

Linamar in North Carolina



October 18, 2017



- Corporate Overview
- Decision Process – Why North Carolina
- Current Footprint
- Growth Plans

Global Overview



Ownership:	Public (Listed on the TSX: LNR)
Founded:	August 17, 1966
Headquarters:	Guelph, Ontario, Canada
Manufacturing:	59 Facilities Worldwide
Key people:	<ul style="list-style-type: none">▪ Frank Hasenfratz, Chairman of the Board▪ Linda Hasenfratz, CEO▪ Jim Jarrell, President and COO▪ Dale Schneider, CFO
Employees:	24,500+
2016 Sales:	\$6.0 Billion (CAD)
Profile:	Linamar Corporation is a world-class designer and diversified manufacturer of precision metallic powertrain components and systems for the automotive, industrial, off-highway and energy markets. Linamar's Skyjack division is a leading global producer of mobile products to the aerial work platform industry.
Website:	www.Linamar.com



Linda Hasenfratz, CEO

"We've just completed our 50th year in business! Our team is now over 24,500 strong. We continually search for the best, most lean and innovative ways to serve customers in diverse markets around the world."



MACHINING & ASSEMBLY



- CNC Expertise
- Complex Assemblies
- Advanced Automation & Robotics
- Hydroforming
- Heat Treatment

FORGING



- Hot High Speed Horizontal Forging
- Conventional Vertical Forging
- Cold Forming
- Ring Rolling

LIGHT METAL CASTING

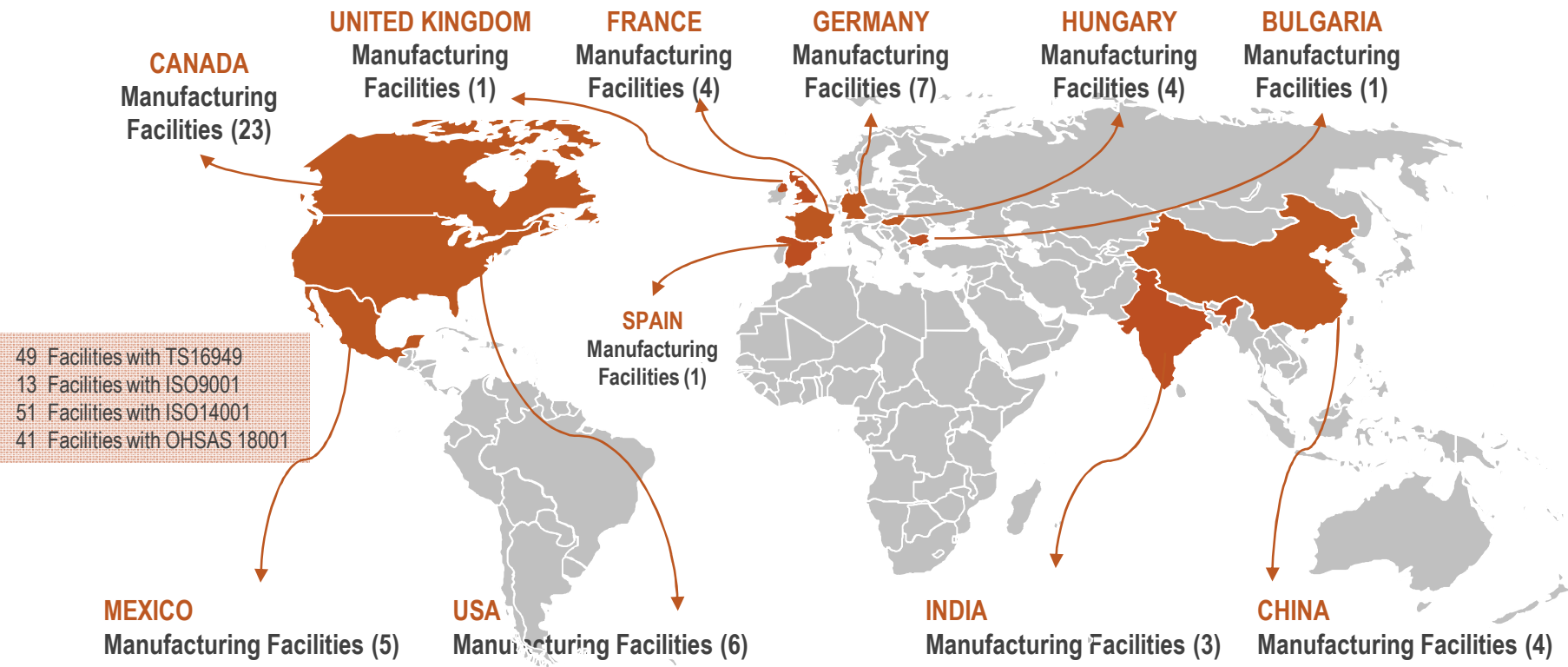


- Gravity & Low Pressure Aluminum Die Casting
- High Pressure Aluminum & Magnesium Die Casting

