



Marrying High Speed Finishing Equipment with White Paper Digital Workflow



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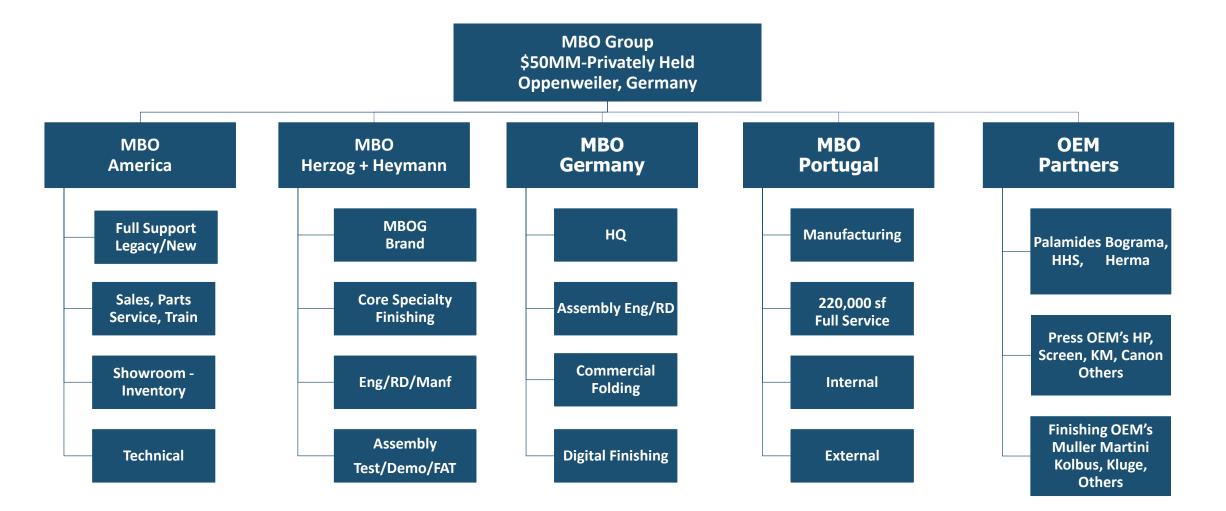


WHO IS THE MBO GROUP?

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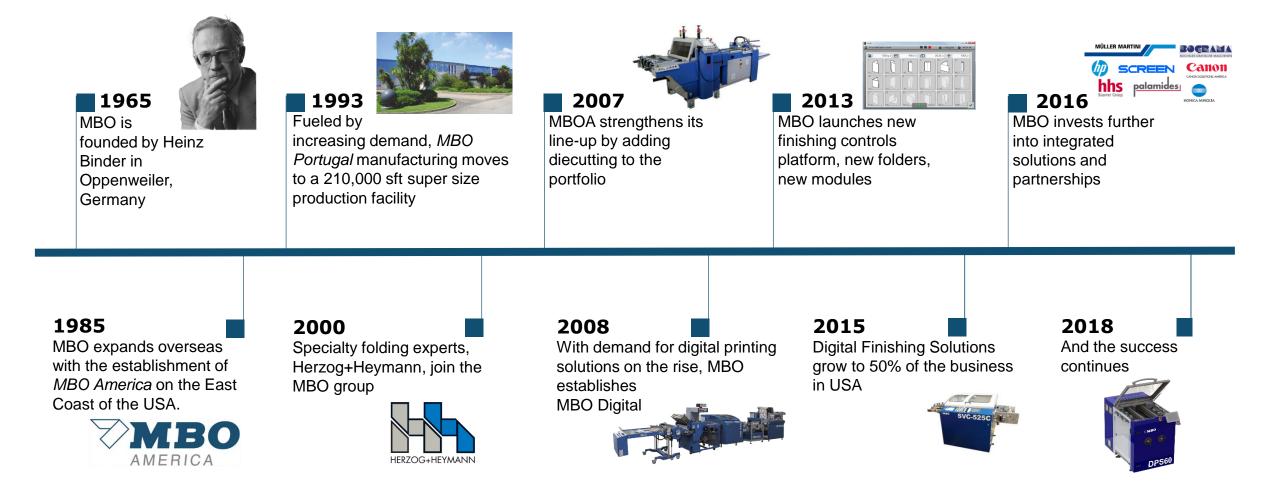
MBO GROUP



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MBO GROUP MILESTONES





ITS ALL ABOUT WHY

Why?

Finishing Is Where It Begins

- It's hard to sell a full flat sheet
- It's hard to sell a 50" dia. Roll
- Finished products grab the customer's attention

We Believe Print Is

- Enduring
- Creative
- The great communicator
- Is sustainable
- Is ever-changing

How?

