MPG | MADISON PARK GROUP

Manufacturing Software Market Update

November 2022







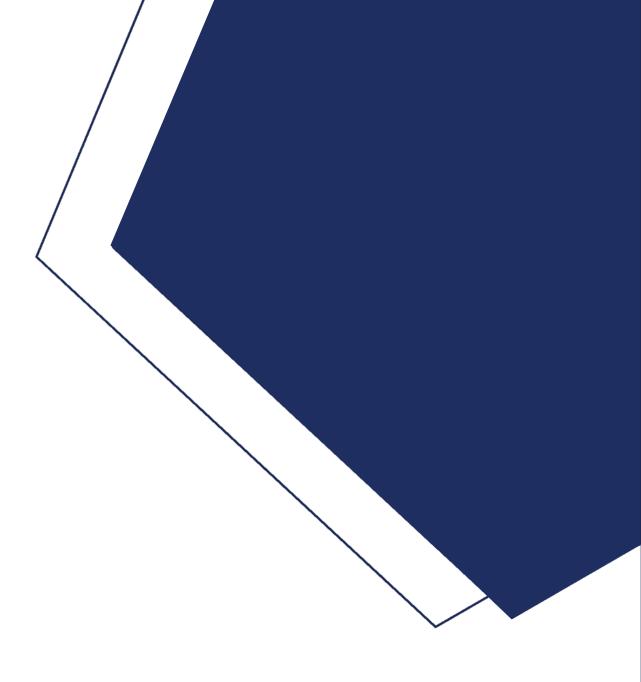
Table of Contents

Q3 2022 M&A Market Update

1.	Industry Trends	3
II.	Featured Companies	8
	Appendix	
III.	Market Comparables	18
IV.	About MPG	37

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Industry Trends



Key Participants Across Manufacturing Software

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Market Update

Madison Park Group ("MPG") is a premier advisor to the manufacturing software market. Manufacturers have been forced to adapt to COVID-induced disruptions over the past 18 months, including accelerating their digital investments in the age of Industry 5.0. This has led to increased emphasis on personalized production, supply chain resiliency and true collaboration between humans and machines.

Companies Featured In This Report			Select Referenced Solutions		
ABB	▲ aptean	@aspentech	✓ AUTODESK	AVEVA	 ✓ Manufacturing Execution Systems (MES)
					 ✓ Manufacturing Resource Planning (MRP)
DASSAULT SYSTEMES	eci	EMERSON.	EPICOR.	⋒ FORTERRO	✓ Enterprise Resource Planning (ERP)
					✓ Manufacturing Intelligence (MI)
GE Digital	HEXAGON	Honeywel	Acumati The Cloud EEP	ca infor	✓ Enterprise Product Costing (EPC)
			_	1	✓ Industrial Internet of Things (IIoT)
ORACLE'	ptc	revalize	Rockwell Automation	Roper	✓ Advanced Production Scheduling (APS)
					✓ Configure, Price, Quote (CPQ)
SANDVIK	SAP	5ee Q	SIEMENS	X ometry	✓ Computer-Aided Manufacturing (CAM)

2

Contact us for more information at insights@madisonparkgrp.com

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Inside The Industry

Market Trends And Notable Transactions

Our Recent Observations

- Manufacturing software providers are evaluating taking SaaS to the next level by offering pricing based on the number of parts manufactured.
- MES providers that monitor manufacturing facilities are gathering data that has value to suppliers and others in the manufacturing ecosystem, leading to new revenue streams. Conversely, manufacturers are having to create internal policies which govern the usage of their data.
- Low-code/No-code application development is allowing companies to more easily leverage the knowledge of their workforce on the manufacturing floor.
- As manufacturing becomes more automated, the end of the supply chain is becoming a larger factor in overall manufacturing efficiency.
- Workplace flexibility and distributed workforces are driving the increased acceptance of cloud-based offerings by large-scale manufacturers, including those in the defense industry.
- Carbon emissions rollup is on the radar of more companies, and as such software tools which address this are starting to emerge.
- The "Made in America" Order is requiring that federal dollars be spent solely on American manufacturers. This is encouraging the creation of resilient and redundant supply chain options that are less reliant on existing global networks.
- IIoT implementations are gathering and analyzing more data than ever before, giving companies a much more accurate view of their manufacturing operations.

Notable Transactions in Profiled Companies	Slide
Aptean acquires Frontix Adds new cloud-based process manufacturing OEE software	9
AspenTechnology acquires Emerson Expands global industrial software leadership	9
Autodesk acquires Prodsmart Real-time automation & digitization of manufacturing processes	10
Dassault Systemes acquires Diota Augmented reality and field	10
Epicor acquires eFlex Systems Modernizing manufacturing production processes	11
Forterro acquires myfactory Cloud ERP software provider	12
Hexagon acquires ETQ SaaS-based QMS platform	12
Infor acquired Lighthouse Systems Provider of MES software for smart manufacturing	13
Revalize acquires Sofon Provider of Guided CPQ software solutions	14
Siemens acquires Brightly Software Digital building operations	16
Xometry acquires Thomas Product sourcing, supplier selection & digital marketing solutions	17

Industry Subsector - IIoT for Manufacturing

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Tech Advancements and Leveraging Non-Machine Data Are Expanding IIoT Efficacy within Asset Management and Manufacturing Facilities



Data Collection

- Monitor multiple data sources including machine performance, humidity, temperature, & vibrational frequency through integrated sensors
- Technology well established

Data Aggregation

- Aggregate and organize machine and nonmachine data (e.g., weather, employee attendance, commodity data) for the analysis of broader manufacturing operations.
- > Technology and methods in their infancy

Analytics Engine

- Deploy advanced ML algorithms and statistical methods to analyze broad data sets and create meaningful insights
- Significant refinement still required to leverage large non-machine data sets

Data Reporting & Visualization

- Generate easy-to-ingest visuals of data to provide users with a seamless product
- Majority of offerings are still to complex for easy interpretation

Predictive Engine

- Effectively predict and recommend next-steps to users based on domain knowledge which increases operational efficiency
- Product offerings still lack deep domain knowledge for truly useful predictions

Notable Transactions



Description:

 Edge virtualization platform to monitor, visualize, and secure real-time edge applications



Description:

 Cloud-based smart factory data collection and analytics software to monitor production in industrial settings



Description:

 Cloud-based machine monitoring platform to enable predictive maintenance

Notable Transactions In The Last Twelve Months

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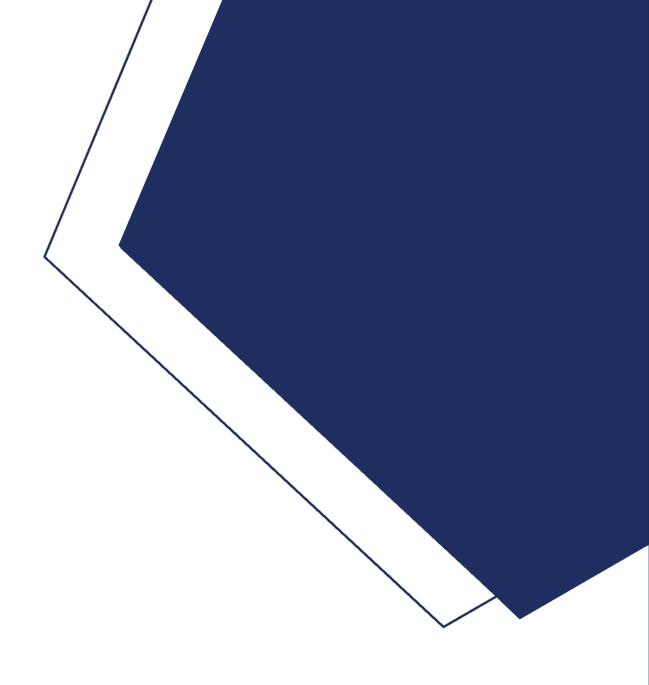
Industrial Software

\$ in millions

MPG Advised

Target	Acquirer	Date	MPG Subsector	Transaction Size	Transaction Notes
U unison	MDP	Sep-22	Commerce & Supply Chain Management	n/a	 Madison Dearborn Partners acquires majority position form Carlyle in Unison, a leading provider of procurement, supply chain, and contract management software to U.S. federal government agencies and government contractors
SOFTWARE	Trimble	Sep-22	Industrial Tech	Conf.	 Trimble acquires B2W software, provider of estimating and operations solutions for heavy civil construction companies. B2W's integrated suite of applications includes estimating, scheduling, field tracking, equipment maintenance, data capture and business intelligence
TRACKS	TRANSPORE()N transforming transportation	Aug-22	Industrial Tech	n/a	 Transporean acquires Tracks, Al-based analytics carbon visibility tool providing data solutions to monitor and manage carbon emissions
MERCELL	THOMABRAVO	Aug-22	Commerce & Supply Chain Tech	\$321	• Thoma Bravo acquires Mercell, a European provider of e- tendering and procurement systems for the public sector
operix	M33 GROWTH	Aug-22	Industrial Tech	Conf.	 M33 Growth re-brands and provides a growth investment in IFS Core, software provider for specialty contractors and field operators
Grightly	SIEMENS	Aug-22	Industrial Tech	\$1,875 ⁽¹⁾	• Siemens Smart Infrastructure acquires Brightly, a cloud- based asset and maintenance management software
intellect	STRATTAM C A P I T A L	Mar-22	QMS and EH&S	Conf.	 Strattam provides a growth investment to Intellect, a provider of compliance software for ISO, FDA, EPA and OSHA manufacturing standards and regulations. The company offers QMS and EH&S applications for mid-market and enterprise companies
THOMAS*	X ometry	Dec-21	Industrial Tech	\$300	 Xometry acquires Thomas, a provider of product sourcing, supplier selection, and digital marketing solutions aimed at fintech and digital marketing customers

Featured Companies



Profile



Description:

ABB is a global supplier of electrical equipment and automation products. Automation solutions span both discrete and process manufacturing

Headquarters:	Zurich, Switzerland
Employees (1-Yr. Growth):	2,350 (▲ 3%)
Website:	<u>www.abb.com</u>
Ownership Status:	Public (NYSE: ABB)
Acquisitions Since 2010:	43
TTM Revenue:	\$28,114

News & Notes

<u>ABB</u> wins \$170 million in orders to enhance Europe's railway network

October 2022

ABB to acquire PowerTech Converter to expandd its traction offering

September 2022

ABB partners with Samsung Electronics to drive holistic smart building technology

April 2022



Description:

Aptean provides industry-specific ERP, SCM, MES, asset management and compliance solutions for process & discrete manufacturers, distributors and other organizations

Alpharetta, GA	
5,115 (6%▲	
<u>www.aptean.com</u>	
PE-Backed (Vista, TA, Charlesbank)	
49	
n/a	

Aptean secures strategic growth investment from TA and Insight Partners to accelerate innovation

October 2022

Aptean adds new cloud-based process manufacturing OEE software through the acquisition of Frontix July 2022

Aptean extends its food and beverage ERP presence through the acquisition of Produce Pro



Description:

Aspen Technology is a provider of asset optimization software that accelerates and maximizes value gained from digital transformation initiatives with a holistic approach to the asset lifecycle and supply chain

Headquarters:	Bedford, MA	
Employees (1-Yr. Growth):	3,669 (▲ 7%)	
Website:	www.aspentech.com	
Ownership Status:	Public (Nasdaq: AZPN)	
Acquisitions Since 2010:	11	
TTM Revenue:	\$693	

Aspen Technology enhances ability to help customers maximize industrial data with acquisition of Inmation October 2022

Birla Carbon selects <u>Aspen Technology's</u> solutions to capitalize on industrial data across enterprise August 2022

<u>AspenTechnology</u> completes Emerson transaction, expanding global industrial software leadership

May 2022

Profile



Description:

Autodesk is a provider of 3D, design and engineering software for the architecture, engineering, construction, manufacturing and media industries

San Rafael, CA
14,276 (▲ 2%)
<u>www.autodesk.com</u>
Public (Nasdaq: ADSK)
69
\$4,744

News & Notes

New suite of capabilities in <u>Autodesk</u> Construction Cloud make BIM more valuable

April 2022

<u>Autodesk</u> appoints Rami Rahim to board of directors August 2022

Prodsmart joins <u>Autodesk</u>

February 2022



Description:

AVEVA provides industrial technology solutions with product categories spanning operations management, supply chain, asset performance, engineering and more

Headquarters:	Cambridge, U.K.
Employees (1-Yr. Growth):	6,281 (▲ 6%)
Website:	www.aveva.com
Ownership Status:	Public (LON: AVV)
Acquisitions Since 2010:	9
TTM Revenue:	\$1,366 ⁽¹⁾

<u>Aveva</u> to unveil new product roadmap following OSIsoft integration

September 2022

Schneider Electric and <u>Aveva</u> partner with shell to accelerate net-zero transition in hard-to-abate sectors September 2022

<u>Aveva</u> announces a strategic licensing partnership with Aras

September 2022



Description:

Dassault is a global provider of on-premise and cloud-based math and sciences solutions for the design, manufacturing and life sciences sectors

Headquarters:	Vélizy-Villacoublay, France
Employees (1-Yr. Growth):	21,942 (▲ 7%)
Website:	www.3ds.com
Ownership Status:	Public (PAR: DSY)
Acquisitions Since 2010:	42
TTM Revenue:	\$5,895

<u>Dassault Systemes</u> acquires Diota, bringing augmented reality and field to its manufacturing customers

March 2022

<u>Dassault Systemes</u> partners with Sanofi to optimize tech transfers and industrialization

<u>Dassault Systemes</u> introduces life cycle assessment solution on the 3DEXPERIENCE platform

December 2022

To view news, click on blue text

Profile



Description:

ECI Software Solutions provides solutions for SMB manufacturing, wholesale/retail distribution, building & construction, and field and IT services organizations

Vorth, TX	Headquarters:
(▲ 12%)	Employees (1-Yr. Growth):
ions.com	Website:
d Green)	Ownership Status:
26	Acquisitions Since 2010:
n/a	TTM Revenue:
	Acquisitions Since 2010:

News & Notes

<u>ECI Software Solutions</u> announces strategic alliance with Paperless Parts

October 2022

<u>ECI Software Solutions</u> acquires Data Inventions and Lojic for their intelligence platforms for manufacturers Aug 2022

ECI Software Solutions names seasoned software executive, Chip Coyle, as Chief Marketing Officer March 2022



Description:

Emerson provides two sets of offerings: Automation Solutions for improving the performance of industrial customers and Commercial & Residential Solutions for improving quality of life

Headquarters:	St. Louis, MO
Employees (1-Yr. Growth):	27,111 (▲ 4%)
Website:	www.emerson.com
Ownership Status:	Public (NYSE: EMR)
Acquisitions Since 2010:	46
TTM Revenue:	\$19,629

<u>Emerson</u> to accelerate software strategy in transaction with Aspentech

June 2022

Emerson Ventures makes strategic investment in Spearix

Aug 2022

Emerson's next-generation machine visualization solution differentiates OEM system

March 2022



Description:

Epicor is a developer of enterprise software solutions, specializing in enterprise resource planning, sales management, supply chain management and human resource management

Vélizy-Villacoublay, France
5,251 (▲ 8%)
www.epicor.com
PE-Backed (<i>CD&R</i>)
16
n/a

<u>Epicor</u> announces hire of new Chief Marketing Officer November 2022

Epicor acquires MES provider eFlex Systems modernizing manufacturing production processes October 2022

<u>Epicor</u> appoints Lisa Pope as President *March 2022*

Profile



Description:

Forterro is a group of ERP software and services companies serving small to midmarket clients around the globe, with a particular focus on Europe

Headquarters:	Austin, TX
Employees (1-Yr. Growth):	67 (▲ 49%)
Website:	<u>www.forterro.com</u>
Ownership Status:	PE-Backed (<i>Battery</i>)
Acquisitions Since 2010:	10
TTM Revenue:	n/a

News & Notes

Forterro significantly expands UK market footprint with acquisition of Wise Software

July 2022

Forterro gains investor in Partners Group

March 2022

Forterro acquires cloud ERP software provider myfactory

September 2021



GE Digital

Description:

GE Digital provides industrial software and data solutions to the utilities & telecom, power generation, oil & gas and manufacturing sectors

3,970 (0%)
<u>www.ge.com</u>
Subsidiary (GE)
53
n/a

EY and GE Digital form alliance to help firms improve productivity through data-driven manufacturing June 2022

