

HARBOUR IQ^M Industry Outlook

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







HARBOUR **|Q**[™]

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

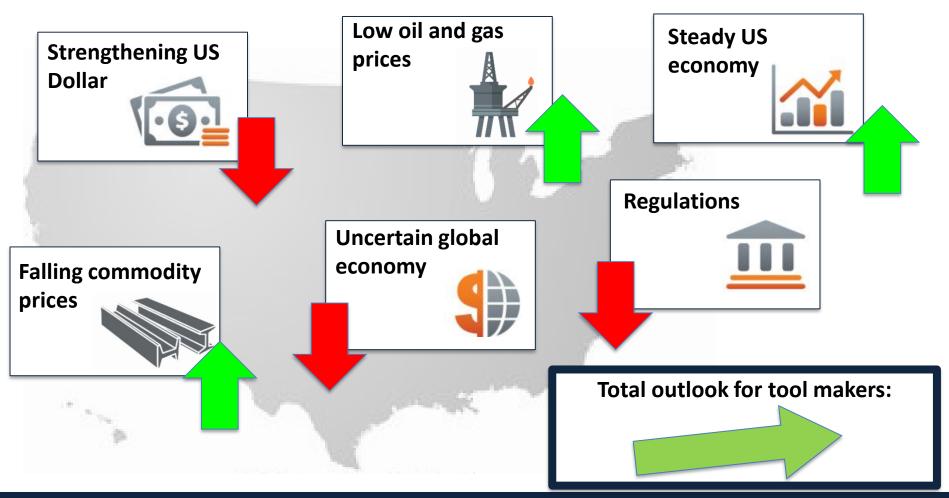
✓ Industry Forecasts
 ✓ Manufacturing Trends
 ✓ Geographic Trends
 ✓ Manufacturing Performance
 ✓ Positioning for Success



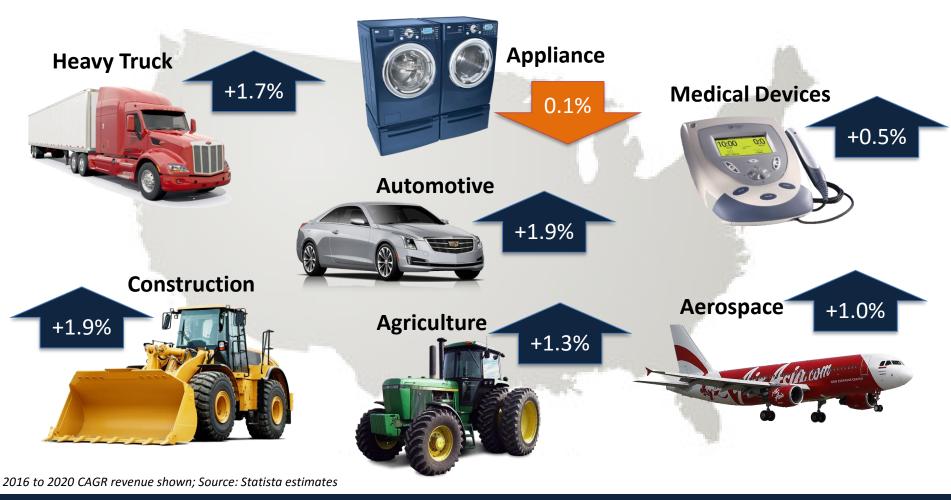
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INDUSTRY FORECASTS











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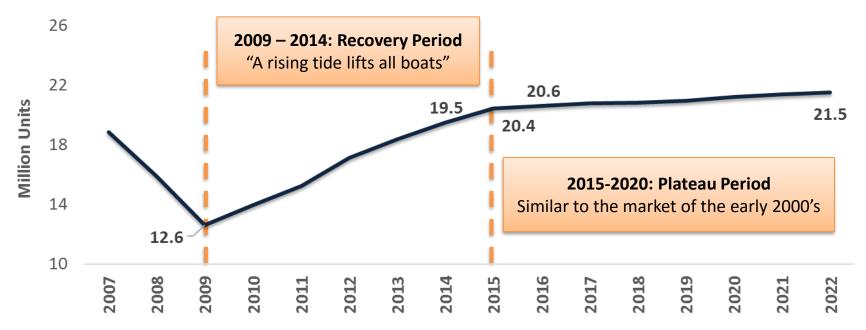
MANUFACTURING TRENDS