- Modularity
- Flexibility
 Durability
- Performance
- Partnerships

What?

Modules



1 - 6 0 9 - 2 6 7 - 2 9 0 0

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MARKET PENETRATION

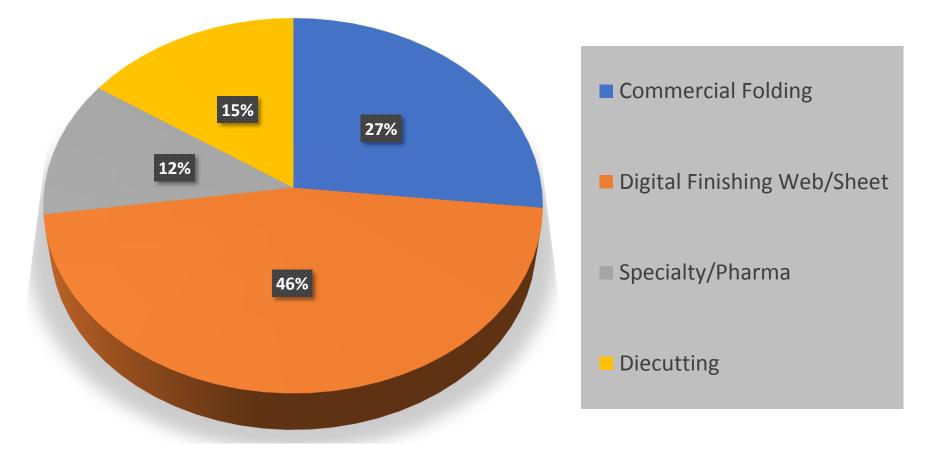


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MBOA SEGMENT ALIGNMENT

2018 Results



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DESIGN DISTRIBUTORS INC. CASE-STUDY

MARRYING HIGH SPEED FINISHING EQUIPMENT WITH WHITE PAPER DIGITAL WORKFLOW

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DESIGNDISTRIBUTORS



- Full-service direct marketing company
- Located on Long Island, New York
- Direct marketing and mailing specialists
- State-of-the-art facility
- Most diverse printing and mailing operation in the northeast



- Design Distributors was founded in 1966 in Deer Park, N.Y. as an envelope printing company by two brothers, David and Stuart Avrick. In the <u>52 years</u> since, Design Distributors has grown into the premier, one-stop print service in the Northeast.
- Led by company president, Adam Avrick, we specialize in assisting our customers as they navigate development and execution of each campaign, providing support and education—from artwork to delivery—no matter where they may be in the process.
- Our constant commitment to innovation and investment in new technologies has put us on the cutting edge of printing capabilities—pushing the envelope of what's possible.
- We pride ourselves on our ability to execute on almost any mail piece idea imaginable, all while offering unique specialty services, such as variable imaging, packaging, and scented ink for your mail pieces, alongside a full suite of traditional services.
- Today, our offerings include: *Printing*, *Database Management*, *Data Processing*, *Personalization*, *Mailing*, *Fulfillment*, *Tracking*, *and Reporting*.

DESIGNDISTRIBUTORS



Adam Avrick

President

Graduate Rochester Institute of Technology USPS PCC Industry Member of Year 2013 – Gold Board Member APC-NYC Printing Industries Alliance – Officer Long Island PCC Industry Co-Chair Board Member Printing Industries of America

"If you aren't at the table, you're on the menu."



Your Full Service Direct Mail Partner

Services:

- Printing: Web Offset, Sheet Fed & Digital
- Personalization
- Database Management/Data Processing Mailing & Fulfillment

Logistics

Certifications

- SOC II, Type II with Hi-trust mapping
- HIPPA Compliant
- FSC certified

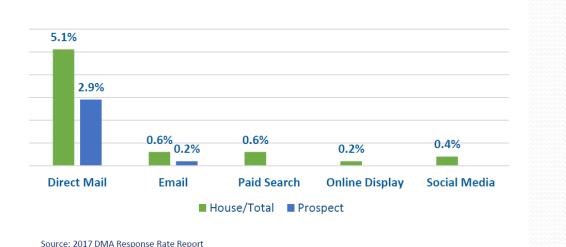
Why the shift to Digital?

• Direct Mail is still thriving, in fact it is a strong performer when compared with other channels.

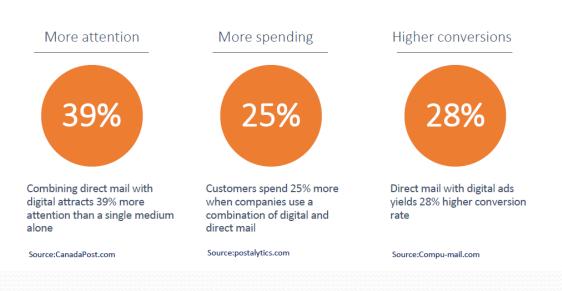
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- The combination of Direct Mail & Digital increases ROI significantly
- The availability of information and the speed of getting that info to the right person at the right time is driving success.

