MPG | MADISON PARK GROUP

Insights

Market Update Engineering Software

March 20<u>2</u>3



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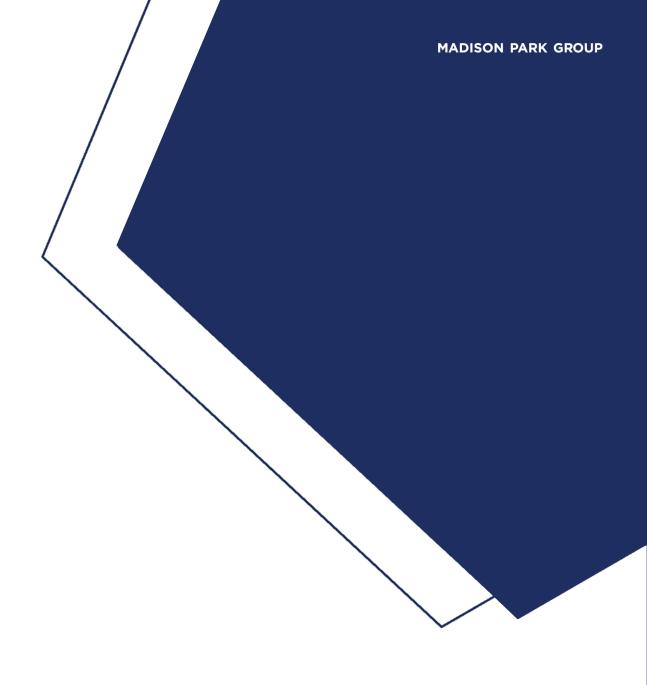
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Engineering Software Market Update

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Industry Trends



Trusted Advisor to the Industrial Software Market

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History of Successful Transactions Supported by Broad Coverage Model

Growing Momentum with Tier-1 Clients

Continuous Dialogue with Market Leaders & Key Executives within the Industrial Tech Ecosystem























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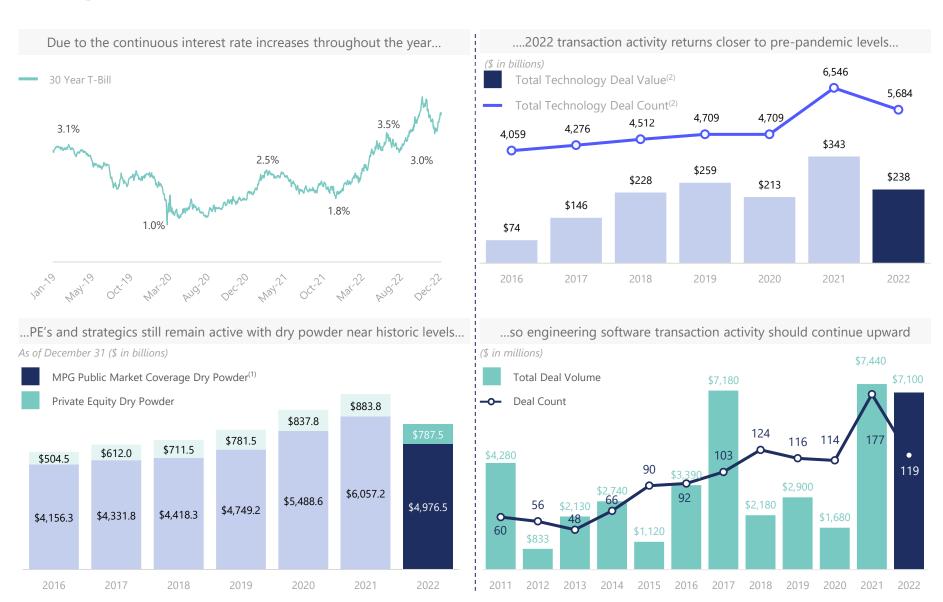
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Increasing Product Complexity Continues to Demand Improved Collaboration Capabilities and Specialized Engineering Knowledge

Select Identified Underlying Trends

- Industrial equipment manufacturers are folding EHSQ guidelines into their designs and looking for products to help them address these needs. This introduces opportunities, as well as challenges for engineering software providers. The same is true as manufacturers look for ways to aggregate and analyze carbon roll-up and sustainability as part of their designs.
- Private equity firms across the spectrum are expanding their thesis and interest in the engineering software space. Many are looking for a base platform on which they can provide a broad product offering using acquisitions.
- There continues to be significant interest and discussion around the concept of digital twin and the real-life applications of this technology. However, many components are still required to make digital twins truly effective for predictive maintence and repair. This is an interesting opportunity for those in the market.
- The management of downstream supplier quality is at the forefront of the initiatives of many software providers, and most are addressing this through acquisition.
- Artificial Intelligence and Machine Learning offering are beginning to be a component of product offerings, however, they have yet to significantly impact the offerings or revenue of companies in the space.
- The need for products for complex battery simulation, thermal simulation of batteries, and the unique requirements for protective structure for batteries is opening up a new set of challenges and opportunities in engineering software industry. Many solutions to these problems are coming from smaller players within the ecosystem.
- All the providers of traditional design, PLM, and CAE tools are pursuing acquisition strategies to expand out of their traditional (e.g., structural, CFD, etc.) markets. Broad themes of expansion include electronics, supply chain management, and general data analytics.

Strategics and Investors Still Continue to Pursue Opportunities in the Space

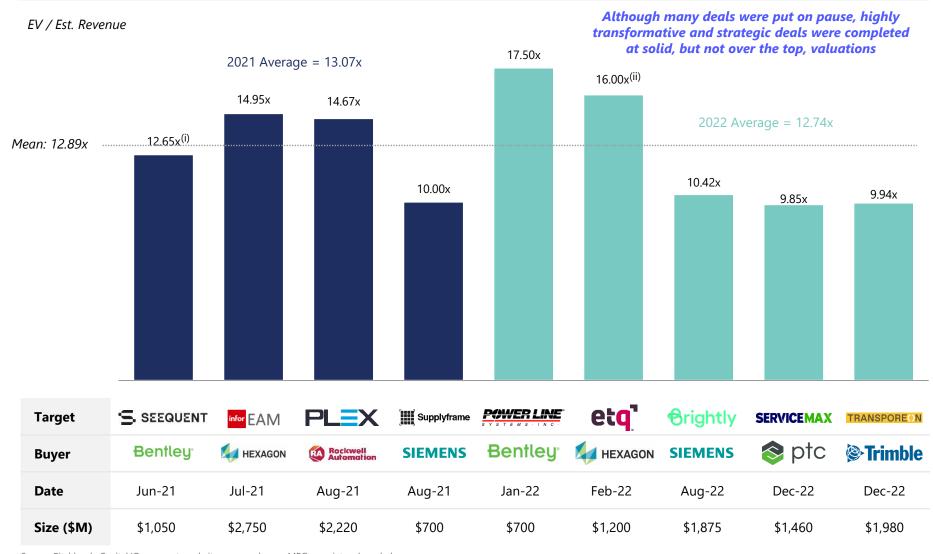


Aggressive Offensive Acquisitions

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M&A Slowed in the Latter Part of 2022, However Game-Changing Acquisitions Continue to Close, Regardless of Market Uncertainty

Representative Engineering and Manufacturing Software Acquisitions Since June 2021



Source: Pitchbook, Capital IQ, corporate websites, press releases, MPG proprietary knowledge

Estimates based on "10% of Bentley Systems' key financial metrics (ARR, annual revenue, EBITDA)" in transaction PR derived as 10% of Bentley's LTM Mar-21 revenue of \$828.9m and EBITDA of \$245.9m

Engineering & Manufacturing M&A in 2022

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Tracking Large and Under-the-Radar Strategic Acquisitions with Market-Moving Impacts

Date	Acquirer	Target	Relevant Industrial Technology Transactions
December 2022	Schneider Electric	AVEVA	Schneider Electric acquired remaining share of Aveva <i>Engineering design, information management, and software solutions</i>
December 2022	FARO	SiteScape	Faro acquired SiteScope LiDAR 3D scanning software solutions for the AEC and O&M markets
December 2022	LECTRA	TextileGenesis	Lectra acquired TextileGenesis Traceability platform for textile ecosystem
October 2022	stratasys	riven	Stratasys acquired Riven 3D scanning and proprietary algorithms providing manufacturing insights
October 2022	@aspentech	inmation:	Aspentech acquired inmation Industrial information management system solutions
September 2022	CADMATIC	© CLA	CADMATIC acquired CLA Construction management and engineering data management software
September 2022	TECH SOFT ^{3D}	REDWAY3D	Tech Soft 3D acquires Redway3D Photo-realistic visualization software
July 2022	ensono"	& AndPlus	Ensono acquired AndPlus Data engineering & digital transformation services
July 2022	A SIGNIA	MOZZO	Signia Aerospace acquired Mezzo Technologies <i>Manufacturer of microtube heat exchangers</i>
July 2022	Matterport	₩ VHT*	Matterport acquired VHT, Inc Convenient photography and image management services
June 2022	NOTE:	PRECISION	NOTE acquired Dynamic Precision Solutions <i>R&D Development of software & hardware designs</i>
June 2022	NAFEMS	ASSESS»	NAFEMS acquired ASSESS Software for Engineering Simulation
June 2022	△ ALTAIR	emeapt anginering	Altair acquired Concept Engineering Electronic system visualization software
June 2022	△ ALTAIR	€‡3 Gen3D	Altair acquired Gen3D Software and consulting systems

Engineering & Manufacturing M&A in 2022

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Tracking Large and Under-the-Radar Strategic Acquisitions with Market-Moving Impacts

Date	Acquirer	Target	Relevant Industrial Technology Transactions
June 2022	₹ ZEBRA	MATROX	Zebra Technologies acquired Matrox Imaging Division Software solutions for OEMs and integrators in imaging
May 2022	Schneider Electric	xcelgo virtual Automation Technologies	Schneider Electric acquired Xcelgo 3D Modeling software
May 2022	ст	infodream	CT Engineering Group acquired Infodream Manufacturing execution system (MES) software
May 2022	ptc*	INTLAND SOFTWARE	PTC acquired Intland Software Application lifecycle management platform
April 2022	S software [™]	StreamSets ⁻	Software AG acquired StreamSets Data ops & integration platform
March 2022	🌓 Inceptra.	Nobleto	Inceptra acquired NobleTek Aerospace engineering services
February 2022	✓ AUTODESK	prodsmart	Autodesk acquired Prodsmart Real-time tracking application
January 2022	VDA	telkonet 🎉	VDA Group acquired Telkonet **IIOT platform for intelligent automation solutions**

Reference Investment Transactions

Investor Interest in Engineering Software Spans Early-Stage Growth to Late-Stage Buyout

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(\$ in millions)

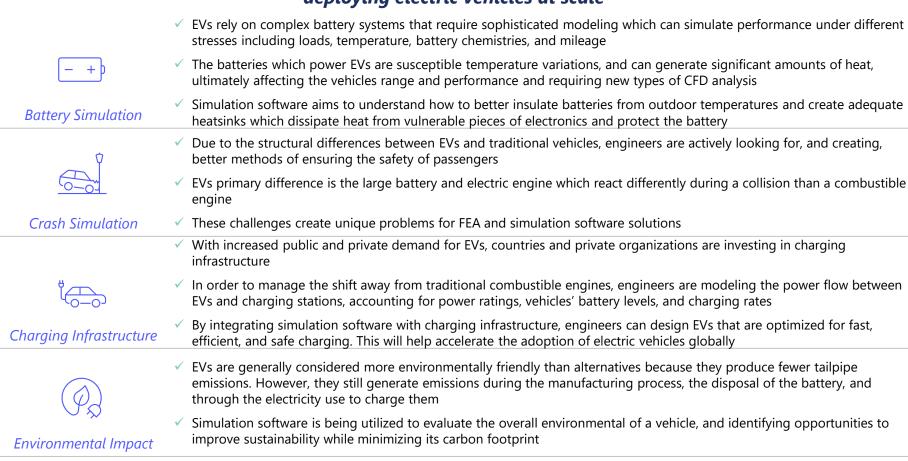
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Target	Lead Investor	Date	Comments & Observations	Deal Type	Amount Raised ⁽ⁱ⁾	Pre-Money Valuation ⁽ⁱ⁾	Amount Raised To-Date ⁽ⁱ⁾
ELECTRA VEHICLES	U' united	Feb-23	 Electra will use the funds to support scaling operations and to deploy software technology to solve several problems in the electrification industry 	Later Stage	\$21.3	-	\$25.8
5 snaptrude	Accel	Jan-23	 Snaptrude is attempting to disrupt Autodesk in the building design space, giving customers modern and broader sets of features at a more affordable cost 	Seed	\$6.6	-	-
SCAPE PHOTONICS	△ ALTAIR	Dec-22	 The investment allows Altair to collaborate with the innovators at Xscape and make further advancements in high-performance computing (HPC) hardware 	Seed	\$10.0	\$20.0	\$5.0
\$ SAMP	Turenne GROUPE	Oct-22	Samp plans to use the funds it just raised to expand outside of France	Early VC	\$3.9	-	-
Cloud NC	✓ AUTODESK	Jun-22	The additional capital raised will be used to further develop CouldNC's AI manufacturing technology	Series B	\$66.7	\$92.3	\$108.9
AKSELOS	Shell Ventures	May-22	 With this investment Akselos acquires an investor base to support their ongoing global growth, enabling it to scale both its team and solutions 	Series A	\$17.1	\$46.1	\$27.8
-MORAI-	Alimm	Feb-22	 MORAI will use new capital to focus on hiring quality talent and enhance technological edge for global competitiveness 	Series C	\$20.9	-	\$22.6
GAMMA TECHNOLOGIES	INSIGHT PARTNERS	Feb-22	 Insight joins existing investors TA Associates and Cove Hill, who made a significant new investment in the business 	Minority	-	-	-
♣ QbDVision*	S3 VENTURES	Feb-22	 The funding round will accelerate QbDVison's mission to shape the digital future of life science manufacturing and drive expansion of its commercial market 	Series A	\$15.0	-	-

Electric Vehicles are Changing Engineering Design

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New Physical Assets and Technologies Present Challenges for Engineers and Engineering Software Providers

Simulation software is being utilized to solve the complex problems which arise from designing and deploying electric vehicles at scale

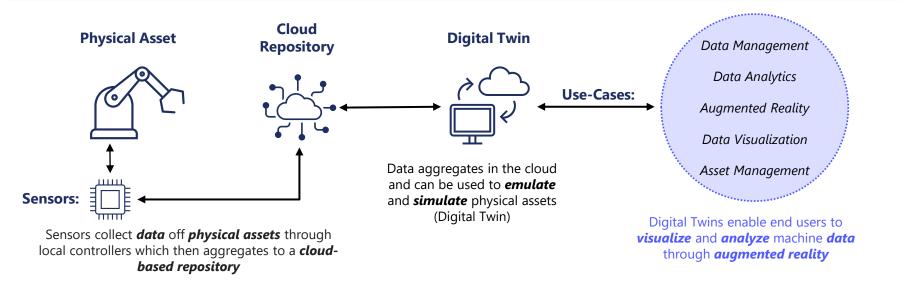




- ✓ EVs require several rare earth commodities which are sensitive to economic and geopolitical factors that ultimately affect the bottom-line during production
- Cost simulators are being utilized to obtain a more granular and accurate understanding of the quantity of materials necessary during manufacturing, optimizing the production process and the overall cost to consumer

Digital Twins Enhance Workplace Efficiencies Through Unparalleled Data Visibility, But Rely Heavily On Domain Expertise And Planning

Visualizing the Digital Twin Integration



Key Features:

Real-time monitoring: Digital twins provide real-time data regarding a physical system which allows for continuous monitoring and analysis of a system's performance. This can help identify issues or inefficiencies that would otherwise go unnoticed

Predictive Maintenance: By analyzing data collected through digital twins, the user can identify underlying issues and resolve them before thy interrupt a process, saving costly machine downtime

Simulation & Optimization: Digital twins are used to enumerate through different potential scenarios and optimize the performance of a system, leading to decreased costs and improved efficiency

Design & Testing: Digital twins are used to design and test new systems and products within a virtual environment, ultimately reducing the need for physical prototypes and accelerating the design and engineering phases of production

