

The Current Sentiment of the Global Electronics Manufacturing Supply Chain

Monitoring the Pulse of the Global Electronics Industry

November 2022

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Executive Summary



> Industry sentiment remains largely unchanged in November

- The Orders Index fell three points but remains in expansionary territory. This is consistent with slowing, but still solid demand. The Backlog Index also fell two points, but likewise remains solid. With weaker incoming orders, companies have been able to work backlog levels down in recent months.
- The Capacity Utilization Index declined three points and the Capacity Utilization Outlook Index fell another point.
 Both indexes remain in expansionary territory but suggest some manufacturers are reducing production schedules in the face of a weaker demand

> Industry continues to face high costs and this month's data suggests mixed cost pressures

- After rising last month, the Materials Cost Index dropped two points last month to tie the low of October 2022, suggesting input costs are easing. The Materials Cost Outlook Index fell three points suggesting industry expects material costs to continue to ease.
- The Labor Cost Index rose three points last month to tie the index high from July 2022, suggesting labor costs remain elevated. This is consistent with recent wage data suggesting inflationary pressures remain strong.

Current Conditions for the Electronics Supply Chain

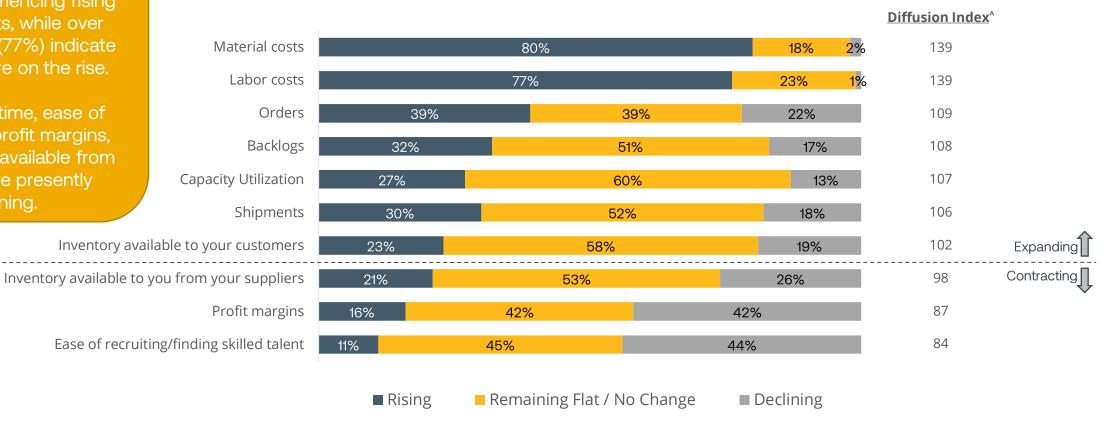


Four-fifths (80%) of electronics manufacturers are currently experiencing rising material costs, while over three-fourths (77%) indicate labor costs are on the rise.

At the same time, ease of recruitment, profit margins, and inventory available from suppliers are presently declining.

Current Direction of Key Business Indicators

-- Total --



[^]A diffusion index is a statistical measure used to detect economic turning points.