Auto is at an Inflection Point, Driven by Demand

Dynamics of the Market May Change Dramatically

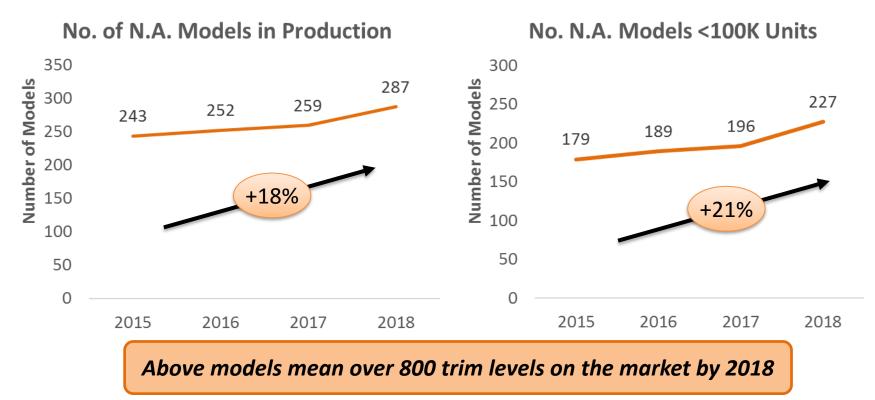
NA Light Vehicle Demand



Source: LMC Automotive, WardsAuto



At the Same Time, Mix is Increasing



Source: LMC Automotive



And, Product is Becoming More Complex







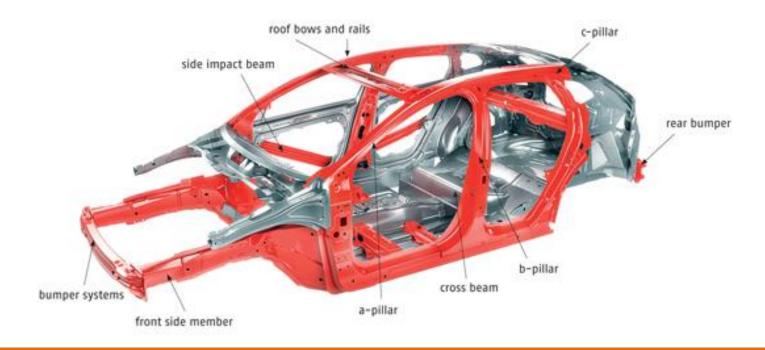








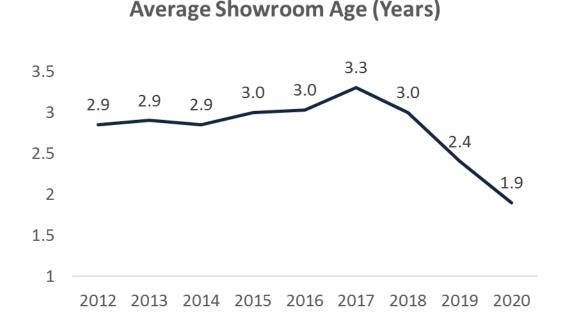
Steel Product Complexity



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

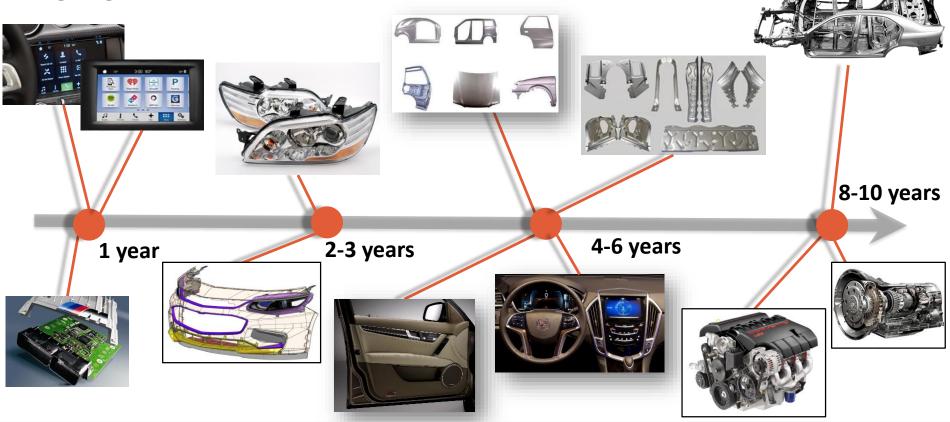
Result: suppliers will need to recover investment with **higher piece prices**

