Safe Harbor Statement
Under the Private Securities Litigation Reform Act of 1995

Information in this presentation may contain “forward-looking statements” within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as “may,” “will,” “should,” “expects,” “intends,” “plans,” “anticipates,” “believes,” “estimates,” “predicts,” “projects,” or “potential” or the negative of these words and phrases or similar words or phrases which are predictions of or indicate future events or trends and which do not relate solely to historical matters.

All statements regarding our future performance, earnings projections, events or developments are forward-looking statements. These forward-looking statements are made based on known events and circumstances at the time of release, and as such, are subject in the future to unforeseen uncertainties and risks that could cause actual results to differ materially from those contained in any forward-looking statement. Such risks and uncertainties are described under “Risk Factors” in Item 1A of our annual report on Form 10-K and any updates to those factors set forth in our subsequent quarterly reports on Form 10-Q or current reports on Form 8-K. We make these statements as of the date of this disclosure, and undertake no obligation to update them unless otherwise required by law.
A premier industrial technology company focused on precision dispensing, fluid control and related processes and proprietary technology.

1954
Company Founded

$2.3B
*Sales

$605M
*EBITDA

7,500+
Employees

35+
Countries with Direct Presence

*Sales and EBITDA for the full fiscal year ended 10/31/18.
# Investment Highlights

<table>
<thead>
<tr>
<th>Strong Average Annual Sales Growth</th>
<th>Outstanding Gross Margins</th>
<th>Excellent EBITDA Margins</th>
<th>High Level of Free Cash Flow Before Dividends</th>
<th>Strong Cash Returns to Shareholders</th>
<th>Reliable and Consistent Dividend</th>
<th>Outstanding Long Term Total Shareholder Returns</th>
</tr>
</thead>
<tbody>
<tr>
<td>8% Average</td>
<td>55% Gross Margins</td>
<td>25% EBITDA Margin</td>
<td>$1.4B 101% of Net Income</td>
<td>$907M Share Repurchases &amp; Dividends</td>
<td>55 yrs of Annual Increases</td>
<td>22% TSR CAGR</td>
</tr>
</tbody>
</table>
Diversified Sources of Sales

FY2018 Profile - $2.3 Billion

**Product Type**
- 47% Engineered Systems
- 31% Standard Product
- 22% Parts and Consumables

High percentage of recurring sales from parts and consumables.

**Geographies**
- United States: 32%
- Europe: 26%
- Asia Pacific: 28%
- Japan: 7%
- Americas: 7%

Nearly 70% of sales outside USA. Direct presence in over 35 countries.
Diversified End Markets

FY Fiscal 2018 Profile - $2.3 Billion

End markets include:

- **Electronic Components**: computing, communications/mobile, consumer electronics (i.e., gaming, wearables, automotive electronics)
- **Semiconductors**
- **Printed Circuit Boards**
- **Consumer Non-Durable**: beverage, disposable hygiene, food, paper, textiles, packaging
- **Medical**: minimally invasive interventional delivery devices, catheters, medical balloons, fluid connection components, specialty tubing
- **Original Equipment Manufacturer (OEM)/Distributors**: Nordson products used to build manufacturing line, not end market specific
- **Industrial**: aerospace, chemical, construction, energy, farm and construction machinery, industrial machinery, rigid container, metal, transportation
- **Consumer Durable**: appliance, furniture, lighting
- **Automotive**: applications for new vehicle platforms

*Percentages are for directional use only; may not add to 100% due to rounding.*
Nordson Business Segments

**ADVANCED TECHNOLOGY SYSTEMS*** 46%

Precision dispense, fluid management, surface treatment, test & inspection and proprietary solutions for electronics, medical and general industrial end markets.

**Targeted organic growth rate:**

2-3x Global GDP

**ADHESIVE DISPENSING SYSTEMS*** 42%

Hot melt dispense solutions for recession-resistant, consumer non-durable end markets. Additional components for use in the thermoplastic melt stream.