Regional Differences in Current Conditions



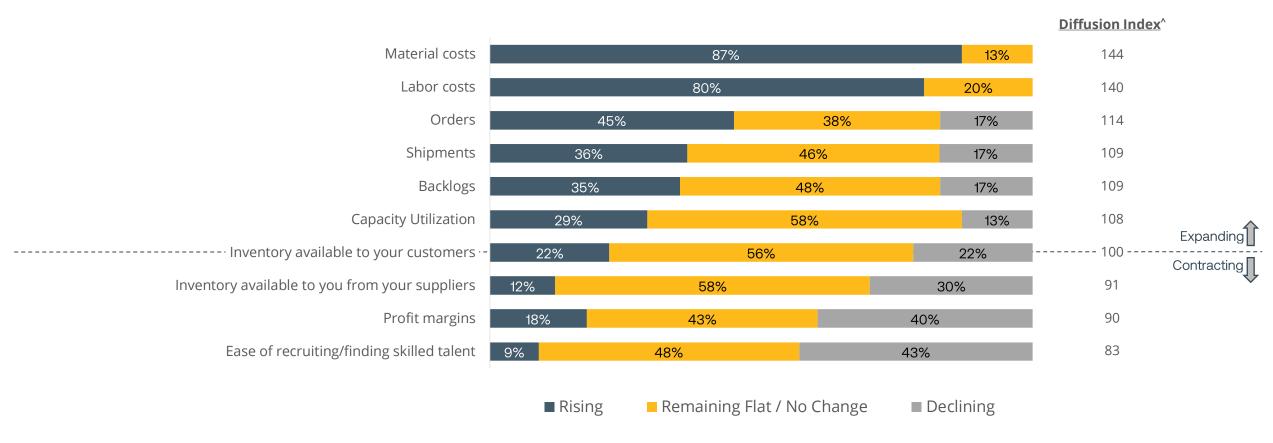
- Material costs are rising at a higher rate in North America and Europe vs. in APAC and among firms operating globally.
 - While 87% of North American manufacturers and 86% of European manufacturers indicate material costs are rising, only 63% of manufacturers in APAC and 57% of those operating globally indicate the same.
 - Concurrently, 11% of APAC manufacturers report declining material costs, which compares to no (0%) reported decline across all other markets.
 - Among Global firms, material costs are more likely to be holding steady, with 43% reporting no change vs. 13% in North America and 14% in Europe.
- Supplier inventory is rising more so for manufacturers who operate globally vs. those in North America.
 - Among Global firms, 40% report supplier inventory is currently rising, while at the same time, only 12% of firms in North America report the same.

The View From Companies Primarily Operating in North America



Current Direction of Key Business Indicators

-- Primary Region: North America --



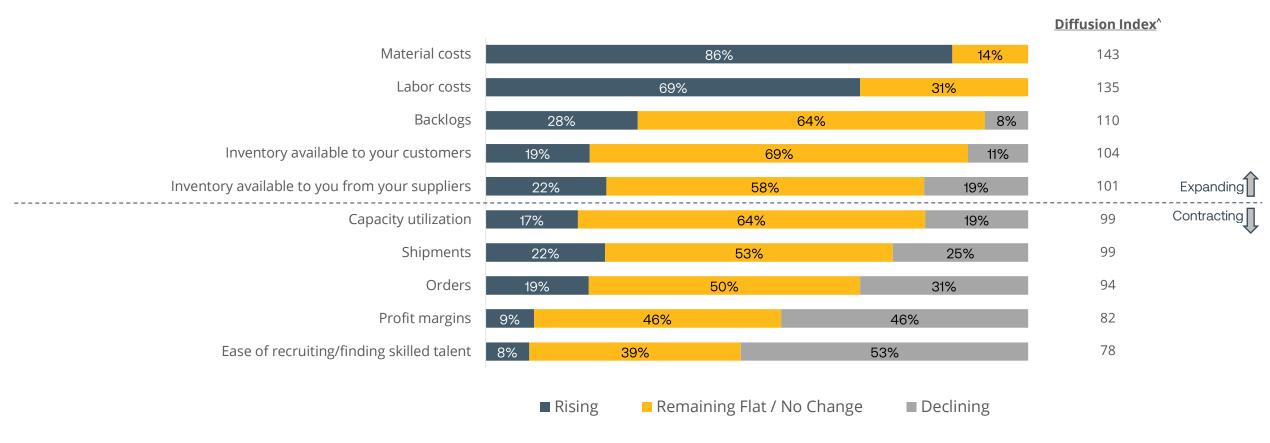
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The View From Companies Primarily Operating in Europe