Digital Twin and Predictive Maintenance Ecosystem

Successful Implementation of Predictive Maintenance Using Digital Twins Requires a Broad Ecosystem of Integrated Technologies

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Transportation & Logistics Management

- ✓ To optimize enterprise integration and usage of digital twins and predictive maintenance capabilities, a strong transportation and logistics management system tracking physical assets is required
- A strong logistics management system enables companies to ensure necessary parts are on site when a digital twin alerts of potential failures or production flaws
- ✓ The predictive maintenance capabilities of a digital twin are not effective without this essential component of the value chain

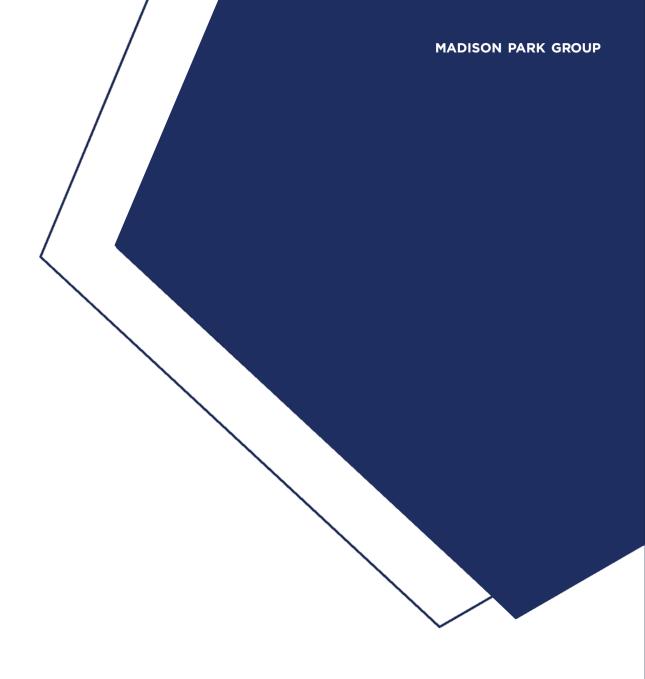
Inventory Management

- ✓ Once necessary parts have been transported to the engineering and manufacturing floor on-site, the company must have the capability to keep accurate records of quantity, location, and price
- ✓ The inventory management system plays a pivotal role with digital twins and their predictive maintenance capabilities. When a machine is on the verge of failure, the right part needs to be in stock and locatable
- ✓ The digital twin's alerts and capabilities provide little value without an inventory management system which ensures parts with a high probability of failure are readily available

Employee Management & Training

- ✓ While transporting and storing spare parts is necessary to complementing and completing a digital twin's capabilities, having the right people in place at the right time is just as critical
- Organizations must ensure that when a system fails, an employee with the right training and expertise is onsight to address these failure
- Without the proper physical assets and sufficiently trained employees, digital twins serve little purpose for an organization's efficiency because predictive maintenance capabilities require the coordination of multiple complementary systems

Featured Companies





Altair

Business Overview

(\$ in millions)

Headquarters: Troy, MI LinkedIn Employees (1-Yr. Growth): 3,465 (\$\textsquare\$ 9%)

Website: altair.com

Ownership Status: Public (NasdagGS: ALTR) Acquisitions:

38

Enterprise Value (EV): \$4,901.8 TTM Revenue: \$524.8

LTM EBITDA: \$46.2

EV / TTM Revenue: 9.34x EV / TTM EBITDA:

106.10x

Description:

Provider of software and cloud solutions in the areas of product development, high performance computing (HPC), and data analytics

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« Acquisition Provides Altair with General Data Set Analytics and Design Technology Expansion

- In <u>September 2022</u>, Altair announced the completion of the acquisition of RapidMiner, a low-code platform for data analytics and machine learning
 - This acquisition expands Altair's offering into general analytics of large, complex data sets
 - Although we expect Altair to initially point this offering to its traditional analysis markets, we expect it to be offered as a genal analytics tool for a variety of domains
- In June 2022, Altair announced the acquisition of Concept Engineering, a provider of software for visualizing electronic systems for the design, production, and maintenance of intricate electronic and electrical systems
 - With the acquisition of Concept Engineering, Altair will offer customers visual representations of complex system models and debug capabilities for electronic systems
- In June 2022, Altair acquired Gen3D, expanding design technology for additive manufacturing
 - Gen3D's technology provides a means for creating geometry using implicit modeling methods which traditional boundary representation (BREP) solid methods cannot achieve
- In March 2022, Altair expanded its electronic system design technology with the acquisition of **Powersim**
 - PSIM, which is Powersim's main product provides tools for electronics and motor drive simulation and design software, delivers unrivaled simulation speed and precise system-level results
- In February 2022, Altair acquired CassiniPLM to advance development of digital thread technology
 - The comprehensive view of digital thread activities in the simulation portion of the PLM value chain is strengthened by incorporating Cassini's solution via the Altair One cloud platform
 - The acquisition also provides a broader foundation for Altair's expansion in Simulation Lifecycle Management

« Altair Eyes HPC Advancements with Xscape Photonics Investment

- In <u>December 2022</u>, Altair led a seed funding round for Xscape Photonices with a \$10M investment
 - Photonic chips made by Xscape Photonics feature patent-pending technology for ultrahighbandwidth connections in data centers and high-performance computing (HPC) systems



Altium

Business Overview

(\$ in millions)

Total Acquisitions: 12
Enterprise Value (EV): \$3.522.2

TTM Revenue: \$220.5
TTM EBITDA: \$83.56

EV / TTM Revenue: 15.97x

EV / TTM EBITDA: 42.2x

Description:

Printed circuit board (PCB) design software products and electronic component data management

TTM January 2023 Market Pricing



« Altium Focused on Executing Next Generation of Electronic Designers

- In March 2022, Altium launched Electronic Design Program for university students
 - With this new program, Altium intends to prepare students to advance industry-level printed circuit board design and manufacturing careers
- In January 2022, Nexar, a business unit of Altium, announced a new partnership with SiliconExpert
 - The partnership aims to address component lifecycle issues faced by PCB designers by integrating part data from SiliconExpert into the Altrium PCB design tool workflows
- In <u>January 2022</u>, Altium and MacroFab partnered to launch integrated PCB "Design WITH Manufacturing" application
 - Altimade, which is available on MacroFab's fully digital, elastic manufacturing platform and is connected directly to the Altium 365 cloud platform, enables customers to get an instant quote and place an order to produce their PCB assembly without ever leaving their design environment

« Altium's Business Unit, Nexar, Launches New Product in 2022

- In <u>July 2022</u>, Nexar, a business unit of Altium, announced the launch of the Octopart CAD Model Marketplace
 - Nexar is a free database made up of a repository of computer aided design (CAD) models for electronic components
 - Octopart, part of the Nexar ecosystem, is an electronic component search engine powered by part data and intelligence from the Nexar API
 - Octopart's new CAD Model Marketplace streamlines PCB design and part selection workflows to create a single unified user experience that aggregates CAD models



Ansys

Business Overview

(\$ in millions)

Headquarters: Canonsburg, PA
LinkedIn Employees (1-Yr. Growth): 6,628 (▲9%)
Website: ansys.com
Ownership Status: Public (NasdaqGS: ANSS)
Acquisitions Since 2010: 39

Enterprise Value (EV): \$24,609.2 TTM Revenue: \$2,027.1

TTM EBITDA: \$835.3 EV / TTM Revenue: 12.25v

EV / TTM Revenue: 12.25x EV / TTM EBITDA: 28.7x

Description:

Engineering simulation software solutions for product design and development across aerospace & defense, automotive, electronics, semiconductors, energy, and more

TTM January 2023 Market Pricing



« Ansys Continues to Build Out Simulation Capabilities

- In January 2023, Ansys acquired particle dynamics simulation software Rocky
 - RockyDEM provides tools to aid in resolving design issues involving discrete solids and intricate multi-physics interactions
 - Rocky DEM's representation of application-specific particle shapes is focused on the engineering of bulk materials handling equipment
- In <u>December 2022</u>, Ansys and automotive simulation company DYNAmore signed a definitive acquisition agreement
 - DYNAmore is a longtime channel and software development partner of Livermore Software Technology Corporation (LSTC), which Ansys acquired in 2019
 - According to ANSYS, the company's software and services are used by more than 150 universities and has nearly 800 industrial customers
- In May 2022, Ansys acquired Motor Design Limited, a provider of design and simulation tools for motors and electric machines
 - The acquisition of Motor Design Limited (MDL) builds on the existing partnership and collaboration between the two companies
 - Ansys and Motor Design are quite familiar with one another as they were previously distribution partners for a number of years prior to the acquisition
- In <u>April 2022</u>, Ansys signed a definitive agreement to acquire OnScale, a provider of cloud simulation technology
 - OnScale will help provide a cloud-native, web-based user interface (UI) for device-independent access to Ansys' extensive array of simulation technologies once it is incorporated into the company's existing cloud portfolio

« CFO of Teradata Joins Ansys Board of Directors

- In <u>December 2022</u>, Ansys appointed Claire Bramley to the board of directors
 - Claire is the current Chief Financial Officer at Teradata Corporation, a data platform for enterprise analytics company



Aras

Business Overview

(\$ in millions)

Headquarters: Andover, MA LinkedIn Employees (1-Yr. Growth): 544 (\blacktriangle 13%) Website: aras.com

Ownership Status: PE-backed (*GI Partners*)
Total Acquisitions: 4

Enterprise Value (EV): n/a
TTM Revenue: n/a
TTM EBITDA: n/a

TTM EBITDA: n/a
EV / TTM Revenue: n/a
EV / TTM EBITDA: n/a

Description:

Open product lifecycle management platform that connects users in all disciplines and functions to critical product data and processes across the lifecycle and throughout the extended supply chain

Select Funding / Transaction History

Date	Lead Investor	Amount
Apr-21	GI PARTNERS	n/a (buyout)
Nov-18	Goldman Sachs	\$70.0 million (Series D)
Oct-18	SCP SAVANO CAPITAL PARTNERS	\$1.5 million (Series C?)
Sep-17	SILVERLAKE	\$39.5 million (Series C)
Nov-17	BLUE CLOUD VEATURES	\$2.79 million (Series B)

« Merger Focused on Industry-Specific Applications for Medical Technology

- In <u>January 2022</u>, Aras announced the merger with Minerva for PLM Functionality focused on the Medical Devices and High-Tech Electronics industries
 - The merger provides vertical industry knowledge in the production of automotive, aerospace, defense, and industrial equipment, and will provide Aras a direct, local presence in the Netherlands and the Nordics
 - Minera's products were already built on the Aras platform

« AVEVA Partnership Leads to Innovative Cloud-Based Asset Lifecycle Management Solutions

- In <u>September 2022</u>, Aras announced a Strategic Licensing Partnership with AVEVA
 - This partnership will integrate Aras's portfolio of applications with AVEVA Unified Engineering and AVEVA Asset Information Management
 - The partnership brings Aras' PLM product closer to meeting the needs of Asset Lifecycle Management

Digital Twin Deployment

- In June 2022, Bureau Veritas and Aras Deploy Digital Twin Pilots
 - The maritime industry will benefit from this collaboration, which will provide Aras customers with a more advanced and enhanced digital experience for all services



Autodesk

Business Overview

(\$ in millions)

San Rafael, CA Headquarters: LinkedIn Employees (1-Yr. Growth): 13,965 (3%)

Website: autodesk.com

Public (NasdagGS: ADSK) Ownership Status: **Total Acquisitions:** 110

Enterprise Value (EV): \$50,473.5

TTM Revenue:

\$4,898.4 TTM FBITDA:

\$1,784..9

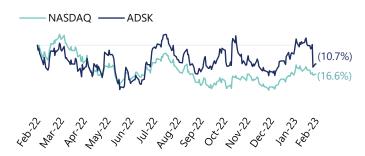
EV / TTM Revenue: 10.30x EV / TTM EBITDA:

28.1x

Description:

Computer-aided design software for architecture, engineering, construction, manufacturing, and media

TTM January 2023 Market Pricing



« Autodesk Enters New Era of Al-Powered Design Tools

- In October 2022, Autodesk AI Lab continued to expand their efforts within AI-powered design tools
 - Formed in 2018 as a part of Autodesk Research, the Autodesk Al Lab conducts fundamental and applied research in AI and machine learning with an aim to unlock a new era of AIpowered design tools for Autodesk customers
- In September 2022, Autodesk announced advancements in cloud-based solutions that extend the digital thread and drive sustainability
 - With Autodesk Tandem, iOffice + SpacelQ, and Innovyze, Autodesk is expanding its support for the building lifecycle downstream into the owner-operators' market
 - In February 2022, Autodesk acquired Prodsmart, a real-time system of record for data collection, management, and analysis
 - Prodsmart provides production managers with information from order to shipping
 - This address a critical need of manufacturers by providing them insight into and management of their supply chain, which affects overall manufacturing efficiency

In February 2022, Autodesk also acquired the IP assets of CIMCO, best known for its industryleading machine communication software and G-Code Visualization

 This technology provides Autodesk the ability to enhance machinists' connection to the larger product development cycle

« Enhanced Requirements Capabilities Through Partnerships

- In September 2022, Autodesk announced Fusion 360 extensions, partnerships, broader online availability announced at AU 2022
 - Extending Fusion 360's capabilities will meet requirements throughout the entire product design and manufacturing process

« New Addition to Board of Directors

- In August 2022, Autodesk appointed Rami Rahim to Board of Directors
 - Rahim is the Chief Executive Officer at Juniper Networks, a market leader in secure, Al-driven networks that provides solutions and insight into automation, and security



Bentley Systems

Business Overview

(\$ in millions)

Headquarters: Exton, PA
LinkedIn Employees (1-Yr. Growth): 4,674 (▲4%)
Website: bentley.com
Ownership Status: Public (NasdaqGS: BSY)
Total Acquisitions: 44
Enterprise Value (EV): \$13,942.9
TTM Revenue: \$1,079.9

TTM EBITDA: \$1,079.9

TTM EBITDA: \$348.6

EV / TTM Revenue: 12.87x

EV / TTM EBITDA: 39.6x

Description:

Software solutions for engineers, architects, geospatial professionals, constructors and owner-operators for the design, construction, and operations of infrastructure

TTM January 2023 Market Pricing



« Bentley Eyes Expansion into IoT Space

- In <u>February 2023</u>, Bentley acquired EasyPower, an electrical engineering design and analysis software maker
 - This broadens Bentley's comprehensiveness in infrastructure engineering by expanding integrated and iterative power system design and analysis for all kinds of infrastructure digital twins
- In <u>December 2022</u>, Seequent, a Bentley company, acquired DRIVER, an innovative solution for 3D analysis of geochemical data for insights and anomaly detection from Minerva Intelligence
 - Seequent's acquisition of DRIVER adds to the portfolio's growing technological capability by utilizing data science to provide deeper data insights, workflow optimization, and improved project outputs
- In <u>August 2022</u>, Bentley Acceleration Initiative announced the acquisition of eagle.io, a cloud-based environmental Industrial Internet of Things (IIoT) platform
 - With this acquisition, Bentley will be able to enhance its infrastructure IIoT offerings and expand its presence in Australia, New Zealand, and the Asia-Pacific
- In <u>April 2022</u>, Bentley Systems announced the acquisition of ADINA, developer of finite element analysis software
 - The acquisition will extend nonlinear simulation throughout infrastructure engineering
 - With the ability to simulate the entire behavior of structures, users of infrastructure digital twins will have a more complete analysis than designs that are simply analyzed to meet prescribed code standards

« 2022 Product Focus on Infrastructure Lifecycle and Value Chain

- In <u>November 2022</u>, Bentley Systems launched iTwin Experience, iTwin Capture, and iTwin IoT to Extend iTwin platform
 - The iTwin platform is a platform of APIs and libraries for digital twin applications
 - The platform handles data integration, visualization, change tracking, security, and analytics
 of digital twins for infrastructure assets



Cadence Design Systems

Business Overview

(\$ in millions)

Headquarters: San Jose, CA LinkedIn Employees (1-Yr. Growth): $8,619 \ (\triangle 2\%)$

Website: <u>cadence.com</u>

Ownership Status: Public (NasdaqGS: CDNS)
Total Acquisitions: 49

Enterprise Value (EV): \$51,667.8

LTM Revenue: \$3,434.9

LTM EBITDA: \$1,453.7

EV / LTM Revenue: 15.05x

EV / LTM EBITDA: 35.5x

Description:

Cadence is a full-service contract manufacturing partner, providing initial product design and development through complete manufacturing. The Company also provides electronic design automation (EDA) tools, IP portfolio for chip designs, and comprehensive suite of verification tools and hardware to verify the chip, package, board, and design

TTM January 2023 Market Pricing



« Acquisitions Provide Cadence with Medical Device and Commercial Components

- In <u>January 2023</u>, Cadence announced the acquisition of Utitec, Inc. a manufacturer specializing in miniature, deep drawn medical device and commercial components
 - This acquisition positions Cadence to enter the medical device contract manufacturing market
- In <u>November 2022</u>, Cadence closed its acquisition of Antrim Design Systems, maker of analog design tools
 - Thanks to the Antrim acquisition, Cadence's Analog Design Environment now supports behavioral characterization, modeling, and rapid analog prototyping
- In <u>July 2022</u>, Cadence acquired computational molecular design company OpenEye Scientific for \$500M
 - The deal is expected to add approximately \$40M revenue in fiscal 2023 and will close in Q3 2022
 - This acquisition is another data point of Cadence's expansion out of its traditional markets
- In <u>July 2022</u>, Cadence completed the acquisition of Future Facilities, a company focused on CFD and operational management of data centers for \$100M
 - The Cadence Intelligent System Design strategy supports its multi-physics system analysis and computational fluid dynamics (CFD) portfolios are expanded by the addition of Future Facilities' technologies and expertise

« Major Partnership with McLaren Formula 1 Team

- In May 2022, Cadence was named an Official Technology Partner of the McLaren Formula 1 Team
 - McLaren plans to leverage Cadence's simulation technology in the area of CFD



Dassault Systemes

Business Overview

(\$ in millions)

Vèlizy-Villacoublay, France Headquarters: LinkedIn Employees (1-Yr. Growth): 23,146 (49%)

Website: 3ds.com

Ownership Status: Public (PAR: DSY) 54

Total Acquisitions:

Enterprise Value (EV): \$49,106.7

TTM Revenue: \$5,895.7

TTM EBITDA: \$2,232.8

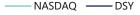
EV / TTM Revenue: 8.33x

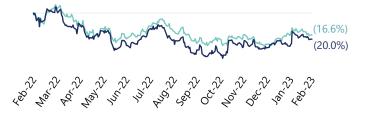
EV / TTM EBITDA: 21.9x

Description:

3D modeling applications, simulation applications creating virtual twins of products or production systems, social and collaborative applications, and information intelligence applications

TTM January 2023 Market Pricing





« Bringing Augmented Reality and Field Control Technology to its Manufacturing Customers

- In September 2022, Dassault Systèmes acquired Diota, developer of assembly assistance and quality control software solutions for manufacturing and operations
 - The acquisition will enhance Dassault Systèmes' 3DEXPERIENCE platform with shop floor-based actionable virtual twin experiences, enabling other industries, including aerospace and defense, industrial equipment, transportation and mobility, and others, to improve the efficiency of intricate industrial processes
 - Dassault Systèmes will integrate Diota's solutions into its DELMIA applications

« Significant Partnerships Shape 2022 for Dassault Systemes

- In November 2022, Dassault Systèmes announced that Blue Spirit Aero, an aviation startup utilizing the power of hydrogen fuel cell technology, is utilizing the cloud-based Dassault Systèmes 3DEXPERIENCE platform to accelerate the development of its hydrogen-electric light aircraft and advance the certification of accessible clean aviation
 - From concept to certification, the aircraft's development on the 3DEXPERIENCE platform will support the hydrogen economy and demonstrate the viability of cleaner aviation solutions
- In October 2022, Dassault Systèmes Partnered with Sanofi to Optimize Tech Transfer and Industrialization at Its Future "EVolutive Facilities"
 - Sanofi will use the 3DEXPERIENCE platform to design, implement, qualify, and operate modular production lines at its new "EVolutive Facilities" (EVF) in Singapore and France



Gamma Technologies

Business Overview

(\$ in millions)

Headquarters: Westmont, IL LinkedIn Employees (1-Yr. Growth): 213 (16%) Website: atisoft.com PE-backed (TA, Insight) Ownership Status: 3 Acquisitions: Enterprise Value (EV): n/a TTM Revenue: n/a TTM EBITDA: n/a EV / TTM Revenue: n/a EV / TTM EBITDA: n/a

Description:

Multi-physics CAE system simulation software spanning fluid flow, thermal, mechanical, electrical, magnetic, chemistry, and controls primarily for engines, vehicle systems & components, and more

Select Funding / Transaction History

Date	Lead Investor	Amount
Feb-22	INSIGHT PARTNERS	n/a (minority transaction)
May-18	COVE HILL PARTNERS	n/a (secondary transaction)

« GT Acquisitions Center Around High Efficiency, Decarbonization, and Zero-Emissions

- In November 2021, Gamma Technologies announced it has entered into an agreement to acquire FEMAG Software
 - FEMAG technologies, integrated within the GT-SUITE system simulation platform, enable optimization of motor performance and propulsion efficiency
 - Gamma will establish a Global Center of Excellence for Electric Machines in Basel, Switzerland to extend the FEMAG software technologies and related industry solutions
- In November 2021, Gamma Technologies acquired Exothermia S.A.
 - The acquisition of GT enables the development of next-generation systems with a focus on high efficiency, decarbonization, and zero-emission vehicles

« Insight Partners Provides Key Investment to Continue Growth Mission

- In <u>February 2022</u>, Gamma Technologies received a strategic growth investment from Insight Partners
 - Insight Partners joins existing investors TA Associates and Cove Hill Partners
 - The majority shareholder in Gamma Technologies is still TA, which made its initial investment in the business in 2015; Cove Hill, an investor since 2018, and Insight Partners will each hold significant minority stakes

« GT and KULR Technology Partners Ink Partnership

- In October 2022, Gamma Technologies announced a partnership with KULR Technology Partners
 - As a result of the partnership, KULR will incorporate Gamma Technologies' GT-SUITE multiscale, multi-physics analysis platform into its robust, all-encompassing product and service portfolio. Using GT-SUITE's simulation capabilities, KULR can create highly optimized designs for the next generation of batteries to ensure that its customers have access to cutting-edge solutions



Hexagon

Business Overview

(\$ in millions)

Stockholm, Sweden Headquarters: LinkedIn Employees (1-Yr. Growth): 3,461 (10%) Website: hexagon.com Ownership Status: Public (STO: HEXA-B) Acquisitions: 108 Enterprise Value (EV): \$34,719.1 TTM Revenue: \$5,376.2 TTM FBITDA: \$2,040.9 EV / TTM Revenue: 6.46x

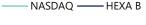
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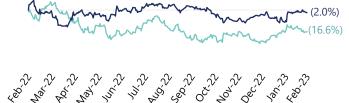
Description:

EV / TTM EBITDA:

Global leader in sensor, software, and autonomous solutions for industrial, manufacturing, infrastructure, safety, and mobility applications

TTM January 2023 Market Pricing





« Hexagon Goes On Acquisition Spree Under New CEO

- In <u>January 2023</u>, Hexagon purchased Projectmates to expand its construction offering
 - Projectmates recently reinvented itself as a SaaS-based platform to manage planning through handover in one central repository
- In <u>December 2022</u>, Hexagon announced the acquisition of Oognify, provider of Physical Security and Enterprise Incident Management software solutions
 - Qognify was formed in 2015 when Battery Ventures acquired the physical security division of NICE Systems
- In April 2022, Hexagon completed the acquisition of ETQ
 - ETQ provides a platform for automating the collection and delivery of manufacturing quality control data, non-conformance reports, customer feedback
 - ETQ will operate within Hexagon's Manufacturing Intelligence division
- In <u>April 2022</u>, Hexagon furthered its commitment to innovation in the Operations & Maintenance segment with the acquisition of Innovatia Accelerator
 - Procedure Lifecycle Management (PLCM), a Connected Worker Platform (CWP), a Learner Experience Platform (LXP), and a Component Content Management System (CCMS) are all components of the AcceleratorKMS solution
- In <u>January 2022</u>, Hexagon announced the acquisition of Minnovare, provider of drilling technology that improves the speed, cost and accuracy of underground drilling
 - A crucial strategic fit exists between the cutting-edge mining solutions offered by Minnovare and Hexagon's solid core technical expertise

« Hexagon Appoints New President and CEO

- In <u>January 2022</u>, Hexagon appointed Paolo Guglielmini as new President and CEO of Hexagon
 - Paolo Guglielmini succeeded Ola Rollén as President and CEO of Hexagon AB, effective 31 December 2022



Jama Software

Business Overview

(\$ in millions)

Headquarters:

Portland, OR

LinkedIn Employees (1-Yr. Growth):

252 (▲9%)

Website:

jamasoftware.com

PE-backed (Insight)

Total Acquisitions:

1

Enterprise Value (EV): n/a
LTM Revenue: n/a
LTM EBITDA: n/a

EV / LTM Revenue: n/a
EV / LTM EBITDA: n/a

Description:

Global leader in sensor, software, and autonomous solutions for industrial, manufacturing, infrastructure, safety, and mobility applications

Select Funding / Transaction History -

Date	Lead Investor	Amount
Jun-18	INSIGHT PARTNERS	\$200.0 million (majority)
May-17	n/a	\$10.0m (Series B2)
Mar-15	updata	\$19.5 million (Series B1)
Aug-13	Trinity VENTURES	\$2.79 million (Series B)

« Jama Software and Sterling PLM Form Partnership

- In <u>December 2022</u>, Jama software partnered with Sterling PLM
 - This partnership expands Jama's Lifecycle Management and Live Traceability expertise offerings

« Jama Connect Gets New Face Lift

- In December 2022, Jama Software launched Jama Connect for robotics
 - Jama Connect for Robotics is a comprehensive collection of frameworks, example projects, and procedural, export, and configuration documentation that aids teams in accelerating deployment, ensuring best practices are adopted, and increasing innovation success rates
- In October 2022, Jama Software released Jama Connect Advisor, the industry's first native Natural Language Processing (NLP) Advisor to improve and manage requirements
 - Leveraging NLP Jama is working towards making the definition of requirements more straightforward and efficient.
 - Additionally, as part of this offering, Jama is providing a subset of the INOSE (International Council on Systems Engineering) Guide for Writing Requirements v3 recommended guidelines



PTC

Business Overview

(\$ in millions)

Headquarters: Boston, MA
LinkedIn Employees (1-Yr. Growth): 6,958 (▼3%)
Website: ptc.com
Ownership Status: Public (NasdaqGS: PTC)
Total Acquisitions: 40

Enterprise Value (EV): \$16,796.4 TTM Revenue: \$1 941 5

TTM EBITDA: \$1,941.5

EV / TTM Revenue: 8.65x

EV / TTM EBITDA: 21.2X

Description:

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

TTM January 2023 Market Pricing



Extending The Digital Thread To Outside The Factory Floor Through Acquisition

- In November 2022, PTC announced the acquisition of field service management provider ServiceMax for \$1.5B
 - ServiceMax provides a suite of cloud-native FSM capabilities for servicing complex longlifecycle products, including managing information about serviced products, creating and managing work orders, and scheduling and dispatching technicians
 - The acquisition adds field service management (FSM) capabilities PTC's PLM and IIoT capabilities
- In May 2022, PTC completed the acquisition of Intland Software for \$278.1M
 - PTC's Application Lifecycle Management (ALM) footprint will be expanded by Intalnd's Software across safety-critical and regulated industries like automotive, life sciences, consumer electronics, and aerospace and defense
 - PTC intends to offer its Windchill and Arena PLM products alongside the Intland Codebeamer ALM suite

« PTC and Schaeffler Ink Partnership

- In <u>January 2022</u>, PTC announced a strategic alliance with Schaeffler, a global automotive and industrial supplier
 - PTC's solutions will be used by Schaeffler to standardize the IT landscape and develop digitally advanced capabilities for product development

« Various Executive Changes Within PTC

- In May 2022, PTC expanded roles for executive team members
 - Mike DiTullio, a veteran PTC executive who is currently the president of PTC's Velocity group, will take over as the president of the larger Digital Thread group
 - In addition, Catherine Kniker, who is currently in charge of strategy at PTC, will take on a new position as chief strategy and sustainability officer, which will allow her to broaden the scope of her charter
 - After a period of transition, Troy Richardson, who has led PTC's Digital Thread group for the past year, will leave the company



Revalize

Business Overview

(\$ in millions) Jacksonville, FL Headquarters: LinkedIn Employees (1-Yr. Growth): 350 (1%) revalizesoftware.com Website: Ownership Status: PE-backed (TA) Acquisitions: 11 Enterprise Value (EV): n/a LTM Revenue: n/a ITM FBITDA: n/a EV / LTM Revenue: n/a EV / LTM EBITDA: n/a

Description:

Configure, price, quote, and supply chain software helping manufacturers streamline and accelerate their revenue processes

Select Funding / Transaction History

Date	Lead Investor	Amount
Nov-21	× Нg	\$25.5 million
Jun-21	TA ASSOCIATES	n/a (buyout)
Dec-18	Luminate	n/a (buyout)

« New Platform Completes Ten Acquisitions in Debut Year

- In August 2021, Revalize announced the acquisition of four companies that extends the reach of the Company's solution portfolio and increases their global customer base to 9,000+ users
 - Attainia a medical equipment planning solution, connecting hospitals, suppliers, consultants, and group purchasing organizations (GPOs) with a catalog that includes over 70,000 medical devices and healthcare equipment
 - **BCA Technologies** a platform connecting building product manufacturers to the architecture, engineering, and construction (AEC) value chain
 - LeadMethod a lead management solution that strengthens distributor engagement
 - MicroD a platform with eCommerce, CPQ, and visualization capabilities, that connects home furnishing manufacturers with distribution channels

This expands on the previous acquisitions of:

- AutoQuotes, a CPQ (configure, price, quote) and product design analytics software platform, ultimately forming a new cloud-based platform for manufacturers
- **Procad Group** a developer of a product and document lifecycle management platform designed to digitalize business processes in product development and management
- SpecPage is a developer of PLM and quality assurance solutions for recipe-based, process manufacturers
- **Tenado** provider of computer-aided design (CAD) software solutions for the metal and wood fabrication trades, mechanical engineering, fore protection and traffic management sectors
- **Sofon** provider of Guided Selling and CPQ software solutions

SIEMENS

Siemens

Business Overview

(\$ in millions)

Munich, Germany Headquarters: LinkedIn Employees (1-Yr. Growth): 206,223 (7%) Website: <u>siemens.com</u> Ownership Status: Public (ETR: SIE) **Total Acquisitions:** 68 Enterprise Value (EV): \$168,246.3 TTM Revenue: \$77,875.3 TTM FBITDA: \$10,844.4

2.16x

15.5x

Description:

EV / TTM Revenue:

EV / TTM EBITDA:

Silicon chip design, verification, IP integration, and application security testing solutions

TTM January 2023 Market Pricing



« Siemens Expands Its Integrated Circuit Portfolio

- In <u>November 2022</u>, Siemens acquired Avery Design Systems, enabling system and SOC design teams to achieve functional verification productivity improvements
 - As part of its suite of electronic design automation (EDA) integrated circuit (IC) verification offerings, Siemens intends to include Avery's technology in the Siemens Xcelerator portfolio

« New Products With a Heavy Focus on Simulation Capabilities

- In November 2022, Siemens expanded access to advanced simulation with Simcenter Cloud HPC
 - Simcente Cloud HPC software brings scalable, on-demand, high-performance simulation capabilities to Siemens Xcelerator as a Service (XaaS)
 - New Simcenter Cloud HPC provides instant on, rapidly scalable cloud-based high performance computing (HPC) for complex simulation studies, hosted on AWS

« Siemens Launches Partnership for ESG Data

- In <u>September 2022</u>, Siemens announced its collaboration with Sustamize GmbH, a company
 providing professional technology, data and software solutions enabling companies to measure,
 optimize and manage CO2 emissions
 - Siemens and Sustamize collaborate to add carbon emissions data to Siemens Xcelerator
- In March 2022, Siemens announced a strategic partnership with Roboze, a machine vendor for high-end finished 3D printed parts for the industrial, aerospace, and automotive sectors
 - The partnership brings together the expertise of both companies to create comprehensive workflows for the industrialization of 3D printing and to broaden production opportunities for companies in the energy, mobility, and aerospace industries