METAL FORMING



- Metal Forming
- Stamping
- Painting
- Robotic Welding



49 Facilities with TS16949
13 Facilities with ISO9001
51 Facilities with ISO14001
41 Facilities with OHSAS 18001

Manufacturing (59) Sales Representation (15) Development Centres (6) Support Facilities (4)

DC Electric Scissor Lifts



Mast Lifts



RT Scissor Lifts



Telescopic Booms



Articulating Booms



Telehandlers



Global Customer Base

Light Vehicle



Commercial Vehicle



Off-Highway, Industrial & Energy



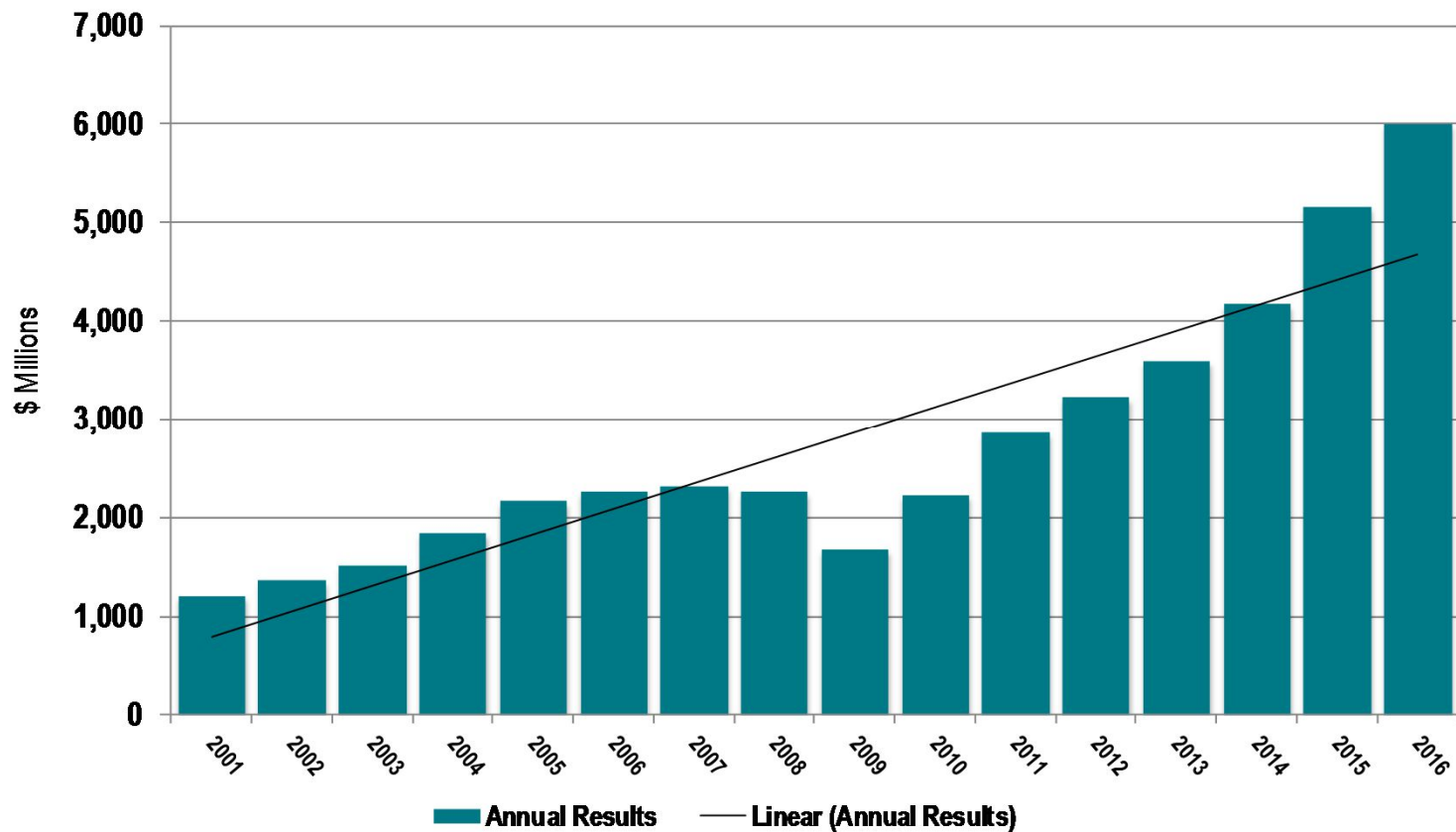
Aerial Work Platform



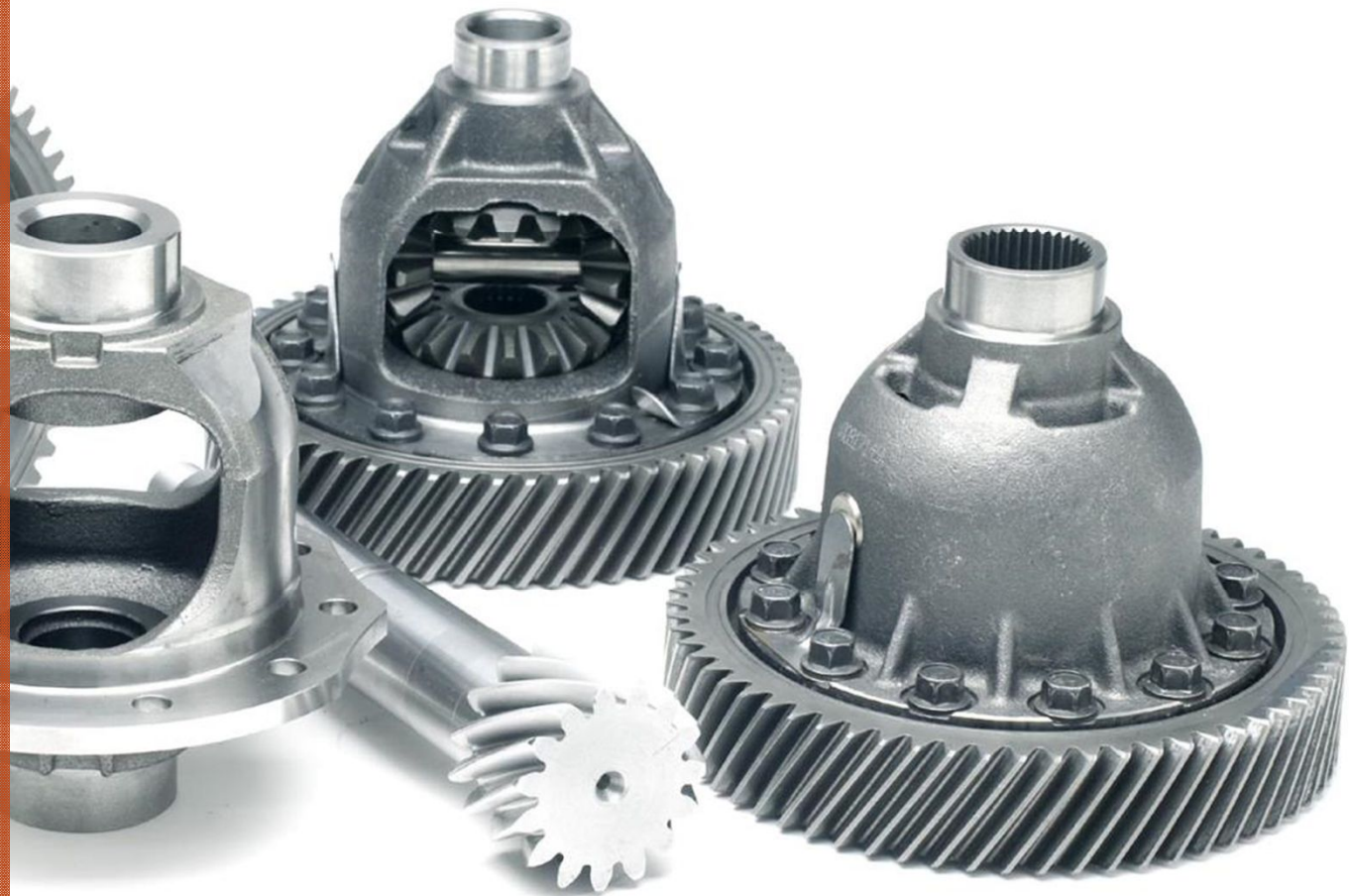
Agricultural & Recreational



Historical Sales Growth



Decision
Process –
Why North
Carolina?