Current Direction of Key Business Indicators

-- Primary Region: Europe --



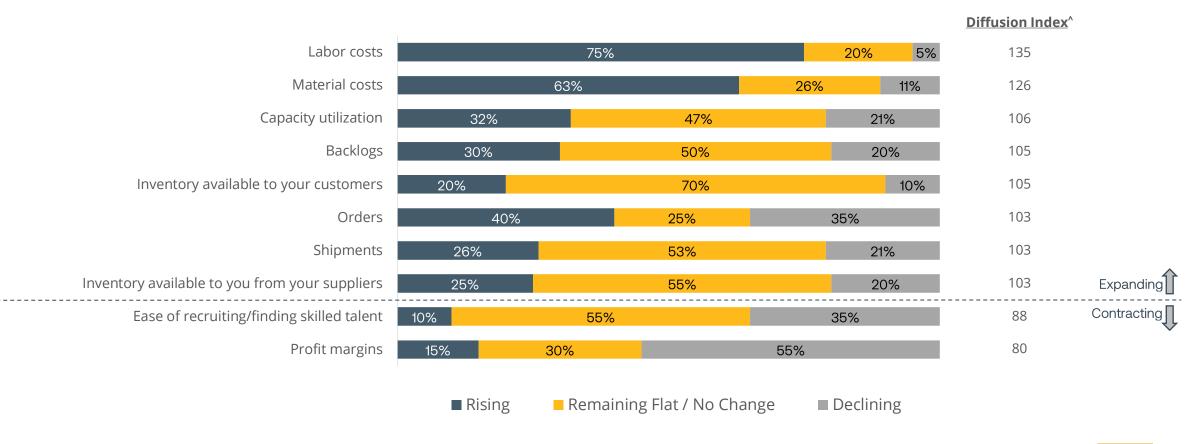
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The View From Companies Primarily Operating in APAC



Current Direction of Key Business Indicators

-- Primary Region: APAC --



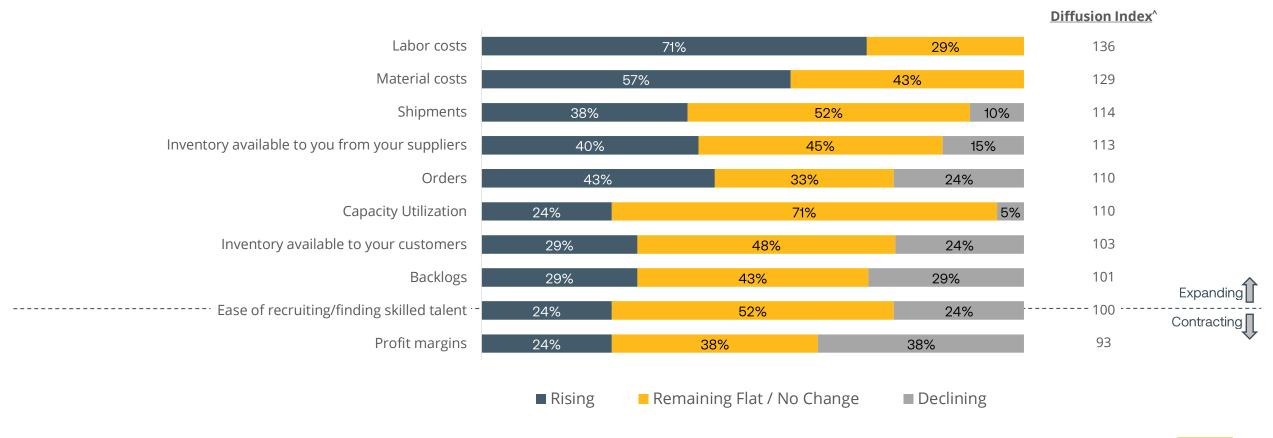
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The View From Companies Primarily Operating Globally