Scott Reese joins GE Digital as new CEO

GE Digital will acquire Opus One Solutions to advance their energy transition

December 2021



Description:

Hexagon is a provider of sensor, software and autonomous solutions for industrial, manufacturing, infrastructure, safety and mobility applications

Stockholm, Sweden
23,696 (▲ 10%)
www.hexagon.com
Public (STO: HEXA B)
73
\$4,969

Hexagon acquires iConstruct, expanding its smart digital reality capabilities September 2022

Hexagon acquires ETQ, adding market-leading SaaSbased QMS software platform to its portfolio February 2022

Hexagon launches start-up platform to accelerate technology in global manufacturing industry January 2022

Profile



Description:

Honeywell is an American conglomerate providing solutions for aerospace, building technologies, performance materials & technologies and safety & productivity

Headquarters:	Charlotte NC
Employees (1-Yr. Growth):	120,320 (▲ 4%)
Website:	www.honeywell.com
Ownership Status:	Public (NYSE: HON)
Acquisitions Since 2010:	39
TTM Revenue:	\$34,937

News & Notes

<u>Honeywell</u> makes strategic investment in RapidSOS October 2022

<u>Honeywell</u> invests in Rhino Health *July 2022*

<u>Honeywell</u> To Acquire US Digital Designs, Inc., Expanding Public Safety Communications Capabilities December 2021





Description:

IFS provides ERP, EAM and service management solutions for enterprises. Acumatica provides cloud-based business management solutions for SMBs

Headquarters:	Sweden (IFS), Washington (Acumatica)
Employees:	6,568 (IFS), 443 (Acumatica)
Website:	www.ifs.com, www.acumatica.com
Ownership Status:	PE-Backed (<i>EQT, TA</i>)
Acquisitions Since 2010:	15
TTM Revenue:	n/a

IFS acquires ULTIMO

July 2022

Southwest Airlines goes live with IFS maintenance management for entire Boeing 737 fleet April 2022

Acumatica names John Case as new Chief Executive Officer

February 2022



Description:

Infor is a global software company that builds SMB and enterprise ERP software cloud products for industries including manufacturing, healthcare and retail

New York, NY
19,282 (▲ 2%)
<u>www.infor.com</u>
Subsidiary (Koch Equity)
20
\$1,785 (2020)

<u>Infor</u> partners with NMIS to power model digital factory

October 2022

Rotair chooses Infor cloud ERP to support growth and internationalization

March 2022

Infor acquires Lighthouse Systems
October 2021

MADISON PARK GROUP

Leading Manufacturing Technology Platforms

Profile



Description:

Oracle provides an integrated stack of cloud applications and platform services as well as traditional on-premise infrastructure solutions

Redwood City, CA
235,178 (▲ 8%)
<u>www.oracle.com</u>
Public (NYSE: ORCL)
75
\$44,157

News & Notes

<u>Oracle</u> and NVIDIA Partner to Speed Al Adoption for Enterprises

October 2022

<u>Oracle</u> helps high tech and manufacturing businesses automate prevention of asset downtime

October 2022

<u>Oracle</u> helps high tech and manufacturing businesses automate prevention of asset downtime

September 2021



Description:

PTC provides computer-aided design (CAD) modeling, product lifecycle management (PLM), service lifecycle management (SLM) and industrial-focused AR / VR and IoT solutions

Boston, MA
7,012 (▼ 4%)
<u>www.ptc.com</u>
Public (NasdaqGS: PTC)
22
\$1,933

PTC brings cloud-native CAM to Onshape with Cloudmilling acquisition

September 2022

PTC completes acquisition of Intland Software

April 2022

PTC and Schaeffler announce strategic alliance to accelerate digital transformation roadmap

March 2022



Description:

Revalize is a provider of revenue operations solutions manufacturers, with solutions spanning CPQ, product selection, PIM and more

Headquarters:	Jacksonville, FL
Employees (1-Yr. Growth):	342 (▲ 10%)
Website:	www.revalizesoftware.com
Ownership Status:	PE-Backed (<i>TA</i>)
Acquisitions Since 2010:	13
TTM Revenue:	n/a

Revalize expands leadership team with key hires July 2022

Revalize secures significant minority investment from HG

July 2022

Revalize acquires Sofon
October 2021

MADISON PARK GROUP

Leading Manufacturing Technology Platforms

Profile



Description:

Rockwell Automation provides industrial automation and information hardware and software to drive digital transformation for its clients

Headquarters:	Milwaukee, WI
Employees (1-Yr. Growth	n): 21,971(▲ 4%)
Website:	www.rockwellautomation.com
Ownership Status:	Public (NYSE: ROK)
Acquisitions Since 2010:	22
TTM Revenue:	\$7,760

News & Notes

Rockwell Automation completes acquisition of CUBIC October 2022

Rockwell Automation and Cognite form a strategic partnership to develop Industrial data hub
October 2022

New micro controllers and design software from Rockwell Automation optimize smart machine design May 2021



Description:

Roper is a diversified technology company servicing domain specific markets. Deltek provides enterprise application software and services to project-focused organizations

Headquarters:	Sarasota, FL
Employees (1-Yr. Growth):	284 (▲ 9%)
Website:	www.ropertech.com
Ownership Status:	Public (NYSE: ROP)
Acquisitions Since 2010:	39
TTM Revenue:	\$7,760

<u>Deltek</u> reaches agreement to acquire TIP Technologies July 2022

Roper Technologies to sell majority stake in its industrial businesses to CD&R

<u>Deltek</u> named project-based ERP leader by G2 March 2022



Description:

Sandvik is a global engineering group offering products and services that enhance customer productivity, profitability and sustainability

Headquarters:	Stockholm, Sweden
Employees (1-Yr. Growth):	17,492 (▲ 4%)
Website:	www.sandvik.com
Ownership Status:	Public (STO: SAND)
Acquisitions Since 2010:	32
TTM Revenue:	\$12,407

Sandvik completes acquisition of PCD tools manufacturer Frezite

September 2022

<u>Sandvik</u> acquires precision tools manufacturer Sphinx Tools

August 2022

<u>Sandvik</u> acquires US based tap manufacturer Balax September 2022

Profile



Description:

SAP is a provider business application and technology solutions such as enterprise resource planning, database management, business intelligence and vertical-specific software

Walldorf, Germany
128,158 (▲ 7%)
<u>www.sap.com</u>
Public (ETR: SAP)
34
\$32,906

News & Notes

SAP announces Dominik Asam as new CFO
August 2022

Lloyd Adams named President of <u>SAP</u> North America

August 2022

SAP announces CFO Luka Mucic to depart company in 2023

March 2022



Description:

Seeq is a manufacturing and Industrial Internet of Things (IIoT) advanced analytics software platform designed to accelerate process analytics on industrial process data

Headquarters:	Seattle, WA
Employees (1-Yr. Growth):	217 (▲ 15%)
Website:	<u>www.seeq.com</u>
Ownership Status:	VC-Backed (<i>Insight Partners</i>)
Acquisitions Since 2010:	0
TTM Revenue:	n/a

Seeq appoints George Skaryak as Chief Revenue Officer

November 2022

NECI and <u>Seeq</u> announce partnership to deliver advanced analytics solutions

August 2022

<u>Seeq</u> announces industrial digitalizationn agreement with Aramco

December 2021



Description:

Siemens is a German conglomerate which providers electrification, automation and digitalization solutions. IT offerings spanning design, manufacturing and other use cases

Headquarters:	Munich, Germany
Employees (1-Yr. Growth):	235,178 (▲ 8%)
Website:	www.siemens.com
Ownership Status:	Public (ETR: SIE)
Acquisitions Since 2010:	34
TTM Revenue:	\$77,534

<u>Siemens</u> launches innovative cloud-native software for electrical design

October 2022

<u>Siemens</u> acquires Brightly Software to accelerate growth in digital building operations

June 2022

<u>Siemens</u> acquires Wattsense to boost IoT systems for small and medium buildings

June 2022

Featured Companies

MADISON PARK GROUP

Leading Manufacturing Technology Platforms

Profile



Description:

Xometry creates a marketplace that enables designers and engineers to rapidly source high-quality on-demand manufactured parts and assemblies

Headquarters:	Gaithersburg, MD
Employees (1-Yr. Growth):	564 (▲ 24%)
Website:	www.xometry.com
Ownership Status:	Public (NasdaqGS: XMTR)
Acquisitions Since 2010:	6
TTM Revenue:	\$350
THIN Revenue.	Ψ33

News & Notes

<u>Xometry</u> promotes Matt Leibel to Chief Technology Officer

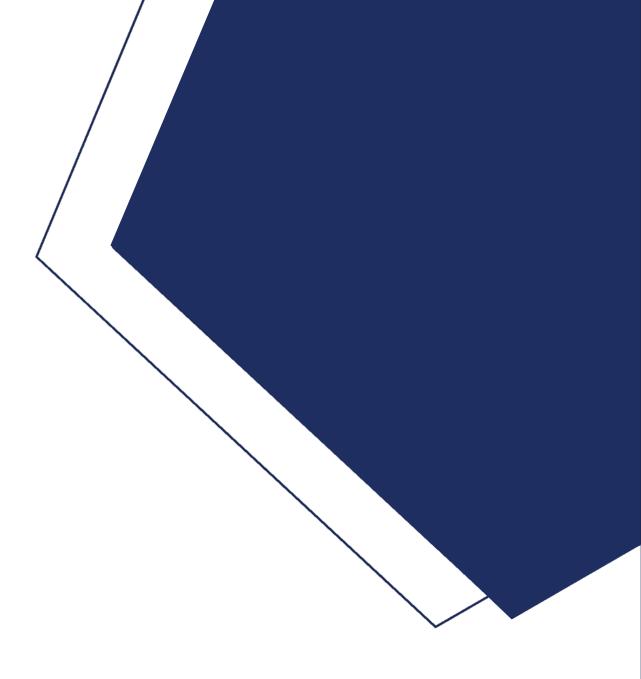
August 2022

<u>Xometry</u> acquires Thomas, accelerating the manufacturing industry's digital transformation August 2022

<u>Xometry</u> inherits cloud-based manufacturing execution system with acquisition of FactoryFour *February 2022*



Appendix Market Comparables



Buyer-Specific Acquisitions: 2011-Present

	_						Transaction Statistic				
ABB	Honeywell	(\$ in Millio	in Millions) Target Ove		erview			Transaction Statistics Deal Deal Value / Estimated			
, 155	Tioney wen	Date	Target	Description		BITDA	Value	Revenue	EBITDA		
		ABB (NYSE	E: ABB)		To	otal Disclosed	M&A Deal Va	lue Since 2011:	\$9.5 Billion		
Aptean	IFS / Acumatica	Oct-22	ASKI Energy	Energy management hardware and software	n/a	n/a	n/a	n/a	n/a		
		Sep-22	PowerTech Converter	Power supply systems for rail vehicles and industrial applications	n/a	n/a	n/a	n/a	n/a		
		Aug-22 Jul-21	Siemens (NEMA Motor Business) ASTI Mobile Robotics	Low voltage NEMA motor Automated intralogistics software solutions	n/a \$50.0	n/a n/a	n/a n/a	n/a n/a	n/a n/a		
AspenTech	Infor	Oct-20	Codian Robotics	Industrial application delta robotics	n/a	n/a	n/a	n/a	n/a		
		Mar-20	ChargeDot	Vehicle-charging software applications	n/a	n/a	n/a	n/a	n/a		
		Mar-20	Cylon Controls	Web-based energy management systems	n/a	n/a	n/a	n/a	n/a		
Autodesk	Oracle	Oct-19	ChargeDot	Vehicle-charging technology developer	n/a	n/a	n/a	n/a	n/a		
Autodesk	Oracle	Sep-18	Intrion	Automated material handling systems	n/a	n/a	n/a	n/a	n/a		
		Sep-18	AB Rotech	Automotive engineering services	n/a	n/a	n/a	n/a	n/a		
		Jul-18 Nov-17	GE Industrial Solutions Tekomar Group	Electrical circuits designer & manufacturer Marine diesel engine engineering	\$2,700.0 n/a	\$216.0 n/a	\$2,600.0 n/a	0.96x n/a	12.0x n/a		
Aveva	PTC	Jul-17	KEYMILE (Assets)	Telecommunication network services	n/a	n/a	n/a	n/a	n/a		
71000		Apr-17	B&R	Machine automation systems	\$600.0	\$75.0	\$2,000.0	3.33x	26.7x		
		Feb-17	NUB3D	3D scanners and 3D scanning technology	n/a	n/a	n/a	n/a	n/a		
		May-16	SVIA Automation Solutions	Robot automation equipment	n/a	n/a	n/a	n/a	n/a		
Dassault	Revalize	Nov-15	Striebel & John	Energy-distribution systems manufacturing	n/a	n/a	n/a	n/a	n/a		
		Aug-15	CGM	Advanced control room environments	n/a	n/a	n/a	n/a	n/a		
	B 1 11	Apr-15	Gomtec	Mechatronic systems and robot developer	n/a	n/a	n/a	n/a	n/a		
ECi	Rockwell	Jan-15	Viola Systems	Wireless telecommunications products	n/a	n/a	n/a	n/a	n/a		
ECI	Automation	Nov-14	Spirit IT Terman	Oil & gas automation products	n/a	n/a	n/a	n/a	n/a		
	7 tatorration	May-14 Oct-13	Los Gatos Research	Temperature monitoring device mfg. Laser-based gas and isotope measurement	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a		
		Sep-13	ELBI Elektrik	Electrical installation product manufacturer	n/a	n/a	n/a	n/a	n/a		
Emerson	Roper / Deltek	Aug-13	Newron System	Automation systems software	n/a	n/a	n/a	n/a	n/a		
2111613611	Roper / Bertek	Jul-13	Alstom's Ring Motor Business	Manufacturer of ring motors	n/a	n/a	n/a	n/a	n/a		
		Jul-13	Power One	Power-conversion/management solutions	\$1,000.0	\$120.0	\$762.0	0.76x	6.4x		
		Jul-13	DynaMotive	UK-based controls and system producer	n/a	n/a	n/a	n/a	n/a		
Epicor	Sandvik	Feb-13	APS Technology Group	Automated process systems provider	n/a	n/a	n/a	n/a	n/a		
		Dec-12	GRESIN	Press equipment manufacturer	n/a	n/a	n/a	n/a	n/a		
		Aug-12 Jul-12	Amarcon RGM (Rail Business)	Ship motion and performance analysis Auxiliary converters for rail vehicles	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a		
Fortorro	SAP	Jun-12 Jun-12	Tropos	Wireless IP broadband network solutions	n/a	n/a	n/a	n/a	n/a n/a		
Forterro	SAP	Jan-12	Thomas & Betts	Manufacturer of electrical components	\$2,300.0	\$390.0	\$3,900.0	1.70x	10.0x		
		Dec-11	Newave Energy	Manufacturer of power supply equipment	n/a	n/a	\$169.6	n/a	n/a		
		Dec-11	Stubán Generál Trafo	Transformers and inductors provider	n/a	n/a	n/a	n/a	n/a		
GE / GE Digital	Seeq	Nov-11	Envitech Energy	Manufacturer of electrical power systems	n/a	n/a	n/a	n/a	n/a		
32 / 32 Bigital	3669	Nov-11	Powercorp	Automation technologies provider	n/a	n/a	n/a	n/a	n/a		
		Jul-11	Trasfor Group	Low voltage transformers provider	n/a	n/a	n/a	n/a	n/a		
		Jul-11	Lorentzen & Wettre	Provider of quality control equipment	n/a	n/a	\$81.1	n/a	n/a		
Hexagon	Siemens	Jul-11	Epyon Power	Fast charging system for electric vehicles	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a		
		May-11	Mincom	Enterprise asset & workforce management	n/a						
		Aptean			Total	Disclosed M	&A Deal Value	Since 2011: \$1	28.4 Million		
Xon	netry	Nov-22	ImPuls	Enterprise resource planning software	n/a	n/a	n/a	n/a	n/a		
7,011		Oct-22	Merlin Business Software	Enterprise business software	n/a	n/a	n/a	n/a	n/a		
		Oct-22	Frontix Aptos	Process management software	n/a n/a	n/a n/a	n/a	n/a n/a	n/a		
		Aug-22 Aug-22	Aptos The Systems House	Planning and design management platforms Enterprise management software for healthcare supply chain sector	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a		
		Jul-22	Produce Pro	Enterprise resource planning software for food and beverage	n/a	n/a	n/a	n/a	n/a		
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Buyer-Specific Acquisitions: 2011-Present