Response By Selected Media



Direct Mail + Digital = More ROI



DESIGNDISTRIBUTORS

Our Investment in Digital Technology

- After extensive research into Continuous Digital Color Presses, DDI installed the **HP T240HD PageWide Press** in July of 2018.
- Later that year, DDI also invested in **Ricoh's 9100** and **9200**.
- The addition of these digital color printers allowed: Decreased start-up time Increased quality levels Increased personalization Faster turnover

Clients have embraced the new gamut of digital information available to improve their ROI and quicken response rates.



DESIGNDISTRIBUTORS YOUR COMPLETE DIRECT MARKETING SOLUTIONS COMPANY

Why MBO?

SPEED

With the increased production from the T240-HD, we needed a sheeter/folder unit that could keep up. The 500 FPS available on the MBO was a perfect match.

EASE OF USE

The MBO requires less manpower to operate, and the output speed is finishing projects with reduced need for overtime by the staff. With minimum wages building, this helps our bottom line.

LESS DOWNTIME

The MBO is a juggernaut of efficiency. It's ease of use and maintenance makes it integral to our production requirements.



DESIGNDISTRIBUTORS

Why MBO?

SPACE REQUIREMENTS

The MBO Sheeter/Feeder's size was also a critical deciding factor. With the amount of equipment already in the production warehouse, we needed a unit that would fit in tight confines with less required remodeling necessary for operation.

Utilizing existing power and HVAC access, the MBO was installed and running quickly with either the single or double folding units in what was a less used machine waiting area.



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Why MBO?

INCREASED FLEXIBILTY

In the previous workflow, the finishing line could handle sizes no larger than 18" wide. The new line can handle up to 30". In the old workflow, for every 11" inches, we could cut and fold two forms across. Now, we can do three across. That's a 50% increase in throughput.

OLD FINISHING SET-UP VS. MBO SET-UP

- 100 FPM to 400-500 FPM
- 3:1 Equipment Replacement
- 3:2 Finishing Operator Replacement
- 50% Increase in Binding Throughput



Path of Continual Improvement

DESIGNDISTRIBUTORS



- High-speed monochrome presses
- Sheetfed and continuous form laser printers
- Following technology trends closely
- Not investing too early

Original Workflow

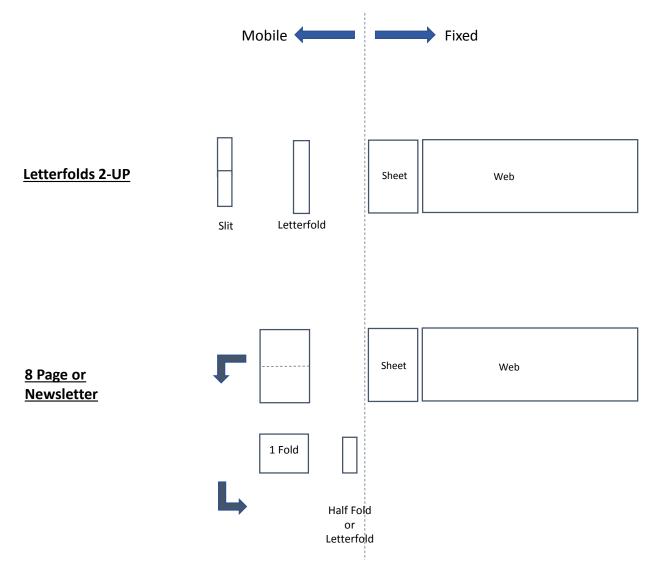
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Shell Production Model

- 3-step process
 - 1. Print base web on offset
 - 2. Print data using toner/laser
 - 3. Finish using pin-fed/pin-less chop, cut, and fold
- Lengthy turn around time
- Labor/equipment
- Limited cutoff sizes (repeats)
 - 22, 28, 34