Current Direction of Key Business Indicators

-- Primary Region: Global --



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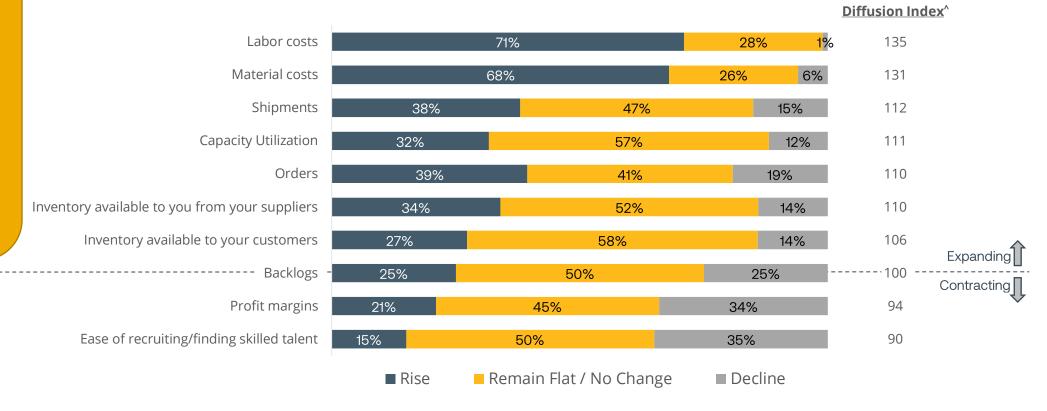
The Outlook for the Next 6 Months: Continued Challenging Conditions



Over the next six months, manufacturers expect to see continued increase in both labor and material costs, although to a somewhat lesser extent.

While inventory available from suppliers is expected to improve, ease of recruiting/finding skilled talent and profit margins are likely to remain challenging.

Anticipated Direction of Key Business Indicators – Next Six Months -- Total --



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Regional Differences in The Outlook



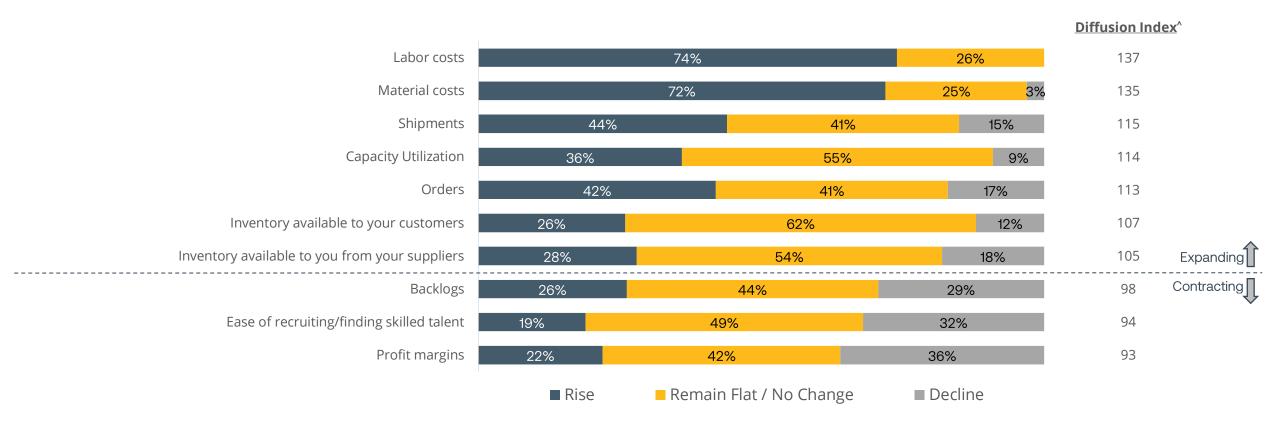
- Ease of recruitment is expected to improve among firms in APAC and North America, as well as for those operating globally, when compared to European firms.
 - While manufacturers operating in APAC (20%), North America (19%), and Globally (19%) expect ease of recruitment to improve over the next six months, no (0%) firms in Europe are expecting the same.
- Material costs are expected to rise more so for firms operating in Europe and North America vs. Global firms.
 - 78% of European manufacturers, along with 72% of manufacturers in North America, anticipate rising material costs, which is significantly higher than the 43% of Global firms who are expect to see an increase.
- Firms in APAC expect customer inventory to improve more so in the next six months than do firms in North America or Europe.
 - Wile 58% of manufacturers in APAC expect improved conditions surrounding customer inventories, only 26% of North American and 17% of European manufacturers are anticipating improvements.