		(\$ in Million	ns)	Target Overview			Trans	action Statist	ics
ABB	Honeywell	Date	Target	Description	Estimate Revenue	d EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
Aptean	IFS / Acumatica	Aptean					&A Deal Value		
Aptean	11 3 / Acumatica	Jun-22	Prima Solutions	Enterprise resource planning software and implementation services	n/a	n/a n/a	n/a	n/a	n/a
		May-22 Jan-22	RLM Apparel Software JET ERP	Software system intended to serve the fashion industry Enterprise resource planning and business management software	n/a n/a	n/a	n/a n/a	n/a n/a	n/a n/a
Λ T l-	lofo"	Dec-21	Systems Integration	Enterprise and manufacturing execution system software	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Nov-22	Objective International	Supply chain software streamlining logisitics	n/a	n/a	n/a	n/a	n/a
		Oct-21	Ramsauer & Sturmer	Enterprise resource planning software for construction industry	n/a	n/a	n/a	n/a	n/a
		Aug-21 Aug-21	Alternative Business Systems Exenta	Supply chain software for fast fashion industry	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Autodesk	Oracle	Aug-21 Aug-21	V-Technologies	Shipping software services	n/a	n/a	n/a n/a	n/a	n/a
		Jul-21	Ramsauer & Stürmer Software	ERP software solutions	n/a	n/a	n/a	n/a	n/a
		Apr-21	Task Performance Group	Industrial EDI, EDIFACT and XML integration	\$21.3	n/a	n/a	n/a	n/a
A	DTC	Apr-21	Applied Business Services	Business application solutions	\$2.6	n/a	n/a	n/a	n/a
Aveva	PTC	Dec-20	Modula Society	Manufacturing execution and ERP solutions	n/a	n/a	n/a	n/a	n/a
		Nov-20	Lascom	Cloud-based industrial PLM platform	n/a	n/a	n/a	n/a	n/a
		Nov-20 Oct-20	Open Systems Adaptable Solutions Agiles Informationssysteme	F&B focused ERP software Process automation and ERP services	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Dassault	Revalize	Aug-20	Innovative Systems	Total management software solutions	n/a	n/a	n/a	n/a	n/a
Bassaare	revanze	Jul-20	DIN Solutions	Holland-based F&B ERP vendor	n/a	n/a	n/a	n/a	n/a
		Jun-20	WorkWise	Discrete manufacturing ERP	n/a	n/a	n/a	n/a	n/a
- c:	Rockwell	Mar-20	Paragon Software Systems	Vehicle routing optimization software	n/a	n/a	n/a	n/a	n/a
ECi		Nov-19	Schouw Information	Food ERP software platform	n/a	n/a	n/a	n/a	n/a
	Automation	Oct-19	Linkfresh Software	Fresh produce ERP software	n/a	n/a	n/a	n/a	n/a
		Sep-19 Sep-19	Beck Consulting Sanderson Group	Food enterprise software solutions Digital retail and enterprise software	n/a \$45.4	n/a \$9.3	n/a \$109.7	n/a 2.41x	n/a 9.3x
Emerson	Roper / Deltek	May-19	Optiware	Enterprise asset management software	n/a	n/a	ın/a	n/a	n/a
LITICISOTI	Roper / Deitek	Mar-18	IndustryBuilt Software	Business management software	n/a	n/a	n/a	n/a	n/a
		Dec-17	TheySay	Online sentiment-analysis software	n/a	n/a	n/a	n/a	n/a
		Dec-17	Praeses (Assets)	Jurisdiction Online Division	n/a	n/a	n/a	n/a	n/a
Epicor	Sandvik	Dec-17	Infl. Health (Assets)	Patient data solutions	n/a	n/a	n/a	n/a	n/a
		Jun-17	FDM Software	Public safety dispatch software	n/a	n/a	n/a	n/a	n/a
		May-17 Feb-17	Apprise Software Upp Technology	Cloud-based ERP and SCM software Warehouse and asset management	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Forterro	SAP	Oct-16	GQ Life Sciences	Genomic software	n/a	n/a	n/a	n/a	n/a
Forterro	SAF	Aug-16	Diamond Municipal	Financial and revenue management	n/a	n/a	n/a	n/a	n/a
		Jun-16	Trimble Public Safety	Public safety software	n/a	n/a	n/a	n/a	n/a
		Jan-16	AssetPoint	Asset management software	n/a	n/a	n/a	n/a	n/a
GE / GE Digital	Seeq	Dec-15	Computron Software	Accounting and finance ERP	n/a	n/a	n/a	n/a	n/a
, ,	'	Oct-15	Medworxx	Medical information systems	\$6.1	n/a	\$18.7	3.06x	n/a
		Oct-15 Jun-15	CoreTrac Cinram Group	CRM services Inventory management and BI	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Havadan	Ciamana	Jun-15	CRM Culture	Productivity software assets	n/a	n/a	n/a	n/a	n/a
Hexagon	Siemens	Jan-15	Verdiem	Power management	n/a	n/a	n/a	n/a	n/a
		Aug-12	CDC Software	ERP, manufacturing operations and SCM	n/a	n/a	n/a	n/a	n/a
		Aspen Tech	nology (Nasdaq: AZPN)		To	otal Disclosed	M&A Deal Val	ue Since 2011:	\$0.8 Billion
Xom	netry	Oct-22	inmation Software	Industrial information management system	n/a	n/a	n/a	n/a	n/a
		Jul-22	Micromine	Modular data management software	n/a	n/a	\$639.9	n/a	n/a
		Dec-20	OptiPlant	Automation for engineering and design	n/a	n/a	\$8.2	n/a	n/a
		Nov-20	Camo Analytics	Data simulation and prediction software	n/a	n/a	\$12.7	n/a	n/a
		Jul-19	Mnubo	IoT analytics & Al for product manufactures	n/a	n/a	\$77.6	n/a	n/a

Buyer-Specific Acquisitions: 2011-Present

		/C in Million		T+ 0 i			Transaction Statistics			
ABB	Honeywell	(\$ in Million		Target Overview	Estimated		Deal	Deal Value /	Estimated	
		Date	Target	Description	Revenue Ef	BITDA _	Value	Revenue	EBITDA	
		Aspen Tecl	nnology (Nasdaq: AZPN)		Tot	al Disclose <u>d</u>	M&A Deal Val	ue Since 2011:	\$0.8 Billion	
Aptean	IFS / Acumatica	Jun-19 Feb-18	Sabisu Greenfern Dynamics	Analytics and digital solutions for manufacturing Dynamic optimization technology software	n/a n/a	n/a n/a	\$9.7 \$23.0	n/a n/a	n/a n/a	
AspenTech	Infor	Oct-16 Jun-16 Apr-14 Feb-12	Mtell Fidelis Group Sulsim Software SolidSim Engineering	Machinery monitoring software Asset reliability software Gas plant simulation software Solids process modeling software	n/a n/a n/a n/a	n/a n/a n/a n/a	\$37.4 \$10.0 n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
		Autodesk (NASDAQ: ADSK)		Tot	al Disclosed	M&A Deal Val	lue Since 2011:	\$3.6 Billion	
Autodesk	Oracle	Mar-22 Feb-22	The Wild Prodsmart	VR/AR collaboration platform Real-time tracking application	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
Aveva	PTC	Jan-22 Dec-22 Nov-22 May-21	Moxion ProEst Tangent Labs Upchain	SaaS-based digital media platform Construction estimating and digital takeoff software Cloud-based production software pipeline tool Cloud-based manufacturing PLM	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a \$139.8	n/a n/a n/a n/a	n/a n/a n/a n/a	
Dassault	Revalize	Feb-21 Nov-20 Oct-20	Innovyze Spacemaker CAMplete Solutions	Infrastructure modeling and simulation software Al-based building site analysis software Manufacturing process and verification solutions	\$104.1 n/a n/a	\$41.6 n/a n/a	\$1,040.9 \$252.0 n/a	10.00x n/a n/a	25.0x n/a n/a	
ECi	Rockwell	Jul-20 Dec-18 Nov-18 Jul-18	Pype BuildingConnected PlanGrid Assemble Systems	Cloud-based construction project mgmt. Preconstruction planning solutions Digital blueprint solutions BIM solutions for construction	n/a n/a \$100.0 n/a	n/a n/a n/a n/a	n/a \$275.0 \$875.0 n/a	n/a n/a 8.75x n/a	n/a n/a n/a n/a	
Emerson	Automation Roper / Deltek	Nov-17 Jun-16 Apr-16 Feb-16	BioLite CadSoft Solid Angle Monolith	Carbon credit license permits PCB Design Animation & visual effects rendering Voxel modelling	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
		Jan-16 Jan-16 Oct-15	Autodesk Substation Design SDS Configure One	AutoCAD software developer AutoCAD software systems CPQ software	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a	n/a n/a n/a n/a	
Epicor	Sandvik	Oct-15 Sep-15 Aug-15	Indeeo NetFabb SeeControl	Apple graphic design applications Additive design & mfg. software IoT business applications platform	n/a \$18.6 n/a	n/a \$1.0 n/a	n/a \$44.5 n/a	n/a 2.39x n/a	n/a n/m n/a	
Forterro	SAP	Feb-15 Jan-15 Dec-14	Tweak Software Synthicity Magestic Systems	PLM software hosting Urban planning data processing 3D nesting of composites	n/a n/a \$3.0	n/a n/a n/a	n/a n/a \$10.0	n/a n/a 3.33x	n/a n/a n/a	
GE / GE Digital	Seeq	Nov-14 Nov-14 Nov-14 Oct-14	Terrible Labs TeamUp Technologies Lagoa Modio	Mobile and web application development Three dimensional cloud platform 3D rendering platform Character animation software	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a \$60.0 \$60.0 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
Hexagon	Siemens	Oct-14 Jun-14 Jun-14 Jun-14	Robobat Polska Shotgun Software The Living Bitsquid	Structural engineering software Animation & creative software Building design studio Mobile game engine	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a \$54.5 n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
Xom	netry	May-14 May-14 Apr-14 Mar-14 Feb-14	Within Technologies NEi Nastran Solver Ilesfay Technology Creative Market Labs Delcam	Engineering design optimization Engineering analysis and simulation PLM data replication Digital content design marketplace Automated multi-vertical CAD/CAM	n/a n/a n/a n/a \$75.6	n/a n/a n/a n/a n/a	\$88.8 n/a n/a n/a \$285.4	n/a n/a n/a n/a 3.78x	n/a n/a n/a n/a n/a	
		Jan-14 Jan-14 Jan-14	Schrauwen Bruneel Circuits.io Majestic Systems	Electronic circuits design software Application for designing electronic circuits Industrial manufacturing software	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millio	ns)	Target Overview			Trans	action Statistic	rs
ABB	Honeywell	Date	Target	Description	Estimated Revenue E	I BITDA	Deal Value	Deal Value /	
Aptean	IFS / Acumatica		NASDAQ: ADSK)				M&A Deal Val		3.6 Billion
Aptean	11 5 / Acumatica	Dec-13 Dec-13	Azalient Graitec Innovation	Traffic simulation modelling Structural building construction CAD	n/a n/a	n/a n/a	n/a \$88.1	n/a n/a	n/a n/a
		Nov-13	Virtual Shape	Automotive modelling & design	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Oct-13	for-each	Software focused on mobile development	n/a	n/a	n/a	n/a	n/a
Aspentech	111101	Aug-13	Bestech Systems	Bridge span analysis Transportation path analysis	n/a	n/a	n/a	n/a	n/a
		Aug-13 May-13	Savoy Computing Tinkercad	Cloud-based 3D design tools	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
A t .	0	Mar-13	Firehole Technologies	Composite materials design	n/a	n/a	\$10.0	n/a	n/a
Autodesk	Oracle	Jan-13	Allpoint	3D data processing	n/a	n/a	n/a	n/a	n/a
		Jan-13 Oct-12	PI-VR Qontext	Automotive visualization Enterprise social collaboration	n/a n/a	n/a n/a	\$49.3 \$26.0	n/a n/a	n/a n/a
		Oct-12	HSMWorks	Computer aided manufacturing	n/a	n/a	\$20.0 n/a	n/a	n/a
Aveva	PTC	Aug-12	Inforbix	Product data searching	n/a	n/a	n/a	n/a	n/a
		Aug-12	Exotic Matter	3D fluid solver and dynamics framework	n/a	n/a	n/a	n/a	n/a
		Jul-12 Jun-12	Socialcam Vela Systems	Video data capture Construction field software	n/a n/a	n/a n/a	\$60.0 \$76.0	n/a n/a	n/a n/a
Dassault	Revalize	Dec-11	T-Splines	Surface modelling software	n/a	n/a	n/a	n/a	n/a
		Dec-11	Horizontal Systems	BIM platform	n/a	n/a	n/a	n/a	n/a
		Nov-11	GRIP Entertainment	Artificial intelligence games	n/a	n/a	n/a	n/a	n/a
ECi	Rockwell	Oct-11	Micro Application	CAD/CAM for fabrication & construction High-end visualization	n/a	n/a n/a	\$23.0 n/a	n/a n/a	n/a
ECI	Automation	Aug-11 Aug-11	Numenus Darwin Dimensions	3D character modelling	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Aug-11	Instructables	User-generated DIY content	n/a	n/a	\$30.2	n/a	n/a
		Jul-11	Code Mine	Cloud-based image tools and utilities	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	May-11	Datastay	PLM software	n/a	n/a	n/a	n/a	n/a
		Mar-11 Mar-11	Blue Ridge Numerics Scaleform	Fluid dynamics and simulation UI software for consumer electronics	n/a n/a	n/a n/a	\$39.0 \$36.0	n/a n/a	n/a n/a
				of software for consumer electronics					
Epicor	Sandvik	AVEVA (LO						ue Since 2011: \$	
		Mar-21	OSIsoft	Data mgmt. for industrial operations	\$488.5	\$111.3	\$5,000.0	10.24x	n/m
		Mar-20 May-19	MES Enter ErrorSolver Maxgrip (Software Assets)	Production accounting software Asset management software solutions	n/a n/a	n/a n/a	n/a \$28.2	n/a n/a	n/a n/a
Forterro	SAP	Sep-17	Schneider Electric Software	Industrial software merger	\$575.7	\$118.9	\$2,307.1	4.01x	19.4x
Torterio	3AI	Jun-15	FabTrol Systems	Steel fabrication management software	n/a	n/a	\$6.5	n/a	n/a
		Jan-15	8over8	Asset risk management software	\$10.2	(\$8.0)	\$40.8	4.02x	n/m
65 / 65 B: :: I		Dec-12 May-12	Global Majic Software Bocad Service International	3D interactive visualization applications Building information modelling software	n/a n/a	n/a n/a	n/a \$22.5	n/a n/a	n/a n/a
GE / GE Digital	Seeq	Oct-11	Z+F UK	Laser scanning software	n/a	n/a	\$22.5 \$9.9	n/a	n/a
		Dassault Sy	vstemes (PAR: DSY)				M&A Deal Val		
			, ,			tar Bisciosea	mar r Bear var	ac 5111cc 2011. q	
Hexagon	Siemens	Oct-22 Sep-22	StyleSage Diota	Image recognition and retail analytics platform Augmented reality technologies designed to materialize data	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Jul-22	Wave Six	Noise simulation and vibration analysis software	n/a	n/a	n/a	n/a	n/a
		Jul-21	Iterop	Cloud BPM software	n/a	n/a	n/a	n/a	n/a
Xon	netry	Nov-20	NuoDB	Cloud-native distributed SQL database	\$6.0	n/a	n/a	n/a	n/a
		Jul-20 Aug-21	Proxem AllStripes (M)	Al-based semantic processing software Drug research and tracking platform	n/a n/a	n/a n/a	n/a \$50.0	n/a n/a	n/a n/a
		Oct-20	MC10 (M)	Conformal electronics for digital healthcare services	n/a n/a	n/a n/a	\$50.0 n/a	n/a n/a	n/a n/a
		Jun-19	Medidata	Clinical development SaaS	\$661.0	\$85.4	\$5,763.8	8.72x	n/m
		Feb-19	Elecwork (Assets)	Electrical design, product line & IP assets	n/a	n/a	n/a	n/a	n/a

