Expanding the Corrugated Flexo Pond – It's Time to Convert Litho Business

FPPA 2013

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Agenda

- Why Expand the Pond?
- Market Opportunity / Trends
- Voice of the Customer
- Advantages of Each Print Process
- Your Sales Opportunities
- Summary



Why Expand the Pond?

3 Reasons

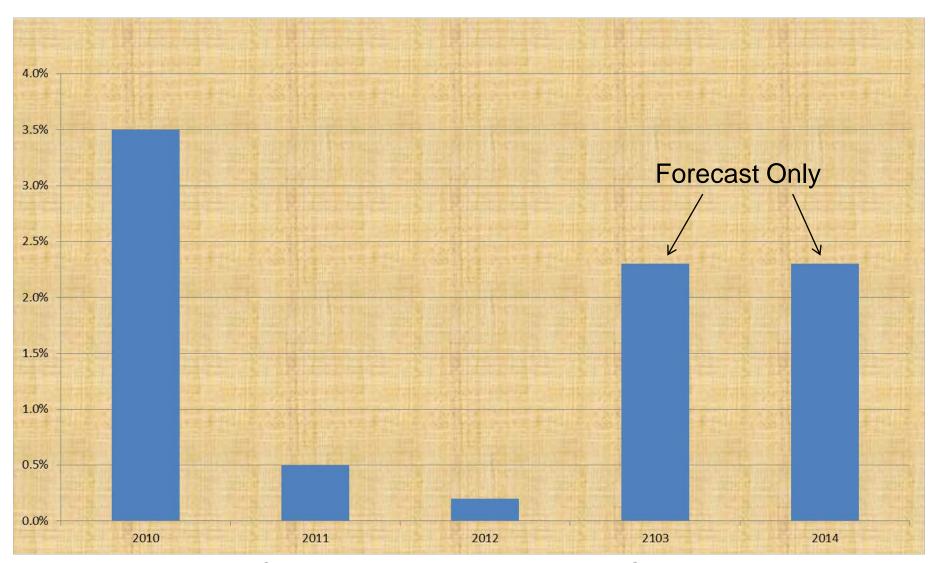


#3 - Box Demand is Stagnant

- North American growth in box demand has been flat
 - 1.2% average growth over the past 3 years
 - Only 2.3% growth per year forecasted through 2016



Box Shipment Growth







Do You Ever Feel This Way?





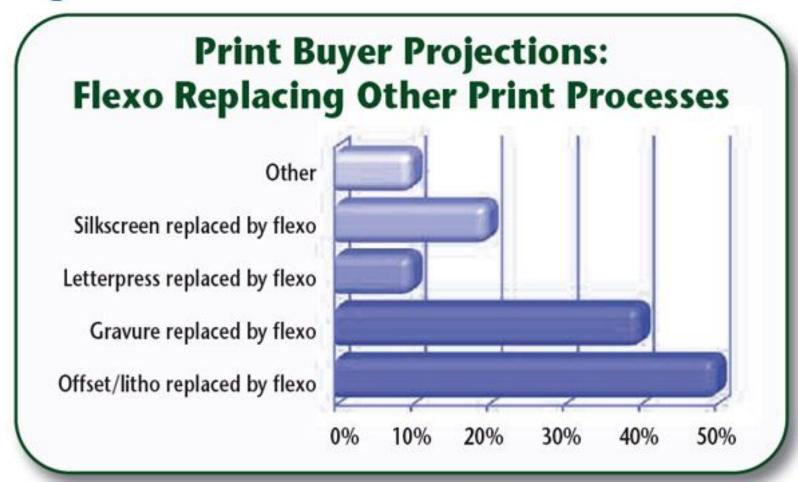
#2 - To Stay Healthy and Be Relevant

- We must find new revenue opportunities
- We must promote high-end flexo to the CPG's



Trends Favoring Flexo

Figure 1





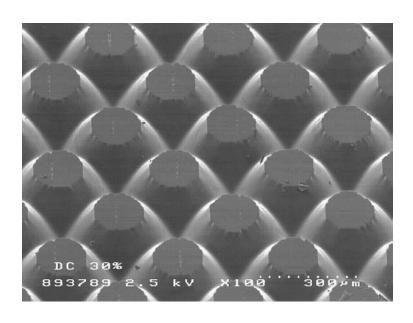
We Can't End Up Like This Guy!





#1 - BECAUSE WE CAN!!!

