

# HARBOUR IQ<sup>M</sup> Industry Outlook

Presented By: Laurie A. Harbour President and CEO June 1, 2016







HARBOUR **|Q**<sup>™</sup>

### **Trusted Advisor to the Manufacturing Industry**

Established to help small- to medium-sized businesses transform operations and develop a roadmap to maintain financial and operational success.





# HARBOUR | **Q** Partners

**Executive Level** 





MOLI

Pro Level







### Agenda

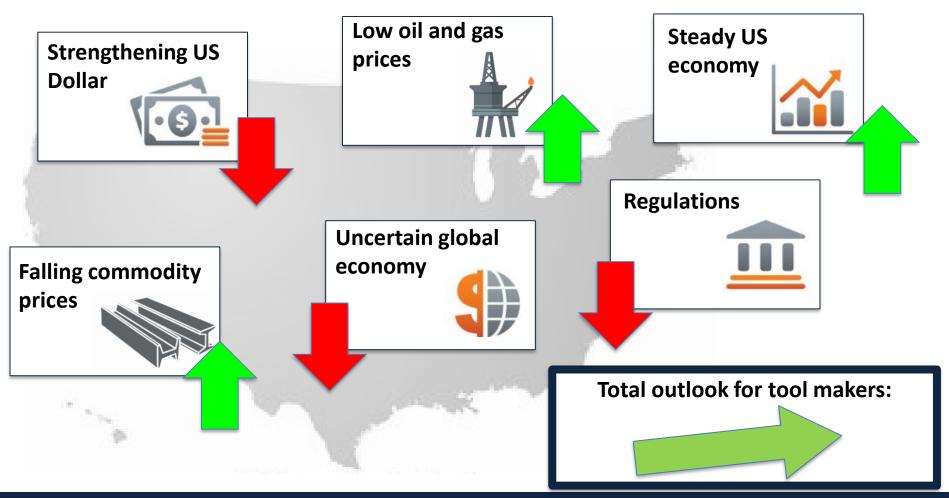
✓ Industry Forecasts
 ✓ Manufacturing Trends
 ✓ Geographic Trends
 ✓ Manufacturing Performance
 ✓ Positioning for Success



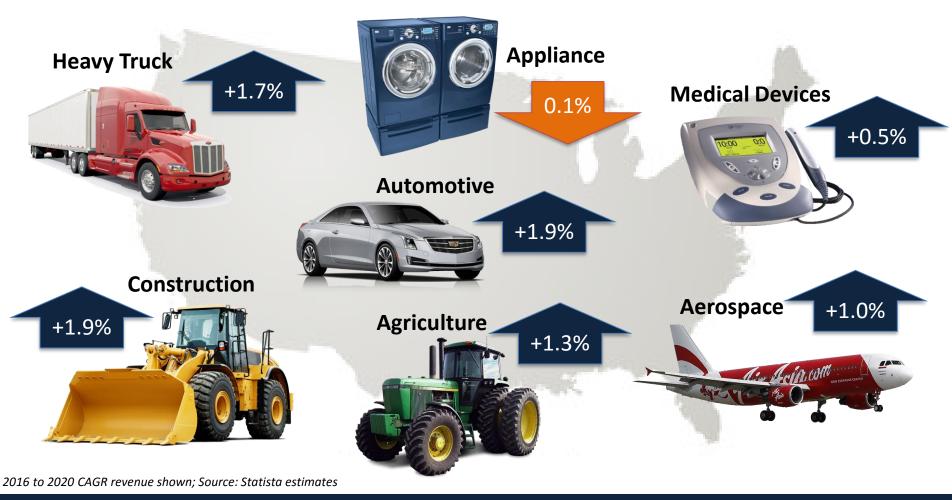
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# **INDUSTRY FORECASTS**