Source: Car Wars, Bank of America Merrill Lynch



Develop Long-term Strategies

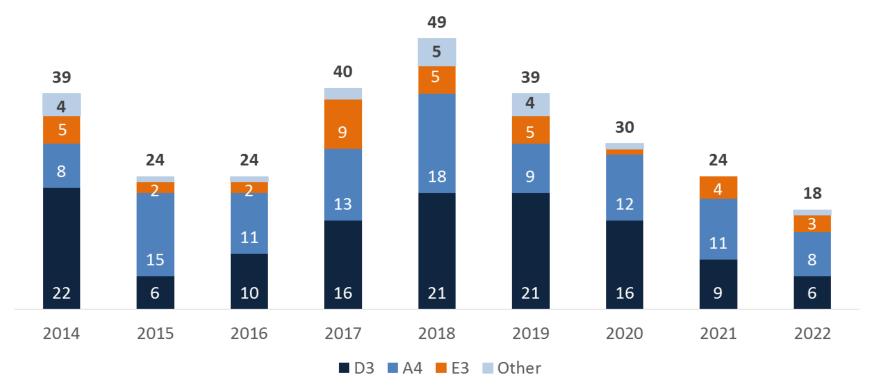
Aligning Product and Process to Demand





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



Ford Small Car All New SOP: Apr 2018

Others of note: **Toyota Prius** MB GLF Kia Forte



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

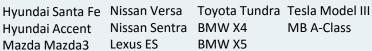
Major

SOP: Sep 2018



Lincoln MKC Major SOP: Jul 2018

Others of note:



Source: LMC Automotive

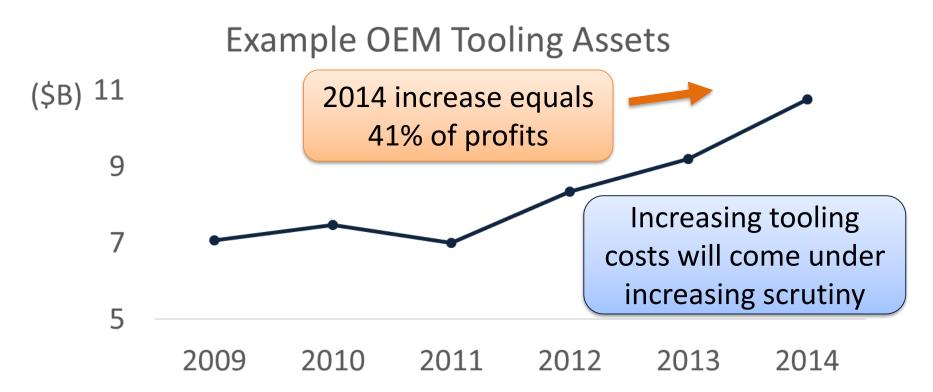
Others of note:

Nissan LFAF

Infiniti QX60



Continued Tooling Spend Increase is Untenable



Source: Company Financials; Net of Amortization



Tooling a Factor in 787 Profitability



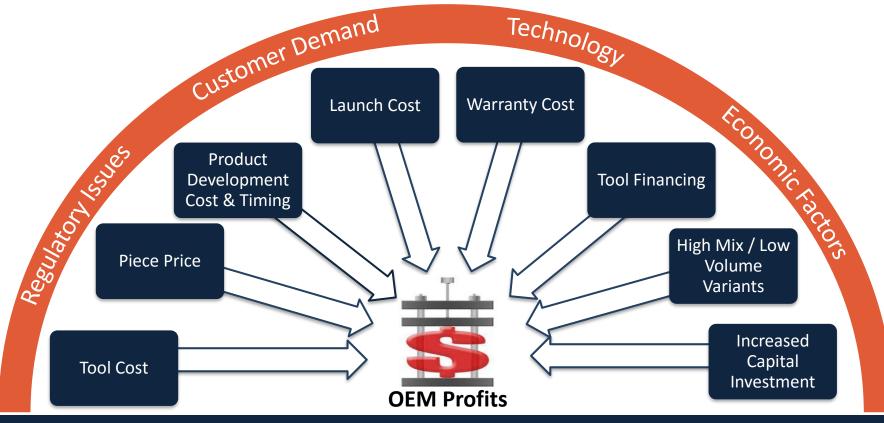
787 total tooling costs **~\$5.5B**

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



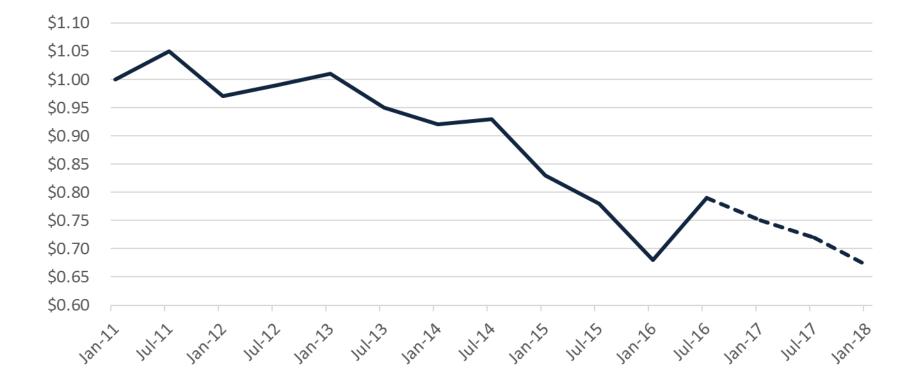


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GEOGRAPHIC TRENDS

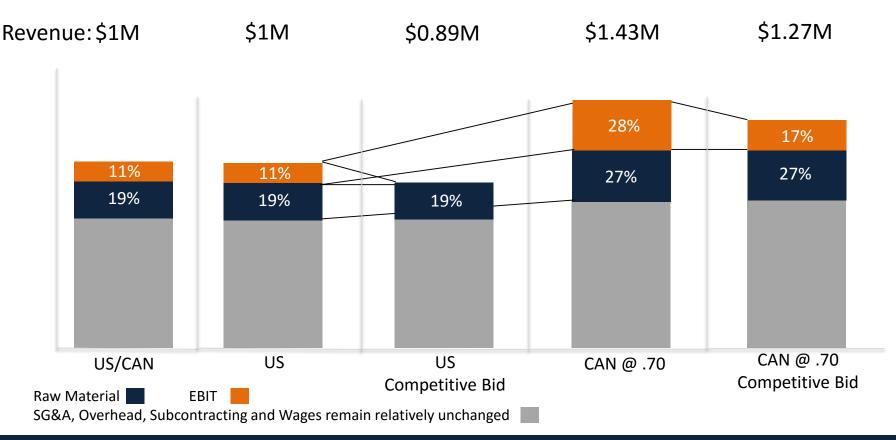


CAD/USD Exchange Rate Challenges Industry





Exchange Rate Drives Canadian Advantage



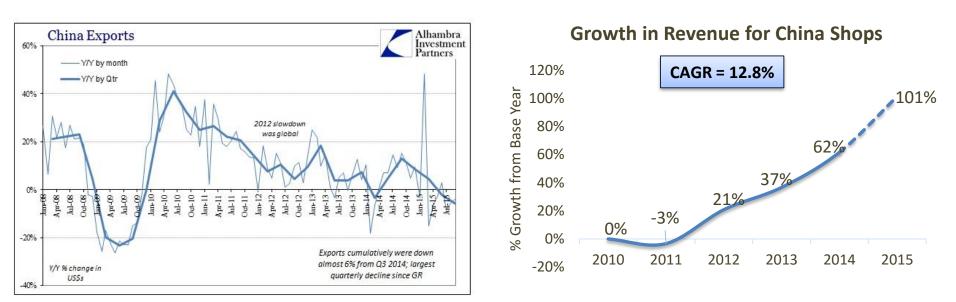


China Exports are Slumping, but for Tooling?