**Targeted organic growth rate:**

1.5-2x Global GDP

**INDUSTRIAL COATINGS SYSTEMS*** 12%

Standard and highly-engineered systems used primarily for applying coatings, paint, finishes, sealants, and more, for the consumer durable goods and industrial end markets.

**Targeted organic growth rate:**

Global GDP+

*Segment mix for the full fiscal year ended 10/31/18.*
Advanced Technology Systems

What We Do
Precision dispense, fluid management, test, inspection, surface treatment and proprietary solutions for medical, electronics and general industrial markets.

2-3X Global GDP Growth Driven by:

- Medical – Aging population, trends toward non-invasive surgical techniques and medical OEM outsourcing
- Broad product use across the electronics supply chain from integrated circuit to printed circuit board to end product assembly
- Circuit shrinkage / new architectures / flip chips
- New applications including automotive electronics, electric batteries, and flexible circuits
- Emerging markets
- Product tiering

15.4%
2014-18 Average Annual Sales Growth

23.4%
2018 Annual Operating Margin
Advanced Technology Systems

FY Fiscal 2018 Profile – Diverse End Markets

End markets include:

- **Electronics**: electronic components (i.e., computing; communications/mobile; consumer electronics – gaming, wearables; automotive electronics), semiconductors, printed circuit boards
- **Medical**: minimally invasive interventional delivery devices, catheters, medical balloons, fluid connection components, specialty tubing
- **OEM/Distributor**: Nordson products used to build manufacturing line, not end market specific
- **Industrial**: aerospace, construction, defense, energy, industrial machinery
- **Consumer Durable**: general applications (i.e., furniture, lighting)
- **Consumer Non-Durable**: disposable hygiene, food, textiles

*Percentages are for directional use only*
Advanced Technology Systems

Strong topline growth

Creating our own demand through innovation, new applications, emerging markets and product tiering, as well as an active acquisition diversification strategy drive strong sales growth.
What We Do

Products to melt, filter, pump, transport, dispense and deposit adhesives, polymers and other materials in the manufacturing of a wide range of goods.

1.5-2X Global GDP Growth Driven By:

- Increased use of disposable hygiene products (diapers, feminine care, etc.) and packaged convenience foods and plastics; demand increase driven by growing middle class
- Recapitalization of large installed base
- Productivity and efficiency investments
- New applications, including electric battery and fabric bonding
- Material, machinery and process innovations
- Emerging markets
- Product tiering

4.0%

2014-18 Average Annual Sales Growth

27.2%

2018 Annual Operating Margin
Adhesive Dispensing Systems

FY Fiscal 2018 Profile – Diverse end markets

End markets include:

- **Consumer Non-Durable**: beverage, disposable hygiene, food, paper, textiles, non-wovens, packaging
- **OEM/Distributor**: Nordson products used to build manufacturing line, not end market specific
- **Industrial**: chemical, construction, industrial machinery, transportation
- **Consumer Durable**: appliance, furniture, lighting
- **Automotive**: applications for new vehicle platforms
- **Electronics**: electronic products (i.e., wearables), printed circuit boards

*Percentages are for directional use only; may not add to 100% due to rounding.*
Adhesive Dispensing Systems

Stable Organic Growth

Strong track record of organic growth driven by large percentage of consumer non-durable end markets and growth initiatives, including recapitalization, emerging markets and product tiering.
Industrial Coatings Systems

What We Do
Precision equipment and systems to apply and cure paints, sealants, coatings, ambient temperature adhesives, and other materials to a wide range of products.