« Siemens Opens New Technology Hub in Charlotte

- In <u>April 2022</u>, Siemens opened a new technology hub in Charlotte, NC
 - Siemen's customers' plans for the industrialization of additive manufacturing (AM) will be aided by this brand-new strategic research and development center, which is now independently operated and led by Siemens Digital Industries, Siemens Technology, and Siemens Energy

SYNOPSYS

Synopsys

Business Overview

(\$ in millions)

Headquarters: Mountain View, CA
LinkedIn Employees (1-Yr. Growth): 17,206 (▲13%)
Website: synopsys.com

Ownership Status: Public (NasdaqGM: SNPS)
Total Acquisitions: 80

Enterprise Value (EV): \$49,342.4

TTM Revenue: \$4,204.2 TTM EBITDA: \$921.8

EV / TTM Revenue: 11.74x

EV / TTM EBITDA: 53.5x

Description:

Silicon chip design, verification, IP integration, and application security testing solutions

TTM January 2023 Market Pricing



« Synopsys Makes Key Acquisition from NTT

- In <u>April 2022</u>, Synopsys acquired WhiteHat Security from NTT
 - Synopsys will now offer a complete portfolio for application security testing thanks to WhiteHat Security's significant SaaS capabilities and market-leading dynamic application security testing (DAST) technology

« Partnerships Further Semiconductor and System-Level Innovation

- In October 2022, Synopsys and TSMC worked together to create the most comprehensive multidie design solutions for TSMC's cutting-edge technologies, enabling system innovation
 - In order to help mutual customers, meet the stringent power and performance requirements for complex multi-die systems, Synopsys collaborates with TSMC on the 3DbloxTM standard and 3DFabricTM technologies to provide a system-wide strategy that includes productiontested solutions
- In <u>June 2022</u>, Synopsys and Arm expanded their partnership to advance Arm's total compute solutions' Next-Gen Mobile SoCs
 - In accordance with Arm Total Compute's principles, Synopsys and Arm continue to deepen and broaden their collaboration activities to accelerate time-to-market through silicon-ready, highly optimized system design and implementation solutions
- In <u>April 2022</u>, Synopsys and Juniper Networks closed a deal to form a new, separate company that will offer an open silicon photonics platform to the industry to meet the growing demand for photonics
 - Integrated lasers, optical amplifiers, and a comprehensive collection of photonic components will make up the new company's open silicon photonics platform, which will be accessible through a Process Design Kit (PDK)

« Synopsys Introduces Industry's First Board-Scale SaaS Solution

- In <u>March 2022</u>, Synopsys launched industry's first Broad-Scale Cloud SaaS solution to transform chip development landscape
 - This will drive significantly greater productivity and efficiency for increasingly complex chip designs

Other Companies Our Engineering Practice is Tracking MADISON PARK GROUP

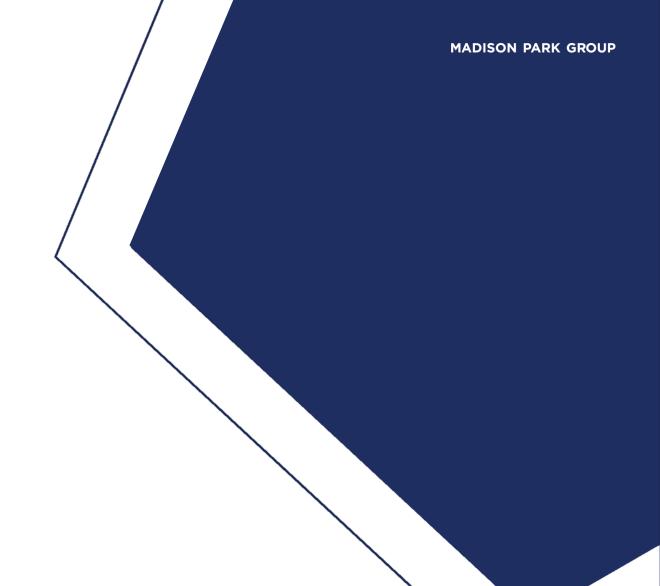
Limited Deal Activity in 2022, but Still on Our Radar

mensch <mark>≭</mark> maschne CAD as CAD can	(\$ in millions)
Business Overview	
Headquarters:	Wessling, Germany
LinkedIn Employees (1-Yr. Growth):	161 (▲6%)
Website:	<u>mum.de</u>
Ownership Status:	Public (ETR: MUM)
Total Acquisitions:	6
Enterprise Value (EV):	\$868.9
LTM Revenue:	\$325.0
LTM EBITDA:	\$54.4
EV / LTM Revenue:	2.67x
EV / LTM EBITDA:	15.9x
Description: Computer Aided Design, Manufacturing and Engineering, Management and Building Information Modelling/Manag	

NEMETSCHEK Group	(\$ in millions)
Business Overview	
Headquarters:	Munich, Germany
LinkedIn Employees (1-Yr. Growth):	3,019 (\$\textstyle 9%)
Website:	nemetschek.com
Ownership Status:	Public (ETR: NEM)
Total Acquisitions:	14
Enterprise Value (EV):	\$6,580.0
LTM Revenue:	\$850.2
LTM EBITDA:	\$290.8
EV / LTM Revenue:	7.73x
EV / LTM EBITDA:	22.6x
Description: Global leader in sensor, software, and autonomous solut manufacturing, infrastructure, safety, and mobility applic	

evi	(\$ in millions)
Business Overview	
Headquarters:	Paris, France
LinkedIn Employees (1-Yr. Growth):	1,780 (▼2%)
Website:	<u>esi-group.com</u>
Ownership Status:	Public (PAR: ESI)
Total Acquisitions:	19
Enterprise Value (EV):	\$475.3
TTM Revenue:	\$158.8
TTM EBITDA:	\$56.6
EV / TTM Revenue:	3.03x
EV / TTM EBITDA:	8.4x
Description: Virtual prototyping software that simulates a product's l manufacturing, and real-life use	pehavior during testing,

ZUKEN °	(\$ in millions)
Business Overview	
Headquarters:	Yokohama, Japan
Employees (1-Yr. Growth):	407 (▲5%)
Website:	<u>zuken.com</u>
Ownership Status:	Public (TKS: 6497)
Acquisitions:	3
Enterprise Value (EV):	\$337.6
TTM Revenue:	\$257.8
TTM EBITDA:	\$41.4
EV / TTM Revenue:	1.31x
EV / TTM EBITDA:	8.2x
Description: Software products and consulting services for electrical and engineering design processes	d electronic





Market Comparables

Public Companies

Engineering & Design

MADISON PARK GROUP

	Share Price	% 52-Wk	Market	Enterprise		Revenue N	/letrics ⁽²⁾		Prof	itability Margin	ns ⁽²⁾	EV / R	evenue	EV / EB	ITDA ⁽³⁾	Dry	Last 24M
Company(1)	2/28/2023	High	Сар	Value	CY22E	CY23E	Y/Y	% Rec	TTM GM	TTM EBITDA	CY22E	CY22E	CY23E	CY22E	CY23E	Powder(4)	Acqs.
Altair Engineering	\$64.06	93.0%	\$5,397	\$5,421	\$558	\$619	10.9%	74.7%	78.5%	5.0%	20.5%	9.71x	8.76x	n/m	42.7x	\$1,772	7
Altium	\$25.88	92.5%	\$3,407	\$3,205	\$233	\$275	18.1%	60.0%	53.0%	34.7%	37.4%	13.76x	11.64x	38.6x	31.1x	\$1,276	-
ANSYS	\$303.61	90.9%	\$26,570	\$26,845	\$2,026	\$2,289	13.0%	46.2%	91.2%	34.7%	43.8%	13.25x	11.73x	31.2x	26.8x	\$9,037	3
Autodesk	\$198.69	84.5%	\$42,871	\$43,590	\$4,948	\$5,389	8.9%	91.8%	91.6%	21.6%	37.8%	8.81x	8.09x	23.8x	21.4x	\$15,290	6
Bentley Systems	\$40.46	88.5%	\$12,685	\$14,438	\$1,094	\$1,208	10.4%	91.9%	78.4%	25.5%	34.0%	13.20x	11.95x	39.7x	35.2x	\$3,836	6
Cadence Design Systems	\$192.94	95.1%	\$52,989	\$53,031	\$3,547	\$4,035	13.8%	94.5%	89.6%	34.1%	44.5%	14.95x	13.14x	34.5x	29.5x	\$17,410	4
Dassault Systèmes	\$38.83	78.6%	\$51,386	\$52,022	\$6,024	\$6,387	6.0%	71.8%	83.8%	33.8%	35.8%	8.64x	8.15x	22.7x	22.7x	\$20,462	2
ESI	\$81.32	100.0%	\$470	\$485	\$144	\$150	4.2%	82.7%	76.3%	10.2%	22.8%	3.37x	3.23x	16.9x	14.2x	\$265	-
Hexagon	\$11.14	82.8%	\$29,970	\$33,627	\$5,502	\$5,616	2.1%	40.0%	65.1%	33.8%	37.0%	6.11x	5.99x	17.0x	16.2x	\$13,294	12
Mensch Maschine	\$50.42	77.1%	\$855	\$873	\$336	\$352	4.6%	-	51.3%	16.6%	17.5%	2.60x	2.48x	15.7x	14.2x	\$441	-
Nemsetschek Group	\$56.99	56.6%	\$6,582	\$6,551	\$860	\$897	4.3%	-	54.5%	27.2%	30.6%	7.62x	7.30x	23.6x	23.9x	\$2,533	-
PTC	\$125.33	89.6%	\$14,822	\$15,985	\$1,967	\$2,169	10.3%	87.9%	80.1%	29.5%	40.5%	8.13x	7.37x	22.3x	18.2x	\$5,291	3
Siemens	\$153.61	95.1%	\$121,742	\$169,428	\$72,183	\$82,207	13.9%	-	36.2%	13.9%	17.4%	2.35x	2.06x	14.9x	11.9x	\$42,812	2
Synopsys	\$363.76	93.0%	\$55,904	\$55,482	\$5,204	\$5,915	13.7%	84.0%	80.3%	24.4%	36.8%	10.66x	9.38x	29.9x	25.5x	\$18,650	5
Zuken	\$25.75	90.3%	\$599	\$402	\$253	\$263	4.1%	-	68.8%	15.7%	n/m	1.59x	1.53x	40.5x	n/a	\$461	-
Mean		87.2%	\$28,417	\$32,092	\$6,992	\$7,851	9.2%	55.0%	71.9%	24.0%	32.6%	8.32x	7.52x	26.5x	23.8x	\$10,189	5
Median		90.3%	\$14,822	\$15,985	\$1,967	\$2,169	10.3%	71.8%	78.4%	25.5%	36.3%	8.64x	8.09x	23.7x	23.3x	\$5,291	5

Source: CapitalIQ

⁽¹⁾ Currency normalized to USD, on share price date

⁽²⁾ Wall Street consensus estimates

⁽³⁾ EV / Revenue and EV / EBITDA multiples in excess of 50.0x or less than 0.0x are considered not meaningful

MADISON PARK GROUP

		(\$ in Millions)		Target Overview			Transaction Statistics			
Altair	Gamma Technologies	Date Target			Estimated Revenue EBITDA		Deal Value	Deal Value / Revenue	Estimated EBITDA	
		Altair			Total	Disclosed	M&A Dea	l Value: \$382	.2 Million	
Altium	Hexagon	Sep-22 Jun-22 Jun-22 Mar-22 Feb-22 Feb-22 Dec-21	RapidMiner Concept Engineering Gen3D Powersim Magnitogorsk Iron & Steel Works Cassini World Programming	Low-code platform for data analytics and machine learning Visualization software for design, prodcution, & maintenance systems Software and consulting system for additive manufacturing Electronic system design technology Russian steel producer Unified cloud product lifecycle management platform Data analytics 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	\$100.0 \$27.3 n/a \$4.3 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	
Ansys	Jama Software	Aug-21 Feb-21 Oct-20 Sep-20 Sep-20 Jul-20	S-Frame Software GE Aviation (Flow Simulator Software) M-Base Ellexus Univa S&WISE WRAP	Dtructural analysis and design software solutions Integrated flow, heat transfer, and combustion design software Material information systems Input/output (I/O) analysis Enterprise-grade workload management Polyurethance foaming simulation 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 n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Aras	PTC	May-20 Jan-20 Oct-19 Apr-19 Nov-18 Oct-18 May-18	WKAP newFASANT Polliwog Co. Cambridge Collaborative Datawatch SIMSOLID FluiDyna GmbH	Spectrum management and radio network planning Electromagnetic simulation software EDA verification and evaluation High-frequency noise and vibration simulation Enterprise data preparation & visualization Structural analysis simulation software Fluid dynamics simulation software	n/a n/a n/a n/a \$41.7 n/a n/a	n/a n/a n/a n/a (\$9.3) n/a n/a	n/a n/a n/a n/a \$183.43 \$22.1 \$2.7	n/a n/a n/a n/a 4.40x n/a n/a	n/a n/a n/a n/a n/m n/a n/a	
Autodesk	Revalize	Mar-18 Sep-17 Sep-17 Jun-17 May-17 Sep-16 May-16	CANDI Controls Runtime Componeering Carriots MODELIIS Solid Iris Technologies CEDRAT	Real-time device control and data management EDA software optimizing application computing Composites analysis and design software IoT device enablement platform EDA for circuit modelling & systems design Rendering software for architecture applications Simulation software for mechatronic systems	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	\$2.4 \$25.5 n/a \$6.7 \$2.0 n/a \$5.1	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	
Bentley	Siemens	Mar-16 Sep-15 Apr-15 Jul-14 Dec-13 Nov-12 Jan-11	Awe Communications Click2Cast Multiscale Design Systems Visual Solutions EM Software & Systems Synopsis Consulting ACUSIN Software	Product design software for cellular devices Casting process simulation software Modeling, simulation, and testing software Commercial simulation software Consulting services for electromagnetic analysis Business consulting services for product dev. Computation fluid dynamics 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 \$0.7 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	
Cadence	Synopsys	Oct-10 Jan-07 Jan-07 Mar-03	SimLab Corporation solidThinking Hiqube PBS Works	Auto industry modeling and simulation software Integrated rendering engine design software Simulation-driven business analytics suite Secure workload management for computing	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	
Dassault	Zuken	Apr-19 Jul-18 May-18 May-18 Feb-18 Aug-17 Jan-17	Gumstix PCB:NG FluiDyna CANDI Controls TES International Upverter Premier EDA Solutions	Hardware development and manufacturing PCB manufacturing Predictive aerodynamic simulation tools Data protocol management for edge devices Thermal solutions for complex flow mapping Online circuit design platform Electronic design automation	\$2.3 n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	\$4.9 \$4.8 n/a n/a n/a \$5.6 \$4.0	2.13x n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	
ESI Group		Sep-16 Aug-16 Aug-15 Aug-15 Sep-10	Transfer Perception Software Octopart Ciiva Morfik Technology	Electronics design software Engineering productivity application Electronics parts search Electronic component management Cloud application development	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	\$1.8 \$7.9 \$18.0 \$4.0 \$3.1	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	

