

## **Industrial Software**

SUPPLY CHAIN, ENGINEERING, AND MANUFACTURING SOFTWARE

SPRING 2022

## **Industrial Software Market Update**

Dear Clients and Friends,

Houlihan Lokey is pleased to present the spring 2022 edition of its Industrial Software Market Update. We have continued adapting to a recovering market and remain active in advising our clients as they pursue M&A, financing, and other strategic initiatives. We have included industry insights, select recent transaction announcements, and a public markets overview to help you stay ahead in our dynamic and constantly evolving industry.

#### Market Activity:

- M&A and financing activity across the sector demonstrated incredible resiliency into Q2 2022, despite broader macro headwinds.
  - ~\$10 billion of LTM financing activity, 120% higher than the prior 12-month period.
  - ~\$40 billion in LTM M&A deal volume<sup>(1)</sup> with the industry at a record level of M&A activity over the past two years.
- M&A and financing activity across industrial software will continue throughout 2022, as the industry experiences significant tailwinds with end customers looking to improve operational efficiencies to combat global supply chain pressures.

Regards,



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#### **Representative Industry Subsectors Covered**



Sources: PitchBook.com, S&P Capital IQ.

(1) M&A \$ volume includes only transactions with publicly available financial metrics.

**Representative Transactions and Investments** 

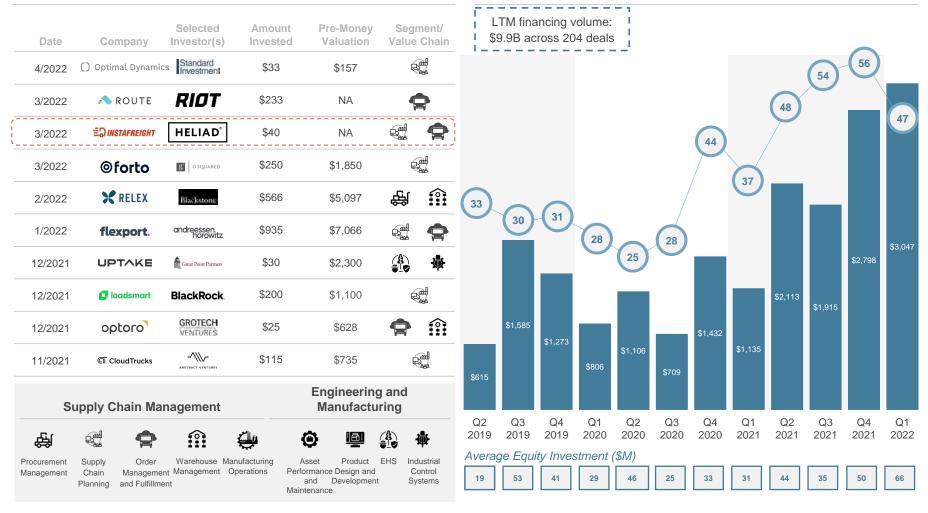
End-to-End Platform Coverage	Both the manufacturing and supply chain end markets have clearly defined processes/lifecycles, providers have looked to monetize deeply entrenched customer relationship by expanding offerings to service customer needs more broadly.	
End-Market and Specialty Product Coverage	Similarly, each end market and specialty in the industrial lifecycle has nuanced requirements that purpose-built solutions are better positioned to cater; an inorganic approach accelerates TAM expansion for providers.	<pre>     ptc          Onshape     Bentley         Siemens         Foran </pre>
Product Enhancement	Innovative point solutions employing emerging technologies like AR, digital twin, and AI allow providers to quickly upgrade the functionality of their platforms and build organizational competency.	Bentley ADINA AUTODESK SPACEMAKER Schneider
Customer Expansion	Acquisition provides the opportunity for vendors to immediately establish themselves as market leaders or further penetrate a given geography, specialty, or end market.	Advanced   FOURKITES   FOURKITES   E20PEN     BLUTING

## **Financing Activity Continues Across Value Chain Categories**

Fundraising activity has continued its acceleration into 2022 as end-customer demand for efficiency enhancing software solutions remains strong, given headwinds faced by the global supply chain.

