

Thin Wafer Market by Wafer Size (125 mm, 200 mm, and 300 mm), Process (Temporary Bonding & Debonding and Carrier-less/Taiko Process), Technology, Application (MEMS, CIS, Memory, RF Devices, LED, Interposer, Logic) and Geography - Global Forecast to 2027

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Report description:

The thin wafer market is projected to grow from USD 11.4 billion in 2022 and is projected to reach USD 20.6 billion by 2027; it is expected to grow at a CAGR of 12.5% from 2022 to 2027.

Reducing sizes of electronic devices, rising adoption of MEMS technology in portable health monitoring devices, growing smartphone and consumer electronics markets and high amount of material saving is expected to fuel the growth of the thin wafer market.

However, issues related to efficiency maintenance is limiting the growth of the thin wafer market.

"Market for 200 mm wafers to hold a significant share during the forecast period."

200 mm wafers are expected to witness significant demand majorly on account of their wide adoption in power devices, ICs, LEDs, MEMS, and many other semiconductor and electronic devices. The 200 mm wafers are affordable and can be easily integrated into various devices. As a result, these wafers are adopted on a large-scale basis by small-scale and large-scale electronic manufacturers. Furthermore, for the manufacturing of devices that require small die sizes and have a global shipment size in the thousands, these wafers are increasingly being used. LED, RF device, and power transistors manufacturers use 200 mm silicon wafers.

In May 2022, Soitec (France) has released its first 200mm silicon carbide SmartSiC wafer. With the release, Soitec is able to enlarge its SiC product portfolio beyond 150mm, take the development of its SmartSiC wafers to the next level and cater to the growing demand of the automotive market.

"Wafer polishing equipment market is expected to grow at the highest CAGR during the forecast period"

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The growth of the wafer polishing equipment market can be attributed to the increasing demand for thinner wafers to integrate microelectronics into various consumer electronic devices. The wafer polishing process creates thinner wafers compared to back-grinding alone and evens out any irregular topography and prevents warping that causes the wafers to weaken. Thus, there is an increased demand for wafer polishing equipment. Moreover, the increasing number of semiconductor fabrication plants in countries such as China and Taiwan, owing to growing investments in semiconductor manufacturing, is expected to contribute toward the growth of the wafer thinning equipment market.

"Asia Pacific to hold the largest share of the thin wafer market during the forecast period"

Asia Pacific is expected to hold the largest share of the thin wafer market during the forecast period. The Asia Pacific has witnessed large-scale adoption of smart electronic devices. This has led the consumer electronics manufacturers to launch higher-end devices in this region. The acceptance of the latest technology trends by majority of consumer electronics manufacturers have stimulated the demand for thinner wafers in Asia Pacific. In recent years, there has been a remarkable increase in the number of semiconductor fabrication plants and IC manufacturing firms in countries such as China and Taiwan, due to investments in semiconductor manufacturing this has paved way towards the growth of the thin wafer market in the Asia Pacific region.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the thin wafer space. The break-up of primary participants for the report has been shown below:

-□By Company Type: Tier 1 -40%, Tier 2 - 40%, and Tier 3 - 20%

-□By Designation: C-level Executives - 40%, Directors -40%, and Others - 20%

-□By Region: Americas -33%, Asia Pacific- 45%, EMEA -22%

The report profiles key players in the thin wafer market with their respective market ranking analysis. Prominent players profiled in this report are include Shin-Etsu Chemical Co., Ltd. (Japan), SUMCO Corporation (Japan), GlobalWafers Co., Ltd. (Taiwan), Siltronic (Germany), SK Siltron (South Korea), SUSS MicroTec (Germany), DISCO Corporation (Japan), 3M (US), and Applied Materials (US Apart from these, Mechatronic Systemtechnik (Austria), Synova (Switzerland), EV Group (Austria), Wafer Works Corporation (Taiwan), Atecom technology Co., Ltd. (Taiwan), Siltronix Silicon Technologies (France), LDK Solar (China), UniversityWafer, Inc. (US) are among a few emerging companies in the thin wafer market.