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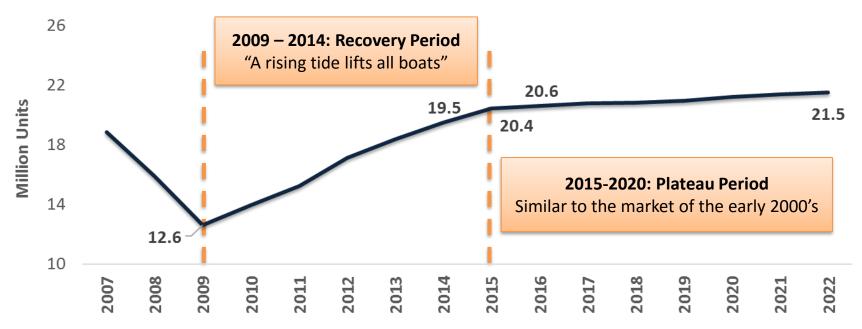
# **MANUFACTURING TRENDS**



### Auto is at an Inflection Point, Driven by Demand

**Dynamics of the Market May Change Dramatically** 

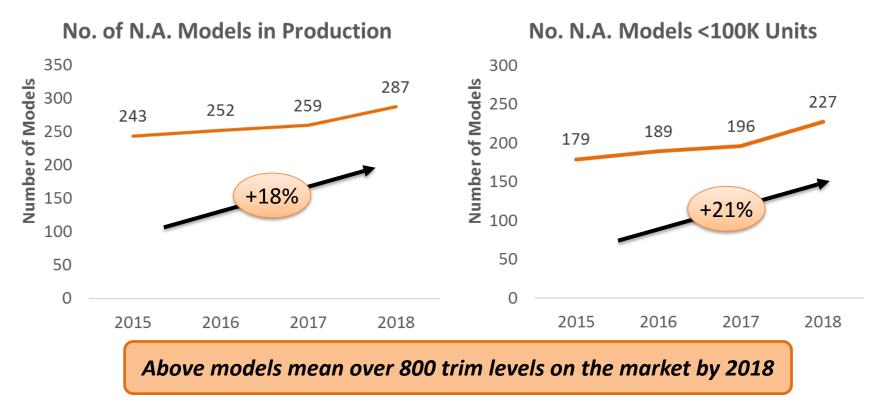
**NA Light Vehicle Demand** 



Source: LMC Automotive, WardsAuto



### At the Same Time, Mix is Increasing



Source: LMC Automotive



### And, Product is Becoming More Complex







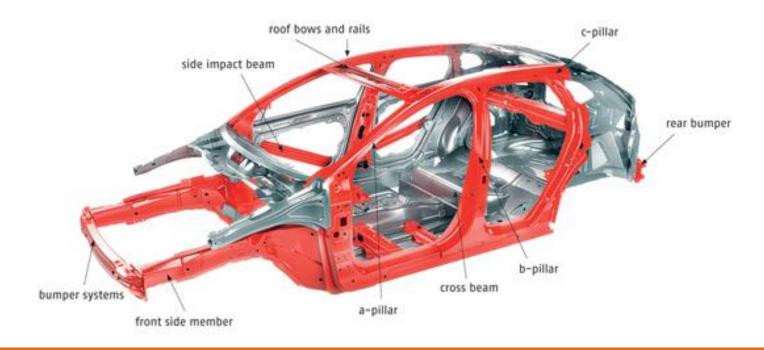








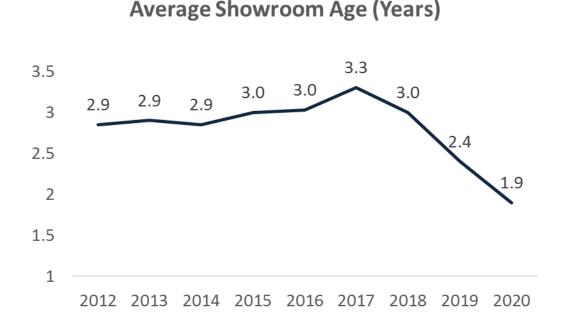
## **Steel Product Complexity**



High and medium strength steel has increased 24% in 4 years and aluminum is up 17%; expectation is more of this by 2022 to meet government regulations