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



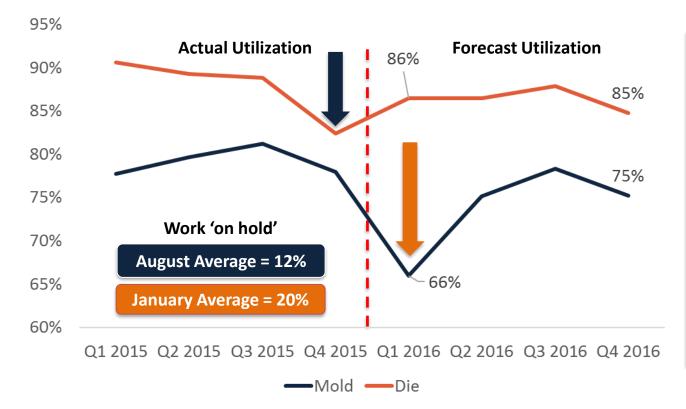


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MANUFACTURING PERFORMANCE



Capacity Utilization Expected to be Low in 2016

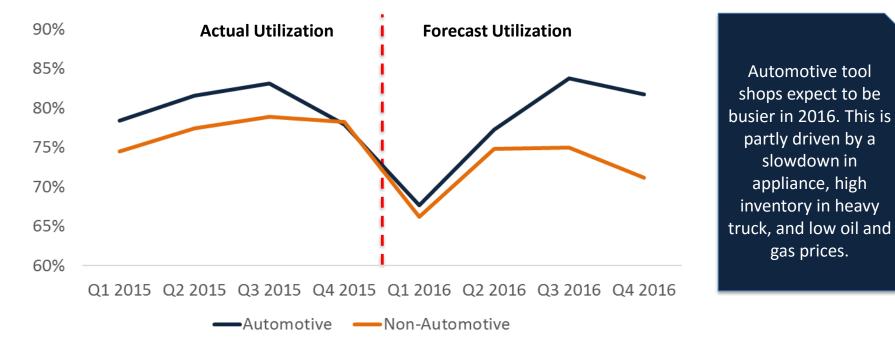


To better understand the wide discrepancy we see between mold and die in Q1 2016, we looked at utilization rates by company. In short, a majority of mold and die shops had slowed down, however, there were several die shops that were very busy and drove the overall die utilization rate up

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

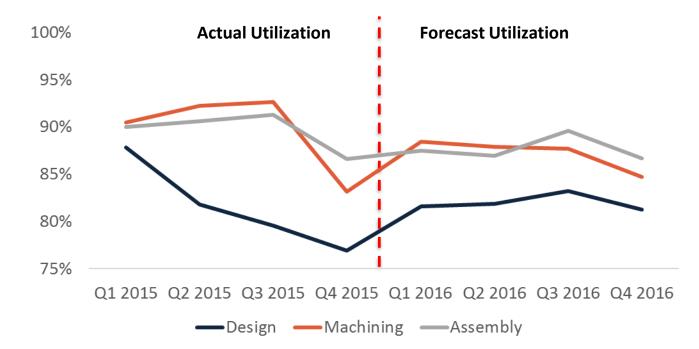


Non-Auto Tool Shops Appear Less Utilized





Capacity Utilization – Die Job Function

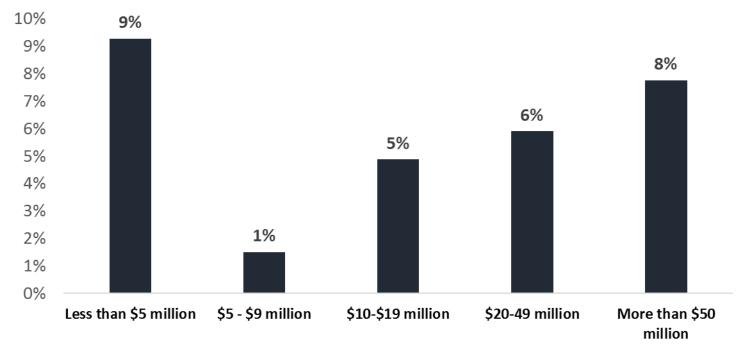


Die shops also have some available capacity in 2016, and are unsure about sales later in the year