GDP+ Growth Driven By:
- Environmental advantages of powder coatings
- Adhesives replacing mechanical fasteners
- Light-weighting of vehicles
- Productivity investments
- Quick color change
- Product tiering
- Diverse end markets, including appliance, lawn and garden, food and beverage, aerospace, automotive assembly, and more

2.3%
2014-18 Average Annual Sales Growth

19.5%
2018 Annual Operating Margin
Industrial Coatings Systems

FY Fiscal 2018 Profile – Diverse end markets

End markets include:

- **Industrial**: aerospace, farm and construction machinery, industrial machinery, rigid container, metal
- **Automotive**: applications for new vehicle platforms; upgrades of current vehicle lines
- **Consumer Non-Durable**: beverage, food, general applications
- **Consumer Durable**: appliance, furniture
- **Semiconductors**: UV curing of semi-conductor wafers
- **OEM/Distributor**: Nordson products used to build manufacturing line, not end market specific

*Percentages are for directional use only*
Industrial Coatings Systems

Consistent Top Line Growth

Sales growth opportunities in mature and emerging markets, as well as new applications.
Why Invest in Nordson?
Our Priorities

Our plan is to deliver top shareholder returns by growing and extending our high value business model in precision dispensing and adjacent technologies.

1. Accelerate organic growth
2. Diversify through acquisitions
3. Further optimize the business
4. Cultures and Values
1 Organic Growth

We expect to accelerate organic growth by creating our own demand.

Multiple Paths to Organic Growth:

1. New Products
2. New Applications
3. Recapitalize Installed Base
4. Emerging Markets
5. Product Tiering


5% Average Annual Growth
Key Acquisitions

Additional growth comes through the acquisition of companies that share our business model characteristics and can leverage our global infrastructure.

Key Criteria for Acquisitions:

1. Strategic Fit
2. High Quality Businesses: Strong Performers & Proprietary Technology
3. Growth Rate at or Above Nordson
4. High % of Recurring Sales
5. Sales and Cost Synergies

Sales Growth from Acquisitions (2014-2018):

4% Average Annual Growth
Strong Growth: Organic and Acquisitive

On average across the past five years, Nordson has delivered annual sales growth of 8 percent, inclusive of 5 percent organic growth, 4 percent growth related to the first year effects of acquisitions and a decrease of 1 percent related to the unfavorable effects of foreign currency.
Optimize Business

Driving continuous improvements across the organization.

Key Performance Indicators:

1. Growth Initiatives
2. Price Effectiveness
3. Cost Reduction Initiatives
4. Cost of Poor Quality
5. Customer Delivery Performance
6. Days of Sales in Inventory
7. Productivity
8. Sales from New Products
We have a long and proud history of investing in the communities where we live and work. We invest approximately five percent of domestic pretax earnings to human welfare services, education and other charitable activities.

**Our Commitment to Giving Back:**

1. Over $100M in overall giving to date
2. Nearly 100K total hours volunteered
3. $2.4M towards BUILDS scholarships
4. Investing in locations where we have significant operations (over 20 communities in the United States and 11 countries)
Financial Results
Fiscal 2Q2019 Results & FY2019 Guidance

2QF19 Results

- **Sales**: $551M
- **Operating Profit (23% of Sales)**: $129M
- **EBITDA (28% of Sales)**: $156M
- **GAAP Diluted EPS ($1.54 Adj. Diluted EPS)**: $1.58
- **Free Cash Flow Before Dividends (102% of Net Income)**: $93M

2019 Guidance

- Organic sales volume growth expected to be in the low single digits compared to Fiscal 2018
- Operating margin and EBITDA margin forecasted to improve 100 basis points
- Interest expense expected to be appx. $45 million
- Maintenance capital expenditures expected to be appx. $50 million
- Estimated effective tax rate 23 percent
Comparison of 10 Year Cumulative Total Return

Assumes Initial Investment of $100 on November 1, 2008
Fiscal Year Ending October 31, 2018
Source: Zack’s Investment Research
Industry Leading Gross Margins

Consistently Mid 50s

<table>
<thead>
<tr>
<th>Year</th>
<th>Margin</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>55.5%</td>
</tr>
<tr>
<td>2015</td>
<td>54.1%</td>
</tr>
<tr>
<td>2016</td>
<td>54.9%</td>
</tr>
<tr>
<td>2017</td>
<td>55.1%</td>
</tr>
<tr>
<td>2018</td>
<td>54.8%</td>
</tr>
</tbody>
</table>
Strong EBITDA Margins