3 key attributes for success:

- Skilled manufacturing workforce
 - ✓ Excellent university and community college system
 - ✓ Access to skilled, competitive cost, non-union workforce

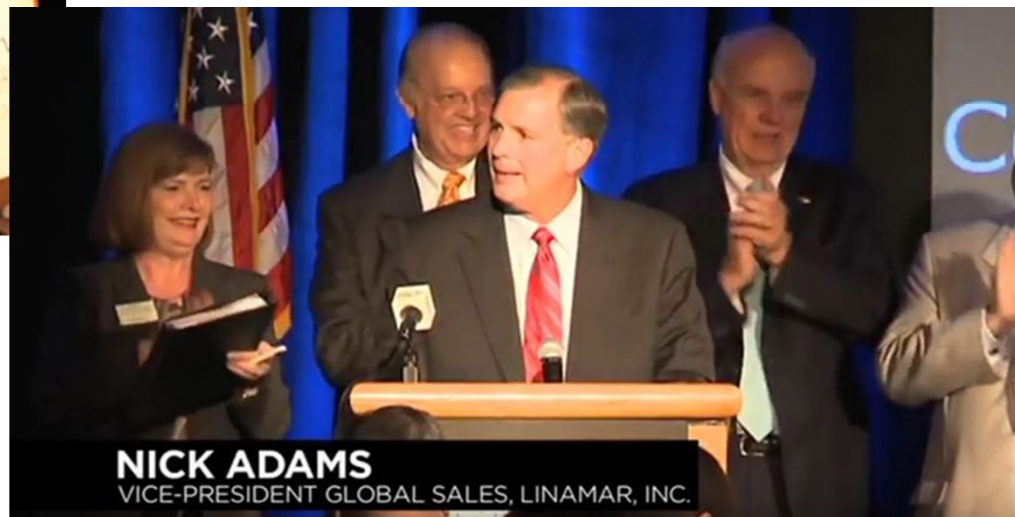
- Favorable business climate
 - ✓ Competitive tax structure and business growth incentives
 - ✓ Excellent coordination of all entities led by economic development professionals

- Central location
 - ✓ Efficient interface highway system and airport access
 - ✓ Interstate highway system provides access to to customers in Southeast and across country
 - ✓ Desirable place to live – attract and retain talent

Asheville

2011





Linamar North Carolina

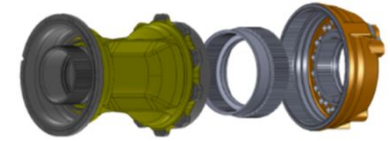


Linamar North Carolina, February 13, 2013



Key Facts

- Asheville, North Carolina, USA
- Founded: 2011
- Building Size: 172,000 sq. ft.
- Certifications:
 - OHSAS 18001 | ISO 14001 | ISO/TS 16949
- **Products: Cylinder Blocks, Off Highway brake components**



Key Customers



Process Expertise

- CNC Machining
 - Milling Large Castings



Key Facts

- Asheville, North Carolina, USA
- Founded: 2015
- Building Size: 163,000 sq. ft.
- Certifications:
 - OHSAS 18001 | ISO 14001 | ISO/TS 16949
- **Products: Transmission Gears**

Process Expertise

- CNC Machining
 - Turning
 - Gear Hobbing
 - Spline Rolling
 - Gear Grinding
- Bore Honing
- Rotational Turning
- Vacuum Carborizing