MADISON PARK GROUP

		(\$ in Millions)		Target Overview			Transaction Statistics			
Altair	Gamma Technologies	Date	Target		Estimated Revenue EBITDA		Deal Value	Deal Value / Revenue	Estimated EBITDA	
		ANSYS			To	otal Disclo	sed M&A I	Deal Value: \$	4.5 Billior	
Altium	Hexagon	Jan-23 Dec-22 Oct-22 May-22 May-22 Oct-21	Rocky DEM DYNAmore C&R Technologies Motor Design OnScale Zemax	Particle dynamics simulation software Automotive simulation Thermal-centric software Desing and simulation tools for motors & electric machines Cloud simulation technology Optical imaging and photonics simulation	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 \$411.5	n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Ansys	Jama Software	May-21 Oct-20 Mar-20 Oct-19 Sep-19 May-19 Feb-19	Phoenix Integration Analytical Graphics Inc. Lumerical Dynardo Livermore Software DfR Solutions Granta Design	Process integration and design optimization Mission-driven simulation, testing, and analysis Photonic simulation software Process integration and design tools Multi physics simulation software EDA design reliability analysis software Engineering materials information management	n/a \$80.0 \$11.3 n/a \$62.5 n/a \$20.0	n/a n/a n/a n/a n/a n/a \$2.0	n/a \$722.5 \$107.5 \$33.2 \$777.8 n/a \$208.7	n/a 9.03x 9.49x n/a 12.44x n/a 10.44x	n/a n/a n/a n/a n/a n/a n/m	
Aras	PTC	Jan-19 Mar-18 Nov-17 Jul-17 Mar-17 Nov-16 Sep-15	Helic Optis World 3DSIM Computational Engineering CLK Design Automation KPIT Delcross	Electro-magnetic cross-talk analysis software Optics engineering & simulation software Additive manufacturing process software Scientific data visualization software Static timing and power analysis software Automotive engineering software CEM & RF analysis software	n/a \$24.7 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 \$291.0 n/a \$6.0 n/a n/a n/a	n/a 11.78x 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	Revalize	Jul-15 Feb-15 Nov-14 May-14 Jan-14 May-13	Gear Design Newmerical Parsec Holdings SpaceClaim Reaction Design Tedaka Technologies Evolutionary Engineering	Semiconductor & electric design solutions In-flight icing simulation software Technology-drive negineering services 3D direct modeling software Chemical modeling & simulation software Telecom transmission & networking Aerospace and mechanical engineering	n/a n/a n/a \$18.0 n/a n/a	n/a n/a n/a n/a n/a n/a	\$30.0 \$10.9 \$8.4 \$85.0 \$19.1 \$2.8 \$8.1	n/a n/a n/a 4.72x n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Bentley	Siemens	Apr-13 Jul-12 Jun-11 Aug-08 Nov-07 May-06 Feb-06	Esterel Technologies Apache Design Ansoft Emerging Signals Fluent Aavid Thermal Technologies	Embedded software design Semiconductor design and verification Electronic design automation software Railway signaling services Computational fluid dynamics Thermal management software solutions	\$21.0 \$44.0 \$103.4 n/a n/a	n/a n/a \$41.7 n/a n/a n/a	\$58.2 \$314.0 \$823.8 \$2.2 n/a \$565.0	2.77x 7.13x 7.97x n/a n/a n/a	n/a n/a 19.7x n/a n/a n/a	
Cadence	Synopsys	Dec-05 Jan-05 Feb-03 Mar-02 Nov-01 Aug-00	Harvard Thermal Century Dynamics CFX Group IceBreaker Cadoe ICEM CFD	Thermal management software solutions Hydro-dynamics simulation Computational fluid dynamics software Online informational management software CAD & acoustic testing Aeronautics & automobile design	n/a n/a \$19.0 n/a n/a \$6.8	n/a n/a n/a n/a n/a n/a	n/a \$10.0 \$21.7 n/a \$3.9 \$12.4	n/a n/a 1.14x n/a n/a 1.82x	n/a n/a n/a n/a n/a	
Dassault	Zuken	Aras Corpor Jan-22 Sep-18 Aug-18 Jan-18	Minerva Group Comet Solutions SofTech (Italy) Info Spectrum (Impressa)	PLM for medical devices and high-tech electronics companies Process automation for CAE / simulation Public administration information systems MRO management suite	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	Value: n/a n/a n/a n/a n/a	
		Autodesk						Deal Value: \$		
ESI Group		Mar-22 Feb-22 Jan-22 Dec-21 Nov-21 Sep-21	The Wild Prodsmart Moxion ProEst Tangent Labs iOFFICE	Collaboration pltform designed to create and share VR/AR experiences Real-time system of record for data collection, management, and analysis Digital media platform for filmmaking process Construction estimating and digital takeoff software Production software pipline tool for artists and studios Workplace experience and asset management 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 n/a	n/a n/a n/a n/a n/a	
		May-21 Mar-21 Nov-20	Upchain Innovyze Spacemaker	Cloud product lifecycle management Business analytics and performance monitoring software Generative design for real estate project sites	n/a n/a n/a	n/a n/a n/a	\$139.8 \$1,038.3 \$252.9	n/a n/a n/a	n/a n/a n/a	

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		(\$ in Millions)		Target Overview			Trar	nsaction Statisti	tal Value / Estimated EBITDA Value: \$4.5 Billion n/a n/a n/a n/a 7.78x n/a						
Altair	Gamma Technologies				Estim	ated	Deal	Deal Value /	Estimated						
Altali	Garrina recrinologies	Date	Target	Description	Revenue	EBITDA	Value	Revenue	EBITDA						
		Autodesk				Total Disclo		Deal Value: \$	4.5 Billion						
Altium	Hexagon	Aug-20 Jan-19 Nov-18 Jul-18 Nov-17 Nov-16 Jun-16	Pype BuildingConnected PlanGrid Assemble Systems BioLite Seebo CadSoft	Construction data ingestion Preconstruction planning solutions Digital blueprint solutions BIM solutions for construction management Carbon credit license permits IoT development modules PCB Design	n/a n/a \$100.0 n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a \$253.2 \$777.6 \$93.6 n/a n/a	n/a	n/a						
Ansys	Jama Software	Apr-16 Feb-16 Jan-16 Jan-16 Oct-15 Oct-15	Solid Angle Monolith Autodesk Substation Design SDS Configure One Indeeo	Animation & visual effects rendering Voxel modeling AutoCAD software developer AutoCAD software systems CPQ software Apple graphic design applications	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 n/a n/a n/a n/a n/a						
Aras	PTC	Sep-15 Aug-15 Feb-15 Jan-15 Dec-14 Nov-14 Nov-14	NetFabb SeeControl Tweak Software Synthicity Magestic Systems Terrible Labs TeamUp Technologies	3D printing software and services IoT business applications platform PLM software hosting Urban planning data processing 3D nesting of composites Mobile and web application development Three dimensional cloud platform	\$18.6 n/a n/a n/a \$3.0 n/a n/a	n/a n/a n/a n/a n/a n/a n/a	\$44.5 n/a n/a n/a \$10.0 n/a \$60.0	2.39x n/a n/a n/a 3.33x n/a n/a	n/a n/a n/a n/a n/a n/a						
Autodesk	Revalize	Nov-14 Oct-14 Oct-14 Jun-14 Jun-14	Lagoa Modio Robobat Polska Shotgun Software The Living Bitsquid	3D rendering platform Character animation software 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 n/a	\$60.0 n/a n/a \$54.5 n/a n/a \$88.8	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a						
Bentley	Siemens	May-14 May-14 Apr-14 Mar-14 Feb-14 Jan-14 Jan-14	Within Technologies NEi Nastran Solver Ilesfay Technology Creative Market Labs Delcam Schrauwen Bruneel Circuits.io Majestic Systems	Engineering design optimization Engineering analysis and simulation PLM data replication Digital content design marketplace Automated multi-vertical CAD/CAM Electronic circuits design software Application for designing electronic circuits Industrial manufacturing software	n/a n/a n/a n/a \$75.6 n/a n/a	n/a n/a n/a n/a n/a n/a n/a	\$00.0 n/a n/a n/a \$285.4 n/a n/a	n/a n/a n/a 3.78x n/a n/a	n/a n/a n/a n/a n/a n/a n/a						
Cadence	Synopsys	Dec-13 Dec-13 Nov-13 Oct-13 Aug-13 Aug-13	Azalient Graitec Innovation Virtual Shape for-each Bestech Systems Savoy Computing	Traffic simulation modeling Structural building construction CAD Automotive modeling & design Software focused on mobile development Bridge span analysis Transportation path analysis	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a \$88.1 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	Zuken	May-13 Mar-13 Jan-13 Jan-13 Oct-12 Oct-12 Aug-12	Tinkercad Firehole Technologies Allpoint PI-VR Qontext HSMWorks Inforbix	Cloud-based 3D design tools Composite materials design 3D data processing Automotive visualization Enterprise social collaboration Computer aided manufacturing Product data searching	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 \$10.0 n/a \$49.3 \$26.0 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						
ESI Group		Aug-12 Jul-12 Jun-12 Dec-11 Dec-11 Nov-11 Oct-11 Aug-11	Exotic Matter Socialcam Vela Systems T-Splines Horizontal Systems GRIP Entertainment Micro Application Numenus Darwin Dimensions	3D fluid solver and dynamics framework Video data capture Construction field software Surface modeling software BIM platform Artificial intelligence games CAD/CAM for fabrication & construction High-end visualization 3D character modeling	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 \$60.0 \$76.0 n/a n/a n/a \$23.0 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						

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		(\$ in Millions)		Target Overview	Transaction Statistics				
Altair	Gamma Technologies	Date	Target	Description	Estimat Revenue	ed EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
		Autodesk			ī	otal Disclo	sed M&A [Deal Value: \$	4.5 Billion
Altium	Hexagon	Aug-11 Jul-11 May-11 Mar-11 Mar-11 Dec-10	Instructables Code Mine Datastay Blue Ridge Numerics Scaleform Sim Ops	User-generated DIY content Cloud-based image tools and utilities PLM software Fluid dynamics and simulation Ul software for consumer electronics 3D gaming technology	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	\$30.2 n/a n/a \$39.0 \$36.0 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
Ansys	Jama Software	Jul-10 May-10 Dec-09 Aug-09 Jan-09 Dec-08 Dec-08	Illuminate Labs 3am Solutions (Assets) PlanPlatform Boss International ALGOR BIMWorld Logimetrix	Game lighting technology Project visualization 2D & 3D engineering software Water analysis & engineering Mechanical/civil engineering software BIM solutions Design/engineering automation	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 \$25.0 n/a \$30.4 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
Aras	PTC	Nov-08 Sep-08 Sep-08 Aug-08 Jul-08 Jun-08 May-08	SoftImage Bigvan 3D Geo ECS Moldflow Square One Research Kynogon	3D animation Develops Computer Aided Design software 3D urban modeling software Digital schematic prototyping Design-to-manufacture automation Architectural software Interactive application intelligence	n/a n/a n/a n/a \$61.3 n/a n/a	n/a n/a n/a n/a \$10.3 n/a n/a	\$36.0 n/a n/a n/a \$267.3 n/a n/a	n/a n/a n/a n/a 4.36x n/a n/a	n/a n/a n/a n/a n/m n/a n/a
Autodesk	Revalize	May-08 Jan-08 Jan-08 Oct-07 Oct-07 Aug-07	Realviz Carmel Software Hanna Strategies Skymatter Intelisolve PlassoTech	Digital content creation HVAC mechanical engineering software AutoCAD and AutoDesk software Mudbox 3D modelling software Hydrology and hydraulic analysis software 3D simulation application 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 \$13.5 \$19.0 n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
Bentley	Siemens	Aug-07 Aug-07 Aug-07 Oct-06 Mar-06 Jan-06 Oct-05	Opticore NavisWorks Cumulate Labs ImpactXoft Constructware Alias Systems Engineering Intent	Graphics communication software Computer-aided design software CAD diagramming software Product development software Construction collaboration Digital content creation Enterprise engineering automation services	\$12.9 \$3.9 n/a n/a n/a n/a	\$7.3 \$2.0 n/a n/a n/a n/a n/a	n/a \$26.2 n/a n/a \$45.7 \$197.0 n/a	n/a 6.76x n/a n/a n/a n/a n/a	n/a 13.3x n/a n/a n/a n/a n/a
Cadence	Synopsys	Aug-05 Jul-05 Mar-05 Mar-04 Feb-04 Mar-03 Dec-02	Solid Dynamics c-plan Compass Systems VIA Development Mechsoft Linius Technologies TruElnnovations	Kinematics and dynamics technology Geographic information systems Data management services Engineering automation software Automated component creation software CAD connectivity File and data management software	\$1.3 n/a n/a n/a n/a n/a	\$0.0 n/a n/a n/a n/a n/a	n/a n/a \$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
Dassault	Zuken	Aug-02 Feb-02 Aug-01 Mar-97 Mar-87	CAiCE Software Revit Technology Buzzsaw Softdesk Cadetron	Surveying and engineering applications AEC parametric building modeler Construction data management Integrated AEC software Solids modeling	n/a n/a n/a \$34.5 n/a	n/a n/a n/a n/a n/a	\$10.0 \$133.0 \$15.0 \$90.6 \$6.0	n/a n/a n/a 2.63x n/a	n/a n/a n/a n/a n/a
ESI Group		Feb-23 Dec-22 Jul-22 Apr-22 Nov-21 Jun-21 Jun-21 May-21 Apr-21	EasyPower Minerva Intelligence Eagle.io ADINA Power Line Systems Seequent Spida software Sensemetrics Vista Data Vision	Design and analysis software tools Artificial intelligence software automating and accelerate 3D modeling Cloud-based environmental Industrial Internet of Things (IIoT) platform Finite element analysis software Structural and geometric deisgn software for electric power lines 3D geological modeling and visual data software Utility engineering and business processes software Centralized sensor data software Instrumentation data monitoring and management software	n/a n/a n/a n/a \$40.0 \$83.0 n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a	n/a \$0.8 n/a n/a \$725.0 \$1,050.0 n/a n/a	n/a n/a n/a n/a 18.13x 12.65x n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a