Buyer-Specific Acquisitions: 2011-Present

ABB	Honeywell	(\$ in Million	ns)	Target Overview			Trans Deal	Transaction Statistics Deal Deal Value / Estimated		
ADD	Honeyweii	Date	Target	Description	Estimated Revenue E	BITDA _	Value	Revenue	EBITDA	
		Dassault Sy	vstemes (PAR: DSY)		То	tal Disclosed	M&A Deal Val	ue Since 2011:	\$9.0 Billion	
Aptean	IFS / Acumatica	Jan-19	IQMS	Manufacturing ERP software & SaaS	\$56.0	n/a	\$425.0	7.59x	n/a	
		Jan-19	Argoism	System requirements validation software	n/a	n/a	n/a	n/a	n/a	
		Dec-19	COSMOlogic	Computational chemistry software	n/a	n/a	n/a	n/a	n/a	
AspenTech	Infor	Jul-18 Jun-18	Centric Software No Magic	PLM software for operations management BPM software & SaaS	n/a n/a	n/a n/a	\$228.1 n/a	n/a n/a	n/a n/a	
		Nov-17	Exa Corporation	Simulation & engineering software & SaaS	\$73.0	\$1.5	\$400.0	5.48x	n/m	
		Jun-17	Outscale	Provider of laaS	n/a	n/a	n/a	n/a	n/a	
Autodesk	Oracle	Jun-17	AITAC	Marine and offshore engineering software	n/a	n/a	n/a	n/a	n/a	
Autouesk	Oracle	Dec-16	Next Limit Dynamics CST	Graphics simulation software asset	n/a	n/a	n/a	n/a	n/a	
		Jul-16 Jun-16	Ortems	Electromagnetic field simulation software Manufacturing planning software	\$47.0 n/a	n/a n/a	\$243.7 n/a	5.18x n/a	n/a n/a	
	5.7.6	Apr-16	3DPLM Software Solutions	Software development & implementation	n/a	n/a	n/a	n/a	n/a	
Aveva	PTC	Apr-15	Modelon	CAD & simulation software	n/a	n/a	n/a	n/a	n/a	
		Jul-14	Quitiq	Supply planning & optimization software	\$96.0	n/a	\$337.0	3.51x	n/a	
		Jul-14 Jan-14	SIMPACK Accelrys	Simulation software provider Scientific PLM software	n/a \$166.0	n/a n/a	n/a \$750.0	n/a 4.52x	n/a n/a	
Dassault	Revalize	Jan-14	Real time Technology	3D visualization technology	n/a	n/a	\$245.4	4.32x n/a	n/a	
		Oct-13	Inceptra	Horizontal PLM software	n/a	n/a	n/a	n/a	n/a	
		Sep-13	Safety Technology	Supplier of safety training and equipment	n/a	n/a	\$1.0	n/a	n/a	
ECi	Rockwell	Jul-13 Jul-13	SFE	CAE-driven development software	n/a	n/a	n/a \$205.0	n/a	n/a	
Automation	Automation	Apr-13	Apriso Archividéo	Manufacturing operations platform Production of 3D images for construction	n/a \$1.3	n/a n/a	\$205.0 n/a	n/a n/a	n/a n/a	
		Apr-13	Fe-Design	Simulation and automation software	n/a	n/a	n/a	n/a	n/a	
		Apr-13	Simpoe	Injection-molding simulation software	n/a	n/a	n/a	n/a	n/a	
Emerson	Roper / Deltek	Jan-13	SquareClock	Provides 3D space planning solutions	\$2.7	n/a	n/a	n/a	n/a	
		Dec-12 Jul-12	Tuscany Design Automation Dassault Systèmes GEOVIA	Engineering software for circuit design Supplier of mining productivity solutions	n/a n/a	n/a n/a	n/a \$354.9	n/a n/a	n/a n/a	
		Feb-12	Netvibes	Dashboard publishing platform	\$2.8	(\$2.5)	n/a	n/a	n/a	
Epicor	Sandvik	Oct-11	Elsys International	Collaborative management software	\$0.7	(\$0.2)	n/a	n/a	n/a	
		Oct-11	Simulayt	Draping simulation technology services	\$1.1	\$3.0	n/a	n/a	n/a	
		Apr-11	Enginuity PLM	R&D software for chemical companies	n/a	n/a	n/a \$36.5	n/a	n/a	
Forterro	SAP	Mar-11	Intercim	Operations management software	n/a	n/a		n/a	n/a	
		ECi				Total Di		Deal Value Sinc		
		Oct-22	ES Tech Group	eCommerce software with marketing and catalog features	n/a	n/a	n/a	n/a	n/a	
	Coop	Aug-22 Aug-22	Lojic Data Inventions	Business management software catering to the manufacturing Business analytics platform improving the productivity of machines	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
GE / GE Digital	Seeq	Oct-21	MyProduction	Cloud-based material and management tools	n/a	n/a	n/a	n/a	n/a	
		Nov-21	INseARCH Interactive	2D and 3D visualization software	n/a	n/a	n/a	n/a	n/a	
		Oct-21	eCommonSense		n/a	n/a	n/a	n/a	n/a	
Hexagon	Siemens	Sep-21 Nov-20	Deacom Shoptech Industrial Software	ERP for process and batch manufacturers ERP shop management software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
		Oct-20	Bolt Software Technology	Cloud-based construction business management solution	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
		Sep-20	ThermoGRID	Cloud-based field service software	n/a	n/a	n/a	n/a	n/a	
Xom	netry	Jun-20	Prosperity	Lumber and building materials software	n/a	n/a	n/a	n/a	n/a	
7,6111		May-20 Aug-19	BuildTools Trivest Software Group	Web-based construction management Software for SME manufacturers	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
		Jul-19	Pacsoft	Inventory management	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
		Dec-18	Lasso Data Systems	Cloud-based CRM applications	n/a	n/a	n/a	n/a	n/a	
		Nov-18	Print Audit	Device and print management software	n/a	n/a	n/a	n/a	n/a	

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Million	is)	Target Overview			Trans	action Statisti	cs _
ABB	Honeywell				Estimated		Deal	Deal Value /	Estimated
		Date	Target	Description	Revenue E	BITDA _	Value	Revenue	EBITDA
		ECi				Total Di	sclosed M&A [Deal Value Since	e 2011: n/a
Aptean	IFS / Acumatica	Oct-18	Office Document consulting	Developer of sales automation software	n/a	n/a	n/a	n/a	n/a
		Sep-18	KnowledgeSync	Business Activity Monitoring software	n/a	n/a	n/a	n/a	n/a
		Jan-18	PrintFleet	Print management services	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Aug-17	Exact Group (Assets)	Manufacturing software assets	n/a	n/a	n/a	n/a	n/a
7.500.1.001.		Mar-17 Aug-15	Mark Systems JumpTrack Proof Of Delivery	Home builder ERP software Proof of delivery systems	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Apr-15	Naverisk	Business management systems software	n/a	n/a	n/a	n/a	n/a
Autodook	Oracla	Jan-15	ECi Spruce Computer Systems	End-to-end management software	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle	Jun-13	Red Cheetah Software	Business operations software	n/a	n/a	n/a	n/a	n/a
		Apr-12	Bluesky System Solutions	Computer software and IT service provider	n/a	n/a	n/a	n/a	n/a
		Emerson (N	YS: EMR)		Tota	al Disclosed N	48A Deal Valu	e Since 2011: \$	15.1 Billion
Aveva	PTC	Jun-22	Fluxa	Process and knowledge management software	n/a	n/a	n/a	n/a	n/a
		May-22	Aspen Technology	Software solutions that optimize asset design and operations	\$955.6	\$315.0	\$6,000.0	6.28x	19.0x
		Dec-21 Nov-20	Mita-Teknik	Wind turbine control automation systems for various industries Liquid desiccant air conditioning system	n/a n/a	n/a n/a	n/a	n/a n/a	n/a
Dassault	Revalize	Oct-20	7AC Technologies Open Systems International	Grid automation software for utilities	n/a \$170.0	n/a \$55.0	n/a \$1,600.0	n/a 9.41x	n/a 29.1x
Dassaare	revalize	Oct-20	Progea	Analytics, visualization, IIoT technologies	n/a	n/a	91,000.0 n/a	n/a	n/a
		Aug-20	inmation Software	Industrial information management software	n/a	n/a	n/a	n/a	n/a
F.G.	Rockwell	Feb-20	American Governer Company	Hydroelectric service provider	n/a	n/a	n/a	n/a	n/a
ECi	Automation	Nov-19	Verdant Environmental Tech.	Energy management manufacturing systems	n/a	n/a	n/a	n/a	n/a
	Automation	Nov-19	Spence and Nicholson	Steam regulators and traps	n/a	\$7.0	\$85.4	n/a	12.2x
		Aug-19 May-19	Zedi (Assets) Bioproduction Group	O&G SCADA platform Biomanufacturing analytics software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Emerson	Roper / Deltek	Apr-19	Integration Objectives	Analytics application software solutions	n/a	n/a	n/a	n/a	n/a
2111613611	rioper, Derick	Oct-18	GE Intelligent Platforms	Logic controller technologies	\$210.0	n/a	n/a	n/a	n/a
		Oct-18	HTE Engineering Services	Special purpose heat staking equipment	n/a	n/a	n/a	n/a	n/a
	6 1 1	Jul-18	Aventics	Pneumatic component manufacturer	\$425.0	\$51.3	\$615.1	1.45x	12.0x
Epicor	Sandvik	Jul-18	Textron (Assets)	Electrical / utility tools and test equipment	n/a	\$67.5	\$810.0	n/a	12.0x
		Jan-18 Jan-18	ProSys Cooper-Atkins	Global process control consulting services Cloud-based temperature management	n/a n/a	n/a n/a	n/a \$247.0	n/a n/a	n/a n/a
		Dec-17	Paradigm	Oil & gas E&P software	\$140.0	\$39.2	\$510.0	3.64x	13.0x
Forterro	SAP	Oct-17	GeoFields	O&G pipeline data management software	n/a	n/a	n/a	n/a	n/a
1 31 (311 3	37 (1	May-17	MYNAH Technologies	Dynamic simulation software	n/a	n/a	n/a	n/a	n/a
		Apr-17	Pentair (Assets)	Slumping valves and controls machinery	\$1,800.0	n/a	\$3,150.0	1.75x	n/a
CF / CF Divit	Cara	Nov-16 Oct-16	FMC Technologies (Assets) Permasense	Chemical blending systems Corrosion and erosion monitoring systems	n/a \$7.9	n/a (\$0.6)	n/a \$50.3	n/a 6.39x	n/a n/m
GE / GE Digital	Seeq	Aug-16	Locus Traxx Technologies	Shipment tracking software	n/a	n/a	n/a	n/a	n/a
		Aug-16	PakSense	Perishable goods distribution sensors	n/a	n/a	n/a	n/a	n/a
		Dec-15	Specktronix	Gas detector manufacture	n/a	n/a	\$94.8	n/a	n/a
Hexagon	Siemens	Oct-15	IntelliSAW	Smart grid wireless sensor system	n/a	n/a	\$5.0	n/a	n/a
		Sep-15	Spectrex	Flame & gas detector mfg.	n/a	n/a	n/a	n/a	n/a
		Jul-15 Jun-15	Yggdrasil ESI	O&G production optimization software Pipeline support services	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
	and the second	Dec-14	Cascade Technologies (Assets)	Gas emission monitoring systems	n/a	n/a	n/a	n/a	n/a
Xom	letry	Nov-14	Paine Electronics	Pressure transducer manufacturer	n/a	n/a	n/a	n/a	n/a
		Jul-14	Valvulas	Automation control products	n/a	n/a	n/a	n/a	n/a
		May-14	Management Resources Group	Engineering and maintenance services	n/a	n/a	n/a	n/a	n/a
		Jan-14	EGS (Minority Stake)	Industrial electrical products manufacturer	\$500.0	n/a	\$1,283.1	2.57x	n/a
		Dec-13	APM Automation Solutions	Level measurement instrumentation	n/a	n/a	n/a	n/a	n/a

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Million	ns)	Target Overview			Trans	saction Statistic	·s
ABB	Honeywell				Estimated		Deal	Deal Value / I	Estimated
		Date	Target	Description	Revenue EB	ITDA _	Value	Revenue	EBITDA
		Emerson (N	IYS: EMR)		Total	Disclosed N	√8A Deal Valu	e Since 2011: \$1	5.1 Billion
Aptean	IFS / Acumatica	Dec-13	Advanced Protection Technology	Industrial surge protector mfg.	n/a	n/a	n/a	n/a	n/a
		Oct-13	Virgo Valves & Controls	Automation systems manufacturer	\$250.0	n/a	\$450.0	1.80x	n/a
		Oct-13	Enardo	Vapor control equipment	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Jun-13	Groveley	Fire and gas detection equipment	n/a	n/a	n/a	n/a	n/a
risperireeri	111101	Apr-12 Mar-12	Johnson Controls Avtron Loadbank	Marine container and boiler mfg. Power measurement device provider	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Apr-11	Emerson Process Chennai	Industrial valves mfg.	n/a	n/a	\$133.6	n/a	n/a
		Jan-11	Turbine Control	Turbine control engineering services	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle							ue Since 2011: \$	
		Epicor					M&A Deal Val		1.2 Billion
		Nov-22	Evron Computer System	Professional services software intended to optimize business	n/a	n/a	n/a	n/a	n/a
Aveva	PTC	Oct-22	eFlex Systems	Manufacturing execution system (MES) technology platform	n/a	n/a	n/a	n/a	n/a
Aveva	PIC	Jun-22	Data Interchange	Electronic data interchange service	n/a	n/a	n/a	n/a	n/a
		Mar-22 Jan-22	Grow	No-code full-stack business intelligence (BI) platform	n/a	n/a	n/a	n/a	n/a
		Oct-21	JMO Systems CBC Computer Systems	Enterprise warehouse management software Point of sale (POS) software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Dassault Revalize	Revalize	ize May-21	KBMax	CPQ and visualization software	\$3.3	n/a	n/a	n/a	n/a
Bassaare	revanze	Sep-19	1 EDI Source	Electronic data interchange services	n/a	n/a	n/a	n/a	n/a
		Jul-19	Majure Data	Warehouse management systems	n/a	n/a	n/a	n/a	n/a
	Rockwell	Jun-19	MechanicNet	Customer relationship management	n/a	n/a	n/a	n/a	n/a
F(.)		Jan-17	docSTAR	Document management	n/a	n/a	n/a	n/a	n/a
	Automation	Jan-16	Dot Net It	Enterprise IT services	n/a	n/a	n/a	n/a	n/a
		Feb-15	Insite Software	Manufacturing commerce tools	n/a	n/a	n/a	n/a	n/a
_	D (D)	Jan-15	ShopVisible	Order management and digital commerce	n/a	n/a	\$25.0	n/a	n/a
Emerson	Roper / Deltek	Nov-14	QuantiSense	Retail analytics	n/a	n/a	n/a	n/a	n/a
		Oct-12	Solarsoft Business	ERP for midsized mfg. & distribution	\$90.0	n/a	\$155.0	1.72x	n/a
		May-12 May-12	Cogita Holdings Internet AutoParts	ERP and operations management Auto replacement parts eCommerce	n/a n/a	n/a n/a	n/a \$4.4	n/a n/a	n/a n/a
Epicor	Sandvik	May-12	Activant Solutions	Business management and SCM	n/a	n/a	\$1,020.0	n/a	n/a
грісоі	Saliuvik		Activate solutions	business management and servi	11/4				
		Forterro				Total Di	sclosed M&A [Deal Value Since	2011: n/a
		Jul-22	Orderwise	Software intended for a fully integrated ERP software system	n/a	n/a	n/a	n/a	n/a
Forterro	SAP	Dec-21	myfactory	Holistic business software for small and medium-sized companies	n/a	n/a	n/a	n/a	n/a
		Jul-21	123 Insight	MRP and ERP manufacturing software	\$9.6	n/a	n/a	n/a	n/a
		Jun-19 Mar-18	Abas Software Silog	Assemble-to-Order ERP application France-based ERP platform	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
CF / CF Divital	Coope	Jun-17	Clip Industrie	France-based ERP platform French VSE & SMB ERP platform	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
GE / GE Digital	Seeq	Feb-17	BPSC	Poland-based ERP platform	n/a	n/a	n/a	n/a	n/a
		May-16	SYLOB	France-based industrial SME ERP platform	n/a	n/a	n/a	n/a	n/a
		Apr-14	SolvAxis	Switzerland-based ERP solutions	n/a	n/a	n/a	n/a	n/a
Hexagon	Siemens	Dec-13	Infocube	Jeeves reseller and implementation partner	n/a	n/a	n/a	n/a	n/a
Tiexagon	Siemens	General Ele	ctric (NYS: GE)		Total D	isclosed M	&A Deal Value	Since 2011: \$10	6.7 Billion
		Jul-22	Nexus Controls	Industrial automation controls system and safety system solutions	n/a	n/a	n/a	n/a	n/a
		Dec-21	Opus One Solutions	Real-time energy management software	n/a	n/a	\$70.0	n/a	n/a
Xon	netry	Sep-21	BK Medical	Advanced surgical visualization	n/a	n/a	\$1,450.0	n/a	n/a
		Aug-20	Frontier Wind	Blade technology for wind turbines reducing the cost of energy	n/a	n/a	n/a	n/a	n/a
		Sep-18	Alstom	Provider of renewable energy services	n/a	n/a	\$3,020.0	n/a	n/a
		Dec-17	YPF Energia Electrica	Electricity generation business	n/a	n/a	n/a	n/a	n/a
		Nov-17	Geonx	Virtual manufacturing platform	n/a	n/a	n/a	n/a	n/a