Research Coverage:

This research report categorizes global thin wafer market based on wafer size, process, technology, application and geography. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the thin wafer market and forecasts the same till 2027 (including analysis of COVID-19 impact on the market). Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the thin wafer ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

- 1.□This report segments the thin wafer market comprehensively and provides the closest market size projection for all subsegments across different regions.
- 2.□The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
- 3.□This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product developments and launches, partnerships, and mergers and acquisitions.
- 4.□The analysis of the top 28 companies, based on the market rank as well as the product footprint will help stakeholders visualize the market positioning of these key players.
- 5.□Patent analysis, trade data, and technological trends that will shape the market in the coming years has also been covered in this report.

Table of Contents:

1□INTRODUCTION□25

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1.1	STUDY OBJECTIVES	25
1.2	MARKET DEFINITION	25
1.3	STUDY SCOPE	26
1.3.1	MARKETS COVERED	26
1.3.2	INCLUSIONS AND EXCLUSIONS	26
1.3.3	REGIONAL SCOPE	27
1.3.4	YEARS CONSIDERED	27
1.4	CURRENCY	27
1.5	PACKAGE SIZE	28
1.6	STAKEHOLDERS	28
1.7	SUMMARY OF CHANGES	28
2	RESEARCH METHODOLOGY	29
2.1	RESEARCH DATA	29
	FIGURE 1 THIN WAFER MARKET: RESEARCH DESIGN	30
2.1.1	SECONDARY DATA	30
2.1.1.1	Major secondary sources	31
2.1.1.2	Key data from secondary sources	31
2.1.2	PRIMARY DATA	31
2.1.2.1	Primary interviews with experts	32
2.1.2.2	Breakdown of primaries	32
2.1.3	SECONDARY AND PRIMARY RESEARCH	33
2.1.3.1	Key industry insights	33
2.2	MARKET SIZE ESTIMATION	34
	FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY: REVENUE GENERATED BY KEY PLAYERS IN THIN WAFER MARKET	34
2.2.1	BOTTOM-UP APPROACH	35
2.2.1.1	Approach to capture market size by bottom-up analysis (demand side)	35
	FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	35
2.2.2	TOP-DOWN APPROACH	35
2.2.2.1	Approach to capture market size by top-down analysis (supply side)	36
	FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	36
2.3	MARKET BREAKDOWN AND DATA TRIANGULATION	37
	FIGURE 5 DATA TRIANGULATION	37
2.4	RESEARCH ASSUMPTIONS	38
	FIGURE 6 ASSUMPTIONS FOR RESEARCH STUDY	38
2.5	RISK ASSESSMENT	38
2.6	LIMITATIONS	39
3	EXECUTIVE SUMMARY	40
3.1	GROWTH RATE ASSUMPTIONS/GROWTH FORECAST	40
	FIGURE 7 300 MM WAFER TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD	41
	FIGURE 8 THIN WAFER MARKET, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES)	42
	FIGURE 9 MEMORY APPLICATIONS TO DOMINATE THIN WAFER MARKET BY 2027	42
	FIGURE 10 WAFER THINNING EQUIPMENT MARKET FOR LED APPLICATIONS TO GROW AT HIGHEST CAGR BETWEEN 2022 AND 2027	43
	FIGURE 11 ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF THIN WAFER MARKET IN 2021	44
4	PREMIUM INSIGHTS	45