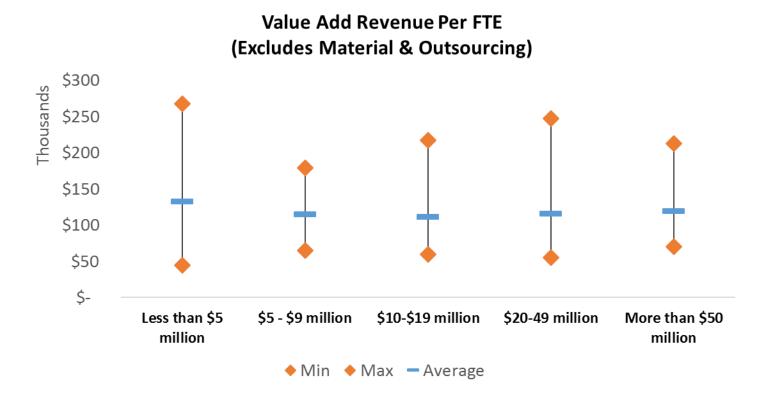
PMA Stamping Benchmarking

EBIT % of Revenue



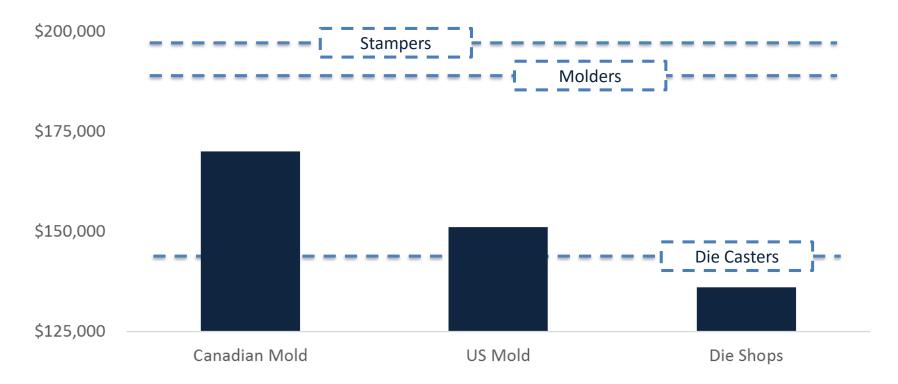


PMA Stamping Benchmarking



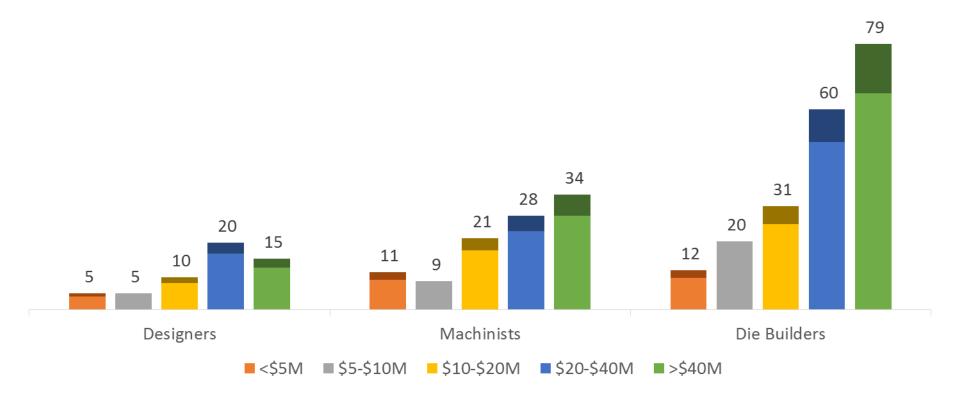


Manufacturing Competitiveness (Rev/FTE)