Buyer-Specific Acquisitions: 2011-Present

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ABB	Honeywell	(\$ in Millio	ns)	Target Overview	Estimate		<u>Tran</u> Deal	saction Statist	Estimated
7100	rioneywen	Date	Target	Description		EBITDA	Value	Revenue	EBITDA
	150 / 4	General Ele	ectric (NYS: GE)		Tota	l Disclosed N	1&A Deal Valu	e Since 2011: \$	106.7 Billion
Aptean	IFS / Acumatica	Nov-17 Jul-17	Markbygden ETT IQP	Swedish wind farm project Code-free application development tool	n/a n/a	n/a n/a	\$352.0 \$40.0	n/a n/a	n/a n/a
AspenTech	Infor	Jul-17 Apr-17 Apr-17 Feb-17	Baker Hughes LM Wind Power Lokomotiv Kurastyru Nurego	Oilfield products and services Wind turbine industry mfg. Manufacturer of locomotives Monetization and business operations tool	\$28,000.0 \$1,086.4 n/a n/a	\$5,040.0 \$192.5 n/a n/a	\$55,440.0 \$1,650.0 n/a n/a	1.98x 1.52x n/a n/a	11.0x 8.6x n/a n/a
Autodesk	Oracle	Jan-17 Dec-16 Nov-16 Nov-16	ServiceMax Concept Laser Bit Stew Systems Alstom Bharat Forge	Field-service management platform 3D metal printing technology Industrial operations management Manufacturer of turbines and generators	\$60.0 n/a \$15.0 n/a	n/a \$27.7 n/a n/a	\$915.0 \$762.8 \$153.0 n/a	15.25x n/a 10.20x n/a	n/a 27.6x n/a n/a
Aveva	PTC	Sep-16 Sep-16 Sep-16 Aug-16	Meridium Arcam SLM Solutions ShipXpress	Asset performance management Metal-based additive mfg. technology Metal-based additive mfg. technology Rail and shipping SCM software	n/a \$78.0 \$74.0 n/a	n/a \$0.2 n/a n/a	\$366.3 \$685.0 \$762.0 n/a	n/a 8.78x 10.30x n/a	n/a n/m n/a n/a
Dassault	Revalize	Apr-16 Apr-16 Dec-15 Nov-15	NeuCo Metem Alstom Bharat Forge Alstom (Power & Grid)	Plant optimization software Manufacturer of alloy components Manufacturer of turbines and generators Thermal, renewable and grid business	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a \$140.0 n/a \$10,300.0	n/a n/a n/a n/a	n/a n/a n/a n/a
ECi	Rockwell Automation	Jun-15 Mar-15 Jun-14 May-14	Alstom India Oceaneering Int. Cameron Int. Wurldtech Security	Power services Subsea electric actuator product line Flow equipment products Software security products	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a \$550.0 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
Emerson	Roper / Deltek	Apr-14 Mar-14 Feb-14 Jan-14	Medical Universal Ther. Fisher (Assets) Allen Gearing Finnamore	Manufacturer of medical imaging systems Life sciences operations High performance gearboxes Health care consultancy services	\$5.3 \$250.0 \$35.4 \$16.4	\$0.1 n/a \$5.8 \$0.3	n/a \$1,060.0 n/a n/a	n/a 4.24x n/a n/a	n/a n/a n/a n/a
Epicor	Sandvik	Dec-13 Aug-13 Jul-13 Jun-13	Gestamp Aguascali. GE Avio Lufkin Industries Salof Companies	Manufacturer of metal components Civil and military aeronautics components Artificial lift and parts Small scale cryogenic liquefaction plants	n/a \$2,710.2 \$1,319.6 n/a	n/a n/a \$191.3 n/a	\$14.2 \$4,330.0 \$3,236.9 n/a	n/a 1.60x 2.45x n/a	n/a n/a 16.9x n/a
Forterro	SAP	Jan-13 Nov-12 Oct-12 Aug-12	BLS Energieplan Albeo Technologies Metlife (Assets) Naxys	Energy development and consulting Manufacturer of led lighting products Portfolio of bank's assets and deposits Manufacturer of oil and gas equipment	n/a \$10.6 n/a n/a	n/a n/a n/a n/a	n/a n/a \$7,000.0 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
GE / GE Digital	Seeq	Aug-12 Aug-12 May-12 Apr-12 Jan-12	Prairie Rose Wind Presens Industrea Chisholm View Wind RMI	Utility-scale wind-energy project Pressure-sensor devices Mining products and services Owner and operator of a wind farm Rail and shipper eCommerce	n/a n/a \$370.0 n/a \$45.0	n/a n/a \$116.8 n/a n/a	n/a n/a \$678.4 \$375.0 n/a	n/a n/a 1.83x n/a n/a	n/a n/a 5.8x n/a n/a
Hexagon	Siemens	Sep-11 Apr-11 Mar-11 Feb-11	Lightech Electronic John Wood Group Lineage Power Wellstream Holdings	Consumer & commercial lighting products Support services for the O&G industry Power supply products Pipeline systems for the oil & gas industry	n/a \$1,478.0 \$450.0 n/a	n/a \$259.1 n/a \$2.0	\$18.7 \$2,779.1 \$525.0 \$1,275.1	n/a n/a 1.88x 1.17x n/a	n/a n/a 10.7x n/a n/m
Xon	netry	Feb-11 Jan-11 Jan-11	Dresser NBCUniversal Remote Energy Mon.	Engineered infrastructure products Media and entertainment company Manufacturer of energy measuring devices	n/a \$20,234.0 n/a	n/a n/a n/a	\$3,000.0 \$5,800.0 n/a	n/a 0.29x n/a	n/a n/a n/a
			STO: HEXA B)		To	otal Disclosed	M&A Deal Va	lue Since 2011:	\$7.7 Billion
		Oct-22 Sep-22	Avvir iConstruct	Automated construction verification and progress monitoring Building information modeling (BIM) software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a

Buyer-Specific Acquisitions: 2011-Present

4.00		(\$ in Millio	ns)	Target Overview				saction Statisti	
ABB	Honeywell	Date	Target	Description	Estimate Revenue	d EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Hexagon (STO: HEXA B)		T	ntal Disclosed	M&A Deal Val	ue Since 2011:	\$7.7 Billion
Aptean	IFS / Acumatica	Apr-22	ETQ	Quality, EHS, Food Safety and Compliance management software	\$75.0	\$48.8	\$1,200.0	16.00x	24.6x
		Feb-22	Minnovare	Industrial drilling technology	n/a	n/a	n/a	n/a	n/a
		Oct-21	Hexagon EAM Business	Enterprise asset management software	n/a	n/a	\$2,850.0	n/a	n/a
AspenTech	Infor	Sep-21	Jovix	Material tracking software	n/a	n/a	n/a	n/a	n/a
7.000.1		Jul-21 Jul-21	Immersal Infor (EAM business unit)	3D mapping and visual infotainment platform Industrial EAM software	n/a \$184.0	n/a \$74.0	n/a \$2,750.0	n/a 14.95x	n/a n/m
		Apr-21	CADLM	CAE, AI, and ML design software platform	n/a	∌/4.0 n/a	\$2,730.0 n/a	n/a	n/a
		Jan-21	DP Technology	CAM software for CNC machine tools	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle	Dec-20	OxBlue	Construction streaming camera systems	\$45.2	n/a	n/a	n/a	n/a
		Nov-20	PAS Global	Cybersecurity, inventory and configuration management	\$40.7	n/a	n/a	n/a	n/a
		Jul-20	TACTICAWARE	LiDAR 3D surveillance software	\$2.8	n/a	n/a	n/a	n/a
A. (0) (0	DTC	Mar-20	CAEFatigue	Mechanical fatigue simulation	n/a	n/a	n/a	n/a	n/a
Aveva	PTC	Feb-20	Romax Technology	Computer aided engineering software	Conf.	Conf.	Conf.	Conf.	Conf.
		Jan-20	COWI (Assets)	Mapping and geospatial services	n/a	n/a	n/a	n/a	n/a
		Jan-20 Jan-20	Geopraevent Blast Movement Technology (BMT)	Sensors and measuring technologies Blast monitoring and analysis for mining	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Dassault	Revalize	Jan-20 Jan-20	Volume Graphics	Industrial tomography software	n/a	n/a	n/a	n/a	n/a
Bassaare	revanze	Jun-19	Melown Technologies	Web-based 3D visualization software	n/a	n/a	n/a	n/a	n/a
		Jun-19	AMendate	Additive manufacturing design	n/a	n/a	n/a	n/a	n/a
	Rockwell	Feb-19	Thermopylae	Govt. & defense geospatial applications	\$20.0	n/a	n/a	n/a	n/a
ECi		Jan-19	j5 International	Operational risk management software	n/a	n/a	\$16.6	n/a	n/a
	Automation	Jan-19	Etalon	Machine / equipment calibration solutions	n/a	n/a	n/a	n/a	n/a
		Oct-18	Bricsys	CAD software for AEC market	\$14.7	\$1.5	n/a	n/a	n/a
E	Danas / Daltala	Sep-18	External-Array Software	CMM manufacturing software	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	Jun-18	Geocloud (Assets)	Ski slope infrastructure measurement	n/a	n/a	n/a	n/a	n/a
		Jun-18 Jun-18	SPRING Technologies AutonomouStuff	Machine tool simulation software Integrated autonomous vehicle solutions	\$9.5 \$45.0	\$0.4 n/a	n/a n/a	n/a n/a	n/a n/a
		May-18	Nextsense	Non-contact profile measurement	\$13.5	n/a	n/a	n/a	n/a
Epicor	Sandvik	Apr-18	Licom Systems	Alphacam CAM software distributor	n/a	n/a	n/a	n/a	n/a
Ерісоі	Sallavik	Apr-18	ProCAM Group	Italian distributor of Vero Software	n/a	n/a	n/a	n/a	n/a
		Mar-18	AGTEK	Construction project modelling software	n/a	n/a	n/a	n/a	n/a
		Jan-18	Plant Design Solutions	CADWorx & Analysis software	n/a	n/a	n/a	n/a	n/a
Forterro	SAP	Jan-18	Industrial Business Solutions	Digital project completion	n/a	n/a	n/a	n/a	n/a
		Oct-17	Luciad	Geospatial information visualization	\$21.7	n/a	n/a	n/a	n/a
		Jun-17	InfraMeasure	Laser-based rail measurement system	n/a	n/a	n/a	n/a	n/a
GE / GE D: :		Jun-17	DST Computer Services	Pipe stress analysis software	n/a	n/a	n/a	n/a	n/a
GE / GE Digital	Seeq	Jun-17 May-17	FASys Industrie VIRES	DIN 4000/4003 tool & resource management Driver-assisted & autonomous simulation	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		May-17	Catavolt	Mobile app development	n/a	n/a	n/a	n/a	n/a
		Apr-17	MSC Software	Computer aided engineering software	\$230.0	n/a	\$834.0	3.63x	n/a
Hexagon	Siemens	Jan-17	MiPlan Consulting	Mobile mine management software	n/a	n/a	n/a	n/a	n/a
- Hexagon	- Siernens	Sep-16	GISquadrat	Location-based geospatial software	n/a	n/a	n/a	n/a	n/a
		Aug-16	Apodius	Composite measurement solutions	n/a	n/a	n/a	n/a	n/a
		Aug-16	Multivista	Construction visual documentation services	n/a	n/a	n/a	n/a	n/a
Xon	netry	Aug-16	P3D Systems	Laser scanning & 3D modelling software	n/a	n/a	n/a	n/a	n/a
7.611		Jun-16	Ingegneria dei Sistemi (Assets)	Structural health monitoring solutions	\$20.0	n/a	n/a	n/a	n/a
		Jun-16 Mar-16	Nestix	Production control software	n/a \$21.1	n/a \$1.8	n/a n/a	n/a n/a	n/a
		Mar-16	AICON 3D Systems Forming Technologies (FTI)	Industrial 3D optical measuring systems Sheet metal forming mfg. software	\$21.1 n/a	\$1.8 n/a	n/a n/a	n/a n/a	n/a n/a
		Mar-16	M&P Survey Equipment	Surveying equipment & construction lasers	n/a	n/a	n/a	n/a	n/a
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Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millions)		Target Overview			Trans	saction Statisti	ics
ABB	Honeywell	Date	Target	Description	Estimate Revenue	ed EBITDA	Deal Value	Deal Value / Revenue	
		Hexagon (STC	O: HEXA B)			otal Disclosed	M&A Deal Val	ue Since 2011:	\$7.7 Billion
Aptean	IFS / Acumatica	Feb-16 !	Sigma Space SCCS	Optoelectronic aerospace instrumentation Provider of survey equipment for Leica	\$25.0 \$15.0	n/a \$7.8	n/a n/a	n/a n/a	n/a n/a
AspenTech	Infor	Jul-14 Jul-14	Q-Das Vero Software Geodata Diffusion North West Geomatics	Statistical process control (SPC) services CAD/CAM software Real time kinematic correction services Digital remote sensing/aerial photography	n/a \$106.2 \$4.0 \$13.5	n/a n/a \$1.8 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
Autodesk	Oracle	Jun-14 l Apr-14 d Mar-14	iLab Sistemas Mintec Arvus Tecnologia Veripos	Planning/optimization for agro businesses Software services for mining industry Software services for agro businesses Satellite position software	n/a n/a n/a \$44.0	n/a n/a n/a \$15.8	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
Aveva	PTC	Feb-14 / Dec-13 / Oct-13	SAFEmine Aibotix Pixis Devex Tecnologia e Sistemas	Traffic safety products and services Manufacturer of flying robots Provider of digital engineering services Mine-management software services	\$17.2 n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
Dassault	Revalize	May-13 I Apr-13 Jan-13	Geosoft Navgeokom Manfra & Companhia LISTECH	Software for cartography/photogrammetry Surveying and mapping products Topography software systems Developer of construction software	n/a n/a \$9.2 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
ECi	Rockwell Automation	Dec-12 Jan-12	New River Kinematics GTA Geoinformatik Microsurvey Software Sisgraph	Metrology application software Provider of 3D city mapping technologies Surveying and mapping software Engineering and geospatial software	\$13.3 n/a \$2.6 \$14.3	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a
		Honeywell (N.	AS: HON)		To	tal Disclosed N	√&A Deal Valu	e Since 2011: \$	13.5 Billion
Emerson	Roper / Deltek	Jan-22	Rhino Health US Digital Designs Performix	Artifical intelligence healthcare data platform Mission-critical systems reducing dispatch call-processing time Manufacturing execution software	n/a n/a n/a	n/a n/a n/a	n/a \$185.0 n/a	n/a n/a n/a	n/a n/a n/a
Epicor	Sandvik	Jun-21 (Mar-21 !	Cambridge Quantum Computing Fiplex Communications Sparta Systems	Quantum computing software Public safety telecommunication applications Al-enabled life sciences SaaS QMS platform	n/a n/a n/a	n/a n/a n/a	\$300.0 n/a \$1,303.0	n/a n/a n/a	n/a n/a n/a
Forterro	SAP	Nov-20 Cot-20 Cot-20 I	Sine Trinity Mobility Ballard Unmanned Systems Rocky Research Rebellion Photonics	Visitor management software Urban digital transformation applications Unmanned vehicle fuel cell solutions Thermal and testing management products Hyperspectral imaging technology	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
GE / GE Digital	Seeq	Jul-19 Jun-19 Nov-18	TruTrak Flight Systems Theatro Transnorm FLUX (25%)	Light sport aircraft autopilot products Wearable communication device Warehouse conveyor solutions Warehouse management and supply chain	n/a n/a n/a \$153.4 n/a	n/a n/a n/a n/a n/a	n/a \$15.0 \$495.2 n/a	n/a n/a n/a 3.23x n/a	n/a n/a n/a n/a n/a
Hexagon	Siemens	Nov-17 : Aug-17 : Jun-17 :	Scame Sistemi Corsair Components NextNine Munters (Bid)	Provider of fire and gas safety systems PC component designer & manufacturer Industrial cyber security software Humidity control products and services	n/a n/a n/a \$631.3	n/a \$55.0 n/a n/a	n/a \$525.0 n/a \$1,084.9	n/a n/a n/a 1.72x	n/a 9.5x n/a n/a
Xon	netry	Apr-16 2 Mar-16 1 Mar-16 5 Feb-16 6 Jan-16 5	Intelligrated Xtralis Movilizer Videofied COM DEV SECAN Elster Group	Warehouse execution systems Technology for fire detection and gas leaks Cloud-based field service applications Wireless alarm system Space communications products Heat and cooling steam systems Metering and data communication	\$900.0 n/a n/a \$108.7 \$181.3 \$40.6 n/a	\$125.0 n/a n/a n/a \$10.4 n/a \$404.8	\$1,500.0 \$480.0 n/a \$123.0 \$345.6 n/a \$5,100.0	1.67x n/a n/a 1.13x 1.91x n/a	12.0x n/a n/a n/a n/m n/a 12.6x