Key Customers



Linamar
Forgings
Carolina

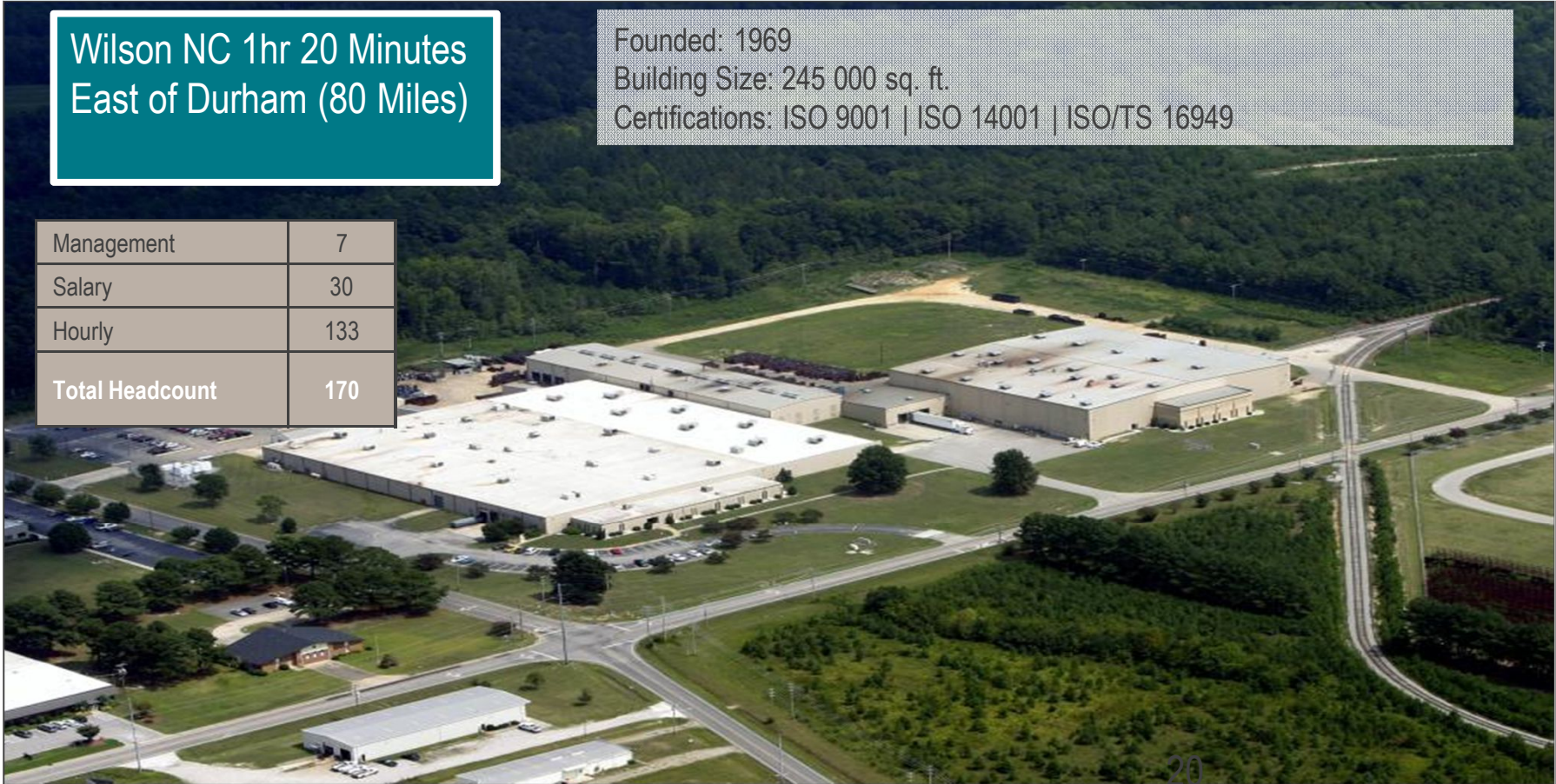
Wilson
2014



Wilson NC 1hr 20 Minutes
East of Durham (80 Miles)

Founded: 1969
Building Size: 245 000 sq. ft.
Certifications: ISO 9001 | ISO 14001 | ISO/TS 16949

Management	7
Salary	30
Hourly	133
Total Headcount	170



Key Facts

- Location: Wilson, North Carolina, USA
- Founded: 1969
- Building Size: 245,000 sq. ft.
- Certifications:
 - QS 9000/ISO 9002 | ISO 14001 | ISO/TS 16949
- **Products: Wheel Spindles, Inner Rings, Transmission Gears**



Key Customers



Process Expertise

- | | |
|---------------------------------|-----------------|
| ■ Hot Forging – Hatebur Presses | ■ CNC Machining |
| ■ 1 HM 35 | ■ Turning |
| ■ 1 AMP 50 XL | ■ Milling |
| ■ 1 AMP 70XL | ■ Drilling |
| ■ Rotary Forging (Nov 2017) | ■ Broaching |
| ■ Ring Rolling | |



GF Linamar

Mills River

2017



GF Linamar – Mills River, Henderson County



Ribbon Cutting Ceremony
October 5, 2017



GF Linamar – Mills River, Henderson County



GF Linamar Foundry
Arden, NC



Linamar's
Future in
North Carolina



	Jobs to Date	Planned through 2022	Investment to date (\$M)	Planned through 2022 (\$M)
Asheville	250	470	\$123	\$305
Wilson	79	160	\$26	\$45
Mills River	<u>34</u>	<u>275</u>	<u>\$47</u>	<u>\$220</u>
TOTAL	363	905	\$387	\$572

[Video:](#)