#### Select Industrial Software Financings (\$M)

#### Industrial Software Quarterly Financing Activity (\$M)

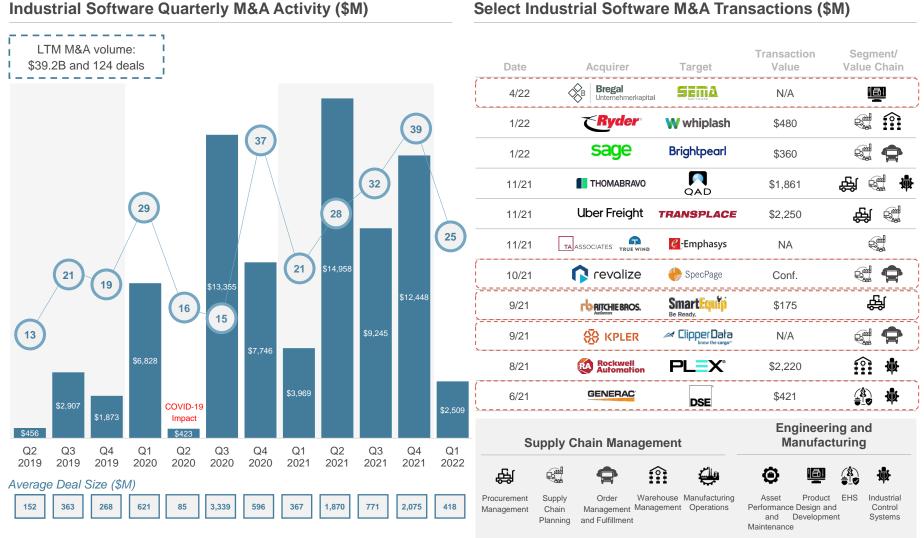


[ Houlihan Lokey Advisory Transaction

Sources: PitchBook.com, S&P Capital IQ. Note: Includes early-stage and later-stage venture investments from funds and strategics.

## Strategic M&A Activity Continues Across the Ecosystem

Strategics are actively looking to capture market share and position themselves as the go-to solution for their market, and private equity looks for platform investments in a sticky market with high financial visibility.



#### Select Industrial Software M&A Transactions (\$M)

[[]]] Houlihan Lokey advisory transaction

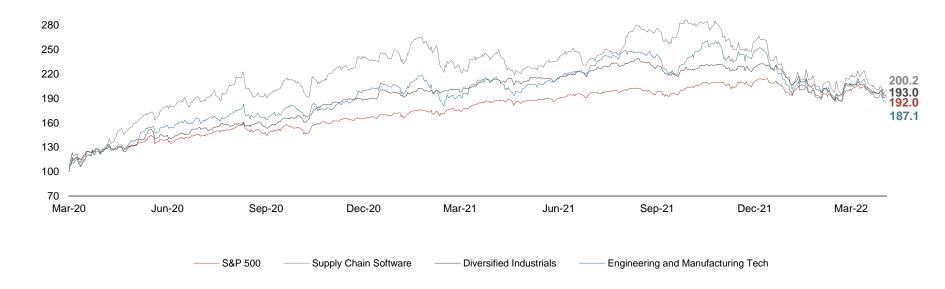
Sources: PitchBook.com, S&P Capital IQ, 451 Research.

Note: M&A \$ volume and average deal size includes only transactions with publicly available financial metrics.

## Industrial Software Has Been Impacted by the Broader Market...

Industrial software has performed strongly since March 2020 but is unable to avoid the broader technology sell-off, which started in November 2021.

#### **Share Price Performance**



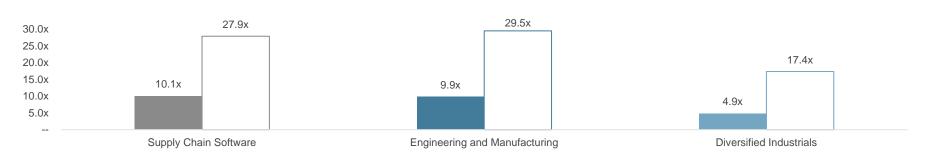
#### **Public Company Ecosystem Segmentation**

Supply Chain Software	Engineering a	and Manufacturing <b>Altium</b>	Technology -	
	AUTODESK	AVEVA	Bentley	FANUC Ø FORTIVE BORTIVE HITACHI Honeywell
Manhattan PARK CITY C R O U P C R O U P Samsara	cādence'	S DASSAULT	MEXAGON	
Trimble III wisetech	PS	I 👳 🛛 syno	PSyS®	SANDVIK Schneider SIEMENS VELO <sup>30</sup> ( ZEBRA

## ...But Continues to Trade at a Premium

Forward multiples remain strong, outperforming the broader software market, which has normalized around 7x-8x forward revenue.