Flexo plate and press technology are vastly improved









High-End Presses



EMEA Flexo Photo Gallery



55 LS - E





47 LS - B



Source: Bobst

63 LS - E

EMEA Flexo Photo Gallery



126 LS - EB





103 LS - BC



126 LS - FE



110 LS - BE

2012 SuperCorr Print Awards

- All 21 North American printing awards were printed with DuPont Cyrel® digital plates
- Of these winners, <u>15</u> were printed with DigiCorr "flat-top dot" technology
 - 8 different tradeshops won awards
 - 6 utilized DigiCorr technology



Award Winner





Award Winner





Award Winner





Market Opportunity



Market Size

- Demand for corrugated and paperboard boxes in the U.S. is projected to increase 2.3 percent annually to \$36.5 billion in 2016
- 90% of all products shipped in the NA are placed in corrugated boxes

End Use



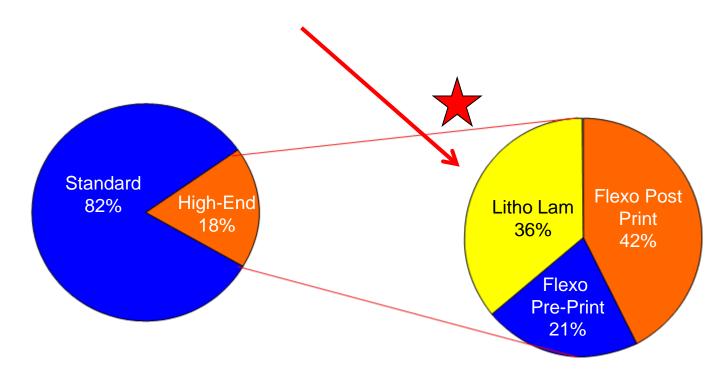
• <u>Processed food</u> currently forms the single largest segment for end-use corrugated board packaging, encompassing 25% of all consumption, while <u>fresh food and produce</u> represents 9% and <u>beverages</u> 7%.



 The <u>beverage</u> and <u>frozen food</u> segments are expected to post the fastest gains



Opportunity



Source: Bobst



Market Trends



Key Drivers and Trends

Smaller packaging requirements

- Average household size declining
- Single parents
- Less family meals

"Time Poor" consumers

- Less standard, longer working hours
- Longer commutes
- Valuable leftover time not wasted on food prep

Rising health awareness consumers

- Increased demand for packaged fresh food
- Healthier frozen meals

QUPONT

CPG Trends



- Shorter turnaround time
- Eye-Popping Graphics to "sell" the product on the floor
- Reduced costs
- Smart packaging



Flexo Press Trends



- More colors (up to 7 color plus a varnish)
- Higher speeds
- Servo driven (push for thinner plates!!)
- Tighter registration capabilities
- Dryers after each station; curing station prior to diecut section
- Dry trap 4 color process, 2 spot colors and a varnish at max speed



Packaging Trends

Lighter Weight Liners

- Reduced cost
- A greater challenge for high-end printing
- DigiCorr is a must to mitigate fluting

Retail Ready Packaging (RRP)

- THE next generation of merchandising
- The European market has been utilizing RRP for over 5 years.



Retail Ready Packaging



- 75% of RRP demand originates in the food sector, while the beverage industry accounts for 6%
- The most popular type of RRP is corrugated board, which accounts for 75% of the total volume of materials used in 2011.
- Within this, die-cut display containers are the predominant choice, making up more than half the market



Retail Ready Packaging

Key Driver – Improved Marketing Strategy

- Compliment the primary pack in order to facilitate and improve display
- Improve product identification, product presentation and brand recognition
- Adds structure to the shelf making it easier for shoppers to navigate the store
- Consumers demand convenience and availability

Key Driver – Improved Store Efficiency

- Improved supply chain and store efficiency
- Less double handling of product
- High labor turnover rate easier to train new employees
- Recyclability



This Should Be Our Pond





Go Fish!