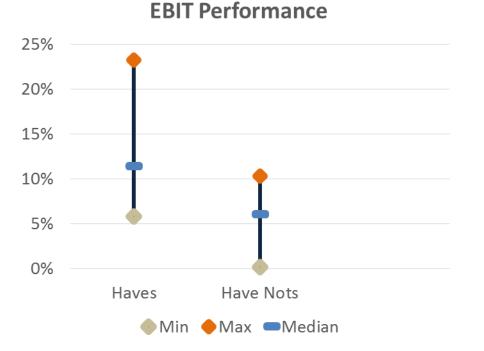


Die Shops Rely Heavily on Die Builders

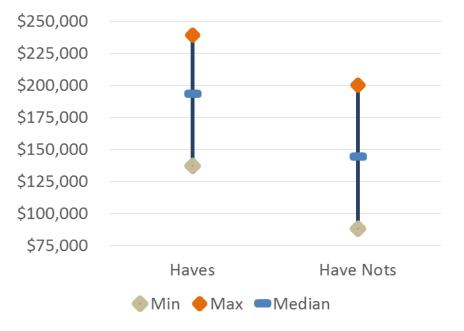




Emergence of the Have's and Have Not's



Revenue Per Full Time Equivalent





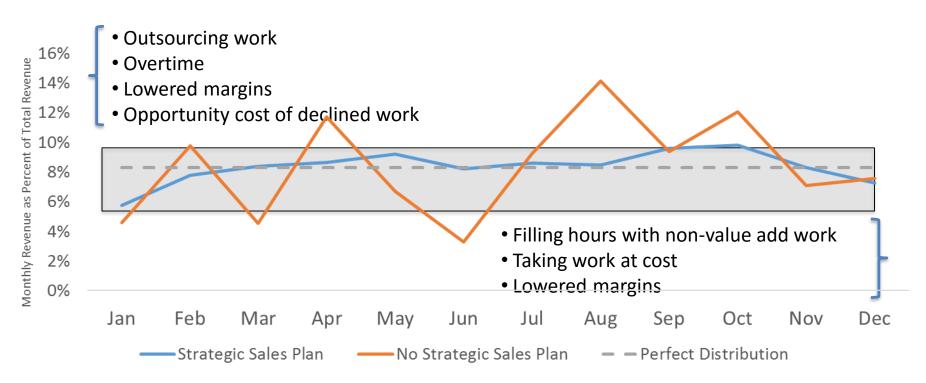
Source: Harbour IQ – U.S. and Canadian Die Shops

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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:

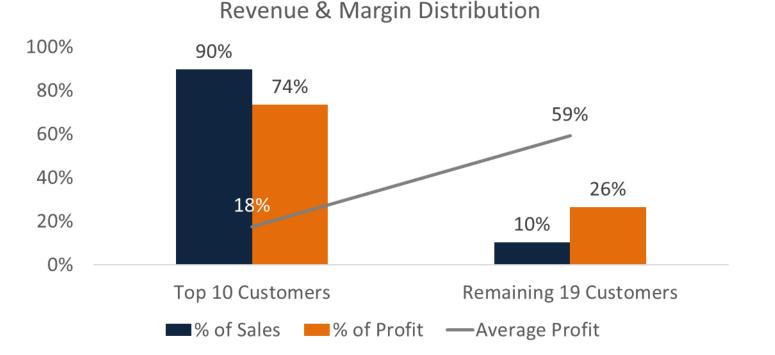
- > \$2B total quotes
- > 4,500 quotes
- 0.91% overall hit rate
- 64% of quoted customers never purchased
- Top 10 customers >75% of total business

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 B	193K	894K	22%		
Customer C	176K	2,264K	8%		
Customer D	74K	407K	18%		
Customer E	60K	485K	12%		
Customer F	\$56K	308K	18%		
Customer G	\$33K	405K	8%		
 2015 quote analysis: Total hit rate 12% and very high on key customers Fow sustamors actually average 12% 					

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

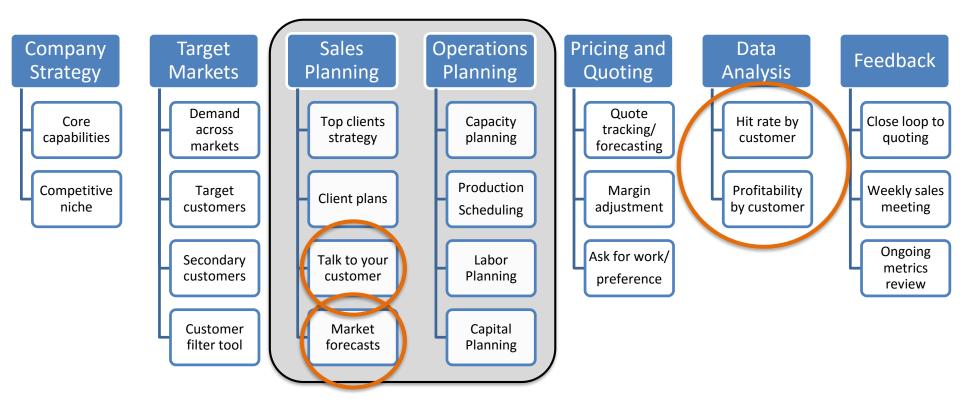


Profit by Customer Can Identify Hidden Gems





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

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