#### Enterprise Value/2022E Revenue and Enterprise Value/2022E EBITDA



■ EV/2022E Revenue □ EV/2022E EBITDA

#### **Operating Stats**

	Supply Chain Software	Engineering and Manufacturing Technology	Diversified Industrials
LTM Revenue Growth %	16.5%	12.0%	15.5%
NTM Revenue Growth %	24.4%	12.8%	18.0%
LTM Gross Margin	64.5%	73.1%	44.2%
LTM EBITDA Margin %	21.6%	23.2%	20.3%

#### **Public Company Ecosystem Segmentation**

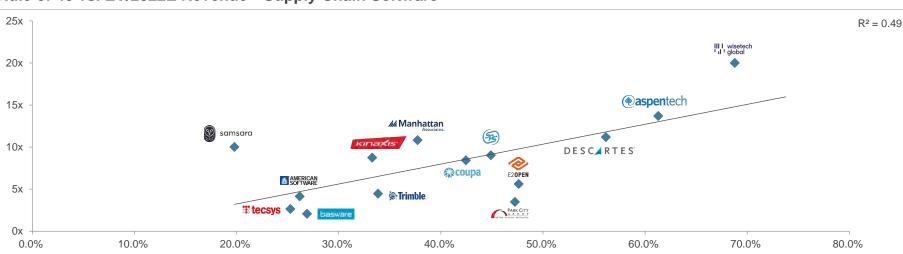


#### Source: S&P Capital IQ.

Notes: Growth and multiples shown are median values for comp group. Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of April 1, 2022. All financials calendarized to a December year-end.

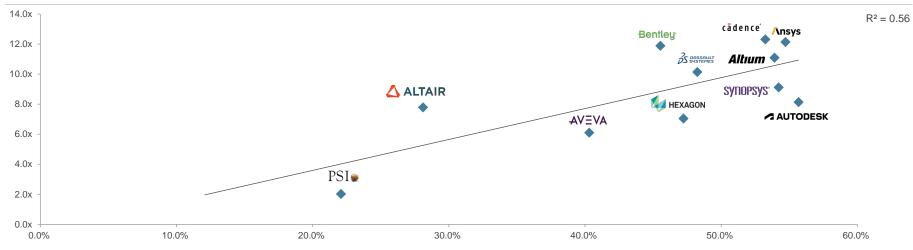
## Valuation Is Correlated to Revenue Growth and EBITDA Margin

Markets continue to favor growth, but the combination of growth and profitability yields the highest valuations.



#### Rule of 40 vs. EV/2022E Revenue—Supply Chain Software

Rule of 40 vs. EV/2022E Revenue—Engineering and Manufacturing Technology



Source: S&P Capital IQ.

Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of April 1, 2022. All financials calendarized to a December year-end.