4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN THIN WAFER MARKET	45
	FIGURE 12 THIN WAFERS EXPECTED TO WITNESS HIGH ADOPTION RATE DURING FORECAST PERIOD	45
4.2	WAFER THINNING EQUIPMENT MARKET, BY TECHNOLOGY	45
	FIGURE 13 DICING TECHNOLOGY TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD	45
4.3	THIN WAFER MARKET, BY APPLICATION	46
	FIGURE 14 MARKET FOR LED EXPECTED TO GROW AT HIGHEST CAGR BETWEEN 2022 AND 2027	46
4.4	WAFER THINNING EQUIPMENT MARKET, BY TECHNOLOGY AND APPLICATION	46
	FIGURE 15 MEMORY AND LOGIC TO BE MOST FAVORABLE APPLICATION AREAS FOR WAFER THINNING EQUIPMENT MARKET IN 2022	46
4.5	GEOGRAPHICAL ANALYSIS OF THIN WAFER MARKET	47
	FIGURE 16 CHINA TO EXHIBIT HIGHEST CAGR IN THIN WAFER MARKET BETWEEN 2022 AND 2027	47
5	MARKET OVERVIEW	48
5.1	INTRODUCTION	48
5.2	MARKET DYNAMICS	48
	FIGURE 17 THIN WAFER MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	48
5.2.1	DRIVERS	49
5.2.1.1	Rising adoption of MEMS technology in portable health monitoring devices	49
5.2.1.2	Reducing size of electronic devices	49
5.2.1.3	Growing smartphone and consumer electronics markets	49
5.2.1.4	High amount of material saving	49
	FIGURE 18 DRIVERS: IMPACT ANALYSIS	50
5.2.2	RESTRAINTS	50
5.2.2.1	Efficiency maintenance-major issue for thin wafers	50
	FIGURE 19 RESTRAINTS: IMPACT ANALYSIS	50
5.2.3	OPPORTUNITIES	51
5.2.3.1	Expanding IC industry in China	51
5.2.3.2	Growing adoption of IoT and AI in automotive sector	51
	FIGURE 20 GLOBAL IOT CONNECTIONS FORECAST BY 2025 (BILLION)	52
5.2.3.3	Rising adoption of portable devices	52
	FIGURE 21 OPPORTUNITIES: IMPACT ANALYSIS	52
5.2.4	CHALLENGES	53
5.2.4.1	Volatility and susceptibility to damage caused by pressure or stress	53
	FIGURE 22 CHALLENGES: IMPACT ANALYSIS	53
5.3	VALUE CHAIN ANALYSIS	53
	FIGURE 23 VALUE CHAIN ANALYSIS: INTEGRATED DEVICE MANUFACTURERS ADD MAJOR VALUE	53
5.4	ECOSYSTEM/MARKET MAP	55
	TABLE 1 PLAYERS AND THEIR ROLE IN ECOSYSTEM	56
5.5	TECHNOLOGY ANALYSIS	57
5.5.1	SILICON CARBIDE (SIC) TECHNOLOGY	57
	TABLE 2 COMPARISON OF BENEFITS OF SIC TECHNOLOGY WITH OTHER TECHNOLOGIES	57
5.6	CASE STUDY ANALYSIS	58
5.6.1	STMICROELECTRONICS SELECTS CREE'S SILICON CARBIDE BARE AND EPITAXIAL WAFERS	58
5.6.2	INFINEON TECHNOLOGIES AND UMC ANNOUNCE MANUFACTURING AGREEMENT	58
5.6.3	GLOBALWAFERS CO., LTD. AND GLOBALFOUNDRIES ANNOUNCE PARTNERSHIP TO EXPAND SEMICONDUCTOR WAFER SUPPLY	59
5.6.4	VTT USES OKMETIC'S E-SOI WAFERS FOR ITS PHOTONICS TECHNOLOGY	59
5.6.5	SILTERRA MALAYSIA'S NEW MANUFACTURING TECHNOLOGY FOR MEMS AND PHOTONICS DEVICES USES OKMETIC'S C-SOI	

WAFERS 60

5.7 REGULATORY LANDSCAPE 60

5.8 PRICING ANALYSIS 61

TABLE 3 SELLING PRICE OF THIN WAFER 61

6 THIN WAFER MARKET, BY PROCESS 62

6.1 INTRODUCTION 63

FIGURE 24 TEMPORARY BONDER AND DEBONDER MARKET SIZE 63

6.2 TEMPORARY BONDING & DEBONDING 63

6.2.1 MARKET ADHESIVES 63

6.2.1.1 UV-release adhesives 64

6.2.1.2 Thermal-release adhesives 64

6.2.1.3 Solvent-release adhesives 64

6.3 CARRIER-LESS APPROACH (TAIKO PROCESS) 64

?