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		(\$ in Millions)	Target Overview			Transaction Statistics			
Altair	Gamma Technologies	Date	Tours	Description		nated	Deal	Deal Value /		
			Target	Description	Revenue	EBITDA	Value	Revenue	EBITDA	
		Bentley						Deal Value: \$		
		Apr-21 Feb-21	Inro Consultants E7	Mobility simulation and modeling for transport sector Field-based construction delivery solutions	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a	
		Jul-20	Cohesive Solutions	IBM Maximo reseller	n/a	n/a	n/a	n/a	n/a	
Altium	Hexagon	Jun-20	Notevault	Voice-based field automation application	n/a	n/a	n/a	n/a	n/a	
	3 - 3 -	Mar-20	GroupBC	Document and information management tools	n/a	n/a	n/a	n/a	n/a	
		Oct-19	Citilabs	Mobile analytics platform	n/a	n/a	n/a	n/a	n/	
		Oct-19	Orbit GeoSpatial Technologies	Geospatial 3D mapping software	n/a	n/a	n/a	n/a	n/	
		May-19	Keynetix	Geotechnical data management software	n/a	n/a	n/a	n/a	n/	
		Feb-19	SignCAD Systems	Traffic sign design software	n/a	n/a	n/a	n/a	n/	
Ansys	Jama Software	Nov-18	Alworx	Machine learning & IoT technologies	n/a	n/a	n/a	n/a	n/	
		Oct-18 Oct-18	Agency9 Legion	Advanced digital twin modelling Pedestrian simulation software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/ n/	
		Jun-18	Synchro Software	4D building information modelling	n/a	n/a	n/a	n/a	n/	
		Apr-18	Plaxis	Geotechnical software tools	n/a	n/a	n/a	n/a	n/	
		Apr-18	SoilVision Systems	Software database for geotechnical engineers	n/a	n/a	n/a	n/a	n/	
		Jan-18	S-Cube Futuretech	Structural engineering management tools	n/a	n/a	n/a	n/a	n/	
Aras	PTC	Oct-17	ACTION Modulers	Water Modeling Software Business	n/a	n/a	n/a	n/a	n/	
Alas	110	Nov-16	Comply Serve	Infrastructure compliance management	n/a	n/a	n/a	n/a	n/	
		Sep-15	E-On Software	3D system simulation	n/a	n/a	n/a	n/a	n/	
		Mar-15	EADOC	Construction project management software	n/a	n/a	n/a	n/a	n/	
		Feb-15	Acute3D	High-resolution 3D modelling	n/a	n/a	n/a	n/a	n,	
		Jan-15	C3 Global	Asset performance improvement applications	n/a	n/a	n/a	n/a	n,	
A	D I'	Sep-14	BLUERIDGE Analytics	3D civil / site design software	n/a	n/a	n/a	n/a	n,	
Autodesk	Revalize	Nov-13	Engineering Systems EuResearch	Structural analysis & design software Software for pressure vessels & exchangers	n/a	n/a	n/a	n/a	n/	
		Nov-12 Sep-12	IVARA Corporation	Asset performance management software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/ n/	
		May-12	InspectTech Systems	Mobile inspection & asset management solutions	n/a	n/a	n/a	n/a	n/	
		Mar-12	Hannappel Software	CAD software for electrical installations	n/a	n/a	n/a	n/a	n/	
		Nov-11	Pointools	Point cloud conversion applications and plug-ins	n/a	n/a	n/a	n/a	n/	
6	6:	Nov-11	Formation Design Systems	3D modelling & analysis software	n/a	n/a	n/a	n/a	n/	
Bentley	Siemens	Mar-11	Engineering Dynamics	Offshore simulation software	n/a	n/a	n/a	n/a	n,	
		Jul-10	BLUERIDGE Analytics	3D civil / site design software	n/a	n/a	n/a	n/a	n,	
		Feb-10		Document and records management software	n/a	n/a	n/a	n/a	n,	
	_	Feb-10	Exor Corporation	Infrastructure asset management software	n/a	n/a	n/a	n/a	n,	
		Oct-09	gINT Software	Environmental and geotechnical software	n/a	n/a	n/a	n/a	n/	
Cadence	Synopsys	Cadence De						Deal Value: \$		
Cauence	Зупорзуз	Jan-23	Utitec, Inc.	Manufacturer specializing in miniature medical device & components	n/a		n/a	n/a	n,	
		Nov-22	Antrim Design Systems	Analog design software	n/a \$40.0		n/a \$474.5	n/a 11.86x	n,	
	_	Aug-22 Jul-22	OpenEye Scientific Software Future Facilities	Computational molecular design Simulation software for data center design	\$40.0 n/a	n/a n/a	\$474.5 \$100.1	11.00x n/a	n, n,	
		Nov-21	Verifyter	Automatic debugger platform for software & hardware failure	n/a		n/a	n/a	n,	
		Apr-21	Pointwise	Mesh generation software	n/a		\$31.4	n/a	n,	
Dassault	Zuken	Jan-21	NUMECA	Computational fluid dynamics software	n/a		\$198.8	n/a	n,	
Dassault	Zuken	Aug-20	InspectAR	Augmented reality platform for circuit board mfgs.	n/a		n/a	n/a	n,	
		Feb-20	Integrand Software	RF solution for analysis and abstraction based	n/a	n/a	n/a	n/a	n,	
		Jan-20	AWR Corp	Electronic design automation software	n/a	n/a	\$160.0	n/a	n/	
		Nov-17	nusemi	Communications IP Developer	n/a		n/a	n/a	n/	
		Jul-16	Rocketick	Chip verification software	n/a		\$38.0	n/a	n/	
FCI C		Jan-16	Sibridge Technologies	Media software designer	n/a		n/a	n/a	n,	
ESI Group		Jun-14 Feb-14	Jasper Design Automation	Electronic design automation technology	n/a		\$139.4	n/a	n,	
		Feb-14 Feb-14	Forte Design Systems TranSwitch	Semiconductor design software Intellectual Property Service	n/a n/a		n/a n/a	n/a n/a	n/ n/	
		Jun-13	Evatronix	Mixed signal intellectual property developer	n/a		n/a	n/a	n/	
		May-13	Cosmic Circuits	Silicon based IP cores manufacturer	n/a		\$48.0	n/a	n/	
		Apr-13	Tensilica	Provider of controllers, CPU, and specialty DSP processor cores	n/a		\$326.0	n/a	n/	
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Altair	Carraga Taglanalania	(\$ in Millions)		Target Overview			Tran	ransaction Statistics	
	Altair Gamma Technologies	Date	Target	Description	Estimati Revenue	ed EBITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA
	J	Cadence De						Deal Value: \$	
		Jul-12	Sigrity	Signal and power integration technology provider	n/a	n/a	\$78.5	n/a	n/
		Jul-11	Azuro	Electronic design automation software	n/a	n/a	n/a	n/a	n/
A leicuna	Hayagan	May-11	Altos Design Automation	Electronic data automation service	n/a	n/a	n/a	n/a	n/
Altium	Hexagon	Jun-10	Denali Software	Electronic design automation software	\$41.9	n/a	\$309.4	7.39x	n/
		Mar-10	Taray	Computer system designer	n/a	n/a	n/a	n/a	n/
		Mar-08 Aug-07	Chip Estimate Clear Shape Technologies	Integrated circuit prediction technology DFM software	n/a n/a	n/a n/a	n/a \$41.3	n/a n/a	n/ n/
		Jul-07	Invarium	Advanced layout print service	n/a	n/a	n/a	n/a	n/
		Jan-06	CommandCAD	Integrated circuits layout optimization	n/a	n/a	\$25.8	n/a	n,
A 10.63.46	Jama Software	Apr-05	Verisity	Verification process automation	\$58.0	(\$5.6)	\$325.4	5.61x	n/r
Ansys	Jama Sonware	Apr-04	Neolinear	Analog silicon design software	n/a	n/a	\$78.1	n/a	n,
		Jan-04	Q Design Atuomation	Integrated circuit layout provider	n/a	n/a	n/a	n/a	n/
		Aug-03	Verplex Systems	Functional verification software	n/a	n/a	\$85.1	n/a	n/
		May-03	K2 Technologies	Semiconductor design software	n/a	n/a	n/a	n/a	n,
		Apr-03	Get2Chip	Architectural platform for chip manufactures and IP Provider	n/a	n/a	n/a	n/a	n, n,
		Mar-03	SpinCircuit	B2B e-commerce portal operator	n/a	n/a	n/a	n/a	
Aras	PTC	Jan-03	Celestry Antrim Design Systems	Physical design software Analog design software	n/a n/a	n/a n/a	\$64.4 n/a	n/a n/a	n n
		Nov-02 Jun-02	Simplex Solutions	Electronic chip design and verification software	n/a	n/a	\$329.7	n/a	r
		Apr-02	Plato Design Systems	Routing and physical design optimization solution	n/a	n/a	\$75.0	n/a	r
		Dec-01	Silicon Perspective	Electronic design automation software	n/a	n/a	n/a	n/a	r
		Feb-01	CadMos Design Technology	Noise analysis products	n/a	n/a	\$105.3	n/a	
		Mar-00	Westport Technology	IP Development Services	n/a	n/a	\$3.5	n/a	г
Autodesk	Revalize	Dec-99	Diablo Research Company	High tech product development services	n/a	n/a	\$80.8	n/a	r
, 10.000.0011		Jul-99	OrCAD	Electronic design software	\$11.6	\$17.2	\$122.2	10.55x	7.
		May-99	Quickturn Design Systems	Level verification solutions	n/a	n/a	\$253.0	n/a	n
		Sep-98	Ambit Design Systems	EDA software for electronic design	n/a	n/a	\$255.0	n/a	n,
		May-97	Cooper & Chyan Technology	Semiconductor designer	n/a	n/a	\$422.0	n/a	n
		Dec-91	Valid Logic	CAD Equipment Manufacturer	n/a	n/a	\$200.0	n/a	n
Bentley	Siemens	Oct-89	Gateway Design Automation	CAE Software	n/a	n/a	n/a	n/a	n,
Deriticy	Siemens	Dassault Sy						eal Value: \$1	
		Oct-22	StyleSage	Image recognition & retail analystics platform	n/a	n/a	n/a	n/a	n,
		Sep-22	Diota	Assembly assistance & quality control software	n/a	n/a	n/a	n/a	n,
		Jul-22 Nov-21	Wave Six Armonica Retail	Noise simulation & vibration analysis software for aerospace	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n n
		Nov-21 Jul-21	Armonica Retail Iterop	Cloud retail planning software Business process management software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	1
Cadence	Synopsys	Nov-20	NuoDB	Cloud-based SQL database platform	\$6.0	n/a	n/a	n/a	r
		Jul-20	Proxem	Big data semantic analysis	n/a	n/a	n/a	n/a	
		Jun-19	Medidata Solutions	Cloud-based solutions for clinical development	\$661.0	\$85.4	\$5,763.8	8.72x	n
		Mar-19	Argosim	System requirements validation software	n/a	n/a	n/a	n/a	
		Feb-19	Trace Software (Assets)	Electrical design and automation software	n/a	n/a	n/a	n/a	
		Dec-18	IQMS	Mid-market manufacturing ERP / MES	\$56.0	n/a	\$425.0	7.59x	
Dassault	Zuken	Jun-18	Centric Software	Lifecycle management software	\$61.0	n/a	n/a	n/a	
		Oct-17	No Magic	Model-based systems for engineering design	n/a	n/a	n/a	n/a	
		Sep-17	Exa Corporation	Simulation software for vehicle manufacturers	\$72.7 n/a	\$1.5 n/a	\$400.3 n/a	5.51x n/a	n,
		Jun-17 Jun-17	Outscale AITAC	Cloud security and operations management Marine and offshore engineering software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	r
		Dec-16	Xflow CFD	Dynamic fluid flow simulation	n/a	n/a	n/a	n/a	r
		DCC 10				n/a			
		Jul-16	Computer Simulation	Multiphysics simulation	\$51.2		\$247.3	4.83x	
FSI Group		Jul-16 Jun-16	Computer Simulation Ortems	Multiphysics simulation Production scheduling and dispatching	\$51.2 \$5.4	n/a	\$247.3 n/a	4.83X n/a	
ESI Group									r
ESI Group		Jun-16	Ortems	Production scheduling and dispatching	\$5.4 n/a n/a	n/a	n/a n/a n/a	n/a	n
ESI Group		Jun-16 Apr-16	Ortems 3DPLM Software	Production scheduling and dispatching Product development and QA	\$5.4 n/a	n/a n/a	n/a n/a	n/a n/a	n n n n

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		(\$ in Millions)		Target Overview			Transaction Statistics			
Altair	Gamma Technologies	Date	Target	Description	Estimated Revenue EB	BITDA	Deal Value	Deal Value / Revenue	Estimated EBITDA	
		Dassault Sy	stemes		Total	l Disclose	d M&A De	eal Value: \$1	1.0 Billion	
Altium	Hexagon	Dec-13 Sep-13 Jul-13 Jul-13 Apr-13 Apr-13	RTT Safety Technology SFE Apriso Archivideo Fe-Design	3D visualization technology Product durability simulation Transportation & mobility modeling Manufacturing operations execution 3D images & maps Non-parametric optimization	\$111.1 n/a n/a n/a n/a n/a	\$9.0 n/a n/a n/a n/a n/a	\$274.1 \$1.0 n/a \$205.0 n/a n/a	2.47x n/a n/a n/a n/a n/a	n/m n/a n/a n/a n/a	
Ansys	Jama Software	Apr-13 Jan-13 Dec-12 Dec-12 Jul-12 Feb-12 Oct-11	an-13 SquareClock rec-12 Tuscany Design Automation bec-12 Pinpoint ul-12 Gemcom eb-12 Netvibes	Plastic injection-molding simulation 3D space planning Visualization services for circuit design Semiconductor design collaboration Supply chain planning and optimization Personalized dashboard publishing Electrical engineering schematics	n/a n/a n/a n/a \$80.4 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 \$354.9 n/a n/a	n/a n/a n/a n/a 4.41x n/a n/a	n/a n/a n/a n/a n/a n/a n/a	
Aras	PTC	Oct-11 Apr-11 Mar-11 Oct-10 Jun-10 Jun-10 Apr-10	Simulayt Enginuity PLM Intercim Inceptra LLC Geensoft Escalead IBM (PLM)	Draping simulation technology Chemical product development Supply chain operations management Product lifecycle management solutions Embedded systems development Unified search platform PLM sales & support operations	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 \$36.5 n/a \$6.7 \$164.9 \$600.0	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	Revalize	Jul-08 Jan-08 Sep-07 Jun-07 May-06	Jul-08 E Jan-08 E Sep-07 S Jun-07 I May-06 Oct-05	Engineous Deneb Robotics Seemage ICEM MatrixOne Abaqus	Process integration & design software Multi-computer manufacturing CAD Automotive & aerospace ALM Automotive & industrial visualization Collaborative PLM Advanced finite element analysis	n/a n/a n/a n/a \$135.5 \$100.0	n/a n/a n/a n/a (\$18.2) n/a	\$40.0 \$105.0 n/a \$108.2 \$410.0 \$413.0	n/a n/a n/a n/a 3.03x 4.13x	n/a n/a n/a n/a n/m
Bentley	Siemens	Jul-05 Nov-00 Jan-00 Jul-97 ESI Group	Virtools Spatial SRAC Solidworks Scilab Enterprises	3D application development Data translation and visualization technology CAD analysis programs Mechanical design software Numerical computation platform	\$3.1 n/a n/a n/a Total n/a	n/a n/a n/a n/a Disclosed n/a	\$14.5 n/a \$22.0 \$325.0 I M&A De	4.63x n/a n/a n/a al Value: \$35 n/a	n/a n/a n/a n/a 5.7 Million	
Cadence	Synopsys	Sep-16 Feb-16 Jan-16 May-15 Apr-15 Apr-15 Mar-15	Correct Checks Mineset ITI Amoeba Technologies Ciespace Picviz Labs Civitec	Background screening services Technological data management Simulation tools & software Cooling simulation & design optimization Web-based CAE modeling solutions Data mining & cybersecurity services Embedded perception system design	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 \$4.7 \$19.3 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	
Dassault	Zuken	Feb-14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cam Mechanical Solutions CyDesign Labs OpenCFD Efield ICIDO Comet Technology Mindware Engineering	Technical assistance services Modelling systems for engineers Open source CFD software package Integrated modelling & simulation environments Virtual reality engineering solutions Vibro-acoustic simulation software Engineering & customized software services	n/a n/a n/a \$0.5 n/a n/a \$5.6	n/a n/a n/a n/a n/a n/a n/a	n/a n/a \$3.1 n/a n/a n/a \$5.6	n/a n/a n/a n/a n/a n/a 1.00x	n/a n/a n/a n/a n/a n/a	
ESI Group		Dec-08 Aug-06 Sep-02 Aug-01	Vdot ATE Technology International Vibro-Acoustic Sciences Liquid Process Performance	Project management & execution platform Contract for difference (CFD) product distributor Digital high-frequency noise simulation software Materials & composites simulation software	n/a n/a n/a n/a n/a	n/a n/a n/a n/a	n/a n/a \$3.0 n/a	n/a n/a n/a n/a	n/a n/a n/a n/a	
		Nov-21 Jul-21 Feb-18	Exothermia Power Forge AutoLion	Exhaust systems simulation software Electrical engineering software Lithium-ion battery simulation 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	