Continuous Improvement Initiatives

5 Year CAGR = 9.8%

*FY15 results impacted by significant negative currency translation effects compared to the prior year.
High gross margins lead to significant volume leverage

5 Year CAGR = 13.4%

*FY15 results impacted by significant negative currency translation effects compared to the prior year.
Strong Cash Generation

Funds Growth and Returns to Shareholders

Strong Cash Conversion: 2014 – 2018
2018 Free Cash Flow Before Dividends
= 110% of Net Income

*FY15 results impacted by significant negative currency translation effects compared to the prior year.
Disciplined Capital Deployment

36% or $906.7 Million to Shareholders via Share Repurchases and Dividends

- Self funding business model generates excess cash
- Low working capital requirements
- Low capital expenditures (approx. 3% of sales)
- Strong free cash
- 55 consecutive years of dividend increases - 14th among publicly traded companies
1. Clear Strategy and Goals
2. Strong Execution and Performance
3. Leading Global Businesses
4. Numerous Growth Opportunities
5. Outstanding Culture and Values
6. Committed to Community
Appendix

- Product Innovation
- Historic Financials
- 2QF19 Financial Exhibits
Appendix:
Product Innovation
Our Electronics Industry Position

Surface Mount Manufacturing

Solder paste inspection
Flux spray coating
Component placement
Optical inspection
Reflow oven
Plasma surface treatment
Underfill, encapsulation or precise coating
Optical inspection
X-ray inspection
Conformal coating

QA Lab / Island of Automation

X-ray inspection
Acoustic inspection
Bond testing
Our Role in the Semiconductor Process

Front end process
Wafer fabrication
- Wafer clean
- Probe, test
- Lithography, etch, implant

Middle end process
Wafer level packaging
- Singulation
- Die stacking
- Bumping
  - Reconstitution
  - Redistribution

Back end process
Assembly and packaging
- Wire bond
- Die attach
- Overmold, test

Nordson
DAGE
X-ray inspection of voids, cracks, missing, shorts and wire bonds

Nordson
SONOSCAN
Demulation and void detection by acoustic imaging

Nordson
MATRIX
AXI for post mold wire bond inspection

Nordson
ASYMETEX
Wafer level underfill

Nordson
MARCH
Wafer cleaning
Decoum for WLP
Striping & etch for WLP

Nordson
SONOSCAN
Wafer pre-treatment
BGA & UBM adhesion

Nordson
MARCH
Detector patterning via cleaning for WLP
Bump adhesion

Nordson
DAGE
Bump and TSV metrology
Bump shear and pull testing

Nordson
ASYMETEX
Underfill
EM coating
Bump bonding
MEMS solder paste
MEMS silicon jetting

Nordson
MARCH
Activation Surface roughening
Pre-bond cleaning
Die shear
Prep for FC underfill
Prep for re-work
From benchtop dispensers to industry-best jetting valves and automated dispensing robots, Nordson EFD systems deliver accurate, repeatable deposits of glues, greases, and other industrial fluids in precise, low-volume applications.

Optimum® components are designed as a complete system to help companies improve yields and reduce costs.

Dispense tips deliver a clean, smooth flow path, free of flash and burrs. In 200+ sizes and styles, tips are lot-tracked for process control and traceability.

From specialty tubing, catheters, medical balloons, quick-connect couplings and couplers, Nordson is an expert in the design, development and manufacture of complex medical devices and component technologies.
Jetting Technology dispenses adhesive using non-contact jetting into channels as small as 0.3mm or 300 micron per second.

Auto-fill Tankless Technology: Adhesive fill systems monitor and maintain optimum adhesive levels.

Variable Dispense Technology: Delivering different add-on rates with one applicator.

Foaming Technology: Maintains bond strength while reducing volume of adhesive required.

Jetting Technology: Dispenses adhesive using non-contact jetting into channels as small as 0.3mm or 300 micron per second.

Precision dispense technology: Increases production efficiency for nonwovens manufacturing process.
Industrial Coating Systems
Appendix:
Historic Financials
Strong Capital Management

Net Debt to EBITDA*

Strong cash generation lets Nordson de-lever quickly.