7 THIN WAFER MARKET, BY WAFER SIZE 65

7.1 INTRODUCTION 66

FIGURE 25 300 MM WAFER SEGMENT TO DOMINATE MARKET BETWEEN 2022 AND 2027 66

TABLE 4 THIN WAFER MARKET, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 66

TABLE 5 THIN WAFER MARKET, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 67

TABLE 6 THIN WAFER MARKET, BY WAFER SIZE, 2018-2021 (USD MILLION) 67

TABLE 7 THIN WAFER MARKET, BY WAFER SIZE, 2022-2027 (USD MILLION) 67

7.2 125 MM 68

7.2.1 ADOPTION OF LARGER DIAMETER WAFERS BY SEMICONDUCTOR MANUFACTURERS TO IMPACT SEGMENT 68

TABLE 8 125 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (MILLION SQUARE INCHES) 68

TABLE 9 125 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (MILLION SQUARE INCHES) 68

TABLE 10 125 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 69

TABLE 11 125 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 69

7.3 200 MM 69

7.3.1 DEMAND FOR 200 MM WAFERS TO WITNESS STEADY GROWTH DURING FORECAST PERIOD 69

TABLE 12 200 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (MILLION SQUARE INCHES) 70

TABLE 13 200 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (MILLION SQUARE INCHES) 70

TABLE 14 200 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 71

TABLE 15 200 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 71

7.4 300 MM 72

7.4.1 300 MM WAFER SEGMENT EXPECTED TO WITNESS FASTEST GROWTH DURING FORECAST PERIOD 72

TABLE 16 300 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (MILLION SQUARE INCHES) 72

TABLE 17 300 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (MILLION SQUARE INCHES) 73

TABLE 18 300 MM: THIN WAFER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 73

TABLE 19 300 MM: THIN WAFER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 74

?

8 THIN WAFER MARKET, BY APPLICATION 75

8.1 INTRODUCTION 76

FIGURE 26 THIN WAFER SHIPMENTS FOR LED APPLICATIONS TO GROW AT HIGHEST RATE BETWEEN 2022 AND 2027 76

TABLE 20 THIN WAFER MARKET, BY APPLICATION, 2018-2021 (MILLION SQUARE INCHES) 76

TABLE 21 THIN WAFER MARKET, BY APPLICATION, 2022-2027 (MILLION SQUARE INCHES) 77

FIGURE 27 MEMORY TO BE LARGEST APPLICATION IN THIN WAFERS MARKET IN 2022 77

TABLE 22 THIN WAFER MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 78

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TABLE 23 THIN WAFER MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 78

TABLE 24 WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION) 79

TABLE 25 WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION) 79

8.2 MEMS 80

8.2.1 GROWTH ATTRIBUTED TO HIGH ADOPTION IN PORTABLE ELECTRONIC DEVICES 80

TABLE 26 THIN WAFER MARKET FOR MEMS DEVICES, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 80

TABLE 27 THIN WAFER MARKET FOR MEMS DEVICES, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 80

