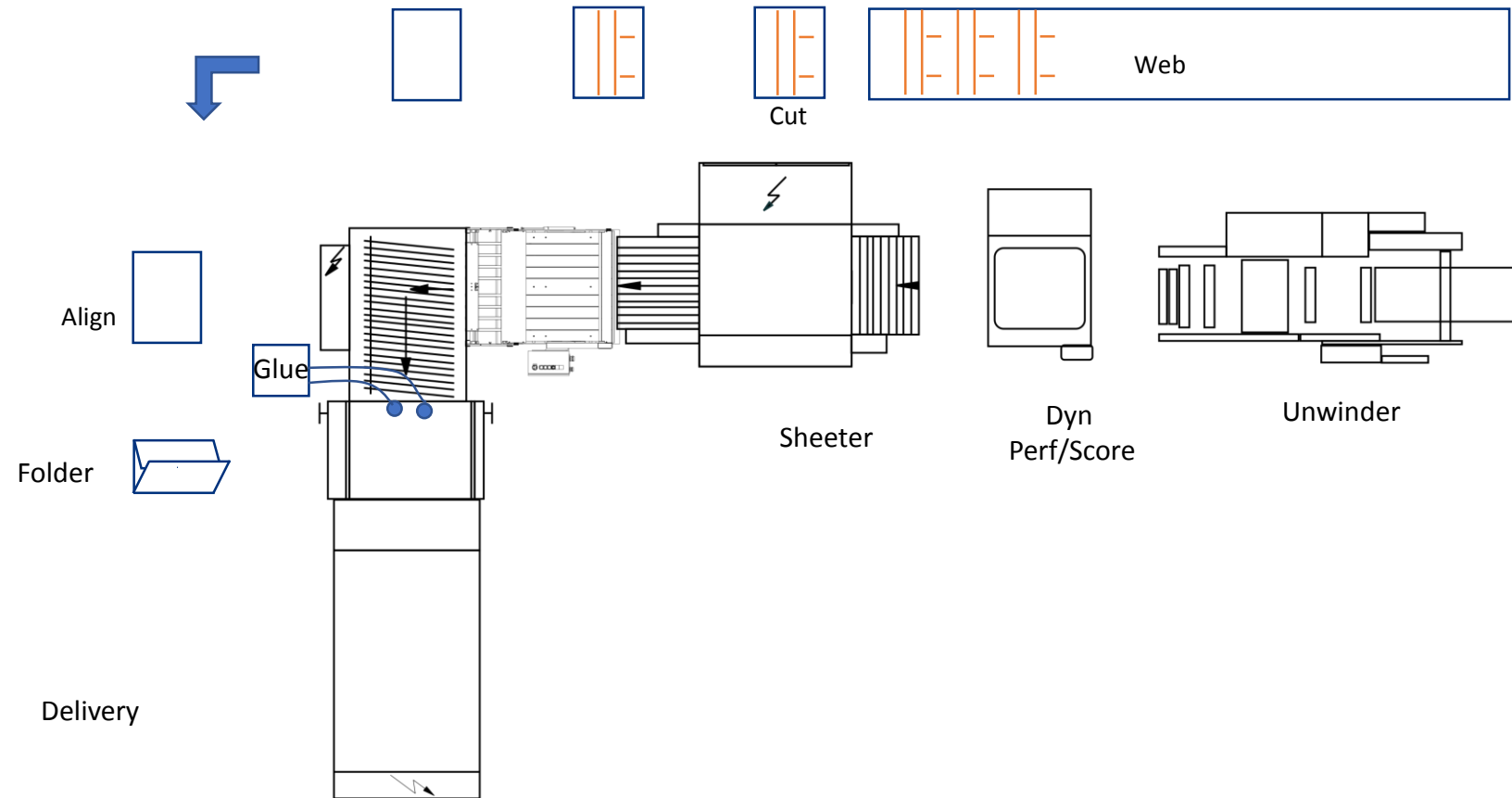




### **Letterfold (Primary)**

- Self Mailers
- Glue
- Score - Perf

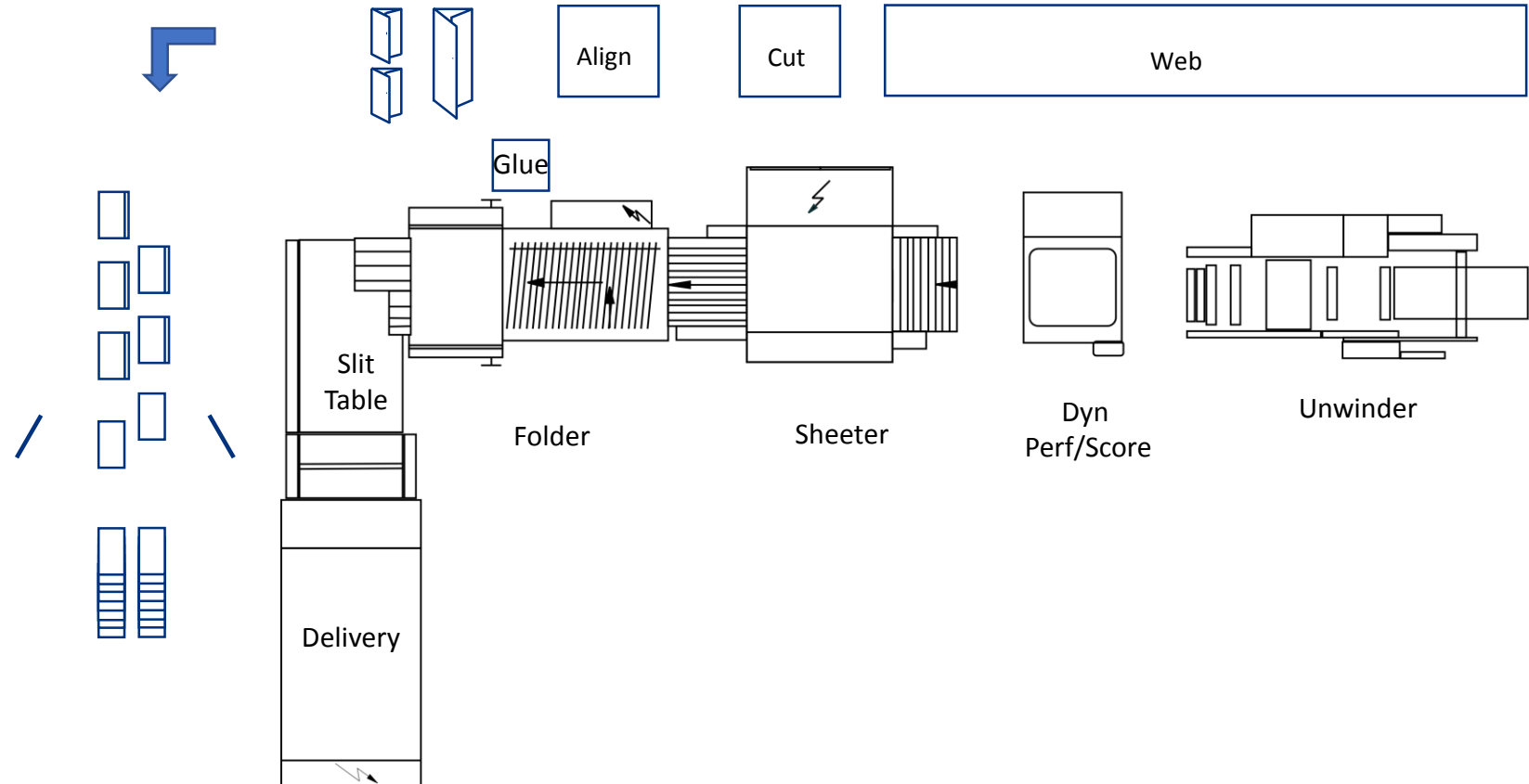




**Self Mailer**

- Glue
- No Glue

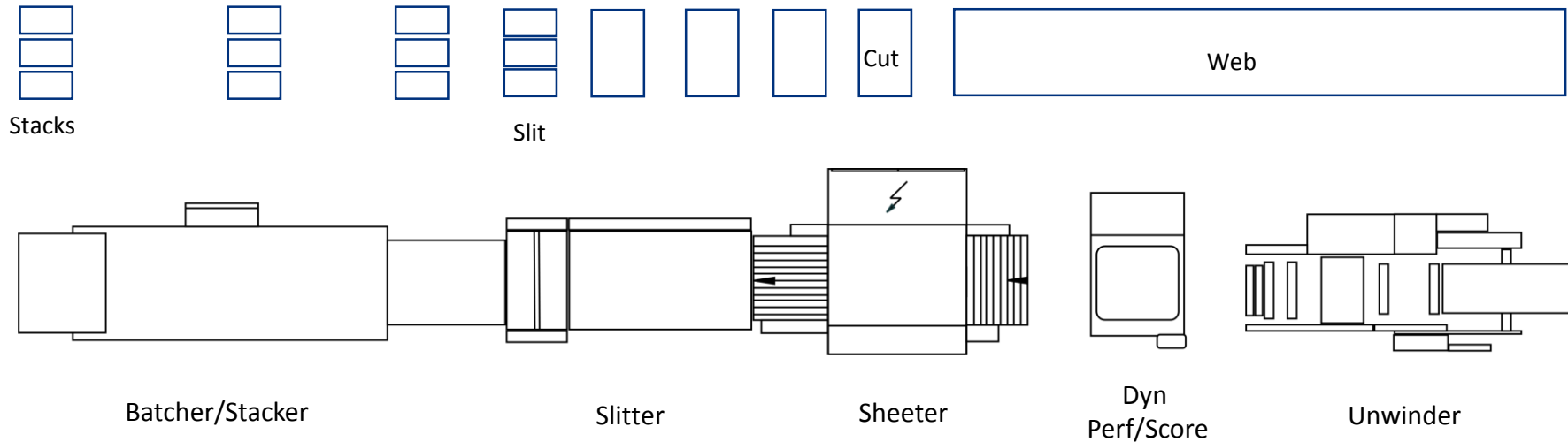




**Slit and Nest**

- Buck slips nested





## Cut and Stack

- Transactional letters
- Post cards
- Single sheets







## ROI: Sample Original Cutsheet Workflow

### Original Method:

- Roll to sheet on Didde: 2 people
- Guillotine cutter: 1 person
- OCE toner box: 1 person
- Buckle folder: 2 person
- Offline glue/affix: 2 person

### New Method:

- Roll to Roll Print Prostream: 1 person
- Roll to Finish MBO: 2 people

Savings = 5 people + turn time (= many hours)



- MWI Direct



## MBO Finishing Line Video





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