At 10/31/2018 Net Debt to TTM EBITDA = 2.0 times

At fiscal years ending 10/31

* Net Debt to EBITDA calculated net of cash
Debt Position (as of 4/30/19)

- **Term Loan A (US) & PNC Loan**
  - $100M – at 65.0 bps, maturity 3/31/20
  - Maturity 10/15/21
- **Term Loan A (EUR)**
  - $200M – at 85.0 bps, maturity 9/30/22
  - Maturity 10/15/21
- **2012 Private Placement**
  - $305M – at 90.0 bps, maturity 3/31/24
  - Maturity 10/15/21
- **2015 Private Placement**
  - Amortizing avg. rate: 3.03%
  - Remaining avg. life: 4.75 yrs
  - Amortizing avg. rate: 3.04%
  - Remaining avg. life: 4.75 yrs
- **2018 Private Placement**
  - Amortizing avg. rate: 3.90%
  - Remaining avg. life: 6.55 yrs
  - Amortizing avg. rate: 2.45%
  - Remaining avg. life: 0.77 yrs
- **Revolver**
  - Ends April 2024
  - 78.5 bps over USD Libor at 1/31/19

---

### Drawn vs Available

- **Drawn**:
  - $605
  - $36
  - $128
  - $157
  - $350
  - $850

- **Available**:
  - $100
  - $100
  - $200
  - $300
  - $400
  - $500
  - $600
  - $700
  - $800
  - $900

---

- **NYL**
  - $100

---

- **$36**
  - $128
  - $157
  - $350
  - $850
  - $0

---

- **Term Loan A (US) & PNC Loan**
  - $100
  - $200
  - $305

---

- **2012 Private Placement**
  - $100
  - $200
  - $305

---

- **2015 Private Placement**
  - $100
  - $200
  - $305

---

- **2018 Private Placement**
  - $100
  - $200
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- **Revolver**
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  - $305

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  - $200
  - $305

---

- **2018 Private Placement**
  - $100
  - $200
  - $305

---

- **Revolver**
  - $100
  - $200
  - $305
Innovation Drives Organic Growth

Steady Stream of New Products

R & D Spend

U.S. Patents Granted
Currency Impact

Annual Sales Growth and EPS

Currency Effect
Volume Growth

FX Impact to EPS:

<table>
<thead>
<tr>
<th>Year</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>($0.06)</td>
</tr>
<tr>
<td>2015</td>
<td>($0.54)</td>
</tr>
<tr>
<td>2016</td>
<td>($0.19)</td>
</tr>
<tr>
<td>2017</td>
<td>($0.03)</td>
</tr>
<tr>
<td>2018</td>
<td>$0.24</td>
</tr>
</tbody>
</table>
Appendix:
Financial Exhibits
## SECOND QUARTER PERIOD

Period Ended April 30, 2019
(Unaudited)