TABLE 28 THIN WAFER MARKET FOR MEMS DEVICES, BY WAFER SIZE, 2018-2021 (USD MILLION) 81

TABLE 29 THIN WAFER MARKET FOR MEMS DEVICES, BY WAFER SIZE, 2022-2027 (USD MILLION) 81

TABLE 30 WAFER THINNING EQUIPMENT MARKET FOR MEMS APPLICATIONS, BY REGION, 2018-2021 (USD MILLION) 81

TABLE 31 WAFER THINNING EQUIPMENT MARKET FOR MEMS APPLICATIONS, BY REGION, 2022-2027 (USD MILLION) 82

8.3 CIS 82

8.3.1 INCREASING DEMAND FOR CIS FROM AUTOMOTIVE VERTICAL EXPECTED TO DRIVE DEMAND 82

TABLE 32 THIN WAFER MARKET FOR CIS APPLICATIONS, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 82

TABLE 33 THIN WAFER MARKET FOR CIS APPLICATIONS, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 83

TABLE 34 THIN WAFER MARKET FOR CIS APPLICATIONS, BY WAFER SIZE, 2018-2021 (USD MILLION) 83

TABLE 35 THIN WAFER MARKET FOR CIS APPLICATIONS, BY WAFER SIZE, 2022-2027 (USD MILLION) 83

TABLE 36 WAFER THINNING EQUIPMENT MARKET FOR CIS APPLICATIONS, BY REGION, 2018-2021 (USD MILLION) 84

TABLE 37 WAFER THINNING EQUIPMENT MARKET FOR CIS APPLICATIONS, BY REGION, 2022-2027 (USD MILLION) 84

8.4 MEMORY 84

8.4.1 GROWING ADOPTION OF NAND FLASH MEMORY IN MOBILE ELECTRONICS TO DRIVE DEMAND 84

TABLE 38 THIN WAFER MARKET FOR MEMORY DEVICES, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 85

TABLE 39 THIN WAFER MARKET FOR MEMORY DEVICES, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 85

TABLE 40 THIN WAFER MARKET FOR MEMORY DEVICES, BY WAFER SIZE, 2018-2021 (USD MILLION) 85

TABLE 41 THIN WAFER MARKET FOR MEMORY DEVICES, BY WAFER SIZE, 2022-2027 (USD MILLION) 86

TABLE 42 WAFER THINNING EQUIPMENT MARKET FOR MEMORY APPLICATIONS, BY REGION, 2018-2021 (USD MILLION) 86

TABLE 43 WAFER THINNING EQUIPMENT MARKET FOR MEMORY APPLICATIONS, BY REGION, 2022-2027 (USD MILLION) 86

8.5 RF DEVICES 87

8.5.1 GROWING ADOPTION OF RF DEVICES IN SMARTPHONES TO PROPEL MARKET GROWTH 87

TABLE 44 THIN WAFER MARKET FOR RF DEVICES, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 87

TABLE 45 THIN WAFER MARKET FOR RF DEVICES, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 87

TABLE 46 THIN WAFER MARKET FOR RF DEVICES, BY WAFER SIZE, 2018-2021 (USD MILLION) 88

TABLE 47 THIN WAFER MARKET FOR RF DEVICES, BY WAFER SIZE, 2022-2027 (USD MILLION) 88

TABLE 48 WAFER THINNING EQUIPMENT MARKET FOR RF DEVICES, BY REGION, 2018-2021 (USD MILLION) 88

TABLE 49 WAFER THINNING EQUIPMENT MARKET FOR RF DEVICES, BY REGION, 2022-2027 (USD MILLION) 88

8.6 LED 89

8.6.1 INCREASING DEMAND FOR LED COMPONENTS IN HOMES AND INFRASTRUCTURE TO DRIVE SEGMENT 89

TABLE 50 THIN WAFER MARKET FOR LED DEVICES, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 89

TABLE 51 THIN WAFER MARKET FOR LED DEVICES, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 90

