

Manufacturing Operations Management - Connected Worker Spotlight

Houlihan Lokey's Software team is among the leading industrial software practices in the middle market, dedicated to providing valuable insights to assess strategic opportunities and stay informed about market trends.

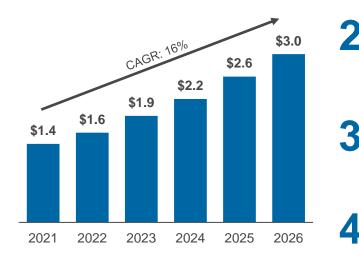
Driving Productivity on the Manufacturing Floor



- Connected worker software is a technology solution designed to enhance productivity, quality, and safety in manufacturing environments by providing real-time data, communication tools, and training resources to workers on the shop floor.
- The software can be accessed through mobile devices, wearables, or tablets, and it enables workers to receive instructions, report issues, access relevant documents and checklists, and collaborate with peers and supervisors.
- Connected worker software also collects data from various sources, such as machines, sensors, and workers themselves, which can be analyzed to improve operational efficiency and identify opportunities for process optimization.
- Overall, connected worker software helps manufacturers create a more agile, efficient, and informed workforce that can adapt to changing demands and achieve better outcomes.

Emerging Category With Favorable Tailwinds

Connected Worker Technology Market Size (\$B)



Manufacturers pursuing profitability improvements Connected worker technology provides real-time information to workers on the line, which reduces downtime. Additionally, step-by-step instructions for complex tasks via augmented reality (AR) is the most

Increasing prevalence of remote collaboration and training

cost-effective and efficient way to provide instruction.

Fifty percent of factory work is projected to be done remotely by 2025. Connected worker technology enables workers to collaborate remotely and receive training without the need of a physical presence.

Improvement of worker safety and training Worker safety continues to be a priority for manufacturers. Real-time information and guidance on safe work practices reduce the risk of accidents and improve overall safety.

Growing collaboration and hiring overseas

Offshoring efforts have increased since the pandemic as corporations look to reduce manufacturing costs and recruit the top talent globally, making communication across multiple time zones and countries critical.

Sources: Telepresenz, Verdantix.

Notable Recent Transactions

IFS acquires Poka



Date: 6/20/2023 EV: N/A



EV: N/A Rev: N/A EV / Rev: N/A

Target: Social industrial communication and training platform

Rationale: Combines IFS ERP/FSM/EAM technology with Poka and extends value all the way to the end user

QAD acquires Redzone



Date: 12/27/2022



Rev: N/A

EV: \$885M

EV / Rev: N/A

Target: Connected workforce management solutions for manufacturers

Rationale: Strong strategic fit with existing product suite and access to fast growing industry segment

Lightguide raises \$15M Series B



Date: 7/1/2021 EV⁽¹⁾: \$79M

G2VP

Rev: N/A **EV / Rev:** N/A

Target: Industrial AR platform for assembly and manufacturing

Use of Proceeds: Expand global sales and support networks to accelerate growth

Innovapptive raises \$26M Series B



Date: 4/24/2023



EV⁽¹⁾: \$131M

Rev: N/A

EV / Rev: N/A

Target: Connected worker solutions for maintenance, operations, and warehousing

Use of Proceeds: Accelerate product innovation and reach new regional markets

Dozuki receives investment from Marlin

ΟΟΖUΚΙ

Date: 9/27/2021

EV: N/A



Rev: N/A

EV / Rev: N/A

Target: Connected work instructions and training software

Use of Proceeds: Accelerate product innovation and platform growth

Parsable raises \$60M Series D

🖡 P A R S A B L E

Date: 6/12/2020

EV⁽¹⁾: \$200M

Rev: \$10M

Activate GLADE BROOK

EV / Rev: 20x

Target: Mobile collaboration and workflow connected worker platform

Use of Proceeds: Global expansion, global partnerships/integration, and internal platform development