### CONSOLIDATED STATEMENT OF INCOME

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>Year-to-Date</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
<td>2018</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sales</strong></td>
<td>$551,119</td>
<td>$553,706</td>
<td>$1,049,039</td>
<td>$1,104,130</td>
<td><strong>Cost and marketable</strong></td>
<td><strong>$149,183</strong></td>
<td><strong>$95,878</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>securities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cost of sales</strong></td>
<td>249,580</td>
<td>246,691</td>
<td>476,524</td>
<td>496,142</td>
<td><strong>Receivables</strong></td>
<td>409,746</td>
<td>491,423</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Inventory</strong></td>
<td>280,733</td>
<td>284,477</td>
</tr>
<tr>
<td><strong>Selling &amp; administrative expenses</strong></td>
<td>172,635</td>
<td>178,123</td>
<td>367,328</td>
<td>380,746</td>
<td><strong>Other current assets</strong></td>
<td>45,276</td>
<td>32,524</td>
</tr>
<tr>
<td><strong>Operating profit</strong></td>
<td>128,864</td>
<td>128,892</td>
<td>213,177</td>
<td>246,242</td>
<td><strong>Total current assets</strong></td>
<td>964,937</td>
<td>881,102</td>
</tr>
<tr>
<td><strong>Interest expense - net</strong></td>
<td>(12,047)</td>
<td>(11,908)</td>
<td>(24,096)</td>
<td>(22,936)</td>
<td><strong>Property, plant &amp; equipment - net</strong></td>
<td>306,349</td>
<td>308,066</td>
</tr>
<tr>
<td><strong>Other income (expenses) - net</strong></td>
<td>(560)</td>
<td>1,135</td>
<td>(4,737)</td>
<td>(3,099)</td>
<td><strong>Other assets</strong></td>
<td>2,123,022</td>
<td>2,130,244</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Notes payable and current liabilities</strong></td>
<td>$3,475,038</td>
<td>$3,421,012</td>
</tr>
<tr>
<td><strong>Income before income taxes</strong></td>
<td>116,211</td>
<td>118,117</td>
<td>184,324</td>
<td>221,837</td>
<td><strong>Accounts payable and accrued liabilities</strong></td>
<td>153,734</td>
<td>25,734</td>
</tr>
<tr>
<td><strong>Income taxes</strong></td>
<td>24,355</td>
<td>20,084</td>
<td>43,835</td>
<td>54,847</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Net Income</strong></td>
<td>$91,856</td>
<td>$91,233</td>
<td>$140,489</td>
<td>$165,990</td>
<td><strong>Total liabilities</strong></td>
<td>446,491</td>
<td>350,280</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Long-term debt</strong></td>
<td>1,220,391</td>
<td>1,285,357</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Other liabilities</strong></td>
<td>336,943</td>
<td>334,534</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Total shareholders' equity</strong></td>
<td>1,471,283</td>
<td>1,450,741</td>
</tr>
<tr>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

### Return on equity

- Return on sales: 17% 16% 13% 18%
- Return on average shareholders' equity: 26% 27% 20% 31%

### Average common shares outstanding (000's)

- 2019: 57,268
- 2018: 57,068

### Average common shares and common share equivalents (000's)

- 2019: 58,056
- 2018: 58,045

### PER SHARE:

- Basic earnings: $1.60 $1.57 $2.44 $3.39
- Diluted earnings: $1.56 $1.56 $2.41 $3.32
- Dividends paid: $0.35 $0.30 $0.70 $0.60

### Other information:

- Employees: 7,567
- Common shares outstanding (000's): 57,446
- 50,027

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(1) Results for the three and six months ended April 30, 2018 have been revised to reflect the retrospective adoption of Accounting Standards Update No. 2017-07, Compensation — Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Cost (ASU 2017-07). The adoption of ASU 2017-07 resulted in a net increase to previously reported operating income of $2.2 million & $3.8 million for the three and six months ended April 30, 2018, respectively, and a corresponding increase of $2.2 million & $3.8 million to other expense for the three and six months ended April 30, 2018, respectively, with no net impact to net income or earnings per share.
### Sales by Business Segment

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>% Growth over 2018</th>
<th>Year-to-Date</th>
<th>% Growth over 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive dispensing systems</td>
<td>$230,722</td>
<td>$230,775</td>
<td>4.1%</td>
<td>-5.0%</td>
</tr>
<tr>
<td>Advanced technology systems</td>
<td>249,296</td>
<td>260,839</td>
<td>1.6%</td>
<td>-2.4%</td>
</tr>
<tr>
<td>Industrial coating systems</td>
<td>65,192</td>
<td>84,092</td>
<td>4.3%</td>
<td>-2.7%</td>
</tr>
<tr>
<td>Total sales by business segment</td>
<td>$551,110</td>
<td>$555,708</td>
<td>3.1%</td>
<td>-3.6%</td>
</tr>
</tbody>
</table>