## **Selected Publicly Listed Comparables**

Company Name		Market Cap	EV	EV/Re	EV/Revenue		BITDA	EBITDA	EBITDA Margin		2021E-23E CAGR		
		USDm	USDm	2022	2023	2022	2023	2022	2023	Revenue	EBITDA		
	American Software	713	\$588	4.6x	4.1x	33.6x	25.5x	13.6%	16.2%	8.2%	48.1%		
Software	Aspen Technology	11,350	11,238	14.7x	13.7x	27.5x	25.4x	53.4%	54.0%	10.8%	21.9%		
	Basware	346	404	2.3x	2.1x	15.2x	12.1x	14.9%	17.1%	6.0%	73.8%		
	Coupa Software	7,597	8,656	10.3x	8.4x	NM	41.5x	19.5%	20.3%	18.9%	NA		
	Descartes Systems Group	6,281	5,971	12.5x	11.2x	28.4x	25.0x	43.9%	44.7%	12.1%	17.0%		
	E2open	2,379	3,840	6.3x	5.6x	17.6x	15.5x	35.5%	36.4%	NA	NA		
	Kinaxis	3,519	3,383	10.0x	8.8x	NM	46.9x	17.4%	18.7%	24.2%	136.0%		
	Manhattan Associates	9,013	8,616	12.1x	10.8x	49.2x	42.1x	24.7%	25.7%	9.5%	19.9%		
	Park City Group	104	80	3.8x	3.5x	11.5x	9.2x	33.2%	37.8%	8.6%	32.4%		
	Samsara	4,524	7,517	13.1x	10.0x	NM	NM	NM	NM	32.3%	(52.3%		
	SPS Commerce	4,987	4,621	10.4x	9.0x	36.6x	30.4x	28.4%	29.7%	15.3%	37.9%		
	Tecsys	384	360	3.0x	2.6x	36.7x	22.0x	8.2%	12.0%	13.1%	29.0%		
	Trimble	18,508	19,407	4.8x	4.5x	19.5x	17.3x	24.8%	25.8%	9.4%	10.1%		
	WiseTech Global	12,503	12,205	23.9x	20.0x	NM	40.4x	47.7%	49.5%	21.9%	29.3%		
Γ	Mean			9.4x	8.2x	27.6x	27.2x	28.1%	29.8%	14.6%	33.6%		
L	Median			10.2x	8.6x	28.0x	25.4x	24.8%	25.8%	12.1%	29.2%		
	Altair Engineering	4,860	4,898	8.5x	7.8x	48.2x	41.0x	17.6%	19.0%	8.7%	66.7%		
	Altium Limited	3,372	3,179	13.1x	11.1x	37.5x	30.7x	34.8%	36.2%	19.0%	27.5%		
	ANSYS	27,883	27,756	13.3x	12.1x	30.2x	26.8x	44.0%	45.3%	9.5%	28.6%		
	Autodesk	47,295	47,546	9.4x	8.1x	23.9x	20.0x	39.1%	40.6%	15.4%	69.5%		
	AVEVA Group	9,208	10,455	6.4x	6.1x	19.0x	16.9x	33.4%	36.2%	NA	NA		
	Bentley Systems	13,922	14,845	13.2x	11.9x	39.5x	34.2x	33.4%	34.7%	13.7%	60.9%		
	Cadence Design Systems	46,187	45,493	13.5x	12.3x	32.1x	28.5x	42.1%	43.3%	11.2%	31.8%		
	Dassault Systemes	65,209	66,279	11.2x	10.1x	29.3x	26.6x	38.1%	38.2%	8.7%	32.1%		
	Hexagon AB	37,612	41,614	7.6x	7.0x	19.7x	18.0x	38.6%	39.1%	9.4%	18.4%		
	PSI Software	684	640	2.1x	2.0x	13.8x	12.3x	15.5%	16.4%	5.8%	22.6%		
	Synopsys	52,709	50,597	10.5x	9.1x	31.0x	23.6x	34.0%	38.7%	11.0%	37.1%		
Γ	Mean			9.9x	8.9x	29.5x	25.3x	33.7%	35.2%	11.2%	39.5%		
	Median			10.5x	9.1x	30.2x	26.6x	34.8%	38.2%	10.3%	31.9%		

Sources: S&P Capital IQ, company information.

Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of April 1, 2022. All financials calendarized to a December year-end.