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millio	ns)	Target Overview			Trans	saction Statist	ics
ABB	Honeywell	Date	Target	Description	Estimate Revenue E	d EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Honeywell	l (NAS: HON)		Tot	al Disclosed I	Λ&A Deal Valu	ıe Since 2011: \$	513.5 Billion
Aptean	IFS / Acumatica	Dec-15 Nov-15	Satcom1 Sigma Aldrich	On board communications software Laboratory research chemicals business	\$25.0 n/a	n/a n/a	n/a \$112.8	n/a n/a	n/a n/a
AspenTech	Infor	Sep-15 Mar-15 Dec-13 Jun-13	Aviaso Datamax O'Neil Deverill Black & Co. Infonet Services	Flight management systems Bar code and RFID labeling products Financial-advisory in the UK Voice and data communications services	n/a n/a \$0.7 \$801.0	n/a n/a (\$0.1) \$18.2	n/a \$185.0 \$1.6 \$513.1	n/a n/a 2.35x 0.64x	n/a n/a n/m 28.3x
Autodesk	Oracle	Jun-13 Feb-13 Oct-12 Jun-12	RAE Systems Saia-Burgess UOP Russell INNCOM International	Multi-sensor chemical and radiation Electrical parts and equipment Modular plant designer Energy-management software	\$107.0 \$94.2 n/a \$24.0	n/a n/a \$100.0 n/a	\$340.0 \$130.0 \$750.0 n/a	3.18x 1.38x n/a n/a	n/a n/a 7.5x n/a
Aveva	PTC	Jan-12 Sep-11 Aug-11	Fire Sentry Sunoco (Assets) IRIS Systems	Fire detection and control products Frankford Phenol Operations Flame monitoring products	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a
		Jul-22	Ultimo Software Solutions (IFS)		10	tal Disclosed	M&A Deal Vali	ue Since 2011: :	8.9 Million
Dassault	Revalize	Jan-22 Jul-21	Integrated Business Systems Customerville	Software designed for the functional management of business Information technology services intended for the real estate industry Customer experience platform	n/a n/a n/a \$24.5	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a	n/a n/a n/a
	Rockwell	Jun-21 Nov-20	Axios Systems Clevest Solutions	IT service and asset management software Workforce automation software	\$24.5 n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
ECi	Automation	Jan-20 Dec-19	Jaas (Acumatica) Astea International (IFS)	Cloud-based ERP platform provider	n/a	n/a	n/a	n/a	n/a
	Automation	Nov-17	WorkWave (IFS)	Management software solutions Scalable SaaS last-mile delivery software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
_		Aug-17	Field Service Mgt. (IFS)	Service management software services	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	Aug-17 Jan-17	mplSystems (IFS) Mxi Technologies (IFS)	Customer and field service technology Maintenance management software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Mar-16	MainIoT Software (IFS)	SaaS-based Enterprise Asset Management	\$5.5	\$1.4	\$8.9	1.60x	6.4x
		Jul-15	VisionWaves (IFS)	Management software systems.	n/a	n/a	n/a	n/a	n/a
Epicor	Sandvik	Dec-11	LatinIFS Tecnologia (IFS)	Distributor of application software	\$13.1	\$2.4	n/a	n/a	n/a
		Infor			To	otal Disclosed	M&A Deal Val	lue Since 2011:	\$2.5 Billion
	212	Oct-21	Lighthouse Systems	Manufacturing execution system (MES) software	n/a	n/a	n/a	n/a	n/a
Forterro	SAP	Jan-20 Apr-19	Intelligent InSites ReServe Interactives	Healthcare automation services Catering management software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Dec-18	Alfa-Beta Solutions	System integration services	n/a	n/a	n/a	n/a	n/a
		Sep-18	Vivonet	Cloud-based POS software	n/a	n/a	n/a	n/a	n/a
GE / GE Digital	Seeq	Jun-17	Birst	Networked business analytics	n/a	n/a	\$100.7	n/a	n/a
		Mar-17 Mar-17	Ciber (Infor Practice) Accentia Middle East	Infor consulting services & reseller ERP software	n/a n/a	n/a n/a	n/a \$18.0	n/a n/a	n/a n/a
		Jun-16	Predictix	Retail applications	n/a	n/a	n/a	n/a	n/a
Hexagon	Siemens	May-16	Merit Globe	Infor software consulting	n/a	n/a	n/a	n/a	n/a
Пехадоп	Siciliens	Aug-15	GT Nexus	Cloud-based global commerce platform	\$150.0	n/a	\$675.0	4.50x	n/a
		Apr-14 Jan-14	GRASP PeopleAnswers	Healthcare resource management Talent assessment	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
V		May-13	TDCI	Product configuration	n/a	n/a	n/a	n/a	n/a
Xon	netry	Apr-13	CERTPOINT	Corporate training & learning	n/a	n/a	\$26.5	n/a	n/a
		Dec-12	Orbis Global	Marketing resource management	n/a	n/a	n/a	n/a	n/a
		Aug-12	Laurier CIM Group	Wholesale distribution ERP	n/a	n/a	n/a	n/a	n/a
		Jun-12 Oct-11	EasyRMS ENXSuite	Hospitality industry revenue management Energy performance management	\$11.5 n/a	\$4.0 n/a	n/a n/a	n/a n/a	n/a n/a
		Jul-11	Lawson Software	Manufacturing & maintenance ERP	\$755.2	\$134.5	\$1,697.8	2.25x	12.6x
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Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millions)		Target Overview			Trans	saction Statistic	is
ABB	Honeywell				Estimated		Deal	Deal Value /	Estimated
		Date	Target	Description	Revenue E	BITDA _	Value	Revenue	EBITDA
		Oracle			Total Disc	closed M&A	Deal Value S	Since 2010: \$5	3.6 Billion
Aptean	IFS / Acumatica	Sep-22 F	OEX	Plugin interface software	n/a	n/a	n/a	n/a	n/a
		P	Cerner	Healthcare information technology solutions	\$5,765.0	\$1,315.0	\$23,300.0	4.04x	17.7x
			Adi Insights	Dynamic staff scheduling platform	n/a	n/a	n/a	n/a	n/a
A ava ava Ta ala	1.060.0	Jan-22 V	/erenia (NetSuite CPQ)	Product configurator streamlining quoting and reduce costs	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Dec-21 F	ederos	Artificial intelligence optimized assurance, analytics and automation	n/a	n/a	n/a	n/a	n/a
			GloriaFoood	Online ordering system intended to help restaurants	n/a	n/a	n/a	n/a	n/a
			arApp	e-commerce automation solution	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle		Nor1	Hospitality management platform	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle		ChatLabs	Marketing, e-commerce and data management services	n/a	n/a	n/a	n/a	n/a
			Sauce Video	Video content creation solutions	n/a	n/a	n/a	n/a	n/a
			.iveData Utilities ErowdTwist	Data solutions for utility companies	n/a	n/a	n/a	n/a	n/a
Aveva	PTC		Crowd I wist Sonantic	Cloud based customer loyalty platform	n/a	n/a	n/a	n/a	n/a
Aveva	110		Oxygen Systems (Brazil)	Speech driven communication software Provider of localization solutions in Brazil	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
			JoBalto	Clinical feasibility solutions					
			Гalari Networks	Wide area network technology	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Dassault	Revalize		DataFox	Company research platform	n/a	n/a	n/a	n/a	n/a
Dussaare	revalize		ridize	Customer training and on-boarding	n/a	n/a	n/a	n/a	n/a
			Datascience.com	Data science platform	n/a	n/a	n/a	n/a	n/a
	Rockwell		Grapeshot	Content placement optimization	\$30.6	\$4.2	\$400.0	13.07x	n/m
ECi			/ocado	Financial aid management platform	n/a	n/a	\$139.0	n/a	n/a
201	Automation		Sparkline Data	Provider of data warehouse platform	n/a	n/a	n/a	n/a	n/a
			Aconex	Construction document management	\$122.3	\$5.7	\$1,198.7	9.80x	n/m
			Moat	Marketing analytics platform	n/a	n/a	\$850.0	n/a	n/a
Emerson	Roper / Deltek		Vercker	Code deployment platform	n/a	n/a	n/a	n/a	n/a
	rioper, Dorton	Apr-17 V	Webtrends (Infinity)	Big data analytics	n/a	n/a	n/a	n/a	n/a
		Jan-17 A	Apiary	API documentation development	n/a	n/a	n/a	n/a	n/a
		Nov-16	Dyn	Internet performance management	\$100.0	n/a	\$650.0	6.50x	n/a
Epicor	Sandvik	Nov-16 N	NetSuite	ERP solutions for SMB	\$897.5	(\$55.6)	\$8,838.9	9.85x	n/m
			Palerra	Cloud security automation	n/a	n/a	n/a	n/a	n/a
			ogFire	Warehousing & in-store inventory platform	n/a	n/a	\$36.0	n/a	n/a
			Opower	Utilities customer engagement	\$152.0	(\$32.8)	\$471.2	3.10x	n/m
Forterro	SAP		「extura	Commercial construction collaboration	\$92.2	(\$5.4)	\$698.3	7.57x	n/m
			Crosswise (Assets)	Cross device data services	n/a	n/a	\$50.0	n/a	n/a
			Ravello Systems	Nested virtualization software	n/a	n/a	\$500.0	n/a	n/a
			AddThis	Social infrastructure and data platform	n/a	n/a	\$200.0	n/a	n/a
GE / GE Digital	Seeq		StackEngine	Docker management platform	n/a	n/a	n/a	n/a	n/a
3			Maxymiser	Multivariate testing & personalization	n/a	n/a	n/a	n/a	n/a
			CloudMonkey Mobile	Mobile software application testing	n/a \$125.0	n/a	n/a	n/a	n/a
			Datalogix	Online advertising data & technology		n/a	\$1,200.0	9.60x	n/a
Hexagon	Siemens		Front Porch Digital	Content storage management	n/a	n/a	n/a	n/a	n/a
			MICROS Systems TOA Technologies	Hospitality & retail management solutions Mobile workforce software	\$1,405.4 n/a	\$291.3 n/a	\$5,701.2 n/a	4.06x n/a	19.6x n/a
			BlueKai	Enterprise marketing data activation	n/a n/a	n/a n/a	n/a \$425.0	n/a 5.90x	n/a n/a
			iveLOOK	Customer collaboration tools	n/a	n/a	\$425.0 n/a	5.90x n/a	n/a
Xom	netry		GreenBytes	Desktop virtualization	n/a	n/a	n/a n/a	n/a	n/a
			Corente	Enterprise network security	n/a	n/a	n/a	n/a	n/a
			Responsys	Email marketing	\$194.3	\$13.8	\$1,500.0	7.72x	n/m
			Nirvanix	Internet storage services	n/a	n/a	91,300.0 n/a	n/a	n/a
			BigMachines	Product configuration & quoting	\$58.0	n/a	\$400.0	6.90x	n/a
			-	, ,					•

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millions)		Target Overview			Trans	saction Statisti	cs
ABB	Honeywell	Date	Target	Description	Estimated Revenue EE	BITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Oracle			Total Disc	osed M&A	A Deal Value 9	Since 2010: \$5	3 6 Billion
Aptean	IFS / Acumatica	Nov-13 Bitze	er Mobile	Enterprise mobility management	n/a	n/a	n/a	n/a	n/a
			npendium	Content marketing start-up	n/a	n/a	n/a	n/a	n/a
		Jun-13 Teke Mar-13 Acm	elec ne Packet	Network signaling applications Session delivery network	n/a \$274.4	n/a \$8.4	n/a \$1,741.5	n/a 6.35x	n/a n/m
AspenTech	Infor	Mar-13 Eloc		Marketing automation software	\$95.8	(\$8.6)	\$1,741.3	9.10x	n/m
			ibula	Cloud infrastructure software	n/a	n/a	\$100.0	n/a	n/a
		Dec-12 Data	aRaker	Utilities big data analytics	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle		antis	Project portfolio management	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle		ctMinds	Social talent sourcing	n/a	n/a	n/a	n/a	n/a
		Aug-12 Invo		Video campaign marketing Virtualized infrastructure services	n/a	n/a	n/a	n/a	n/a
		Jul-12 XSIG Jul-12 Skire	o Systems	Facility management solutions	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Aveva	PTC		ective Intent	Social media analytics	n/a	n/a	n/a	n/a	n/a
7 11 0 7 6.		May-12 Vitro		Social media marketing services	n/a	n/a	\$300.0	n/a	n/a
			arTrial	Clinical trials operations	n/a	n/a	n/a	n/a	n/a
		Apr-12 Tale	0	Talent management software	\$308.9	\$16.2	\$608.1	1.97x	n/m
Dassault	Revalize		ntNow Tech.	CRM and customer service software	\$216.2	\$22.3	\$1,500.0	6.94x	n/m
			eca Technologies	Information management software	n/a	n/a	\$1,080.0	n/a	n/a
	5 L II		head	Integrated middleware for manufacturers	n/a	n/a	n/a	n/a	n/a
ECi	Rockwell	Jul-11 InQi Jul-11 Kspl		Natural language search Linux update software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
LCI	Automation		ir Data Systems	Network storage systems	n/a	n/a	n/a	n/a	n/a
	71010111011		Vire Software	Web experience management	n/a	n/a	n/a	n/a	n/a
			anomic	Compliance screening software	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	Jan-11 Art	Technology Group	Cross-channel commerce	\$193.9	\$25.5	\$848.0	4.37x	n/m
		PTC (NAS: PTC)			Tot	al Disclosed	M&A Deal Val	lue Since 2011:	\$2.7 Billion
		Sep-22 Clou	udMilling	Software intended to make CAM accessible to everyone	n/a	n/a	n/a	n/a	n/a
Epicor	Sandvik		and Software	Lifecycle management platform and software tools	n/a	n/a	\$277.2	n/a	n/a
			LEKT	Augmented and virtual reality technology	n/a	n/a	n/a	n/a	n/a
			na Solutions	SaaS-based PLM platform	\$50.0	n/a	\$715.0	14.30x	n/a
- ·		Sep-20 ioxp Nov-19 Ons		AR design software	n/a	n/a	n/a	n/a	n/a
Forterro	SAP		hape NKLS	Cloud-based 3D CAD platform Augmented reality solutions & services	\$10.0 n/a	n/a n/a	\$469.0 n/a	n/m n/a	n/a n/a
			ora Solutions	lloT systems integration	n/a	n/a	n/a	n/a	n/a
			tum	Topology optimization & generative design	n/a	n/a	\$69.6	n/a	n/a
GE / GE Digital	Seeq		point Labs	Augmented reality for frontline workers	\$20.0	n/a	n/a	n/a	n/a
GL / GL Digital	Seed		ware	Manufacturing device connectivity	\$20.0	n/a	\$118.0	5.90x	n/a
		Nov-15 Vufo		Vision-based AR platform	n/a	n/a	\$64.8	n/a	n/a
		,	dLight Solutions	Machine learning predictive analytics	\$7.1	n/a	\$103.8	14.56x	n/a
Hexagon	Siemens		gnate	Augmented reality technologies services	n/a	n/a	n/a	n/a	n/a
			Holdings	Sensor connectivity	n/a	n/a	\$170.0	n/a	n/a
		Jul-14 Ateg Dec-13 Thir	go IgWorx	Model-based systems applications loT platform for machines	\$20.0 \$6.0	n/a n/a	\$49.3 \$130.0	2.47x 21.67x	n/a n/a
			igworx IDEAS	Product development and PLM	\$6.0 \$1.0	n/a n/a	\$130.0	20.00x	n/a n/a
Xon	netry	Jul-13 Enic		Aftermarket technical content management	n/a	n/a	\$20.0	20.00x n/a	n/a
			igistics	Strategic service management	\$80.0	n/a	\$220.0	2.75x	n/a
		Sep-11 4CS		Warranty lifecycle management	n/a	n/a	\$14.9	n/a	n/a
		Jan-11 Mor	tice Kern Systems	Configuration management software	\$67.9	\$10.1	\$304.0	4.48x	n/m