### **Shorter Lifecycles Squeeze the Industry**



Average age expected to drop precipitously over the next 5 years

Shorter lifecycles mean **less time to amortize** tooling and other capital

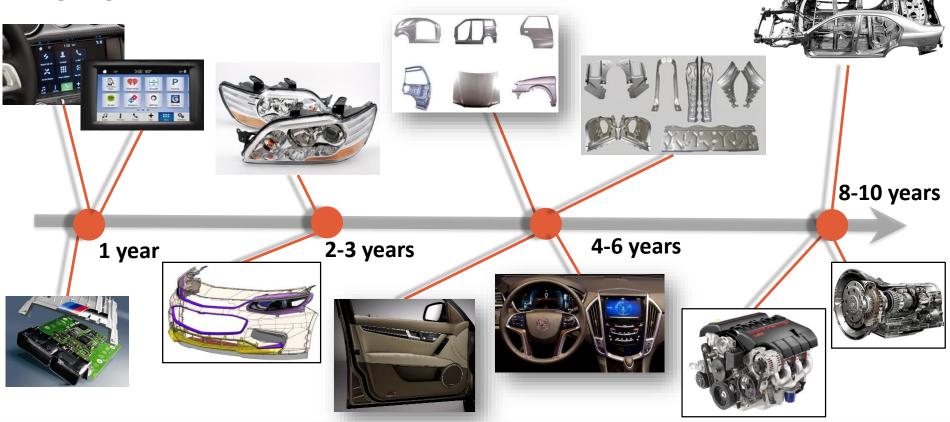
Result: suppliers will need to recover investment with **higher piece prices** 

Source: Car Wars, Bank of America Merrill Lynch



### **Develop Long-term Strategies**

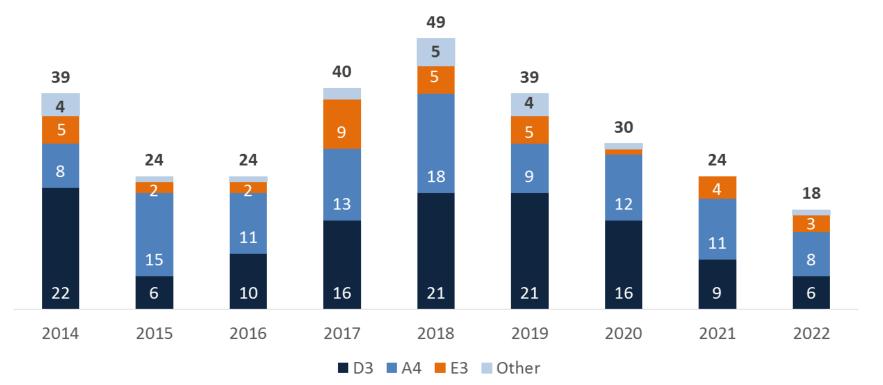
**Aligning Product and Process to Demand** 





### **N.A. New Vehicle Launches Remain Strong**

**New Entry and Redesign – SOP Launch Year** 



Source: LMC Automotive



### **Upcoming Big 3 All-New Launches and Redesigns Likely Sourcing Tooling Soon**

Q1 2018

### Q2 2018

#### Q3 2018



Cadillac CT2 All New SOP: Jan 2018



Jeep Wrangler Pickup All New SOP: Jan 2018

Toyota Avalon Acura RDX

Ram 1500

Subaru Tribeca

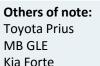


Chrysler Midsize SUV

All New SOP: Apr 2018



Ford Small Car All New SOP: Apr 2018



**GMC** Sierra Major SOP: May 2018



**Chevrolet Silverado** Major SOP: May 2018



Ford Focus Major SOP: Q3 2018



Chrysler compact SUV

All New

SOP: Jul 2018



Ford Compact Hybrid All New SOP: Sep 2018

Ford Fusion

Major

SOP: Sep 2018



Lincoln MKC Major SOP: Jul 2018

#### Others of note:



Source: LMC Automotive

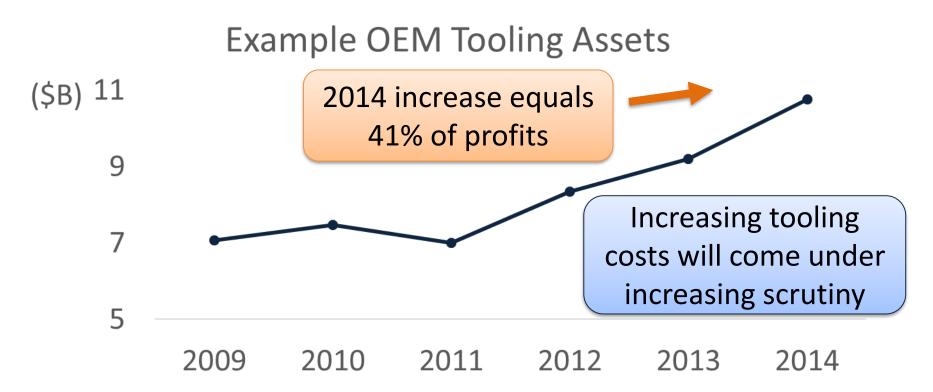
Others of note:

Nissan LFAF

Infiniti QX60



### **Continued Tooling Spend Increase is Untenable**



Source: Company Financials; Net of Amortization



### **Tooling a Factor in 787 Profitability**



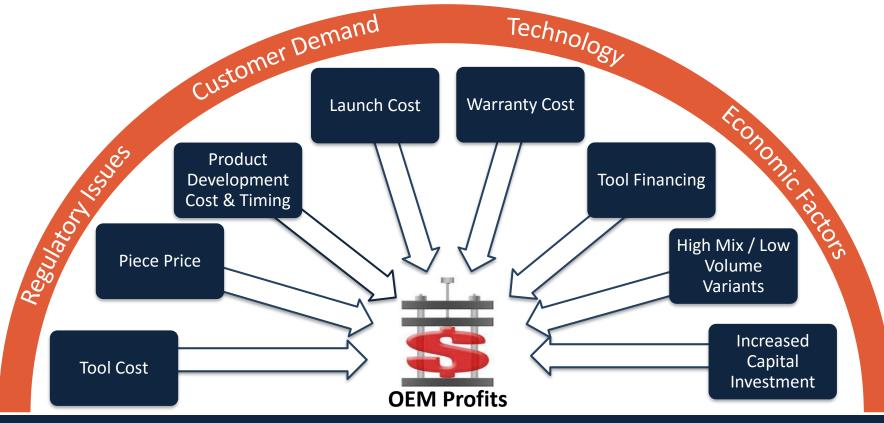
787 total tooling costs **~\$5.5B** 

Currently **lose** an average of \$15.6 million per aircraft, driven in part by tooling costs