## **Selected Publicly Listed Comparables**

Company Name	Market Cap	EV	EV/Re	EV/Revenue		BITDA	EBITDA	Margin	2021E-23E CAGR	
	USDm	USDm	2022	2023	2022	2023	2022	2023	Revenue	EBITDA
ABB	\$66,389	\$64,678	2.1x	2.0x	13.7x	11.7x	15.5%	17.2%	5.1%	9.3%
Cognex Corporation	14,044	13,276	11.4x	10.1x	34.5x	28.8x	33.0%	35.0%	12.7%	17.3%
Danaher Corporation	214,927	232,783	7.5x	7.2x	21.5x	20.5x	34.9%	34.9%	5.1%	4.9%
Emerson Electric	59,175	63,080	3.2x	3.0x	13.1x	12.3x	24.3%	24.6%	6.1%	13.7%
ESI Group	441	465	2.9x	2.7x	23.4x	13.5x	12.4%	20.1%	NA	NA
Fast Radius	5	213	7.9x	5.5x	NM	NM	NM	NM	39.1%	5.8%
Fanuc Corporation	33,878	29,009	4.4x	4.4x	13.7x	12.7x	32.0%	34.6%	2.8%	6.4%
Fortive Corporation	21,365	25,099	4.3x	4.1x	16.9x	15.3x	25.6%	26.7%	8.2%	13.0%
General Electric Company	102,856	115,475	1.5x	1.4x	12.1x	9.5x	12.2%	14.4%	6.9%	46.2%
Hitachi	56,315	73,906	1.0x	1.0x	7.5x	6.8x	12.7%	14.3%	(7.1%)	15.5%
Honeywell Technologies	137,979	144,163	4.0x	3.7x	15.5x	14.4x	25.7%	25.9%	6.0%	7.1%
Keysight Technologies	29,462	28,862	5.4x	5.1x	17.4x	16.5x	30.8%	30.9%	6.2%	10.9%
KUKE	3,992	3,955	1.1x	1.06x	14.9x	13.6x	7.6%	7.8%	2.7%	9.3%
Materialise	1,133	1,062	4.2x	3.8x	33.0x	25.0x	12.9%	15.0%	10.0%	6.8%
National Instruments Corporation	5,515	5,584	3.2x	3.1x	15.4x	13.9x	21.1%	22.2%	11.1%	34.7%
OMRON Corporation	13,228	11,452	1.8x	1.7x	11.4x	10.5x	15.5%	16.2%	2.1%	8.4%
Rockwell Automation	33,629	37,288	4.4x	4.2x	20.1x	18.5x	22.1%	22.9%	10.0%	20.7%
Roper Technologies	50,795	58,170	9.4x	8.9x	24.3x	22.3x	38.8%	39.9%	6.5%	8.7%
Sandvik	27,414	29,600	2.4x	2.2x	9.8x	8.9x	24.2%	24.9%	10.4%	13.7%
Schneider Electric	100,393	107,886	3.1x	2.9x	15.2x	14.0x	20.2%	20.8%	6.1%	12.1%
Siemens	119,395	160,899	2.1x	2.0x	12.5x	11.2x	16.8%	18.0%	4.3%	19.1%
Velo3D	558	1,540	17.6x	10.1x	NM	NM	NM	NM	136.2%	(29.7%)
Zebra Technologies	22,301	22,678	3.8x	3.6x	16.4x	14.6x	23.3%	24.7%	5.8%	13.9%
Mean Median			4.9x 3.9x	4.2x 3.7x	17.4x 15.5x	15.0x 14.0x	22.7% 22.7%	24.2% 23.8%	20.2% 8.2%	10.8% 12.9%
Overall Mean			7.4x	6.5x	23.1x	21.2x	27.0%	28.6%	13.5%	24.6%
Overall Median			6.3x	5.5x	23.1X 19.7x	18.2x	27.0%	28.6% 25.8%	9.4%	24.6% 19.1%

Sources: S&P Capital IQ, company information.

Notes: Trading multiples are based on share price, other market data, and broker consensus future earnings estimates from S&P Capital IQ as of April 1, 2022. All financials calendarized to a December year-end.