Top 10 Companies to Watch

Augmentir	AR-based work instruction, collaboration, training, and issue management platform with a core focus on industrial and manufacturing companies.	HQ: Horsham, PA Founded: 2017 Notable Investors: Gardner Lewis, Lerer Hippeau Recent Transaction: \$3.9M at \$44M EV Series A 2023	
ΟΟΖUΚΙ	Connected work instructions and training software focusing on driving frontline digitization for manufacturing companies.	HQ: San Luis Obispo, CA Founded: 2011 Notable Investor: Marlin Equity Partners Recent Transaction: PE Growth 2021	
GUARDHAT	Connected frontline worker platform intended to provide a productive work environment for workers through owned and third-party wearable devices	HQ: San Jose, CA Founded: 2014 Notable Investors: Augment Ventures, Annox Capital Recent Transaction: N/A Later Stage VC 2022	
	Connected worker solutions for maintenance, operations, and warehousing throughout the manufacturing and industrial landscapes.	HQ: Houston, TX Founded: 2012 Notable Investor: Vista Equity Recent Transaction: \$26M at \$131M EV Series B 2023	
LightGuide	Industrial AR platform for assembly and manufacturing with real-time operational insights that connect seamlessly across the factory environment.	HQ: Wixom, MI Founded: 2005 Notable Investor: Michigan Capital Advisors Recent Transaction: \$15M at \$79M EV Series B 2021	
👬 mobideo	Integrated suite of applications to support safe, compliant, and efficiently managed workforces with a core focus on industries that have strict compliance requirements.	HQ: Houston, TX Founded: 2000 Notable Investor: Delek US Recent Transaction: \$4.5M at \$45M EV Seed 2019	
operations ¹	Process documentation platform that digitizes production floor processes for manufacturers irrespective of end market.	HQ: Augsburg, Germany Founded: 2017 Notable Investors: 42CAP, Cherry Ventures Recent Transaction: \$11.7M at \$42M EV Series A 2022	
🔓 P A R S A B L E	Mobile collaboration and workflow platform that connects executives, functional experts, and frontline workers for manufacturing and industrial companies.	HQ: San Francisco, CA Founded: 2013 Notable Investors: GV, Lightspeed Venture Partners Recent Transaction: \$60M at \$200M EV Series D 2020	
SwipeGuide.	Digital work instruction platform that combines expert, in-house knowledge with visual step-by-step instructions on the shop floor.	HQ: Amsterdam, Netherlands Founded: 2014 Notable Investors: Capital Mills Recent Transaction: Undisclosed Later Stage VC 2023	
W worker base	Mobile platform for factory floor task management, safety alert notification, productivity analysis, data analytics, and workforce automation.	HQ: Munich, Germany Founded: 2017 Notable Investors: Point Nine Capital Recent Transaction: \$9.8M Series A 2022	

Design/Engineer Execute/Manufacture Manage/Maintain CAD/CAE/EDA **EAM/CMMS/Repositories** MES QMS EHS Verification/Simulation **MOM/Connected Worker** Bright Machines Augmentir COGNITE **ΔΟΖUΚΙ** G 🜔 falkonry SINNOVAPPTIVE LightGuide mobideo BARSABLE PLATAINE **Risk/Requirements** CAM operations¹ planview NOVIQU (C) SIGHT Poca Redzone G SIGMANEST **SIRFULL** 64 SwipeGuide. WORKERBASE Service/Repair SCADA/IIoT/DCS/PLC/HMI PLM/PIM/PDM

Contact the Houlihan Lokey team to discuss their perspective on market activity in the industrial software sector.



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Selected Manufacturing Software Experience

KEENSIGHT	SEMA		LEA PARTNERS has sold	CGTECH	to SpecPage	OSAS
has acquired O.uonos		has been acquired by	PRO.FILE	has been acquired by	has been acquired by	has been acquired by
a portfolio company of IK Partners	has been acquired by Bregal Unternehmerkapitar	a portfolio company of STG	a portfolio company of	SANDVIK		Aaptean
Buyside Advisor	Sellside Advisor	Sellside Advisor	Sellside Advisor*	Sellside Advisor	Sellside Advisor*	Sellside Advisor*

*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 2020 forward.



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