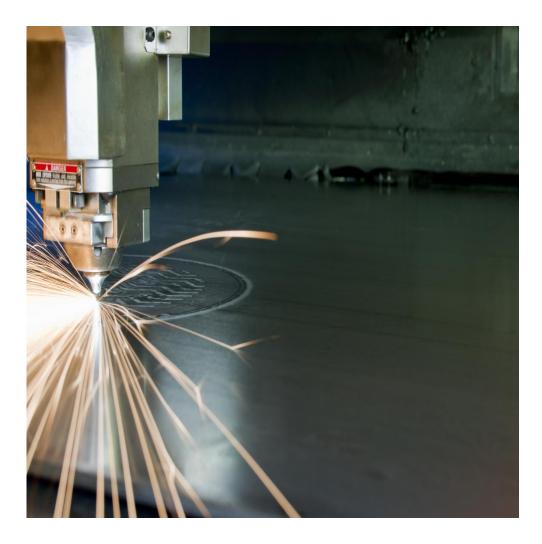
CIMdata 2022 Market Analysis Report Series

CAM Market Analysis Report—Version 30



CIMdata, Inc. Ann Arbor, MI USA +1 734.668.9922 www.CIMdata.com



Table of Contents

About the CIMdata PLM Market Analysis Report Series	
Table of Contents	ii
Index to Figures	iv
Index to Tables	V
Introduction	1
The Market and Industry	1
Worldwide Manufacturing	1
Machine Tools	2
CAM Software and Related Services Market	4
Total CAM Software Market Size and Growth	5
Trends in Technology and Business Structure	<u>C</u>
The Impact of IoT, Industry 4.0, Predictive Analytics, and EAM on the Shop Floor	
Internet of Things	
Industry 4.0 Predictive Analytics	
Enterprise Asset Management	
The Growing Need for More Sophisticated CAM	
CAM Market Mergers & Acquisitions	
Cloud-Based CAM Applications	
Expanded Use of CNC Machine Simulation Conclusion	
Market Sizing and Growth by Software and Related Services	
Market Distributions	
Market Distribution by Geography	
Market Distribution by Industry	
Market Distribution by Company Size	
Market Distribution by Type of Product Produced	
Market Distribution by Type of CAM Programmer	
Distribution of Direct Revenue by CAM Product Function	
Distribution of Programming Time by Machining Operation	
Distribution of Revenue by Degree of Automation	32
Market Distribution by Sales Channel	34
Rankings Based on Direct Revenue	35
Market Shares of the Top Ten Providers	35
General Comments	37
Overall Direct Revenues and Rankings	39
Direct Revenue Ranking by Brand	43
Ranking of Verification and Post-Processor Providers	45

Post-Processing	
Rapidly Growing Companies	
CIMdata Comments on the Leading CAM So	oftware Providers4
-	
Hexagon	
Siemens	6
	6
CAM Software Market Size Based on End-U	
	End-User Payments
·	
Sizing of the CAM-Related Reseller Market .	
Software Seats	
	Installed Base
	ped and by Installed Base
	nstalled Base, and Seats by Brand
Other Provider Comparisons	·
·	
_	
9	1
About CIMdata	
Index to Figures	
Figure 1: IMF Global GDP Growth Predictions	
Figure 2: Size and Composition of the CAM Market	
Figure 3: Revenue Growth at the Solution Provider Le	
Figure 4: Revenue Growth of CAM Software and Sen Figure 5: Market Distribution by Geography	
Figure 6: Distribution of the European Market	2
Figure 7: Distribution of the Asia-Pacific Market	
Figure 8: Market Distribution by Industry	
Figure 9: Market Distribution by Company Size Figure 10: Market Distribution by Type of Product Pro	
ga. v . vmarket Dietilbatien by Type of Troduct Tro	