## **Industrial Software Market Map**

				Pro	oduct Design & De	evelopment									
Sustainable	e Design PLM	Robot Simu	lation & Planning	Electronic CAD Softw	vare (ECAD)	Product Cost Manage	ement Sy	vstem Engineeri	stem Engineering Integration Collaborative Product Data (cPDM)			Data Mgmt			
	CAD-ER	P Data Integration	P Data Integration Computer Aided Engineering (CAE) & Product Lif				/Ie Mamt (PLM) Chemical Process Simulation Software			uter Aided Design & acturing (CAD/CAM)					
Procurem	ent Mgmt			Manufacturing	Technology				Deli	very & Fulfillr	ment				
Procurement Mgmt	Supply Chain Planning		e Field Service Mgmt	Asset Performance Mgmt	Maintenance Mgmt	EHS & Sustainability Mgmt	Industrial Control System (ICS) Security	Transp	ort Mgmt	Order Mgmt & Fulfillment	Wareho	use Mgmt			
Supplier Mgmt	Demand Planning & Forecasting	Mobile Field Source		Asset Strategy & Risk Mgmt			)	Fleet Mgmt Tracking	Independent Logistics	Delivery Mgmt Software	Warehouse Mgmt System	Reverse Inventory Solution			
Procurement & Spend Analytics	Forecasting	Mgmt	Parts Inventory Mgmt		Enterprise Asset Management (EAM) & CMMS			Yard Mgmt	Multi-Career Integration	Reverse					
Procure-to-Pay	Supply Chain Planning, Design, & Optimization			Condition Based Maintenance (CBM	Condition Based Maintenance (CBM)	Environment, Health & Safety (EHS) Management Software		Global Trade Mgmt	e Dock Scheduling	Logistics Mgmt	Inventory Mgmt System	Vendor Manageo Inventory			
Supplier Network	Solutions Supply Chain	Field Service Reportir & Analytics	<sup>1g</sup> Service Contact Mgmt					Global Logistics Visibility	Stolling Optimization	Distributed Order Mgmt	Warehouse Control	Warehous Robots			
Supplier Sourcing & Contact	Resilience & Risk					Mobile	Mobile	Mobile Maintenance & Asset Management	Mobile			Transport Mgmt System (TMS)	Carrier- Supplier Appl. Scheduling	Online Postage Labels	System
eProcurement	Supply Chain	Work Order Mgmt	Field Service Scheduling & Dispatch Software	Reliability Centered	Reliability Centered	Ass	Asset Management			SCADA Threat Detection	Transporta- tion	Tranporta- tion or Freight	Software	Workforce Mgmt for Logistics	Warehous Worker Wearable
Procurement Marketplace	Sustainability				Maintenance					eld Source gmt	Drop-Ship Fulfillment Software	Delivery Loo	Locker Systems		
		`		Manufa	acturing Operation	ns Management									
Manufacturing E	Execution System	(MES) Enterp	rise Manufacturing Intelligen	ce (EMI)	Alarm Management	Software	Industrial Energy M	lanagement Sei	vices	Plant Infor	mation System	(PIMS)			
Operator Train	er Simulation Sof	tware	tory Information Managemer (LIMS)	nt System	Production Planning &	Scheduling	Industrial Process Analytics			Ve	rtical Software				

Note: Market maps are available by contacting Timothy Macholz or the team directly.

# Houlihan Lokey Has Unmatched Experience in the Industrial Software Sector

Houlihan Lokey's widespread reach and recognized thought leadership across the industrial software market creates relationships with financial and strategic investors alike.



Presence at key industry events throughout the year.



Gartner. SUPPLY CHAIN SYMPOSIUM Xpo.