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Millio	ns)	Target Overview			Trans	action Statistic	rs
ABB	Honeywell				Estimated		Deal	Deal Value / I	Estimated
		Date	Target	Description	Revenue EE	BITDA	Value	Revenue	EBITDA
		Revalize				Total Di	sclosed M&A [Deal Value Since	2011: n/a
Aptean	IFS / Acumatica	Dec-21	Procad	Product and document lifecycle management (PDM and PLM) platform	n n/a	n/a	n/a	n/a	n/a
		Nov-21	Tenado	Computer-aided design (CAD) software	n/a	n/a	n/a	n/a	n/a
		Oct-21	Sofon	Uided selling and configure price quote software	n/a	n/a	n/a	n/a	n/a
AspenTech	Infor	Oct-21	SpecPage	Product lifecycle management and data management software	n/a	n/a	n/a	n/a	n/a
Изрептест	111101	Aug-21	Attainia	Cloud-based foreign-trade-zone software and services	n/a	n/a	n/a	n/a	n/a
		Aug-21 Aug-21	BCA Technologies LeadMethod	Strategic sourcing and supplier management software Channel partner engagement and sales enablement	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Aug-21	MicroD	Enterprise quality management solutions	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle	Jun-21	Configure One	CPQ software for manufacturers	n/a	n/a	n/a	n/a	n/a
		Jun-21	FPX	Enterprise CPQ for manufacturers	n/a	n/a	n/a	n/a	n/a
		Jun-21	Pump-Flo	Hydraulic analysis for piping systems	n/a	n/a	n/a	n/a	n/a
	D= 6	Jun-21	Lighting Analysts	Illumination engineering software	n/a	n/a	n/a	n/a	n/a
Aveva	PTC	Jun-21	AutoQuotes	CPQ for Foodservice industry	n/a	n/a	n/a	n/a	n/a
		Rockwell A	utomation (NYS: ROK)		Tota	al Disclosed	M&A Deal Val	ue Since 2011: \$	2.6 Billion
		Oct-22	Cubic-Modulsystem	Electronic modules and components catering to renewable energy	n/a	n/a	n/a	n/a	n/a
Dassault	Revalize	Nov-21	AVATA	Supply chain management services	n/a	n/a	n/a	n/a	n/a
		Jun-21	Plex Systems	Manufacturing cloud-based ERP platform	\$150.0	n/a	\$2,220.0	14.80x	n/a
		Dec-20	Fiix	Cloud-based maintenance and asset management platform	\$25.0	n/a	\$275.0	11.00x	n/a
	Rockwell	Oct-20	Cybersec Culture & Awareness	Critical process and control system cybersecurity services	\$5.6	n/a	n/a	n/a	n/a
ECi		Apr-20	Asem	Computer designer and retailer	n/a	n/a	n/a	n/a	n/a
	Automation	Apr-20	Kalypso	Software delivery and consulting services	n/a	n/a	n/a	n/a	n/a
		Feb-20	Avnet Data Security	Cybersecurity training services	n/a	n/a	n/a	n/a	n/a
E	Danier / Daltale	Feb-20	Sensia JV	Digital oilfield automation solutions	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	Sep-19	MESTECH Services	IT consulting services	n/a	n/a	n/a	n/a	n/a
		Jan-19 Dec-17	Emulate3D	Engineering software for control testing	n/a	n/a	n/a	n/a	n/a
		Sep-16	Odos Imaging MAVERICK Technologies	Time-of-flight 3D imaging technology Industrial automation services	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Epicor	Sandvik	Sep-16 Sep-16	Automation Control Products	Thin client hardware products	n/a	n/a	n/a	n/a	n/a
Ерісоі	Saliuvik	Mar-16	MagneMotion	Automation and transportation services	n/a	n/a	n/a	n/a	n/a
		Oct-14	ESC Services	Hazardous energy control services	n/a	n/a	n/a	n/a	n/a
		Nov-13	vMonitor	Communication services for O&G industry	n/a	n/a	n/a	n/a	n/a
Forterro	SAP	Nov-13	Jacobs Automation	Linear synchronous motor technologies	n/a	n/a	n/a	n/a	n/a
1 3113113	37 (1	Oct-12	Harbin Jiuzhou Electric (Assets)	Manufacturer of medium voltage drives	n/a	n/a	\$78.9	n/a	n/a
		Mar-12	SoftSwitching Technologies	Power quality and monitoring services	n/a	n/a	n/a	n/a	n/a
		Dec-11	Lektronix	Industrial automation-repair services	n/a	n/a	\$9.4	n/a	n/a
GE / GE Digital	Seeq	Apr-11	HIPROM	Engineering integration services	n/a	n/a	n/a	n/a	n/a
		Roper / De	Itek (NYS: ROP)		Total	Disclosed N	Λ&A Deal Valu	e Since 2011: \$2	0.5 Billion
		Oct-22	Frontline Education	Cloud-based educational software	\$370.0	\$175.0	\$3,730.0	10.08x	21.3x
Hexagon	Siemens	Sep-22	TIP Technologies	Quality management services	n/a	n/a	n/a	n/a	n/a
richagori	Siemens	Aug-21	ArchiSnapper (Deltek)	SaaS and mobile applications for architects and engineers	n/a	n/a	n/a	n/a	n/a
		Sep-20	Vertafore	Cloud-based insurance software	\$590.0	\$290.0	\$5,350.0	9.07x	18.4x
		Jun-20	Team TSI (Roper)	Healthcare data systems software	n/a \$200.0	n/a	n/a \$1,625.0	n/a 8.13x	n/a
Xom	netry	Aug-19	Internet Pipeline (Roper) ComputerEase (Deltek)	Life insurance & annuity distribution software	\$200.0 n/a	n/a n/a	\$1,625.0 \$185.0	8.13x n/a	n/a n/a
		Aug-19 Apr-19	Foundry (Roper)	Construction project management software Computer graphics and VFX software	n/a \$61.0	n/a \$20.9	\$185.0 \$537.0	n/a 8.80x	n/a 25.7x
		Jan-19	Avitru (Deltek)	SaaS-based construction software	ъот.о n/a	\$20.9 n/a	\$557.0 n/a	o.oux n/a	25.7x n/a
		Jun-18	ConceptShare (Deltek)	Creative operations management platform	n/a	n/a	n/a	n/a	n/a
		Jun-18	PowerPlan (Roper)	Financial forecast and analytics software	\$150.0	n/a	\$1,100.0	7.33x	n/a
			• •	•					

Buyer-Specific Acquisitions: 2011-Present

Aptean IFS / Acumatica Dots Target Description Evenue Clarabated Dots Certain Clarabated Evenue Clarabated Evenue Clarabated Evenue Clarabated			(\$ in Million	us)	Target Overview			Tran	saction Statist	tics
Aptean IFS / Acumatical IFS / IF	ABB	Honeywell						Deal	Deal Value	/ Estimated
Appearation			Date	Target	Description	Revenue E	BITDA	<u>Value</u>	Revenue	EBITDA
Sep-17 Workflook (Deltek) Business procurement RPF bethower n/a 517 n/a n/a n/a 1		150 / A	Roper / Delt	tek (NYS: ROP)		Tot	al Disclosed	M&A Deal Valu	ue Since 2011: \$	\$20.5 Billion
Dec-16	Aptean	IFS / Acumatica								
AspenTech					· · · · · · · · · · · · · · · · · · ·					
Aspen 16					1 3					
Jan-16	AspenTech	Infor								
Autodesk Oracle										
Autodesk Oracle Sp. 15 Astant-Hotlehing (Roper) Sp. 15										
Autoridesk Oracle Sep-15 Report Feath (Roper) Sep-15 Report Feath (Roper) Security applications solutions n/a										
Sep-15 Sep-15 Security applications solutions n/a	Autodesk	Oracle		9	9					
Aveva PTC										
Feb-15				On Center (Roper)	Project management & training software	n/a	n/a	\$157.0	n/a	n/a
Feb-15			Mar-15	HRsmart (Deltek)	SaaS-based talent management services	n/a	n/a	n/a	n/a	n/a
Dassault Revalize Aug-14	Aveva	PIC		Data Innovations (Roper)	Clinical laboratory middleware software	n/a	n/a		n/a	n/a
Dassault Revalize				SoftWriters (Roper)	Pharmacy-focused software provider	n/a	n/a	\$220.0	n/a	n/a
Dassault Revalize						\$26.3				
Au	Description									
Naminary Assistance Naminary Assistance Naminary Namin	Dassault	Revalize								
Mar-14										
Automation		5 1								
Advanced Sensors (Roper)	гс:	Rockwell		. ,						
Line Section Roper / Deltek Deltek Deltek Aug-13 Acumen (Deltek) Aug-13 Managed HealthCare (Roper) Healthcare services and technology Na	ECI	Automation		, ,						
Roper / Deltek May-13		Automation		· • ·						
Emerson Roper / Deltek Aug-12 Sunquest (Roper) Healthcare automated information systems \$195.5 \$140.0 \$1.415.0 7.24x \$1.01x \$1.12 Ascension (Roper) Developer of 3D tracking devices \$1.7 \$2.00 \$2.05.9 3.34x 10.3x \$1.02 \$1.01x \$1.01x					, ,		, .	, .		
Jul-12	Emorson	Papar / Daltak								
Land	EITIEISOIT	Ropei / Deitek								
Forterro SAP Apr-11 Washington (Deltek) Schedule consulting services \$15.0 n/a \$26.0 1.73x n/a Sandvik (ST-SAND) Oct-22 SP Mining High-capacity feeding and screening media n/a n/a n/a n/a n/a n/a n/a n/a n/a n/										
Forterro SAP Sandvik (ST. SAND) Cot-22 SP Mining High-capacity feeding and screening media n/a n/a n/a n/a n/a n/a n/a n/a n/a n/										
Forterro SAP Oct-22 SP Mining	Fnicor	Sandvik		-	Scriedule Consulting Services	· · · · · · · · · · · · · · · · · · ·		· ·		
Forterro SAP Aug-22 Balax Manufacturer and supplier of cold forming taps n/a	Ерісоі	Sallavik					tal Disclosed	l M&A Deal Va	lue Since 2011:	\$2.0 Billion
Forterro SAP Jul-22 Peterson Tool Company Custom tooling systems catering to the general engineering n/a				3						
GE / GE Digital Seeq Seeq Seeq Seeq Seeq Seeq Seeq Seeq Siemens Jul-22 Preziss Precision polycrystalline diamond and carbide cutting tools Mine planning software Nine planning software Nine planning software Nine planning systems, assembly plants and special machinery Nine nine planning systems, assembly plants and special machinery Nine nine planning systems, assembly plants and special machinery Nine nine planning systems, assembly plants and special machinery Nine nine planning systems, assembly plants and special machinery Nine nine nine plants and special machinery Nine nine nine nine plants and special machinery Nine nine nine nine nine nine nine nine										
Agile battery consulting and engineering services n/a	Forterro	SAP								
Apr-22 Deswik Mine planning software n/a										
GE / GE Digital Seeq Jan-22 German Gerling Tool manufacturing systems, assembly plants and special machinery n/a										
Dec-21 Dimensional Hydrocarbon fuels intended to utilize and distribute sunlight n/a	05 / 05 B: :									
Hexagon Siemens Dec-21 ICAM Technologies Post-processing solutions for computer numerical control machines n/a	GE / GE Digital	Seeq		J						
Nov-21 Fvabryka Manufacturer and supplier of machining tools n/a										
Hexagon Siemens Oct-21 Accuratech Medical wire forming and components n/a				3						
Oct-21 DWFritz Automation Custom automation systems for advanced manufacturing n/a	I I a common a com			•	.,,					
Oct-21 Tricon Drilling Solutions Rock drilling tools to the mining industry n/a n/a n/a n/a n/a n/a n/a n/a n/a Aug-21 Mastercam CAD/CAM for manufacturing industry n/a n/a n/a n/a n/a n/a n/a Aug-21 Chuzhou Yongpu Carbide Tools Tool manufacturer \$44.9 n/a	Hexagon	Siemens								
Aug-21 Mastercam CAD/CAM for manufacturing industry n/a n/a n/a n/a n/a n/a n/a n/a Aug-21 Chuzhou Yongpu Carbide Tools Tool manufacturer \$44.9 n/a n/a n/a n/a n/a n/a Jul-21 Fabryka Narzędzi FANAR Machine tool manufacturer n/a n/a n/a n/a n/a Jul-21 DWFritz Automation Automation systems for high-volume manufacturing n/a n/a n/a n/a n/a										
Xometry Aug-21 Chuzhou Yongpu Carbide Tools Tool manufacturer \$44.9 n/a n/a n/a n/a n/a Jul-21 Fabryka Narzędzi FANAR Machine tool manufacturer n/a n/a n/a n/a n/a n/a Jul-21 DWFritz Automation Automation systems for high-volume manufacturing n/a n/a n/a n/a n/a				3						
Jul-21 Fabryka Narzędzi FANAR Machine tool manufacturer n/a		otry.		Chuzhou Yongpu Carbide Tools	· · · · · · · · · · · · · · · · · · ·	\$44.9	n/a	n/a	n/a	
	Xom	etry-				n/a	n/a	n/a	n/a	n/a
THE POINT IS A SECOND OF THE POINT OF THE PO			Jul-21		Automation systems for high-volume manufacturing	n/a	n/a	n/a	n/a	n/a
			Jul-21	DSI Underground Systems	Mining and tunneling systems	n/a	n/a	\$1,128.6	n/a	n/a
Jul-21 Cambrio CAD/CAM software \$68.0 n/a n/a n/a n/a								, .		
Jun-21 Tricon Drilling Solutions Rock drilling tools n/a n/a n/a n/a n/a n/a			Jun-21	Tricon Drilling Solutions	Rock drilling tools	n/a	n/a	n/a	n/a	n/a