TABLE 52 THIN WAFER MARKET FOR LED DEVICES, BY WAFER SIZE, 2018-2021 (USD MILLION) 90

TABLE 53 THIN WAFER MARKET FOR LED DEVICES, BY WAFER SIZE, 2022-2027 (USD MILLION) 90

TABLE 54 WAFER THINNING EQUIPMENT MARKET FOR LED DEVICES, BY REGION, 2018-2021 (USD MILLION) 91

TABLE 55 WAFER THINNING EQUIPMENT MARKET FOR LED DEVICES, BY REGION, 2022-2027 (USD MILLION) 91

8.7 INTERPOSERS 91

8.7.1 NEED FOR ADVANCED ARCHITECTURE IN MINIATURE ELECTRONIC DEVICES TO DRIVE DEMAND 91

TABLE 56 THIN WAFER MARKET FOR INTERPOSERS, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES) 92

TABLE 57 THIN WAFER MARKET FOR INTERPOSERS, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES) 92

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TABLE 58	THIN WAFER MARKET FOR INTERPOSERS, BY WAFER SIZE, 2018-2021 (USD MILLION)	92
TABLE 59	THIN WAFER MARKET FOR INTERPOSERS, BY WAFER SIZE, 2022-2027 (USD MILLION)	93
TABLE 60	WAFER THINNING EQUIPMENT MARKET FOR INTERPOSERS, BY REGION, 2018-2021 (USD MILLION)	93
TABLE 61	WAFER THINNING EQUIPMENT MARKET FOR INTERPOSERS, BY REGION, 2022-2027 (USD MILLION)	93
8.8	LOGIC	94
8.8.1	HIGH PENETRATION OF AFFORDABLE CLOUD COMPUTING SOLUTIONS TO DRIVE DEMAND	94
TABLE 62	THIN WAFER MARKET FOR LOGIC DEVICES, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES)	94
TABLE 63	THIN WAFER MARKET FOR LOGIC DEVICES, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES)	94
TABLE 64	THIN WAFER MARKET FOR LOGIC DEVICES, BY WAFER SIZE, 2018-2021 (USD MILLION)	95
TABLE 65	THIN WAFER MARKET FOR LOGIC DEVICES, BY WAFER SIZE, 2022-2027 (USD MILLION)	95
TABLE 66	WAFER THINNING EQUIPMENT MARKET LOGIC APPLICATIONS, BY REGION, 2018-2021 (USD MILLION)	95
TABLE 67	WAFER THINNING EQUIPMENT MARKET FOR LOGIC APPLICATIONS, BY REGION, 2022-2027 (USD MILLION)	96
8.9	OTHERS	96
TABLE 68	THIN WAFER MARKET FOR OTHER APPLICATIONS, BY WAFER SIZE, 2018-2021 (MILLION SQUARE INCHES)	97
TABLE 69	THIN WAFER MARKET FOR OTHER APPLICATIONS, BY WAFER SIZE, 2022-2027 (MILLION SQUARE INCHES)	97
TABLE 70	THIN WAFER MARKET FOR OTHER APPLICATIONS, BY WAFER SIZE, 2018-2021 (USD MILLION)	97
TABLE 71	THIN WAFER MARKET FOR OTHER APPLICATIONS, BY WAFER SIZE, 2022-2027 (USD MILLION)	98
TABLE 72	WAFER THINNING EQUIPMENT MARKET FOR OTHER APPLICATIONS, BY REGION, 2018-2021 (USD MILLION)	98
TABLE 73	WAFER THINNING EQUIPMENT MARKET FOR OTHER APPLICATIONS, BY REGION, 2022-2027 (USD MILLION)	98
9	THIN WAFER MARKET, BY TECHNOLOGY	99
9.1	INTRODUCTION	100
FIGURE 28	WAFER POLISHING EQUIPMENT MARKET TO GROW AT HIGHEST CAGR BETWEEN 2022 AND 2027	100
TABLE 74	WAFER THINNING EQUIPMENT MARKET, BY TECHNOLOGY, 2018-2021 (USD MILLION)	100
TABLE 75	WAFER THINNING EQUIPMENT MARKET, BY TECHNOLOGY, 2022-2027 (USD MILLION)	100
9.2	WAFER GRINDING	101
9.2.1	ATTRACTIVE FOR USE IN MINIATURIZATION OF SEMICONDUCTOR DEVICES	101
TABLE 76	WAFER GRINDING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	102
TABLE 77	WAFER GRINDING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	102
TABLE 78	WAFER GRINDING EQUIPMENT MARKET, BY REGION, 2018-2021 (USD MILLION)	102
TABLE 79	WAFER GRINDING EQUIPMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	103
9.3	WAFER POLISHING	103
9.3.1	DEMAND FOR THIN WAFERS WITH SMOOTH SURFACE FOR SEAMLESS INTEGRATION TO DRIVE SEGMENT	103
TABLE 80	WAFER POLISHING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	104
TABLE 81	WAFER POLISHING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	104
TABLE 82	WAFER POLISHING EQUIPMENT MARKET, BY REGION, 2018-2021 (USD MILLION)	104
TABLE 83	WAFER POLISHING EQUIPMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	105
9.4	WAFER DICING	105
9.4.1	WAFER DICING EQUIPMENT TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD	105
TABLE 84	WAFER DICING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	106
TABLE 85	WAFER DICING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	106
TABLE 86	WAFER DICING EQUIPMENT MARKET, BY REGION, 2018-2021 (USD MILLION)	107
TABLE 87	WAFER DICING EQUIPMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	107
10	THIN WAFER MARKET, BY GEOGRAPHY	108
10.1	INTRODUCTION	109
FIGURE 29	THIN WAFER MARKET: GEOGRAPHIC SNAPSHOT, 2022-2027	109
TABLE 88	THIN WAFER MARKET, BY REGION, 2018-2021 (USD MILLION)	109
TABLE 89	THIN WAFER MARKET, BY REGION, 2022-2027 (USD MILLION)	110