The View From Companies Primarily Operating in North America



Anticipated Direction of Key Business Indicators – Next Six Months

-- Primary Region: North America --

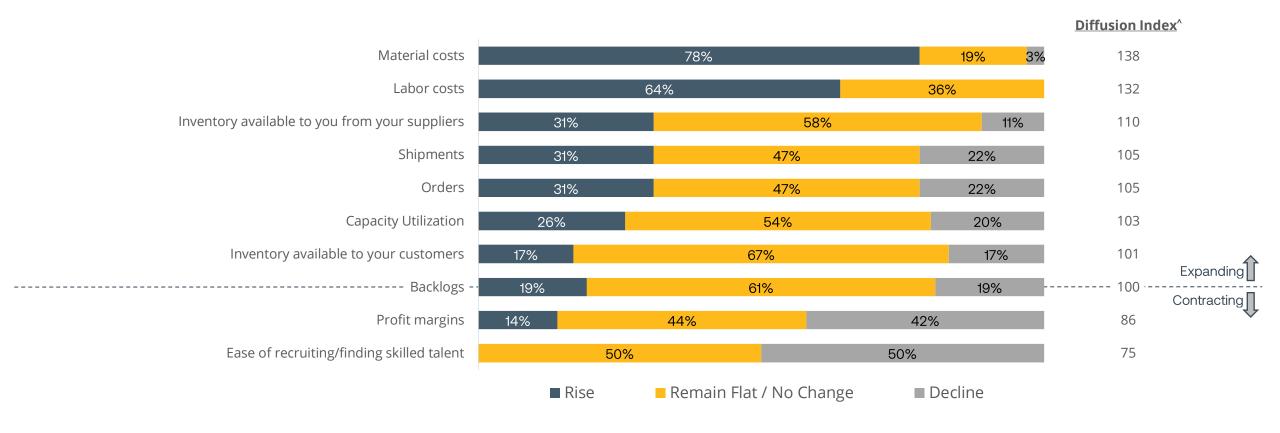


The View From Companies Primarily Operating in Europe



Anticipated Direction of Key Business Indicators – Next Six Months

-- Primary Region: Europe --

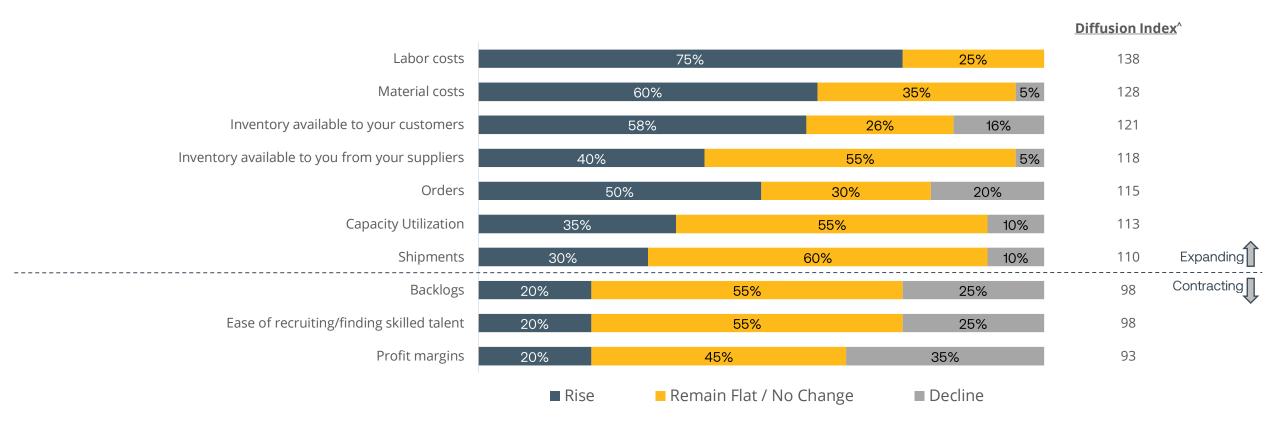


The View From Companies Primarily Operating in APAC



Anticipated Direction of Key Business Indicators – Next Six Months

-- Primary Region: APAC --

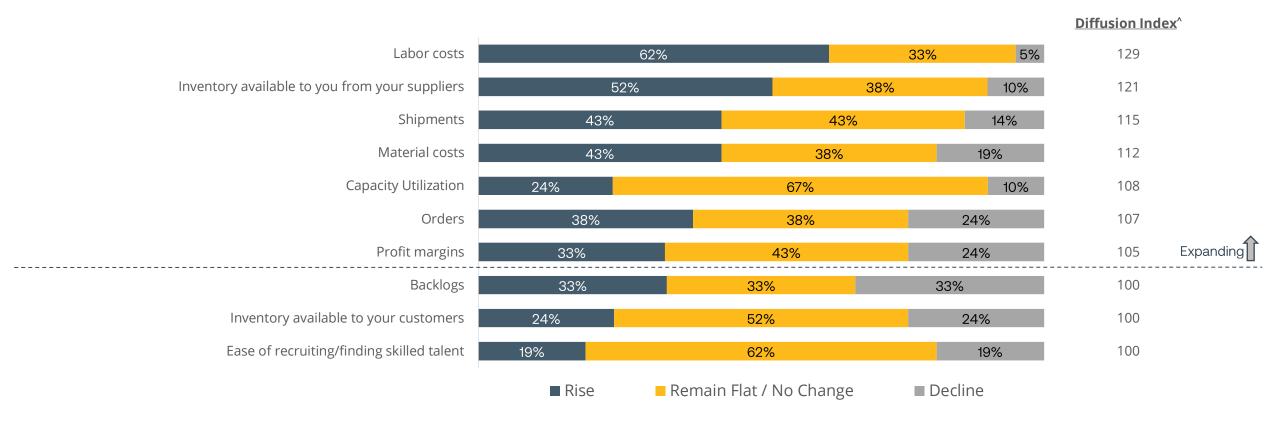