Source: Flight Global, Company reports



### **OEM Profits are at Risk**



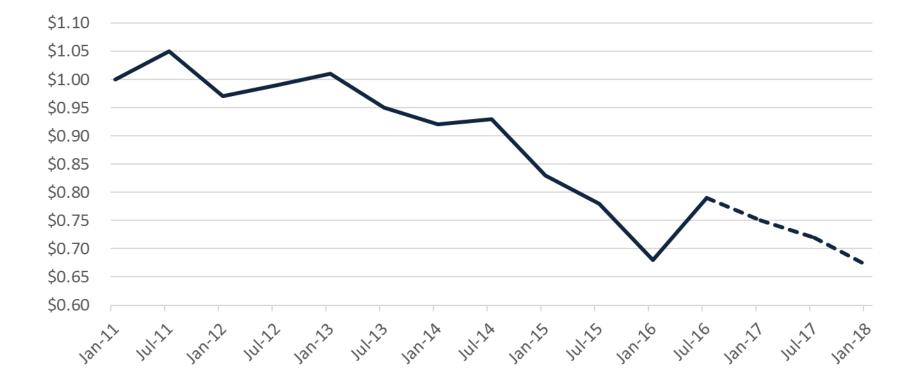


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# **GEOGRAPHIC TRENDS**

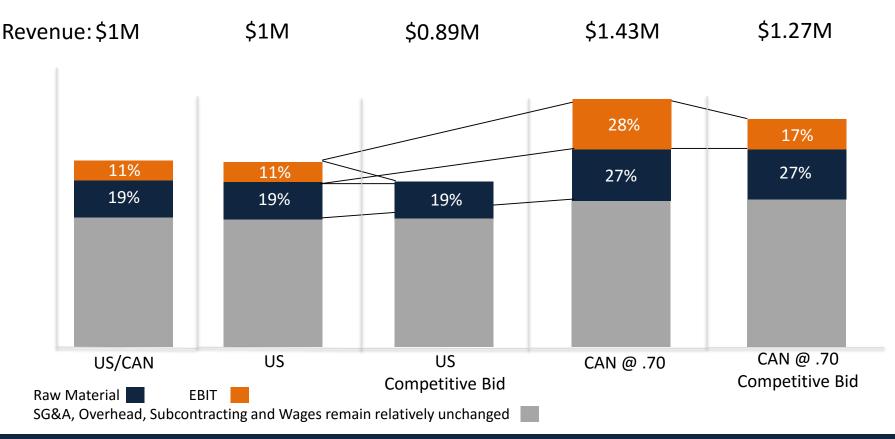


### **CAD/USD Exchange Rate Challenges Industry**





### **Exchange Rate Drives Canadian Advantage**



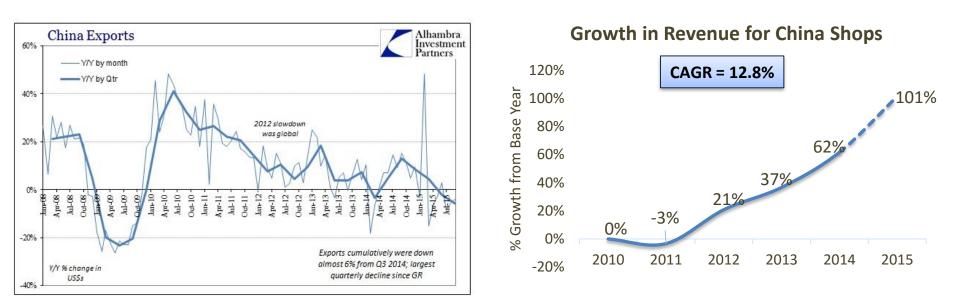


## China Exports are Slumping, but for Tooling?



### China's export growth has slowed, is negative in 2015

However, tooling demand from North America has increased



Source: Harbour IQ



### **Mexico Manufacturing Expanding Rapidly**

Automakers have announced \$24.2 billion worth of investment in Mexico ...nearly a third of all new spending... -- Car and Driver, October 30, 2015

> Over 300 **aerospace** component facilities have located new plants in Mexico and are exporting over **\$5B** in aerospace parts.

**OLARIS** 



JOHN DEERE

<u>GM</u>

FC/

### Mold Shops are Following...but not die shops



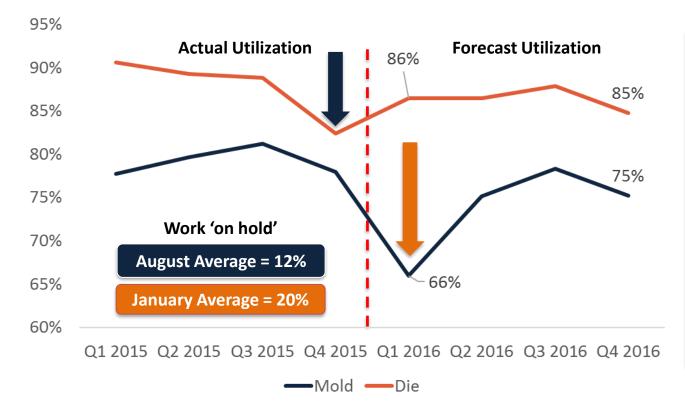


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# **MANUFACTURING PERFORMANCE**



### **Capacity Utilization Expected to be Low in 2016**

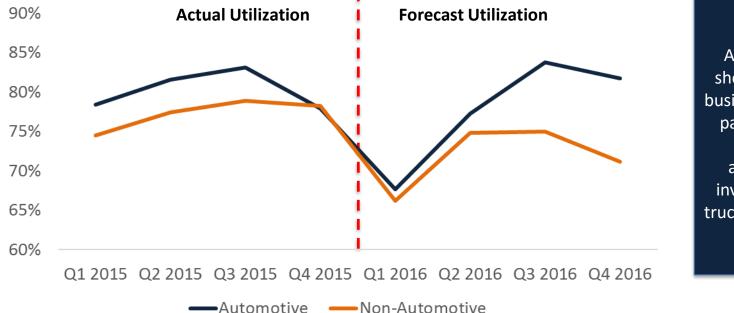


To better understand the wide discrepancy we see between mold and die in Q1 2016, we looked at utilization rates by company. In short, a majority of mold and die shops had slowed down, however, there were several die shops that were very busy and drove the overall die utilization rate up