Figure 11: Market Distribution by Type of CAM Programmer	30
Figure 12: Distribution of Revenues by CAM Product Function	
Figure 13: Market Distribution by Machining Operation	
Figure 14: Distribution of Revenue by Degree of Automation	
Figure 15: Distribution of Revenue by Sales Channel	
Figure 16: Market Share of the Largest CAM Providers by Direct Revenue	
Figure 17: Direct Revenue Market Shares of the Largest Providers, as Forecast	
Figure 18: Worldwide CAM Software and Related Services Based on End-User Payments	
Figure 19: Market Share of the Largest CAM Providers at the End-User Level	
Figure 20: Size and Growth of CAM-Related Reseller and OEM Market Revenues	82
Figure 21: Market Share of CAM Providers Based on Industrial Seats Shipped	
Figure 22: Market Share of CAM Providers Based on Industrial Seats Installed	

Index to Tables

Table 1: 2021 Worldwide Machine Tool Production and Growth Rates	4
Table 2: 2021 Value of Machine Tools Consumed	4
Table 3: Size and Composition of the CAM Market	6
Table 4: End-User Payments and Annual Growth Rates	7
Table 5: Direct Revenues and Annual Growth Rates	8
Table 6: Sizing and Distribution of CAM Software and Related Services	22
Table 7: 2021 Ranking of CAM Providers Based on Direct Revenues	39
Table 8: Forecast 2022 Ranking of CAM Providers Based on Direct Revenues	
Table 9: Comparison of 2020 Forecast of 2021 Revenue with Currently Estimated 2021 Revenue	
Table 10: Market Segment Positioning	43
Table 11: 2021 Ranking of Providers by Direct Revenue and Brand	
Table 12: Forecast 2022 Ranking of Providers by Direct Revenue and Brand	45
Table 13: Largest Verification and Simulation Providers in 2021	46
Table 14: Companies with Largest Percentage Revenue Growth, 2020 to 2021	47
Table 15: 2022 Forecast of Most Rapidly Growing Companies by Direct Revenue	48
Table 16: CAM Market Size and Growth Rate Based on End-User Payments	
Table 17: Forecast 2022 Market Share Estimate of the Top Ten Providers	
Table 18: 2021 Ranking of CAM Providers Based on End-User Payments	
Table 19: Forecast 2022 Ranking of CAM Providers Based on End-User Payments	
Table 20: Size and Growth of CAM-Related Reseller and OEM Market Revenues, 2013 to 2022	
Table 21: Summary of Seats Shipped and Installed by Year	
Table 22: 2021 Ranking of CAM Providers by Industrial Seats Shipped	
Table 23: 2021 Ranking of CAM Providers by Industrial Seats Installed	
Table 24: Forecast 2022 Ranking of CAM Providers by Industrial Seats Shipped	
Table 25: Forecast 2022 Ranking of CAM Providers by Industrial Seats Installed	
Table 26: 2021 Ranking of CAM Providers by Industrial Seats Shipped and by Brand	
Table 27: 2021 Ranking of CAM Providers by Industrial Seats Installed and by Brand	
Table 28: Forecast 2022 Ranking of CAM Providers by Industrial Seats Shipped and by Brand	92
Table 29: Forecast 2022 Ranking of CAM Providers by Industrial Seats Installed by Brand	
Table 30: 2021 Ranking of CAM Providers by Educational Seats Shipped	
Table 31: 2021 Ranking of CAM Providers by Education Seats Installed	
Table 32: Forecast 2022 Ranking of CAM Providers by Educational Seats Shipped	95
Table 33: Forecast 2022 Ranking of CAM Providers by Education Seats Installed	
Table 34: 2021 Ranking of CAM Providers by Education Seats Shipped by Brand	
Table 35: 2021 Ranking of CAM Providers by Education Seats Installed by Brand	97
Table 36: 2021 Ranking of Providers Based on Total Headcount in CAM Organization	99
Table 37: 2021 Ranking of Providers Based on Number in CAM Product Development	
Table 38: 2021 Ranking of Providers by Number of Resellers	
Table 39: 2021 Ranking of Providers by Number of Direct Salespeople	101