TABLE 90	WAFER THINNING EQUIPMENT MARKET, BY REGION, 2018-2021 (USD MILLION)	110
TABLE 91	WAFER THINNING EQUIPMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	110
10.2	AMERICAS	111
FIGURE 30	AMERICAS: GEOGRAPHIC SNAPSHOT	111
TABLE 92	AMERICAS: THIN WAFER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	112
TABLE 93	AMERICAS: THIN WAFER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	112
TABLE 94	AMERICAS: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	112
TABLE 95	AMERICAS: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	113
10.2.1	US	113
10.2.1.1	US to lead thin wafer market in Americas during forecast period	113
10.2.2	CANADA	114
10.2.2.1	Government support to promote use of electric vehicles to drive market	114
10.2.3	REST OF AMERICAS	114
10.2.3.1	Growing demand for semiconductor devices from consumer electronics and automotive industries to fuel market growth	114
10.3	EMEA	115
FIGURE 31	EMEA: GEOGRAPHIC SNAPSHOT	115
TABLE 96	EMEA: THIN WAFER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	116
TABLE 97	EMEA: THIN WAFER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	116
TABLE 98	EMEA: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	116
TABLE 99	EMEA: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	117
10.3.1	UK	117
10.3.1.1	Increase in demand for portable medical devices to drive market	117
10.3.2	GERMANY	117
10.3.2.1	Growing adoption of MEMS sensors in automotive industry to drive market	117
10.3.3	FRANCE	118
10.3.3.1	Increased EV manufacturing to bolster market growth in France	118
10.3.4	REST OF EMEA	118
10.3.4.1	Dearth of thin wafer manufacturers ? opportunity for new investments in Rest of EMEA	118
10.4	ASIA PACIFIC	119
FIGURE 32	ASIA PACIFIC: GEOGRAPHIC SNAPSHOT	119
TABLE 100	ASIA PACIFIC: THIN WAFER MARKET, BY COUNTRY, 2018-2021 (USD MILLION)	120
TABLE 101	ASIA PACIFIC: THIN WAFER MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	120
TABLE 102	ASIA PACIFIC: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2018-2021 (USD MILLION)	120
TABLE 103	ASIA PACIFIC: WAFER THINNING EQUIPMENT MARKET, BY APPLICATION, 2022-2027 (USD MILLION)	121
10.4.1	TAIWAN	121
10.4.1.1	Presence of several fabrication facilities and IC manufacturing firms to drive market	121
10.4.2	CHINA	122
10.4.2.1	China's focus on achieving 70% IC self-sufficiency by 2025 to drive market	122
10.4.3	JAPAN	123
10.4.3.1	Presence of major market players and end-use industries to drive market	123
10.4.4	SOUTH KOREA	123
10.4.4.1	South Korea expected to account for largest share of Asia Pacific market during forecast period	123
10.4.5	REST OF ASIA PACIFIC	124
10.4.5.1	Growing demand for connected devices to drive market in Rest of Asia Pacific	124
11	COMPETITIVE LANDSCAPE	125
11.1	COMPETITIVE LANDSCAPE	125