The View From Companies Primarily Operating Globally



Anticipated Direction of Key Business Indicators – Next Six Months

-- Primary Region: Global --

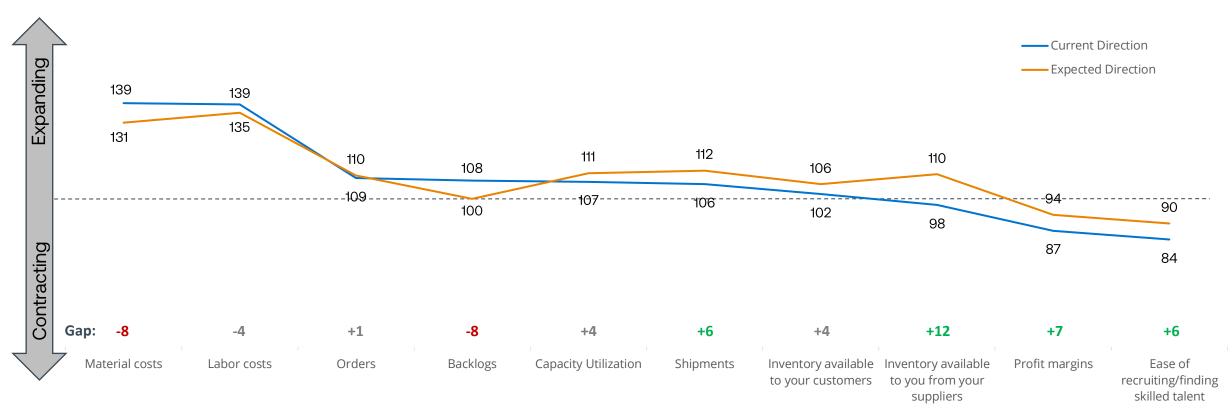


Labor Costs, Orders, Capacity Utilization, and Inventory Available to Customers are Expected to Remain Relatively Stable Over the Next Six Months



Manufacturers anticipate material costs and backlogs will decline, while expecting to see improvement as it relates to inventory available from suppliers, profit margins, shipments, and ease of recruiting talent.