Retail Ready Packaging



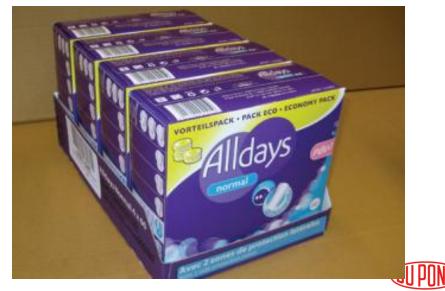


Retail Ready Packaging









Voice of the Customers

Pratt Industries
Mid Atlantic Packaging
Great Northern Corporation
Allpak Trojan



Printer's Considerations

- Run length
- Number of colors
- Graphic / trap requirements
- Turnaround time to meet customer's needs
- Cost of job
- Press capabilities
- Board type / thickness

**** Note – all four printers said a <u>flat-top dot digital plate</u> is a "must" to compete with litho quality



Litho Advantages

- Cost effective for short runs
 - Especially "one-time" short orders
- Finer line screens and halftones
 - Typically run 150 180 line screen (no need to run less)
 - Large jobs with detailed skin tones go litho can't risk changes in ink and plate wear with flexo
- Tighter registration
- Perception in industry that litho can only do high quality jobs



Flexo Advantages

- Cost effective for medium to long runs
 - Especially repeat jobs
- Faster turnaround time
 - Flexo one step process (average range is 1 2 days)
 - Litho Up to 3 step process (average range is 3 5 days)
- Direct print on all board types
 - No limitation to print any job



Flexo Advantages

- Press size format
 - Most litho presses limited to 40" x 56"
- Thinner liner medium
 - 41lb for flexo; litho 56lb (to withstand lamination)
- Quality has improved tremendously
 - Up to 150 line screen



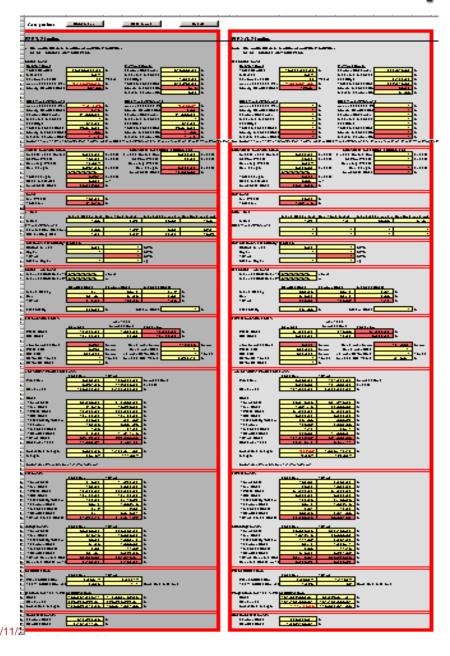
Sweet Spot for Flexo

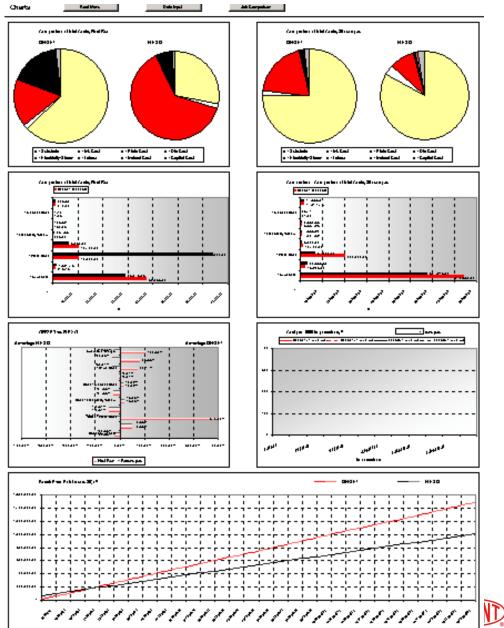
# of Boxes	Flexo	Litho
0 – 1,000 boxes		X
1,000 - 5,000 boxes		X
5,000 – 10,000 boxes	X	X
10,000 – 25,000 boxes	X	X
25,000 - 50,000 boxes	X	
Over 50,000 boxes	X	





Language / Sprache / 语言:English	used Currency:	RMB							
	WELCOME								
COST-COMPARITOR FOR PRINTING PRODUCTS									
Constant and	7								
Customer:	Printing Type One :	OFFSET	Sheetfed						
	Printing Type Two :	FLEXO	Sheetfed						
Job : DuPont test print									
Data Input	Job Comparison	Charts							
IMPORTANT: Cost models are never perfect and depend on many variables and inputs and the cost model(s) shared here are based on the research studies and market data analysis of the value chain we conducted in China									







Description:

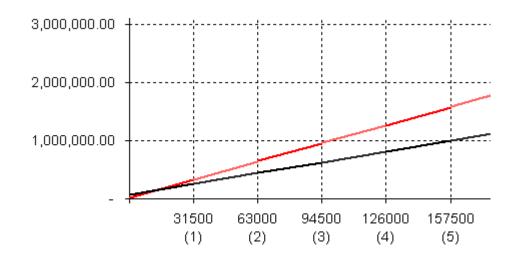
In the cost model, we assume every order's quantity is 30,000pcs, with 5 repeat orders per year. Our analysis indicate that the breakeven point occurs within the first order and within the first print run; thus, in this case, the flexo price will be always lower than offset.