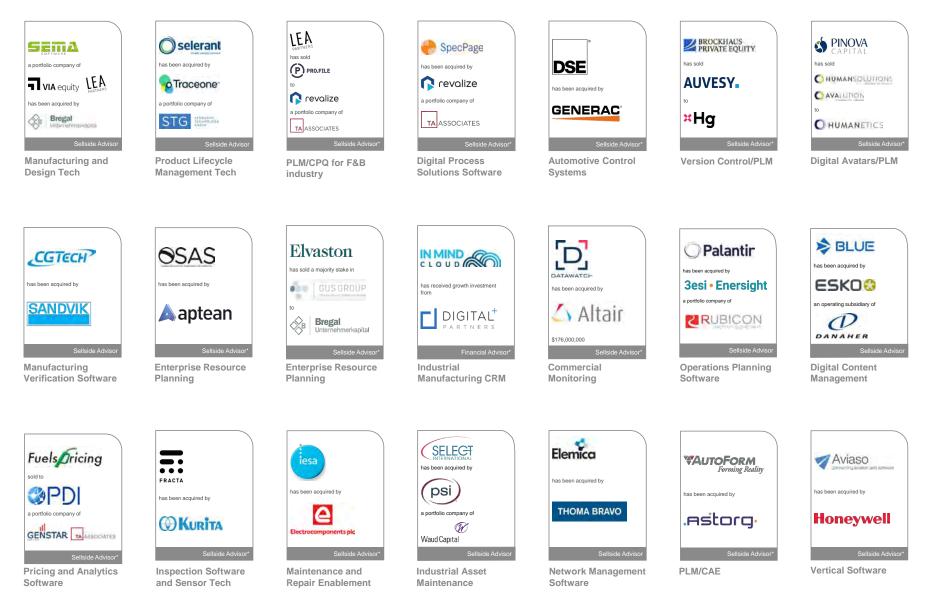




#### Active Ongoing Buyer Dialogue

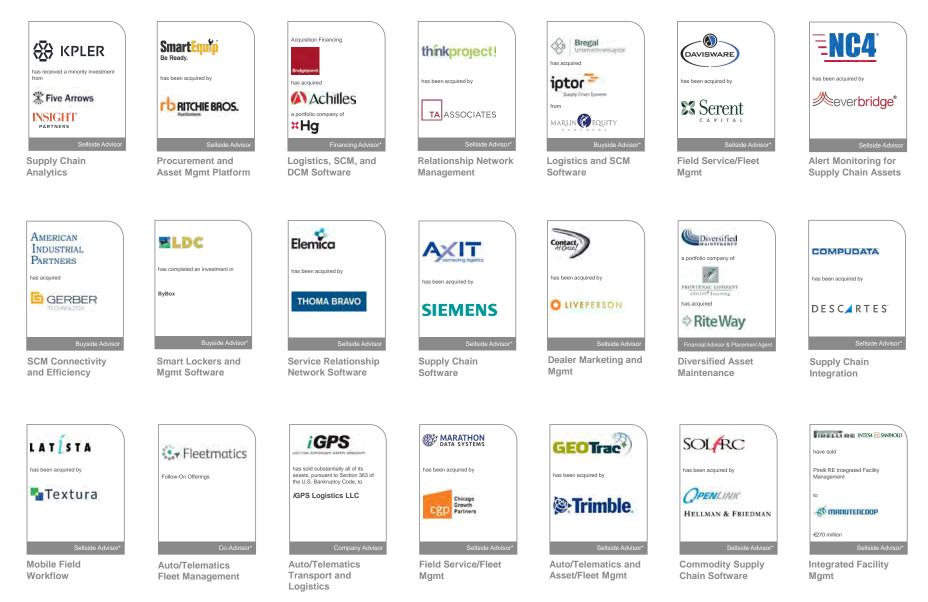


## **Domain Expertise: Manufacturing Software**



\*Selected transactions were executed by Houlihan Lokey professionals while at other firms acquired by Houlihan Lokey or by professionals from a Houlihan Lokey joint venture company. Tombstones included herein represent transactions closed from 2015 forward.

## **Domain Expertise: Supply Chain Management**



\*Selected transactions were executed by Houlihan Lokey professionals while at other firms acquired by Houlihan Lokey or by professionals from a Houlihan Lokey joint venture company. Tombstones included herein represent transactions closed from 2008 forward.

## Leading Independent, Global Advisory Firm

#### HOULIHAN LOKEY HLI ~\$5.5 Billion 2.200 +35 ~\$2 Billion ~25% LISTED Market Cap NYSE Annual Revenue **Employee-Owned Employees** Locations **Financial Financial and Financial Sponsors Corporate Finance** Restructuring **Valuation Advisory** Coverage No. 1 Global M&A Advisor No. 1 Global M&A Fairness No. 1 Global Advisor to No. 1 Global Restructuring Advisor **Opinion Advisor Private Equity Firms** Leading Capital Markets Advisor Raising More Than \$3.0 Trillion of Aggregate 1.000+ Annual Valuation 1,000+ Sponsors Covered \$100 Billion in Past Five **Transaction Value** Globally Engagements Years Completed 2021 Global Distressed Debt 2021 Investment Banking 2002 to 2021 Global M&A 2021 Most Active Global Rankings All Global & Bankruptcy Restructuring Fairness Opinion Advisory Investment Banks to Transactions Rankings Rankings **Private Equity Firms** Rank Advisor Rank Advisor Rank Advisor Rank Advisor Houlihan Lokey 549 1 Houlihan Lokey 63 1 Houlihan Lokey 952 1 Houlihan Lokey 1 2 Goldman Sachs 511 2 Rothschild 38 2 JP Morgan 890 2 Deloitte Duff & Phelps, A Kroll 3 JP Morgan 3 34 508 Moelis 3 William Blair 882 3 Business Source: Refinitiv. Source: Refinitiv. Source: Refinitiv. Source: PitchBook Excludes accounting firms and brokers Announced or completed transactions

GCA

Houlihan Lokey acquired GCA in October 2021, significantly expanding the firm's geographic reach in Europe and Asia and creating the most active global M&A advisory firm.