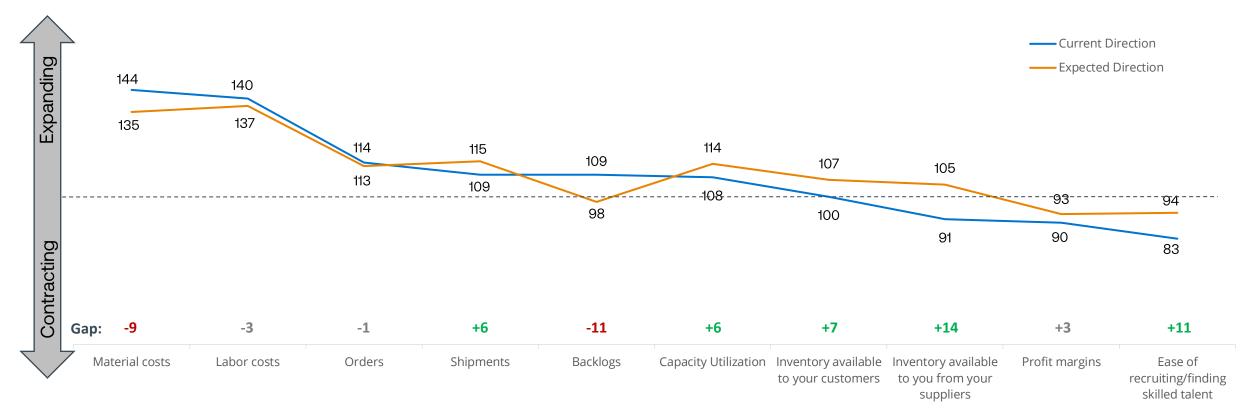
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The View From Companies Primarily Operating in North America



Direction of Key Business Indicators – Diffusion Index[^]

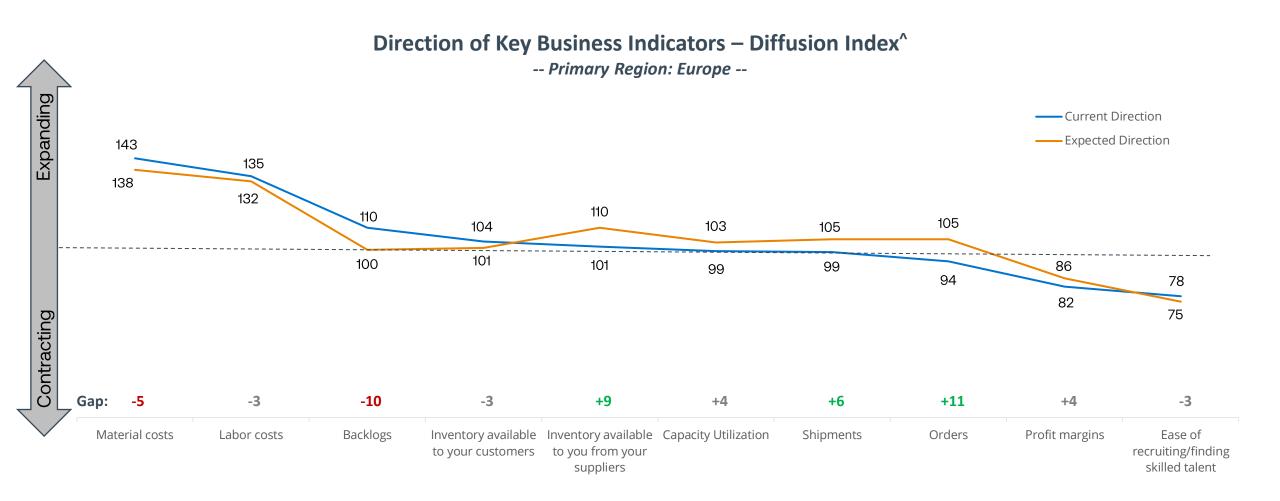
-- Primary Region: North America --



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The View From Companies Primarily Operating in Europe