Note: Mold and die shops asked to provide forecasted (not booked) capacity utilization for 2016



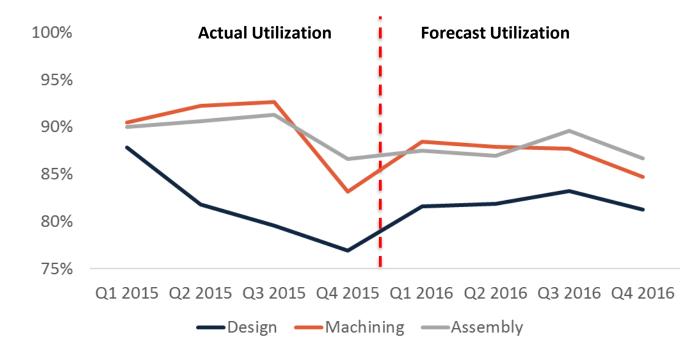
### **Non-Auto Tool Shops Appear Less Utilized**



Automotive tool shops expect to be busier in 2016. This is partly driven by a slowdown in appliance, high inventory in heavy truck, and low oil and gas prices.



### **Capacity Utilization – Die Job Function**

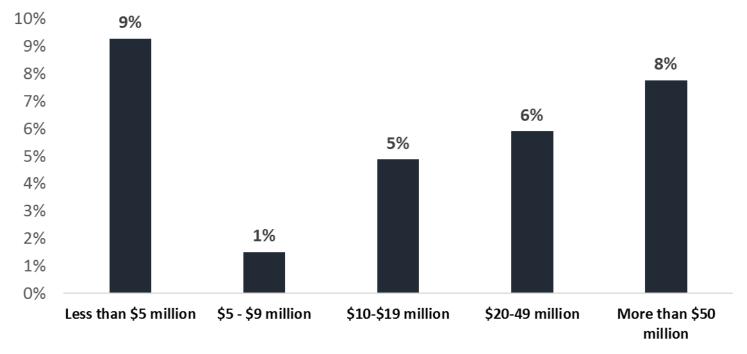


Die shops also have some available capacity in 2016, and are unsure about sales later in the year