### Operating Profit by Business Segment

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>Year-to-Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Adhesive dispensing systems</td>
<td>$71,012</td>
<td>$70,337</td>
</tr>
<tr>
<td>Advanced technology systems</td>
<td>56,535</td>
<td>58,650</td>
</tr>
<tr>
<td>Industrial coating systems</td>
<td>14,469</td>
<td>13,650</td>
</tr>
<tr>
<td>Corporate</td>
<td>(13,120)</td>
<td>(12,165)</td>
</tr>
<tr>
<td>Total operating profit by business segment</td>
<td>$128,992</td>
<td>$129,942</td>
</tr>
</tbody>
</table>

### Sales by Geographic Region

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>% Growth over 2018</th>
<th>Year-to-Date</th>
<th>% Growth over 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>$190,099</td>
<td>$179,821</td>
<td>6.6%</td>
<td>-</td>
</tr>
<tr>
<td>Americas</td>
<td>43,082</td>
<td>38,959</td>
<td>14.9%</td>
<td>-2.8%</td>
</tr>
<tr>
<td>Europe</td>
<td>146,826</td>
<td>141,736</td>
<td>4.1%</td>
<td>-2.0%</td>
</tr>
<tr>
<td>Japan</td>
<td>30,031</td>
<td>33,030</td>
<td>-5.6%</td>
<td>-3.5%</td>
</tr>
<tr>
<td>Asia Pacific</td>
<td>137,161</td>
<td>149,163</td>
<td>-4.1%</td>
<td>-3.3%</td>
</tr>
<tr>
<td>Total Sales by Geographic Region</td>
<td>$551,119</td>
<td>$553,708</td>
<td>3.1%</td>
<td>-3.6%</td>
</tr>
</tbody>
</table>

(1) Results for the three and six months ended April 30, 2018 have been revised to reflect the retrospective adoption of ASU 2017-07.
## EBITDA

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>Year-to-Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Net income</td>
<td>$91,923</td>
<td>$91,235</td>
</tr>
<tr>
<td>Adjustments:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization expense</td>
<td>27,740</td>
<td>27,431</td>
</tr>
<tr>
<td>Interest expense, net</td>
<td>12,647</td>
<td>11,908</td>
</tr>
<tr>
<td>Income taxes</td>
<td>24,950</td>
<td>26,684</td>
</tr>
<tr>
<td><strong>EBITDA</strong></td>
<td><strong>$156,665</strong></td>
<td><strong>$157,459</strong></td>
</tr>
<tr>
<td>Adjustments:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acquisition costs and adjustments (1)</td>
<td></td>
<td>- 2,431</td>
</tr>
<tr>
<td><strong>EBITDA As Adjusted</strong></td>
<td><strong>$156,665</strong></td>
<td><strong>$159,890</strong></td>
</tr>
<tr>
<td><strong>EBITDA per diluted share</strong></td>
<td><strong>$2.69</strong></td>
<td><strong>$2.87</strong></td>
</tr>
<tr>
<td><strong>EBITDA As Adjusted per diluted share</strong></td>
<td><strong>$2.86</strong></td>
<td><strong>$2.71</strong></td>
</tr>
</tbody>
</table>

(1) Represents costs and adjustments associated with our 2018 acquisition, including accounting adjustments to inventory that were charged to cost of sales when the inventory was sold, transaction-related costs comprising of acquisition fees, legal, financial and tax due diligence expenses, and valuation costs that are required to be expensed as incurred.

EBITDA, EBITDA As Adjusted, EBITDA per diluted share and EBITDA As Adjusted per diluted share are non-GAAP financial measures used by management to evaluate the Company’s ongoing operations. EBITDA is defined as earnings before interest, taxes, depreciation and amortization and EBITDA As Adjusted is defined as EBITDA plus certain acquisition costs and adjustments. EBITDA per diluted share is defined as EBITDA divided by the Company’s diluted weighted average shares outstanding. EBITDA As Adjusted per diluted share is defined as EBITDA As Adjusted divided by the Company’s diluted weighted average shares outstanding.