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		(\$ in Millions)		Target Overview			Tran	saction Statisti	ics
Altair	Gamma Technologies	Date	Target	Description	Estima Revenue	ted EBITDA	Deal Value	Deal Value / Revenue	Estimated
		Hexagon	_ rurget	- Description			•	Deal Value: \$	
Altium	Hexagon	Jan-23 Dec-22 Oct-22 Oct-22 Sep-22 Apr-22 Feb-22	Projectmates Qognify LocLab Consulting Avvir iConstruct Innovatia Accelerator ETQ	Construction program management software Enterprise incident management platform Digitial twin system for modeling & analyzing operational scenarios Automated construction verification and progress monitoring Building information modeling (BIM) software Knowledge management system	n/a n/a n/a n/a n/a n/a \$75.0	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a \$1,200.0	n/a n/a n/a n/a n/a n/a 16.00x	n/a n/a n/a n/a n/a n/a
Ansys	Jama Software	Jan-22 Oct-21 Sep-21 Jul-21 Apr-21 Dec-20	Minnovare Infor Global Solutions Jovix Immersal CADLM OxBlue	Manufacturing quality control data Industrial drilling technology and software Enterprise asset management software Material tracking software Spatial macping and visual positioning solutions Engineering design software High resolution contruction camera systems	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 \$2,820.0 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
Aras	PTC	Nov-20 Oct-20 Jul-20 Mar-20 Feb-20 Jan-20 Jan-20	PAS Global DP Technology Tacticaware CAEfatigue Romax Technology COWI Blast Movement	Process safety & cybersecurity CAM software for CNC machine tools LIDAR-based 3D surveillance software Mechanical fatigue simulation solutions Electromechanical drivetrain design and simulation services Mapping and geospatial data services Blast movement monitoring technology	\$39.8 \$39.2 n/a n/a \$30.4 \$15.8 \$21.4	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 n/a
Autodesk	Revalize	Jan-20 Jan-20 Jun-19 Feb-19 Jan-19 Jan-19 Oct-18	Geopraevent Volume Graphics AMendate Thermopylae j5 International Etalon Bricsys	Sensors and measuring technologies for navigating natural hazards Software for testing industrial computed tomograph Generative design for additive manufacturing Govt. & defense geospatial applications Operational risk management software Machine / equipment calibration solutions CAD software for AEC market	n/a \$29.3 n/a \$48.0 n/a n/a \$14.7	n/a n/a n/a n/a n/a s1.5	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a
Bentley	Siemens	Sep-18 Jun-18 Jun-18 Jun-18 May-18 Apr-18 Apr-18	External-Array Software Geocloud (Assets) SPRING Technologies AutonomouStuff Nextsense Lorom Systems ProCAM Group	Metrology software for CMM manufacturers Ski slope infrastructure measurement Machine tool simulation & verification software Integrated autonomous vehicle solutions Non-contact profile measurement & inspection German distributor of Alphacam CAM software Italian distributor of Vero Software	n/a n/a \$9.5 \$45.0 \$13.5 n/a n/a	n/a n/a \$0.4 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
Cadence	Synopsys	Mar-18 Jan-18 Jan-18 Oct-17 Jun-17 Jun-17	AGTEK Plant Design Solutions Industrial Business Solutions Luciad InfraMeasure DST Computer Services	Construction project modeling software Distributor of CADWorx & Analysis software Digital project completion & commissioning Real-time geospatial information visualization Laser-based rail measurement system Pipe stress analysis software	n/a n/a n/a \$21.7 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 n/a
Dassault	Zuken	Jun-17 May-17 May-17 Apr-17 Jan-17 Sep-16 Aug-16	FASys Industrie VIRES Catavolt MSC Software MiPlan Consulting GISquadrat Apodius	System integration specialist for production tasks Driver-assisted & autonomous simulation Mobile app development & edge computing Computer aided engineering software Mobile mine production management software Location-based geospatial software Composite component measurement solutions	n/a n/a n/a \$230.0 n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a n/a n/a \$834.0 n/a n/a	n/a n/a n/a 3.63x n/a n/a	n/a n/a n/a n/a n/a n/a n/a
ESI Group		Aug-16 Aug-16 Jun-16 Jun-16 Mar-16 Mar-16 Mar-16 Feb-16 Jan-16	Multivista p3d systems Ingegneria dei Sistemi (Assets) Nestix AICON 3D Systems Forming Technologies (FTI) M&P Survey Equipment Sigma Space SCCS	Construction visual documentation services Laser scanning system & 3D modeling software Radar solutions for structural health monitoring Prefabrication and production control software Industrial 3D optical measuring systems Manufacturing software for sheet metal forming Surveying equipment & construction lasers Optoelectronic aerospace instrumentation Provider of survey equipment for Leica	n/a n/a \$20.0 n/a \$21.1 n/a n/a \$25.0 \$15.0	n/a n/a n/a n/a \$1.8 n/a n/a n/a \$7.8	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 n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a

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		(\$ in Millions)		Target Overview		Tra	ansaction Statistic	s
Altair	Gamma Technologies	Date	Target	Description	Estimated Revenue EBITDA	Deal Value	Deal Value / Es	stimated EBITDA
		Hexagon	_		Total Disc	osed M&A	Deal Value: \$8.	.8 Billion
Altium	Hexagon	Apr-15 Jul-14 Jul-14 Jun-14 Jun-14	Q-Das Vero Software Geodata Diffusion North West Geomatics iLab Sistemas Mintec	Statistical process control (SPC) services CAD/CAM software Real time kinematic correction services Digital remote sensing/aerial photography Planning/optimization for agro-businesses Software services for mining industry	n/a n/a \$106.2 n/a \$4.0 \$1.8 \$13.5 n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a
Ansys	Jama Software	Apr-14 Mar-14 Mar-14 Feb-14 Dec-13 Oct-13 Jun-13	ar-14 Veripos lar-14 SAFEmine =b-14 Aibotix ec-13 Pixis ct-13 Devex Tecnologia e Sistemas	Software services for agro businesses Satellite position software/hardware/services Traffic safety products and services Manufacturer of flying robots Provider of digital engineering services Mine-management software services Software for cartography/photogrammetry	n/a n/a \$44.0 \$15.8 \$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 n/a n/a n/a n/a n/a
Aras	PTC	May-13 Apr-13 Jan-13 Jan-13 Dec-12 Jan-12 Aug-11	Navgeokom Manfra & Companhia LISTECH New River Kinematics GTA Geoinformatik Microsurvey Software Sisgraph	Surveying and mapping products Topography software systems Developer of construction software 3D analysis software for metrology application Provider of 3D city mapping technologies Developer of surveying and mapping software Supplier of engineering and geospatial software	n/a n/a \$9.2 n/a n/a n/a \$13.3 n/a n/a n/a \$2.6 n/a \$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
Autodesk	Revalize	Jul-10 Dec-09 Oct-09 Oct-08 Jul-08 Jun-08 Jun-08	Intergraph MYCRONA Mahr Multisensor Rinex Technology Serein Metrology m&h Group Messtechnik Wetzlar	Engineering and geospatial software Manufacturer of multi-sensor machines Industrial measuring instruments Yield mapping tools for agro businesses Manufacturer of precision measuring equipment Manufacturer of machine tool probes Software for quality control of mechanical parts	n/a n/a n/a n/a n/a n/a \$4.5 n/a \$4.0 n/a \$13.3 n/a \$3.3 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
Bentley	Siemens	Jun-08 Jun-08 Feb-08 Feb-08 Feb-08 Dec-07	Viewserve Advanced Metrology Solutions Santiago & Cintra Haselbach Surveying Instruments Surveyors Service Company Leica Geosystems Hungary	Web based fleet management system Distributor of precision metrology products Positioning applications for construction/agro Distributor and seller of surveying equipment Distributor of surveying equipment Surveying and construction equipment	\$1.1 n/a \$4.5 n/a \$20.7 n/a \$750.0 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
Cadence	Synopsys	Nov-07 Nov-07 Nov-07 Nov-07 Sep-07 Jul-07 Jun-07	NovAtel Junglas Rudolf & August Rost Vertriebs Elcome Technologies CogniTens Jingjiang Measuring Tools IONIC Software	Satellite system components Construction and machine control equipment Surveying and construction equipment GPS and navigation surveying services 3D non-contact measurement systems Manufacturer of linear measuring tools Software for geospatial information systems	\$76.0 \$17.8	n/a	n/a n/a n/a 2.50x n/a n/a	24.6x n/a n/a n/a n/a n/a
Dassault	Zuken	May-07 May-07 May-07 May-07 May-07 Apr-07 Apr-07	Transmetal Jigsaw Technologies GAMFI International D&P Systems Allen Precision Equipment Topolaser System Acquis	Distributor of metrology products GPS-based machine automation software Construction laser tools and instruments Developer of multidimensional systems Surveying and construction products Distributor of survey equipment Data editing and management software	\$5.4 n/a \$9.0 n/a \$1.5 n/a n/a n/a \$24.0 n/a n/a n/a \$3.0 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
ESI Group		Jan-07 Jan-07 Oct-05 May-02 May-01	Svensk ByggnadsGeodesi Willi GeBwein Leica Geosystems Newport Brown & Sharpe	Software systems for measuring and planning Manufacturer of surveying instruments Surveying and mapping equipment Metrological tools and technology Manufacturer of metrological tools	\$6.8 \$0.8 \$1.3 n/a n/a n/a n/a n/a n/a n/a	n/a n/a \$1,140.0 n/a \$170.0	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a
		Jama Softw Jan-18	Notion Data	Product development intelligence	n/a n/a	tal Disclose n/a	ed M&A Deal V	alue: n/a

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		(\$ in Millions)		Target Overview			Trar	nsaction Statist	tics
Altair	Gamma Technologies				Estima	ated	Deal	Deal Value /	
Altali	Garrina recrinologies	Date	Target	Description	Revenue	EBITDA	Value	Revenue	EBITDA
		PTC				Total Disclo	sed M&A I	Deal Value: S	5.0 Billion
		Jan-23	ServiceMax	Asset-centric field service management software	\$171.0	n/a	\$1,460.0	8.54x	n/a
		Sep-22	CloudMilling	CAM software	n/a	n/a	n/a	n/a	n/a
Altium	Hexagon	Apr-22 Jan-22	Intland Software RE'FLEKT	Application lifecycle management platform Interactive VR technology	n/a n/a	n/a n/a	\$278.1 n/a	n/a n/a	n/a n/a
7 (1010111	r iekagori	Dec-20	Arena Solutions	Cloud-based PLM platform	\$50.0	n/a	\$715.0	14.30x	n/a
		Sep-20	ioxp	Augmented reality content creation software	n/a	n/a	n/a	n/a	n/a
		Nov-19	Onshape	Cloud-based 3D CAD platform	n/a	n/a	\$470.0	n/a	n/a
		Jun-19	TWNKLS	Augmented reality solutions & services	n/a	n/a	n/a	n/a	n/a
		Apr-19 Nov-18	Factora Solutions Frustum	Manufacturing execution & operations mgmt.	n/a n/a	n/a n/a	n/a \$69.6	n/a n/a	n/a n/a
Ansys	Jama Software	Feb-18	Waypoint Labs	Topology optimization & generative design Augmented reality for frontline workers	\$20.0	n/a	n/a	n/a	n/a
,		Jan-16	Kepware	Manufacturing device connectivity	\$20.0	n/a	\$118.0	5.90x	n/a
		Nov-15	Vuforia	Vision-based AR platform	n/a	n/a	\$64.8	n/a	n/a
		May-15	ColdLight Solutions	Machine learning predictive analytics	\$7.1	n/a	\$103.8	14.56x	n/a
		Jan-15	Caugnate	Augmented reality technologies services	n/a	n/a	n/a	n/a	n/a
		Jul-14	ITA Holdings	Sensor connectivity	n/a	n/a	\$170.0	n/a	n/a
Aras	PTC	Jul-14 Dec-13	Atego ThingWorx	Model-based systems applications IoT platform for machines	\$20.0 \$6.0	n/a n/a	\$49.3 \$130.0	2.47x 21.67x	n/a n/a
		Sep-13	NetIDEAS	Product development and PLM	\$1.0	n/a	\$20.0	20.00x	n/a
		Jul-13	Enigma	Manufacturing content management	n/a	n/a	\$10.0	n/a	n/a
		Oct-12	Servigistics	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
A	5	Jan-11	Mortice Kern Systems	Configuration management software	\$67.9	\$10.1	\$304.0	4.48x	n/m
Autodesk	Revalize	Feb-10	Planet Metrics	Carbon information management	n/a	n/a	n/a	n/a	n/a
		Jun-09 Feb-09	Relex Synapsis	Reliability analysis software Manufacturing supply chain optimization	n/a n/a	n/a n/a	\$24.3 \$7.5	n/a n/a	n/a n/a
		Dec-08	Synapsis Technology	Software applications and consulting services	n/a	n/a	\$7.5	n/a	n/a
		Feb-08	Digital Human	Human simulation model	n/a	n/a	\$1.1	n/a	n/a
		Dec-07	CoCreate Software	Flexible CAD & PLM for electronics	\$78.0	n/a	\$247.5	3.17x	n/a
Danatlavi	Siemens	Nov-07	LBS	Integrated logistics support software	n/a	n/a	n/a	n/a	n/a
Bentley	Siemens	Sep-07	NetRegulus	Enterprise regulatory management	n/a	n/a	\$2.3	n/a	n/a
		May-07	NC Grpahics Mathsoft	High-speed machining and engineering tools Calculation management	n/a \$24.0	n/a \$0.9	n/a \$63.0	n/a 2.62x	n/a n/m
		Apr-06 Nov-05	Cadtrain	E-learning courses for engineers	∌24.0 n/a	₃0.9 n/a	n/a	2.02x n/a	n/a
		Jul-05	Arbortext	Code authoring & publishing	\$40.0	n/a	\$190.0	4.75x	n/a
		Jun-05	Aptavis Technologies	Life cycle management software	n/a	n/a	n/a	n/a	n/a
Cadence	Synansys	Apr-04	OHIO Design Automation	Electronics design collaboration software	n/a	n/a	\$12.0	n/a	n/a
Cadence	Synopsys	Mar-99	Auxilium	Manufacturing collaboration	n/a	n/a	\$79.0	n/a	n/a
		Oct-98	InPart	Industrial 3D CAD	n/a	n/a	\$26.4	n/a	n/a
		Aug-95	Rasna	Design optimization & simulation	\$22.7	n/a	\$163.4	7.19x	n/a
		Revalize				Tota	al Disclosed	d M&A Deal	Value: n/a
		Nov-21	Procad	Product and document lifecycle management (PDM and PLM) platform	n/a	n/a	n/a	n/a	n/a
Dassault	Zuken	Nov-21	Tenado	Computer-aided design (CAD) software for 2D and 3D technical drawings	n/a	n/a	n/a	n/a	n/a
2 6336610	Zaken	Oct-21	Sofon	Uided Selling and configure price quote software	n/a	n/a	n/a	n/a	n/a
		Oct-21	Specpage Attainia	Product lifecycle management and product data management software	n/a	n/a	n/a	n/a	n/a
		Aug-21 Aug-21	Attainia BCA Technologies	Capital equipment planning software Cloud pricing and quoting software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Aug-21 Aug-21	LeadMethod	Channel sales management software	n/a	n/a	n/a	n/a	n/a
		Aug-21	MicroD	Website development and digital marketing services	n/a	n/a	n/a	n/a	n/a
ESI Group		Jun-21	Configure One	Configure, price, and quote (CPQ) software	n/a	n/a	n/a	n/a	n/a
20. 0.00.0		Jun-21	FPX	Cloud-based configure-price-quote (CPQ) platform intended for manufacturer	n/a	n/a	n/a	n/a	n/a
		Nov-18	Axonom	Cloud-based quoting, ordering and configuration solutions	n/a	n/a	n/a	n/a	n/a

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		(\$ in Millions)		Target Overview			Trar	saction Statistic	5
Altair	Gamma Technologies				Estima	ed	Deal	Deal Value / Es	
Altali	Garrina recrinologies	Date	Target	Description	Revenue	EBITDA	Value	Revenue	EBITDA
		Siemens			To	tal Disclos	ed M&A D	eal Value: \$17.	0 Billion
Altium	Hexagon	Dec-22 Aug-22 Jul-22 Jul-22 Jul-22 Jun-22 Oct-21	Vendigital Brightty Software Zona Technology Innovation Strategies Radica Software Senseye Wattsense	Supply chain consulting services Operations management software Engineering services for aerospace industry IT strategy & application development Electrical CAD software Machine monitoring & diagnostics platform IoT management software	n/a \$180.0 n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	n/a \$1,880.0 n/a n/a n/a n/a n/a	n/a 10.44x n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a
Ansys	Jama Software	Aug-21 Aug-21 Jun-21 May-21 Feb-21 Nov-20	SupplyFrame Sqills Nextflow Software Padam Mobility Fourkind Culgi	Design-to-source intelligence Freight railway management and maintenance workflow software Computational fluid dynamics simulation software TAD software to facilitate public transport system Management consulting and advisory services Computational chemistry software for material simulation	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	\$700.0 \$650.4 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
Aras	PTC	Jul-20 Jun-20 Jun-20 Jan-20 Jan-20 Nov-19 Nov-19	Avatar Integrated Systems UltraSoC Technologies Vizendo C&S Electric AIT Goehner MultiMechanics Atlas 3D	IC place and route software System-on-chip analytics software Virtual operator training for CAD & PLM systems Manufacturer of low voltage products IT consultancy and development service Materials modeling and simulation software 3D printing parts design 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 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
Autodesk	Revalize	Jul-19 Jul-19 Jun-19 Jun-19 Dec-18 Oct-18 Sep-18	Process Systems Enterprise Innovation Systems (IST) ESTEQ (South Africa) Saab Medav (Assets) Comsa Mendix Lightwork Design	Advanced modeling software Industrial transport planning software Developer and distributor of PLM and MOM NVH testing products and services Wire-harness engineering software Low code application development platform 30 rendering designs and visualization systems	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 \$579.7 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
Bentley	Siemens	Jul-18 Jun-18 Jun-18 Mar-18 Feb-18 Jan-18 Dec-17	Omative Comfy Austemper Design Agilion Sarokal Test Systems Milanovic Engineering Solido Design Automation	Factory optimization system Smart building management software Electronic design tools for circuit components Real-time location systems (RTLS) Testing equipment platform for ASIC & FPGA Engineering and manufacturing services Variation-aware design and characterization	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 n/a	n/a n/a n/a n/a n/a n/a n/a
Cadence	Synopsys	Oct-17 Oct-17 Aug-17 Mar-17 Nov-16 Mar-16	Mentor Infolytica Wi-Tronix Tass International Mentor Graphics Conworx Technology CD-adapco Neo New Oncology	Electromagnetic and thermal analysis Predictive maintenance for rail services Design and testing software for automotive Electronic design automation Lab device interfaces Specialized simulation based on CFD Medical diagnostic technology	n/a n/a n/a \$1,282.5 n/a \$190.0 n/a	n/a n/a n/a n/a \$267.2 n/a n/a	n/a n/a n/a n/a \$4,500.0 n/a \$970.0 n/a	n/a n/a n/a 3.51x n/a 5.11x n/a	n/a n/a n/a n/a 16.8x n/a n/a
Dassault	Zuken	Nov-15 Jul-15 Mar-15 Oct-14 Jan-14 Dec-13	Polarion Software Zenco Systems AxIT Camstar IBS TESIS PLMware	Application lifecycle management Traffic enforcement technology Order management & logistics Manufacturing execution systems Industrial productivity software Product lifecycle management	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 \$160.0 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
ESI Group		Jun-13 Jun-13 May-13 Nov-12 Sep-12 Jan-12 Dec-11 Aug-11 Oct-09	Sky Eye Preactor Invensys Rail LMS VRcontext eMeter Vistagy Advanced Telemetry Energy/4u	Transport fleet management Manufacturing planning & scheduling Railway design & system automation PLM simulation & testing Visualization technology Energy information management Specialized engineering environments Energy management Energy IT services	n/a n/a \$1,179.5 \$241.7 n/a n/a \$18.0 n/a	n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a \$2,660.0 \$870.0 n/a n/a n/a n/a	n/a n/a 2.26x 3.60x n/a n/a n/a n/a	n/a