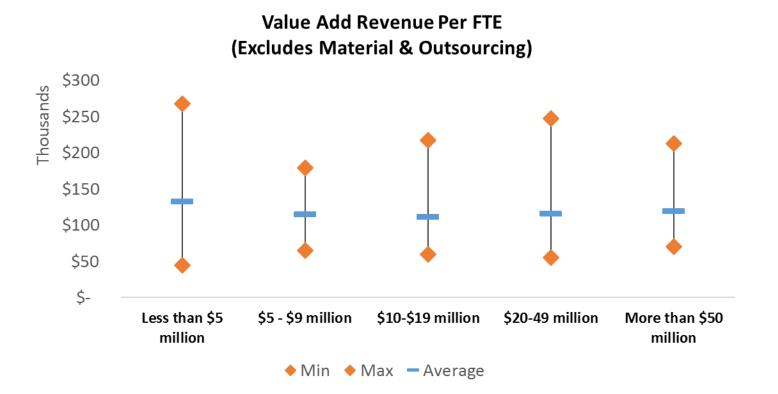
### **PMA Stamping Benchmarking**

**EBIT % of Revenue** 



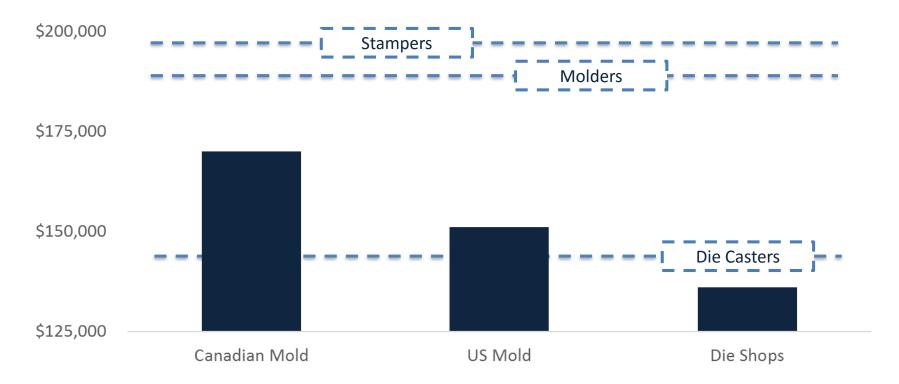


### **PMA Stamping Benchmarking**



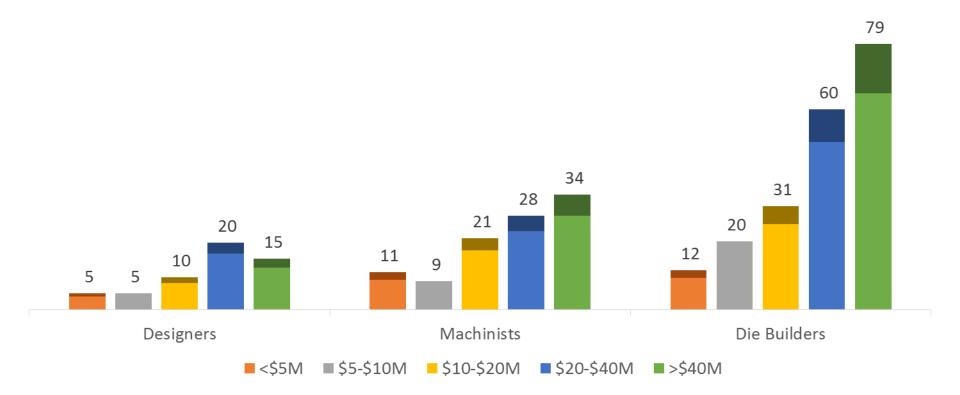


# Manufacturing Competitiveness (Rev/FTE)



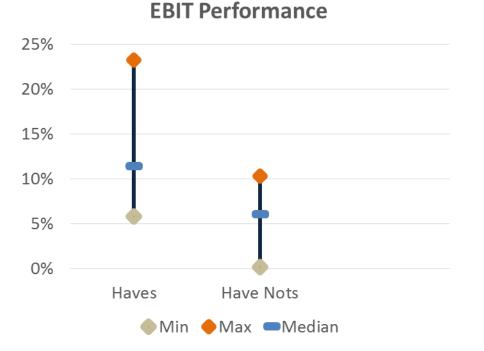


## **Die Shops Rely Heavily on Die Builders**

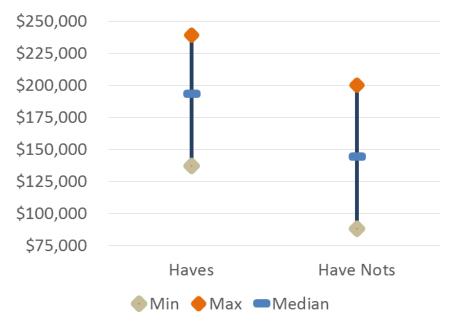




### **Emergence of the Have's and Have Not's**



### **Revenue Per Full Time Equivalent**





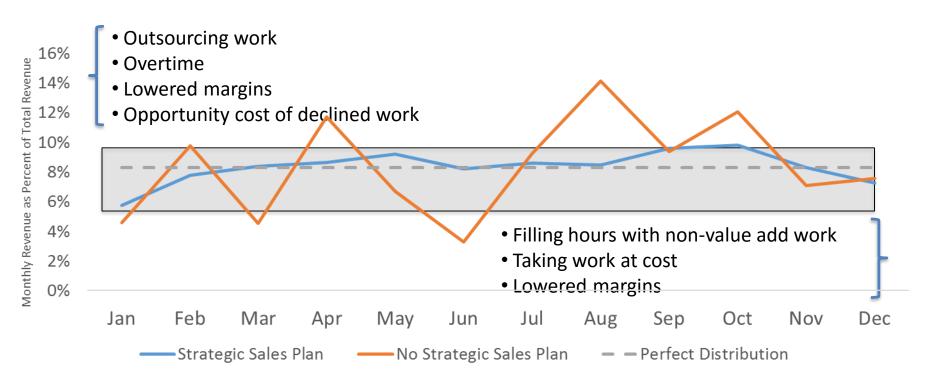
Source: Harbour IQ – U.S. and Canadian Die Shops

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# **POSITIONING FOR SUCCESS**