The View From Companies Primarily Operating in APAC



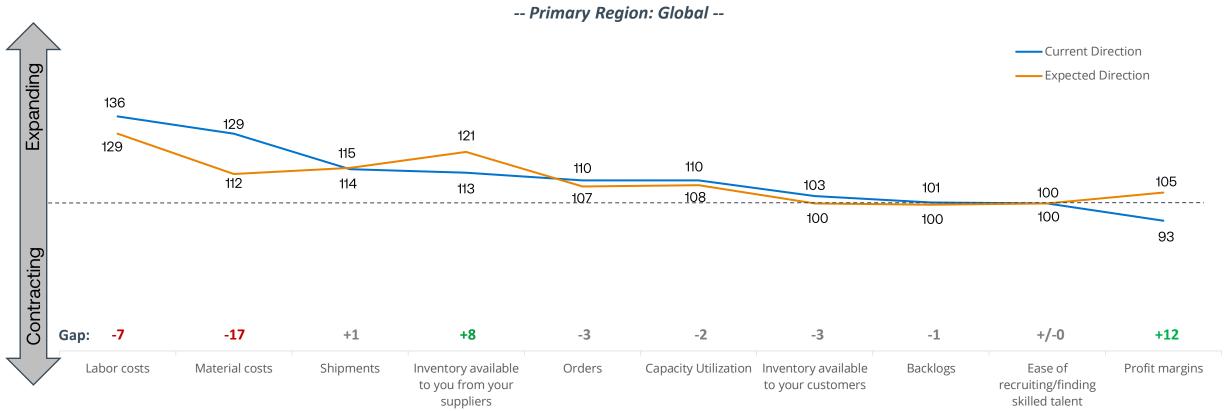




The View From Companies Primarily Operating Globally







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Appendix

Current Conditions Diffusion Indices





	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022	November 2022
Material costs	144	144	145	145	143	142	146	145	146	144	142	139	141	139
Labor costs	133	136	135	137	138	138	134	138	137	139	138	136	136	139
Orders	127	124	123	123	120	124	121	119	118	115	112	109	112	109
Backlogs	125	122	124	124	122	119	114	120	119	114	111	107	110	108
Shipments [^]				117	112	115	115	114	114	111	110	112	111	106
Capacity utilization	114	115	110	114	111	113	114	110	104	107	110	109	110	107
Profit margins	96	91	90	87	82	86	85	89	85	84	86	86	89	87
Inventory available to your customers	89	92	87	91	88	109	94	94	91	96	102	106	101	102
Ease of recruiting/finding skilled talent	77	80	77	78	80	78	79	81	79	80	85	85	84	84
Inventory available to you from your suppliers	73	78	73	77	78	78	83	79	82	86	94	96	99	98

^Added January 2022

△+5 points or more vs. previous month

△-5 points or more vs. previous month

Outlook Diffusion Indices

Month-to-Month Comparisons



	October 2021	November 2021	December 2021	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022	July 2022	August 2022	September 2022	October 2022	November 2022
Material costs	136	139	138	139	142	139	140	138	140	138	136	131	134	131
Labor costs	131	135	133	133	137	136	135	134	135	139	136	134	136	135
Orders	126	128	126	125	121	123	121	122	119	120	117	113	108	110
Backlogs	112	116	116	120	113	110	109	114	112	103	104	99	100	100
Shipments [^]				120	119	121	117	119	115	120	117	116	114	112
Capacity utilization	119	118	116	118	118	116	116	116	112	115	114	117	112	111
Profit margins	103	100	96	92	94	97	94	97	90	92	95	93	95	94
Inventory available to your customers	100	100	99	97	99	103	101	100	102	105	107	111	114	106
Ease of recruiting/finding skilled talent	91	88	86	82	87	86	88	86	90	88	88	92	86	90
Inventory available to you from your suppliers	95	92	88	90	93	94	93	92	92	102	104	107	108	110

^Added January 2022

 Δ +5 points or more vs. previous month Δ -5 points or more vs. previous month

Methodology



- > Each month, IPC surveys executives in the electronics manufacturing sector across the globe with the goal of assessing the current state of the industry.
- > The results contained herein are based upon the findings of IPC's The Current State of Electronics Manufacturing Survey, which was fielded between the dates of October 13 to October 31, 2022.





Questions? Please contact:

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