323

218

183

No

Debt

## Houlihan Lokey Is the Trusted Advisor to More Top Decision-Makers Than Any Other Independent Global Investment Bank

#### 2021 M&A Advisory Rankings Global Technology Transactions

	Advisor	Deals			
1	Houlihan Lokey	124			
2	PricewaterhouseCoopers	118			
3	Goldman Sachs	114			
4	KPMG	108			
5	JP Morgan	91			
Source: Refinitiv.					

#### 2021 Investment Banking Rankings All Global Transactions

	Advisor	Deals			
1	Houlihan Lokey	549			
2	Goldman Sachs	511			
3	JP Morgan	508			
4	Rothschild	437			
5	Morgan Stanley	393			
Sour	Source: Refinitiv. Excludes accounting firms and brokers.				

No. 1

Global M&A Advisor

## Leading Capital Markets Advisor

No. 1

Global Restructuring Advisor

No. 1

Global M&A Fairness Opinion Advisor Over the Past 20 Years 1,500+

Transactions Completed Valued at More Than \$3.0 Trillion Collectively

1,000+

Annual Valuation Engagements

## Houlihan Lokey's Tech M&A Team Is the Global No. 1 With Unparalleled Reach

Atlanta	Miami	Amsterdam	Milan	Beijing	New Delhi
Boston	Minneapolis	Dubai	Munich	Fukuoka	Osaka
Chicago	New York	Frankfurt	Paris	Ho Chi Minh City	Shanghai
Dallas	San Francisco	London	Stockholm	Hong Kong	Singapore
Houston	Washington ,	Madrid	Tel Aviv	Mumbai	Sydney
Los Angeles	D.C.	Manchester	Zurich	Nagoya	Tokyo
				R. S.	
<b>No. 1</b> TECH M&A	13 LOCATIONS	20 TECHNO			250+ ECHNOLOGY

## How Houlihan Lokey Can Help

Our firm is extremely well equipped to help our clients navigate uncertain times. We respond quickly to challenging situations and are constantly helping clients analyze, structure, negotiate, and execute the best possible solutions from both strategic and financial perspectives.

#### What We Offer

$\sim$		_					
	Mergers and Acquisitions	1					
-0-0-	Capital Markets						
Corporate	Private Funds Advisory						
Finance	Board Advisory Services	١.					
2	Company Advisory						
	Special Situations						
白白白	Distressed M&A						
Financial	Liability Management						
Restructuring	Creditor Advisory	١.					
3	Portfolio Valuation and Fund Advisory	17					
	Transaction Opinions						
	Corporate Valuation Advisory Services						
Financial and	Transaction Advisory Services						
Valuation	Real Estate Valuation and Advisory						
Advisory	Dispute Resolution Consulting	١.					

#### Why We're Different



No. 1 for U.S. and Tech M&A



Significant Experience With Financing Markets



Senior-Level Commitment and Dedication



Deep, Industry-Specific Expertise

committees, investors, and business owners we serve.



Superior Work Product/Technical Abilities



Creativity, Imagination, Tenacity, and Positivity

We are widely recognized as a leading M&A advisor to the mid-cap and have longstanding relationships with capital providers, including commercial banks and other senior credit providers, insurance funds, asset managers, and mezzanine fund investors. Few other investment banks maintain the breadth of relationships and capital markets intelligence that we do.

We have the largest restructuring practice of any global investment bank. Since 1988, we have advised on more than 1,500 restructuring transactions (with aggregate debt claims in excess of \$3.0 trillion). We served as an advisor in 12 of the largest 15 bankruptcies from 2000 to 2021.

Over nearly four decades, we have established ourselves as one of the largest financial and valuation advisory firms. Our transaction expertise and leadership in the field of valuation help inspire confidence in the financial executives, boards of directors, special

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