## Diluted EPS

<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th>Year-to-Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
</tr>
<tr>
<td>Diluted EPS as reported (U.S. GAAP)</td>
<td>$1.58</td>
<td>$1.55</td>
</tr>
<tr>
<td>Short-term inventory purchase accounting adjustments</td>
<td>-</td>
<td>0.03</td>
</tr>
<tr>
<td>Severance and restructuring</td>
<td>-</td>
<td>0.01</td>
</tr>
<tr>
<td>U.S. Tax Reform discrete item</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Other discrete tax items</td>
<td>(0.04)</td>
<td>(0.04)</td>
</tr>
<tr>
<td><strong>Diluted EPS as adjusted (Non-GAAP)</strong></td>
<td><strong>$1.54</strong></td>
<td><strong>$1.56</strong></td>
</tr>
</tbody>
</table>

Adjusted EPS is not a measurement of financial performance under GAAP, and should not be considered as an alternative to EPS determined in accordance with GAAP. Management believes that EPS as adjusted to exclude the items in the table above assist in understanding the results of Nordson Corporation. Amounts may not add due to rounding.
<table>
<thead>
<tr>
<th></th>
<th>Second Quarter</th>
<th></th>
<th></th>
<th>Year-to-Date</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2019</td>
<td>2018</td>
<td>2019</td>
<td>2018</td>
<td></td>
</tr>
<tr>
<td>Net income</td>
<td>$ 91,923</td>
<td>$ 91,235</td>
<td>$ 140,490</td>
<td>$ 195,790</td>
<td></td>
</tr>
<tr>
<td>Depreciation and amortization</td>
<td>27,740</td>
<td>27,431</td>
<td>55,488</td>
<td>63,718</td>
<td></td>
</tr>
<tr>
<td>Other non-cash charges</td>
<td>4,157</td>
<td>4,690</td>
<td>10,497</td>
<td>(33,203)</td>
<td></td>
</tr>
<tr>
<td>Changes in operating assets and liabilities</td>
<td>(18,755)</td>
<td>(20,323)</td>
<td>(44,563)</td>
<td>(3,952)</td>
<td></td>
</tr>
<tr>
<td>Net cash provided by operating activities</td>
<td>105,065</td>
<td>103,033</td>
<td>161,912</td>
<td>212,311</td>
<td></td>
</tr>
<tr>
<td>Additions to property, plant and equipment</td>
<td>(12,482)</td>
<td>(16,368)</td>
<td>(26,603)</td>
<td>(33,049)</td>
<td></td>
</tr>
<tr>
<td>Proceeds from the sale of property, plant and equipment</td>
<td>724</td>
<td>167</td>
<td>984</td>
<td>235</td>
<td></td>
</tr>
<tr>
<td>Free cash flow before dividends</td>
<td>$ 93,307</td>
<td>$ 86,832</td>
<td>$ 130,293</td>
<td>$ 179,497</td>
<td></td>
</tr>
<tr>
<td>Adjustments:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acquisition costs and adjustments, net of tax(^{(1)})</td>
<td>-</td>
<td>1,832</td>
<td>-</td>
<td>2,620</td>
<td></td>
</tr>
<tr>
<td>Free cash flow before dividends, adjusted</td>
<td>$ 93,307</td>
<td>$ 88,064</td>
<td>$ 130,293</td>
<td>$ 182,117</td>
<td></td>
</tr>
</tbody>
</table>

\(^{(1)}\) Represents costs and adjustments associated with our 2018 acquisition, including accounting adjustments to inventory that were charged to cost of sales when the inventory was sold; transaction-related costs comprising of acquisition fees, legal, financial and tax due diligence expenses; and valuation costs that are required to be expensed as incurred.

Free cash flow before dividends, a non-GAAP financial measure, is defined as net cash provided by operating activities less purchased property, plant and equipment and proceeds from the sale of property, plant and equipment. It is a financial measure used by management to assess its ability to generate cash in excess of its operating needs. Therefore, the Company believes this financial measure provides useful information to investors. Free cash flow before dividends is not a measure of financial performance under GAAP and should be considered in addition to, and not as a substitute for, operating cash flows or other financial measures prepared in accordance with GAAP. Our calculations of non-GAAP measures may not be comparable to the calculations of similarly titled measures reported by other companies.