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TABLE 104	THIN WAFER MARKET: KEY GROWTH STRATEGIES ADOPTED BY COMPANIES FROM 2019 TO 2022	125
11.2	REVENUE ANALYSIS OF TOP FIVE COMPANIES	126
FIGURE 33	THREE-YEAR REVENUE ANALYSIS OF TOP FIVE PLAYERS IN THIN WAFER MARKET	126
11.3	MARKET SHARE ANALYSIS (2021)	127
TABLE 105	THIN WAFER MARKET: DEGREE OF COMPETITION	127
11.4	COMPANY EVALUATION MATRIX	128
11.4.1	STARS	128
11.4.2	EMERGING LEADERS	128
11.4.3	PERVASIVE PLAYERS	129
11.4.4	PARTICIPANTS	129
FIGURE 34	THIN WAFER MARKET, COMPANY EVALUATION MATRIX, 2021	129
11.5	START-UP/SME EVALUATION MATRIX	130
11.5.1	PROGRESSIVE COMPANIES	131
11.5.2	RESPONSIVE COMPANIES	131
11.5.3	DYNAMIC COMPANIES	131
11.5.4	STARTING BLOCKS	131
FIGURE 35	THIN WAFER MARKET, START-UP/SME EVALUATION QUADRANT, 2021	132
11.6	THIN WAFER MARKET: COMPANY FOOTPRINT	133
TABLE 106	COMPANY FOOTPRINT	133
TABLE 107	COMPANY WAFER SIZE FOOTPRINT	134
TABLE 108	COMPANY APPLICATION FOOTPRINT	135
TABLE 109	COMPANY REGIONAL FOOTPRINT	136
11.7	COMPETITIVE SITUATIONS AND TRENDS	137
11.7.1	PRODUCT LAUNCHES	137
TABLE 110	PRODUCT LAUNCHES, 2019-2022	137
11.7.2	DEALS	137
TABLE 111	DEALS, 2019-2022	137
11.7.3	OTHERS	139
TABLE 112	EXPANSION, 2019-2022	139
?		
12	COMPANY PROFILES	141
	(Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*	
12.1	INTRODUCTION	141
12.2	KEY PLAYERS	141
12.2.1	SK SILTRON	141
TABLE 113	SK SILTRON: BUSINESS OVERVIEW	141
FIGURE 36	SK SILTRON: COMPANY SNAPSHOT	142
12.2.2	SHIN-ETSU CHEMICAL CO., LTD.	144
TABLE 114	SHIN-ETSU CHEMICAL CO., LTD.: BUSINESS OVERVIEW	144
FIGURE 37	SHIN-ETSU CHEMICAL CO., LTD.: COMPANY SNAPSHOT	145
12.2.3	SILTRONIC	148
TABLE 115	SILTRONIC: BUSINESS OVERVIEW	148
FIGURE 38	SILTRONIC: COMPANY SNAPSHOT	149
12.2.4	SUMCO CORPORATION	152
TABLE 116	SUMCO CORPORATION: BUSINESS OVERVIEW	152
FIGURE 39	SUMCO CORPORATION: COMPANY SNAPSHOT	152

12.2.5	GLOBALWAFERS CO., LTD.	155
TABLE 117	GLOBALWAFERS CO., LTD.: BUSINESS OVERVIEW	155
FIGURE 40	GLOBALWAFERS CO., LTD.: COMPANY SNAPSHOT	156
12.2.6	SOITEC	160
TABLE 118	SOITEC: BUSINESS OVERVIEW	160
FIGURE 41	SOITEC: COMPANY SNAPSHOT	161
12.2.7	SUSS MICROTEC	164
TABLE 119	SUSS MICROTEC: BUSINESS OVERVIEW	164
FIGURE 42	SUSS MICROTEC: COMPANY SNAPSHOT	165
12.2.8	DISCO CORPORATION	169
TABLE 120	DISCO CORPORATION: BUSINESS OVERVIEW	169
FIGURE 43	DISCO CORPORATION: COMPANY SNAPSHOT	169
12.2.9	OKMETIC	172
TABLE 121	OKMETIC: BUSINESS OVERVIEW	172
12.2.10	3M	174
TABLE 122	3M: BUSINESS OVERVIEW	174
FIGURE 44	3M: COMPANY SNAPSHOT	174
12.2.11	APPLIED MATERIALS	176
TABLE 123	APPLIED MATERIALS: BUSINESS OVERVIEW	176
FIGURE 45	APPLIED MATERIALS: COMPANY SNAPSHOT	177
12.3	OTHER COMPANIES	179
12.3.1	MECHATRONIC SYSTEMTECHNIK	179
12.3.2	SYNOVA	180
12.3.3	EV GROUP	181
12.3.4	BREWER SCIENCE	182
12.3.5	WAFER WORKS CORPORATION	183
12.3.6	ATECOM TECHNOLOGY CO., LTD.	184
12.3.7	SIL'TRONIX SILICON TECHNOLOGIES	185
12.3.8	LDK SOLAR	185
12.3.9	PV CRYSTALOX SOLAR PLC	186
12.3.10	UNIVERSITYWAFER, INC	186
12.3.11	SHANGHAI SIMGUI TECHNOLOGY CO., LTD	187
12.3.12	VIRGINIA SEMICONDUCTOR INC	188
12.3.13	SILICON VALLEY MICROELECTRONICS	189
12.3.14	WAFER WORLD INC.	190
*Details on Business Overview, Products Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.		
13	APPENDIX	191
13.1	DISCUSSION GUIDE	191
13.2	KNOWLEDGE STORE: MARKETSSANDMARKETS' SUBSCRIPTION PORTAL	194
13.3	CUSTOMIZATION OPTIONS	196
13.4	RELATED REPORTS	196
13.5	AUTHOR DETAILS	197

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