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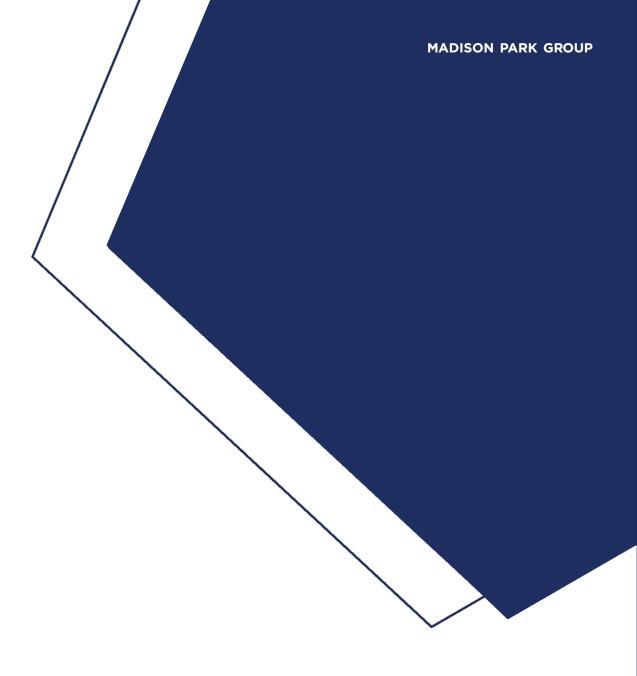
Altair Altium Ansys Aras		(\$ in Millions))	Target Overview			Tran	saction Statistic	:s
Altair	Gamma Technologies	Date	Ŧ	Post Co.	Estima		Deal	Deal Value / E	
	3	•	Target		Revenue	EBITDA	Value	Revenue	
		Siemens						eal Value: \$17	
		Sep-09 Apr-09	YSNC Elan Software	Machine engineering Process control software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Nov-08	Syncos	Digital manufacturing engineering	n/a	n/a	n/a	n/a	n/a
Altium	Hexagon	May-07	UGS	2D & 3D PLM and industry automation	\$1,150.0	n/a	\$3,500.0	3.04x	n/a
	3	Feb-07	ETM	Supervisory & data acquisition systems	n/a	n/a	n/a	n/a	n/a
		Oct-06	VistaScape Garderos	Surveillance video analysis	n/a	n/a	n/a n/a	n/a	n/a n/a
		Sep-05 Aug-05	Transmitton	Local area network management Railway infrastructure management	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Apr-05	Myrio	IP video networking	n/a	n/a	\$50.0	n/a	n/a
A	Jama Software	Dec-04	Chantry Networks	Mobility-enabled wireless networking	n/a	n/a	\$85.0	n/a	n/a
Ansys	Jama Sonware	Apr-03	Cycos	Unified messaging systems	n/a	n/a	\$45.6	n/a	n/a
		Apr-02	Symbian	Mobile operating system	n/a	n/a	\$309.0	n/a	n/a
		Synopsys				Total Disclo	sed M&A E	Peal Value: \$4	.3 Billion
		Jun-22	NTT Application Security	Risk management platform	n/a	n/a	\$330.1	n/a	n/a
		Jan-22	FishTail Design Automation	Management of design constraints for chip-implementation progresses	n/a	n/a	n/a	n/a	n/a
Aras	PTC	Nov-21	Concertio	System performance optimization tools	n/a	n/a	n/a	n/a	n/a
7 11 010		Sep-21 Jun-21	BISTel Code Dx	Manufacturer of semiconductor and flat planel display systems Application security platform	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		May-21	MorethanIP	Intellectual properties for multi-gigabit high-speed telecom and datacom	n/a	n/a	n/a	n/a	n/a
		Nov-20	Light Tec	Optical scattering measurements and measurement equipment	n/a	n/a	n/a	n/a	n/a
		Nov-20	Moortec Semiconductor	Embedded sensor and monitoring technologies	n/a	n/a	n/a	n/a	n/a
		Jun-20	Qualtera	Industrial big-data analytics platform	n/a	n/a	n/a	n/a	n/a
Autodesk	Revalize	Feb-20 Feb-20	Terrain EDA Invecas	Electronic design automation technologies Certain IP assets; Logic Library, Embedded Memory, Interface and Analog IP	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
		Jan-20	eSilicon	Embedded Memory IP And Interface IP assets	n/a	n/a	\$24.0	n/a	n/a
		Jan-20	Tinfoil Security	Website and application programming interface (API) security	n/a	n/a	n/a	n/a	n/a
		Nov-19	The Dini Group	Digital circuit based hardware and applications	n/a	n/a	n/a	n/a	n/a
		Oct-19	Qtronic	Automotive virtual prototyping solutions	n/a	n/a	n/a	n/a	n/a
Bentley	Siemens	Aug-18 Mar-18	Source III Silicon and Beyond	Developer of specialist simulation and test data management tools Developer of SerDes technology used in data-intensive applications.	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
berniey	Sierrieris	Feb-18	PhoeniX Software	Provider of manufacturing automation software	n/a	n/a	n/a	n/a	n/a
		Jan-18	Kilopass	SoC system developer	n/a	n/a	\$49.0	n/a	n/a
		Dec-17	Black Duck	Provider of open source security and license management software	\$75.0	n/a	\$565.1	7.53x	n/a
		Oct-17	Sidense	Silicon-proven embedded non-volatile memory intellectual property (IP)	n/a	n/a	n/a	n/a	n/a
		Sep-17 Jan-17	Quantum Wise Forcheck	Provider of simulation tools for materials modeling designing. Developer of security software	n/a	\$35.0 n/a	n/a n/a	n/a n/a	n/a n/a
Cadence	Synopsys	Nov-16	Cigital	Provider of software security consulting services.	n/a n/a	n/a	n/a	n/a	n/a
	-7 -17-	Nov-16	Codiscope	Developer of complementary security tools	n/a	n/a	n/a	n/a	n/a
		May-16	Gold Standard Simulations	Provider of simulation tools for design technology	n/a	n/a	n/a	n/a	n/a
		May-16	Simpleware	Provider of 3D image processing software	n/a	n/a	n/a	n/a	n/a
		Mar-16 Dec-15	WinterLogic Red Lizard Software	Provider of electronic design automation software products.	n/a	n/a	n/a	n/a	n/a
		Nov-15	Protecode	Developer of source code analysis tools Provider of license management tools for managing open source software	n/a n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a
Dassault	Zuken	Aug-15	Atrenta	Provider of realization services for the semiconductor and electronic systems in	n/a	n/a	n/a	n/a	n/a
		Jul-15	Seeker Security	Provider of computer security services	n/a	n/a	n/a	n/a	n/a
		Jun-15	Codenomicon	Automated tools for testing the interfaces of mission critical software	\$11.1	n/a	n/a	n/a	n/a
		Jun-15	Elliptic Technologies	Provider of security software and semiconductor Internet Protocol engines	n/a	n/a	n/a	n/a	n/a
		Mar-14 Feb-14	Coverity Brandenburg	Provider of source code analysis tools Developer of automotive design software	\$70.0 n/a	n/a n/a	\$375.0 n/a	5.36x n/a	n/a n/a
ESI Group		Feb-14	Target Compiler Technologies	Software tools for the design, programming, and verification of processors	n/a	n/a	n/a	n/a	n/a
ESIGIOUP		Oct-12	EVE-USA	Provider of emulation platforms for SoC verification	n/a	n/a	n/a	n/a	n/a
		Aug-12	Ciranova	Provider of electronic design automation software	n/a	n/a	n/a	n/a	n/a
		May-12	RSoft Design Group	Developer of designing software	n/a	n/a	n/a	n/a	n/a
		Feb-12	Magma Design Automation	Provider of chip-design software	\$146.4	\$16.3	\$523.0	3.57x	n/m
		Feb-12	Luminescent Technologies	Provider of lithography enhancement services	n/a	n/a	n/a	n/a	n/a

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		(\$ in Millions)		Target Overview			Tran	saction Statisti	cs		
Altair	Gamma Technologies			B. and Mills	Estima		Deal	Deal Value / I			
7 11 6511	Garrina recinioregies	Date	Target	Description	Revenue	EBITDA	Value	Revenue _	EBITDA		
		Synopsys			1	otal Disclo	sed M&A E	Deal Value: \$-	4.3 Billion		
Altium	Hexagon	Jan-12 Jan-12 Oct-11 Sep-11 Oct-10 Jun-10	ExpertIO Mojave Design Extreme DA nSys Design Systems Optical Research Associates Virage Logic Synfora Nusym Technology CoWare VaST Systems Technology Gemini Design Technology Chipidea Mikroelektronika MIPS Technologies (Analog Business) Pro Design Electronic (CHIPit Business) Sandwork Design Automation TeraRoute Hpl Technologies Nassda TriCN Associates	Mojave Design Extreme DA nSys Design Systems Optical Research Associates Virage Logic Synfora Nusym Technology CoWare VaST Systems Technology Gemini Design Technology Chipidea Mikroelektronika	-12 Mojave Design F -11 Extreme DA C -11 nSys Design Systems F -10 Optical Research Associates E -10 Virage Logic F	Provider of internet protocol verification services Physical verification technology for 90 and 65 nanometer designs Operator of an electronic design automation company Provider of business verification services Developer of software used for optical application Provider of semiconductor intellectual property (IP) and services	n/a n/a n/a n/a n/a \$72.0	n/a n/a n/a n/a n/a (\$5.6)	n/a n/a n/a n/a n/a \$315.0	n/a n/a n/a n/a n/a 4.38x	n/a n/a n/a n/a n/a
Ansys	Jama Software	Jun-10 Jun-10 Mar-10 Feb-10 Nov-09 May-09 May-09			Provider of algorithmic synthesis tools Provider of verification closure solutions Supplier of platform-driven electronic system-level design software Provider of tools and models for embedded system design automation Developer of electronic design automation (EDA) software Analog and mixed-signal semiconductor circuit designs software Software based designing services for the semiconductor industry in USA	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 \$22.0	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	
Aras	PTC	Dec-08 Oct-07 Jun-07 Jan-07 Dec-05 May-05 Jan-05		s) Provider of hardware verification services Developer of transistor-level debugging and waveform analysis tools Developer of advanced electronic design automation (EDA) products Developer of routing software Developer of yield optimization software Developer of full-chip circuit verification software Accounting, tax, and finance service	n/a n/a n/a n/a \$9.3 \$45.6 n/a	n/a n/a n/a n/a (\$27.2) (\$70.8) n/a	n/a \$24.0 \$13.0 n/a \$13.0 \$200.2 n/a	n/a n/a n/a n/a 1.39x 4.39x n/a	n/a n/a n/a n/a n/m n/m n/a		
Autodesk	Revalize	Nov-04 Nov-04 Oct-04 Oct-04 Mar-04 Feb-04	Integrated Systems Engineering Leda Design Cascade IP Monterey Design Systems IRoC (Memory BIST Division) Analog Design Automation Accelerant Networks	Provider of Technology CAD (TCAD) software products Digital library platform developer Provider of digital intellectual property (IP) services Provider of SoCs software Electronic design automation (EDA) tool Developer of automated circuit optimization software Manufacturer of computer transceivers	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	\$107.5 n/a n/a n/a n/a \$13.0 \$22.5	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a		
Bentley	Siemens	Jan-04 Jun-03 Mar-03 Jul-02 Jun-02 Mar-02	Progressant Technologies InnoLogic Systems Numerical Technologies Insilicon Avanti Co-Design	Progressant Technologies InnoLogic Systems Numerical Technologies InSilicon Avanti Co-Design	nologies Manufacturer of negative differential resistance transistor Equivalence checking technology for memory and custom blocks blogies Developer and marketeer of proprietary technologies and software Manufacturer of communications products Provider of engineering and environmental regulatory support services Developer of design language and tools	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 \$250.0 \$74.6 \$735.0 \$36.0	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	
Cadence	Synopsys	Nov-01 Nov-98 Mar-97 May-95 Feb-94 Zuken	C Level Design Everest Design Automation EPIC Design Silicon Architect Logic Modeling	Graphic design and web marketing service Software solutions that solves complex problems of chip assembly Developer of simulation and analysis tools for chip management Designer of Structured ASIC Methodology Provider of high-level design automation 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 \$427.1 n/a \$118.0	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a		
Dassault	Zuken	Jan-19 Jan-18 Dec-15	Vitech Alphatech CAETEK	Systems engineering solutions CAD Provider in Japan Schematic red liner design and implementation 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		
		Total Mediar						4.72x	16.8x		
ESI Group											

IV.

About MPG



Madison Park Group

Advisors to the Technology Economy

Growth Stage

FOCUSED ON TRANSACTIONS WITH \$100-500 MILLION ENTERPRISE VALUE

200 +

COMPLETED TRANSACTIONS

\$30+

~30%

CROSS-BORDER DEALS (1)

40%+

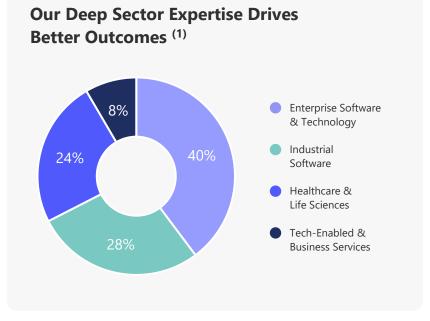
SPONSOR-BACKED CLIENTS

30%+

REPEAT CLIENTS (2)

20+

DEDICATED ADVISORS



- (1) Select deals completed in the last ten years
- (2) Calculated as total clients divided by clients completing more than one transaction with MPG over client relationship, inclusive of investor relationships



FOCUS

We partner with global technology clients across North America and Europe



EXPERTISE

We specialize in impacting growth strategies to optimize shareholder value creation



STRATEGY

We marry thoughtful corporate strategy planning with stalwart transactional execution



RESOURCES

Domain experts with active relationships across +1,500 global investors

Right People, Right Narrative, Right Time









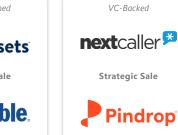




























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2022 Market Review



Public Good Software



EHSO



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Supply Chain Planning



M&A Market Coverage