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Million	ns)	Target Overview			Transaction Statistics			
ABB	Honeywell	Date	. Target		Estimate Revenue	d EBITDA	Deal Value		/ Estimated EBITDA	
		Sandvik (ST	: SAND)		To	otal Disclosed	l M&A Deal Va	lue Since 2011:	\$2.0 Billion	
Aptean	IFS / Acumatica	May-21 Dec-20	Kwatani CGTech	Mining equipment CNC simulation and verification software	\$19.0 n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
AspenTech	Infor	Jan-20 Jun-19 Feb-19 Aug-18	Summerill Tube Newtrax Technologies Artisan Vehicle Systems Custom Electric Manufacturing	Tube manufacturer Mine monitoring products Mining equipment Heating element manufacture	n/a \$20.1 n/a n/a	n/a n/a n/a n/a	n/a \$88.3 n/a n/a	n/a 4.40x n/a n/a	n/a n/a n/a n/a	
Autodesk	Oracle	Jul-18 Jul-18 May-14 Oct-13	Metrologic Group INROCK Drilling Varel International Precorp	3D inspection software Drilling tools, equipment, and services Drill bits for oil and gas drilling Polycrystalline diamond supplier	n/a \$7.5 \$340.0 n/a	n/a n/a n/a n/a	\$215.6 \$76.2 \$450.3 \$31.6	n/a 10.10x 1.32x n/a	n/a n/a n/a n/a	
A. (0) (0	PTC	Sep-13 Jun-13	TPSTechnopartner Samtronic Cubex	Scattering machine manufacturer Drilling equipment	n/a \$39.8	n/a n/a	n/a \$40.5	n/a 1.02x	n/a n/a	
Aveva	PIC	SAP (ETR: S	AP)		To	tal Disclosed I	M&A Deal Valu	ue Since 2011: 5	\$29.2 Billion	
Dassault	Revalize	Jul-22 Feb-22 Aug-21 Mar-21	Askdata Taulia Swoop Talent Signavio	Al platform empowering humans to interact with data Financial supply chain platform Talent data intelligence Web-based BPM software	n/a n/a n/a \$100.0	n/a n/a n/a n/a	n/a n/a n/a \$1,210.0	n/a n/a n/a 12.10x	n/a n/a n/a n/a	
ECi	Rockwell Automation	Feb-21 Nov-21 Jan-19 Nov-18	AppGyver Emarsys eMarketing Systems Qualtrics Contextor	No-code app-building platform Digital customer engagement platform Surveying software Robotic process automation tool	n/a n/a \$372.0 n/a	n/a n/a n/a n/a	n/a n/a \$8,000.0 n/a	n/a n/a 21.51x n/a	n/a n/a n/a n/a	
Emerson	Roper / Deltek	May-18 Apr-18 Jan-18 Jan-17	Coresystems Callidus Software Recast.Al Abakus	Workforce management software Cloud-based sales solutions Collaborative bot platform Attribution software	n/a \$253.0 n/a n/a	n/a (\$5.6) n/a n/a	n/a \$2,400.0 n/a n/a	n/a 9.49x n/a n/a	n/a n/m n/a n/a	
Epicor	Sandvik	Sep-16 Sep-16 Jun-16 Feb-16	Plat.One Altiscale Fedem Technology Roambi	Software services Data management platform Providers of engineering software Business information management	n/a n/a n/a n/a	n/a n/a n/a n/a	n/a \$125.0 n/a n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
Forterro	SAP	Apr-16 Oct-15 Dec-14 May-14	Jirafe Multiposting Concur SeeWhy	Analytics for e-commerce retailers Online e-recruitment systems Business management software Web analytic applications	n/a \$9.4 \$702.6 n/a	n/a (\$0.8) \$24.0 n/a	n/a n/a \$7,430.7 n/a	n/a n/a 10.58x n/a	n/a n/a n/m n/a	
GE / GE Digital	Seeq	May-14 Dec-13 Aug-13 May-13 Apr-13	Fieldglass KXEN SAP Hybris KMS Software SmartOps	Vendor management system Knowledge management E-commerce data platform Human capital management software Supply chain optimization services	n/a n/a \$110.0 n/a n/a	n/a n/a n/a n/a n/a	\$974.4 \$30.5 \$1,500.0 n/a n/a	n/a n/a 13.64x n/a n/a	n/a n/a n/a n/a n/a	
Hexagon	Siemens	Apr-13 Apr-13 Mar-13 Oct-12 Jun-12	Camilion Solutions Ticket-Web SAP Ariba Syclo	Product development and management Ticketing systems Collaborative business commerce Mobile enterprise app platform	n/a n/a n/a \$516.8 n/a	n/a n/a n/a \$42.1 n/a	n/a n/a n/a \$4,282.4 n/a	n/a n/a n/a 8.29x n/a	n/a n/a n/a n/m n/a	
Xon	netry	Feb-12 Feb-12 Nov-11 Sep-11 Jan-11	SuccessFactors Datango Crossgate Right Hemisphere Secude (Assets)	Human resources performance eLearning and electronic performance Electronic data exchange services Visual enterprise solutions Security software assets	\$327.9 \$10.7 n/a n/a	(\$37.4) (\$3.0) n/a n/a n/a	\$3,235.0 n/a n/a n/a n/a	9.86x n/a n/a n/a n/a	n/m n/a n/a n/a n/a	

Buyer-Specific Acquisitions: 2011-Present

		(\$ in Million	ns)	Target Overview			Trans	action Statistic	cs
ABB	Honeywell	Date	Target		Estimated Revenue EB	 BITDA	Deal Value	Deal Value / I	
					Revenue E	IIIDA _	value	Revenue	EBITUA
	150 / 4	Seeq				Total Dis	sclosed M&A [Deal Value Since	2011: n/a
Aptean	IFS / Acumatica	No acquisit	ions to date		n/a	n/a	n/a	n/a	n/a
		Siemens (ET	ΓR: SIE)		Total	Disclosed N	∕I&A Deal Valu	e Since 2011: \$1	3.1 Billion
		Aug-22	Brightly Software	Cloud-based operations management software	\$180.0	n/a	\$1,880.0	10.44x	n/a
AspenTech	Infor	Jul-22	Zona Technology	Software and provider of engineering services serving aerospace	n/a	n/a	n/a	n/a	n/a
		Jul-22	Innovation Strategies	SaaS solutions for energy, safety and IT asset management	n/a	n/a	n/a	n/a	n/a
		Jul-22	Radica Software	CAD software designed to help engineers shorten project timelines	n/a	n/a	n/a	n/a	n/a
Autodesk	Oracle	Jun-22	Senseye	Cloud-based machine monitoring and diagnostics platform	n/a	n/a	n/a	n/a	n/a
ratoacsk	Oracic	Oct-21 Oct-21	Wattsense Sgills	IoT device designed to control and monitor buildings of any size Freight railway management and maintenance workflow software	n/a \$47.0	n/a	n/a \$645.5	n/a 13.73x	n/a n/a
		Aug-21	SupplyFrame	Intelligence platform designed to provide information about electronic		n/a	\$700.0	10.00x	n/a
		Jun-21	Nextflow Software	Computational Fluid Dynamics (CFD) simulation software	n/a	n/a	n/a	n/a	n/a
Aveva	PTC	May-21	Padam Mobility	Demand-responsive transport services using routing algorithms	\$1.7	n/a	n/a	n/a	n/a
		Jul-20	Abacus Medicine	Pharmaceutical products committed to improving global healthcare	\$722.7	n/a	n/a	n/a	n/a
		Jun-20	SCNB	EWSD switching systems	n/a	n/a	n/a	n/a	n/a
December	Danieli-s	Jun-20	Vizendo	Virtual operator training	n/a	n/a	n/a	n/a	n/a
Dassault	Revalize	Feb-20	C&S Electric	Manufacturer of low voltage products	n/a	n/a	\$4.2	n/a	n/a
		Jan-20	AIT Goehner	Consultancy and development services	n/a	n/a	n/a	n/a	n/a
	Daalmall	Jan-20 Nov-19	Multimechanics Atlas 3D	Virtual testing software Cloud-based printing toolset	n/a	n/a n/a	n/a n/a	n/a n/a	n/a
ECi	Rockwell	Nov-19 Nov-19	Process Systems Enterprise	Advanced modelling software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
LCI	Automation	Sep-19	Pixeom	Software defined edge platform	n/a	n/a	n/a	n/a	n/a
		Jul-19	Innovation Systems (IST)	Industrial transport planning software	n/a	n/a	n/a	n/a	n/a
		Jun-19	ESTEQ (South Africa)	PLM and MOM distributor	n/a	n/a	n/a	n/a	n/a
Emerson	Roper / Deltek	Jun-19	Saab Medav (Assets)	NVH testing products and services	n/a	n/a	n/a	n/a	n/a
	, =	Dec-18	Comsa	Wire-harness engineering software	n/a	n/a	n/a	n/a	n/a
		Oct-18	Mendix	Application development platform	\$97.3	n/a	\$730.0	7.50x	n/a
		Dec-18	Comsa Computer & Software	Automotive design & analysis software	n/a	n/a	n/a	n/a	n/a
Epicor	Sandvik	Sep-18	Lightwork Design	3D rendering visualization systems	n/a	n/a	n/a	n/a	n/a
		Jun-18 Jun-18	Comfy Austemper Design	Smart building management software Electronic design for circuit components	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Mar-18	Agilion	Real-time location systems (RTLS)	n/a	n/a	n/a	n/a	n/a
Forterro	SAP	Feb-18	Sarokal Test Systems	Testing equipment for ASIC & FPGA	n/a	n/a	n/a	n/a	n/a
Forterro	SAF	Jan-18	Milanovic Engineering	Engineering and manufacturing services	n/a	n/a	n/a	n/a	n/a
		Dec-17	Solido Design	Variation-aware design	n/a	n/a	n/a	n/a	n/a
		Oct-17	Mentor Infolytica	Electromagnetic and thermal analysis	n/a	n/a	n/a	n/a	n/a
GE / GE Digital	Seeq	Oct-17	Wi-Tronix	Predictive maintenance for rail services	n/a	n/a	n/a	n/a	n/a
0=, 0= = 1g.ta	3004	Aug-17	TASS International	Automotive design and testing software	n/a	n/a	n/a	n/a	n/a
		Mar-17	Mentor Graphics	Electronic design automation	\$1,282.5	\$267.2	\$4,500.0	3.51x	16.8x
		Nov-16	Conworx Technology	Lab device interfaces	n/a	n/a	n/a	n/a	n/a
Hexagon	Siemens	Mar-16 Mar-16	CD-adapco Neo New Oncology	Specialized simulation based on CFD Medical diagnostic technology	\$190.0 n/a	n/a n/a	\$970.0 n/a	5.11x n/a	n/a n/a
		Nov-15	Polarion Software	Application lifecycle management	n/a	n/a	n/a	n/a	n/a
		Jul-15	Zenco Systems	Traffic enforcement technology	n/a	n/a	n/a	n/a	n/a
Van	notry	Mar-15	AxIT	Order management & logistics	n/a	n/a	n/a	n/a	n/a
XOII	netry	Oct-14	Camstar	Manufacturing execution systems	n/a	n/a	\$160.0	n/a	n/a
		Jan-14	IBS	Industrial productivity software	n/a	n/a	n/a	n/a	n/a
		Dec-13	TESIS PLMware	Product lifecycle management	n/a	n/a	n/a	n/a	n/a
		Jun-13	Sky Eye	Transport fleet management	n/a	n/a	n/a	n/a	n/a
		Jun-13	Preactor	Manufacturing planning & scheduling	n/a	n/a	n/a	n/a	n/a

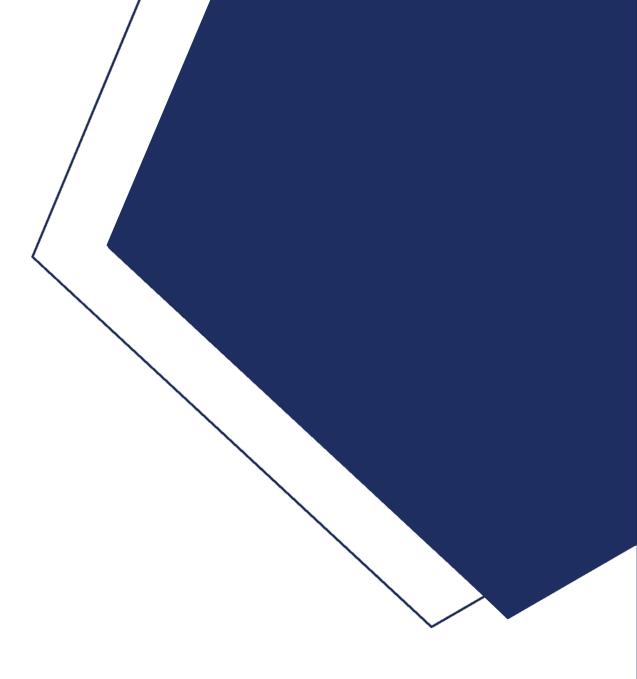
MADISON PARK GROUP

Buyer-Specific Acquisitions: 2011-Present

ABB	Honeywell	(\$ in Millio	ns)	Target Overview	F 15 1 1		Trans	action Statistic	cs
ADD	Honeyweii	Date	Target		Estimated Revenue EB	ITDA _	Deal Value	Deal Value / Revenue	EBITDA
	150 / 4	Siemens (E	ETR: SIE)		Total	Disclosed I	M&A Deal Valu	e Since 2011: \$	13.1 Billio
Aptean	IFS / Acumatica	May-13 Nov-12	Invensys Rail LMS	Railway design & system automation PLM simulation & testing	\$1,179.5 \$241.7	n/a n/a	\$2,660.0 \$870.0	2.26x 3.60x	n/
AspenTech	Infor	Sep-12 Jan-12	VRcontext eMeter	Visualization technology Energy information management	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/ n/
Aspentech	ШО	Dec-11 Aug-11	Vistagy Advanced Telemetry	Specialized engineering environments Energy management	\$18.0 n/a	n/a n/a	n/a n/a	n/a n/a	n/
Autodesk	Oracle	Xometry						Since 2011: \$28	
Autodesk	Oracle	Dec-21 Nov-21	Thomas Publishing FactoryFour	Online advertising and digital marketing marketplace for manufacture Automated manufacturing software	rs n/a n/a	n/a n/a	\$276.3 \$6.3	n/a n/a	n/ n/
		Nov-21	Big Blue Saw	Waterjet and laser cutting services	n/a	n/a	\$2.5	n/a	n/
Aveva	PTC	Dec-19 Jan-19	Shift Machine Tool & Supply	Online platform providing machining services Abrasives and cutting tools to storage equipment	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/ n/
7 11 0 1 0		Jul-18	MakeTime	On-demand manufacturing platform offering machine capacity	n/a	n/a	n/a	n/a	n/
		Average						6.31x	15.5
Dassault	Revalize	Median						4.66x	12.6
Emerson	Roper / Deltek								
Epicor	Sandvik								
Forterro	SAP								
GE / GE Digital	Seeq								
Hexagon	Siemens								
Xon	netry	-							

IV.

Appendix About MPG



Select Recent Transactions

MADISON PARK GROUP

Hand-Crafted, Dedicated Advisory Team Combines Tenured Investment Bankers, Operating Executives, and Stalwart Transaction Support













Strategic Sale



Strategic Sale

Strategic Sale

Strategic Sale

Strategic Sale



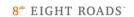












Founding Team

Founding Team



















Recapitalization

Recapitalization

Equity Placement

Recapitalization

Debt Placement Equity Placement

JMI RQUITY





THE CARLYLE GROUP



SCALE

Founding Team

Founding Team

Founding Team

Founding Team



Click here for our full transaction list

Notes:

- Vistagy's sale to Siemens was completed representative of transaction experience prior to joining MPG
- ii) Bottom logos and text for each tombstone represent client's prior ownership status

MPG Testimonials

MADISON PARK GROUP

We Work Diligently To Ensure Highly Successful Outcomes For Our Clients



"MPG invested an enormous amount of time to learn our business and prepare our team. The culture fit was nonnegotiable for us, so the time spent tirelessly learning our business and culture paid off. We found what we feel is a perfect culture match in Thompson Street Capital Partners, achieving the outcome MPG assured us was possible in every respect."

- Jim Jacobs, Green Mountain Technology



"I've known Madison Park Group for over 16 years. They have been my trusted advisors and sounding board over many years. With their prudent and long-term approach to advisory, we were able to find the perfect home for Cityworks in Trimble. With Trimble as our backer, I'm more confident than ever in the future of our great company as we accelerate the vision of our GIS-centric approach to infrastructure optimization."

- Brian Haslam, Cityworks



"It was a pleasure working with the Madison Park Group. Professional, and with a deep understanding of the nuances of our industry, they provided solid structures and advice as they moved the process forward. At all times we felt that they put our interests first."

- Paul Marketos, IsoMetrix



"Working with Madison Park Group undoubtedly altered the trajectory of Omnify for the better. They went the extra mile throughout the entire process to ensure success not just for the shareholders, but also for customers and employees alike. I greatly appreciate MPG's unique and significant knowledge of the engineering software and PLM market. It clearly enhanced the vision to create a player that will redefine the mainstream PLM market."

- Brad Paul, Omnify Software



"The MPG team was critical in outlining our go-to-market strategy and made sure that we engaged with all the financial sponsors who could have made sense as a partner for us. Their insights and coaching ensured we found the best possible backer for our next stage of growth, but also let us continue running our business without distractions."

- Craig Livingston, Arena Solutions

MPG holds active dialogue with product-driven market contenders of all sizes. This coverage model provides an end-to-end view of the market - from startups to public acquirers - and outperforms both boutique advisors with limited buyer insights and large investment banks which are insulated from emerging strategic threats.



Uncompromising Dedication to Thought Leadership

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