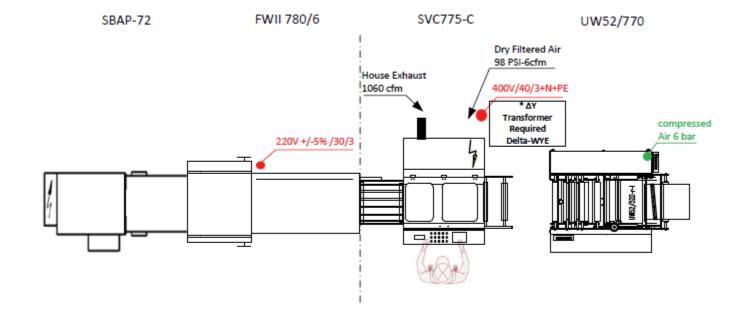






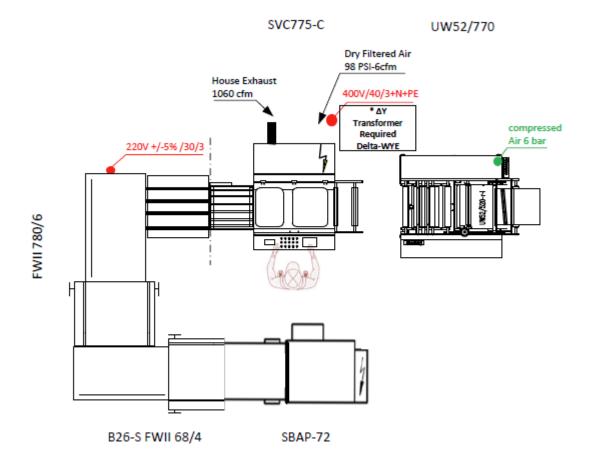
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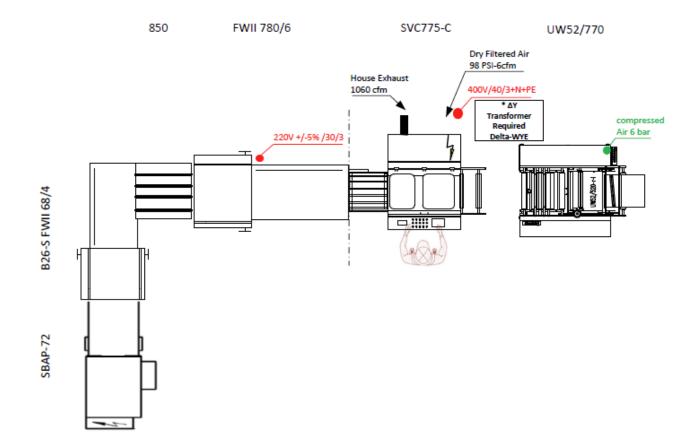
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THE ROI

Big Items

- Folding change: 140
 FPM per line to 400 700 FPM per line
- 3:1 Folding Equipment Replacement on Average
- 3:2 Finishing Operator Replacement when comparing budget production rates
- 50% Increase in Binding Throughput Overall

Process comparison for 100000 feet of paper using averages						
Original Process	Avg. Speed	Minutes	Labor	Comment		
Roll to Roll Offset	avg. 500fpm	200	2	High Cost		
Makeready Offset	avg. 180 min.	180	0	U/Cas/Roll		
Roll to Roll Print Toner	avg. 125 fpm	800	1	x1		
Makeready Toner	avg. 10 min.	10	0	x1		
Roll to Fold Production	avg. 140fpm	714	1	x1		
Roll to Fold MR	20 min	20	0	x1		
Offset Spoilage**	Х	х	х	10% paper		
TOTAL		1924	4			
New Process	Avg. Speed	Minutes	Labor	Comment		
Roll to Roll Digital	avg. 250-500fpm	286	1	sinlge press		
Print Makeready	avg. 10 min.	10	0	Rolls		
Roll to Fold	avg. 400fpm	250	2	x1		
Roll to Fold MR	20 min	20	0	x1		
TOTAL		566	3	0		



THE ROI

Adjusted Analysis

- Run multiple lines of toner press
- Run multiple lines of folding

Process comparison for 100000 feet of paper using averages							
Original Process	Avg. Speed	Minutes	Labor**	Comment			
Roll to Roll Offset	avg. 500fpm	200	2	High Cost			
Makeready Offset	avg. 180 min.	180	0	U/Cas/Roll			
Roll to Roll Print Toner	avg. 125 fpm x 3	267	3	x3			
Makeready Toner	avg. 10 min. x 3	30	0	x3			
Roll to Fold Production	avg. 140fpm x3	238	3	x3			
Roll to Fold MR	20 min x 3	60	0	x3			
Offset Spoilage**	Х	x	х	10% paper			
TOTAL		975	8				
New Process	Avg. Speed	Minutes	Labor	Comment			
Roll to Roll Digital	avg. 250-500fpm	286	1	1			
Print Makeready	avg. 10 min.	10	0	Rolls			
Roll to Fold	avg. 400fpm	250	2	x1			
Roll to Fold MR	20 min	20	0	x1			
TOTAL		566	3	1			



MEETING (NOT SO) MODEST GOALS

Thank You for you joining us.

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