### **Effect of Turbulent Revenue**





### **Strategic Selling Process is the Silver Bullet**





## **Hit Rate Analysis Reveals Inefficiency**

Customer	Total Quote (\$)	Total PO (\$)	Hit Rate
Customer 1	\$348M	\$1.1M	0.33%
Customer 2	\$179M	\$1.9M	1.04%
Customer 3	\$163M	\$.3.3M	2.05%
Customer 4	\$96M	\$0.2M	0.17%
Customer 5	\$95M	\$1.9M	1.94%

14-month quote analysis:

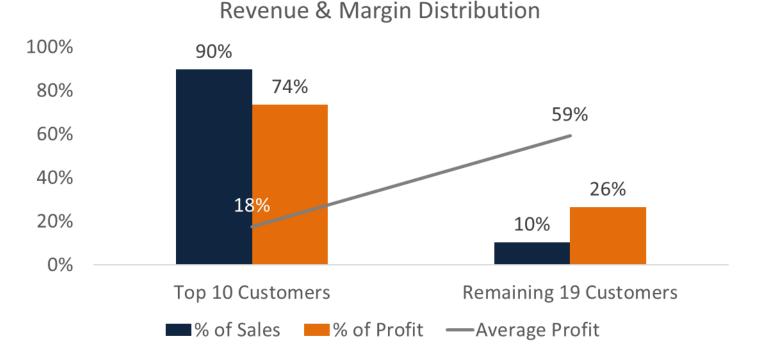
- > \$2B total quotes
- > 4,500 quotes
- 0.91% overall hit rate
- 64% of quoted customers never purchased
- Top 10 customers >75% of total business

Customer	Total Sales (\$)	Total Quote (\$)	Hit Rate	
CAT	1,168K	3,821K	31%	
GM	1,118K	2,660K	42%	
Ford	901K	2,212K	41%	
Customer /	A 215K	9,553K	2%	
Customer I	3 193K	894K	22%	
Customer (	C 176K	2,264K	8%	
Customer I	D 74K	407K	18%	
Customer I	Е 60К	485K	12%	
Customer I	- \$56K	308K	18%	
Customer (	G \$33K	405K	8%	
<ul> <li>2015 quote analysis:</li> <li>Total hit rate 12% and very high on key customers</li> <li>Fow sustamers actually average 12%</li> </ul>				

- Few customers actually average 12%Heavily concentrated on 3 customers
- Large OEMs yet few RFQs

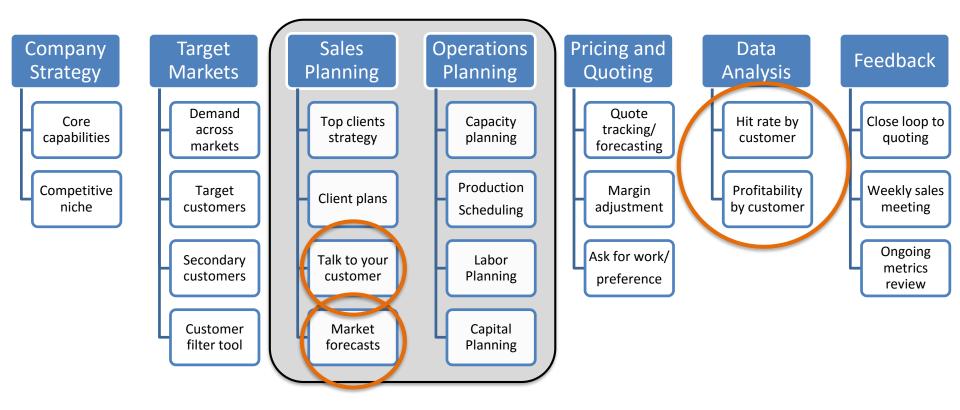


### **Profit by Customer Can Identify Hidden Gems**





## **Can't Cherry Pick Your Way to Profitability**





### Where to From Here?

✓ Future headwinds are significant ✓ Evaluate your sales process ✓ What does your data tell you? ✓ Adapt your strategy ✓ Align sales and operations planning ✓ Feedback, feedback, feedback

Leadership is Key



### Thank you for the opportunity

Laurie A. Harbour Iharbour@harbourresults.com www.harbourresults.com 248-552-8400 @HarbourResults Company Page: Harbour Results, Inc.