Typical for OEM, private branded products for home appliance, consumer electronics, and office automation products

Cost model---Break-even point

Offset

Flexo





30000

50000

0.8x

0.7x

O F	Repeat Runs Quantity (pcs)	1	3	5	10	30	50
F	500	8.8x	6.5x	6.1x	5.7x	5.5x	5.5x
s	1500	3.5x	2.8x	2.6x	2.5x	2.5x	2.4x
ı	5000	1.7x	1.4x	1.4x	1.3x	1.3x	1.3x
E	10000	1.3x	1.1x	1.1x	1.1x	1.1x	1.1x
Т	30000	1x	1x	1x	1x	1x	1x
١.	50000	1x	1x	1x	1x	1x	1x
F	Repeat Runs Quantity (pcs)	1	3	5	10	30	50
I	500	16.5x	7.3x	5.4x	4.0x	3.2x	2.9x
E	1500	5.9x	2.8x	2.2x	1.7x	1.4x	1.3x
X	5000	2.1x	1.2x	1x	0.9x	0.8x	0.8x
	10000	1.4x	0.9x	0.8x	(0.7x)	0.7x	0.7x

0.7x

0.6x

0.6x

0.6x

0.6x

0.6x

0.6x

0.6x

For example: For this size box, a print quantity of 10,000 pieces with 10 repeat runs (total 100,000), cost savings are estimated at 30% off a similar offset/litho job

1x = 1 Price Unit

0.6x

0.6x



One Printer's Comments

- "We are converting a lot of our larger clients from offset to direct print. I am talking about beauty shots, traditional taboo areas that nobody would ever consider".
- "Many consumer product companies are saying we want cost savings and we think the direct print quality is there".
- "Pallets in club stores were often defaulting to litho. We did press fingerprinting, then ran a process job and proved that this work can be done flexo".
- "We're taking double digit costs out of some jobs. If your looking at a pallet that has 12, 16, 20 trays on it and your doing 1000 pallets, the cost savings is significant".
- "It all comes down to volume".



In Store Print Examples



We Can Do Better!!





We Can Do Better!!





Does Less Color Mean Cheaper Product?





Look a Little Closer





Flexo Printing





What Sells You In This Photo?





Remember This Award Winner?





Vegetable Trays





Do You See the Opportunity?





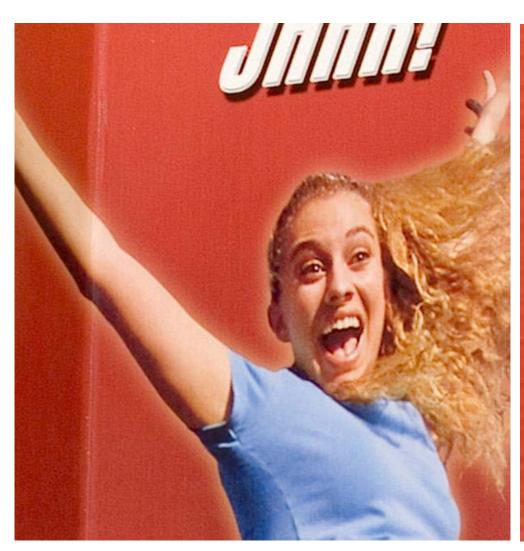
Looks Good From Here

- Viewing distance typically 6-20 feet
- Consumer has already noticed
- Impossible to determine print process





From 12" you can see the difference but..... the consumer is already hooked!!







Your Sales Opportunities Summary



- All current litho jobs between 5,000 and 25,000 boards
- Any flexo press with 4 or more colors
- Processed, fresh produce, and frozen food and beverage sub-segments
- Retail-Ready Packaging
- More profitable high-end jobs vs. low margin brown box work
- Short turnaround jobs
- Visit the Club Stores to find your opportunities









Summary

- With the industry stagnant for the foreseeable future, we must expand flexo's opportunity
- Prepress, plate and press technology are there and the converters are printing outstanding work.
- We need to change the perception by promoting flexo and go after litho whenever possible



Questions??



Thank You!!

