

MEDIA RELEASE

26 October 2021

Monthly Manufacturing Performance – September 2021

Highlights

- On a year-on-year basis, Singapore's manufacturing output decreased 3.4% in September 2021. Excluding biomedical manufacturing, output grew 9.4%.
- On a seasonally adjusted month-on-month basis, manufacturing output decreased 2.8% in September 2021. Excluding biomedical manufacturing, output fell 5.1%.

(I) Total Manufacturing Performance

1. Singapore's manufacturing output decreased 3.4% in September 2021 on a year-on-year basis. Excluding biomedical manufacturing, output increased 9.4%. On a three-month moving average basis, manufacturing output increased 7.2% in September 2021, compared to a year ago. On a seasonally adjusted month-on-month basis, manufacturing output decreased 2.8%. Excluding biomedical manufacturing, output fell 5.1%.

(II) Performance by cluster

2. Precision engineering: Output increased 30.2% in September 2021 compared to the same period in 2020, with both segments recording output growth. The machinery & systems segment grew 38.4% with higher output of semiconductor and industrial process equipment. The precision modules & components segment rose 13.5% with increased production of optical products, plastic and metal precision components as well as dies, moulds, tools, jigs and fixtures. Overall, the precision engineering cluster grew 21.0% in the first nine months of 2021 compared to the same period last year.
3. Transport engineering: Output expanded 12.9% in September 2021 compared to a year ago. The aerospace and marine & offshore engineering segments rose 21.7% and 9.9% respectively. The levels of activity in the aerospace firms and shipyards had increased compared to last year where the volume of work was adversely affected by international travel restrictions and the weak global oil & gas market respectively amid the COVID-19 pandemic. Cumulatively, the transport engineering cluster grew 5.6% in the period January – September 2021 compared to the same period last year.
4. Chemicals: Output grew 12.4% year-on-year in September 2021 with all segments recording output growth except the specialties segment. The petroleum and petrochemicals segments expanded 26.1% and 18.6% respectively from a year ago, when production was weighed down by plant maintenance shutdowns and weaker export demand amid the COVID-19 outbreak. The other chemicals segment rose 9.9% with higher production of fragrances. Conversely, the specialties segment recorded a decline of 1.5%. Overall, the chemicals cluster grew 9.6% year-on-year in the period January – September 2021.
5. Electronics: Output increased 4.9% year-on-year in September 2021. Except for the computer peripherals & data storage segment, all segments recorded output growth.

On a year-to-date basis, the electronics cluster grew 17.7% compared to the same period in 2020.

6. General manufacturing: Output decreased 2.7% in September 2021 on a year-on-year basis. The miscellaneous industries segment grew 21.0% from a low base last year, when demand for construction-related products was adversely affected by COVID-19. By contrast, the printing and food, beverage & tobacco segments fell 14.5% and 16.0% respectively, with the latter recording lower production of milk products due to plant maintenance shutdowns and weaker export demand. In the first nine months of this year, output of the general manufacturing industries cluster grew 6.8%, compared to the same period in 2020.
7. Biomedical manufacturing: Output contracted 35.9% in September 2021 compared to the same period in 2020. The medical technology segment rose 2.4% with sustained export demand for medical devices. On the other hand, the pharmaceuticals segment declined 46.2% on account of a different mix of active pharmaceutical ingredients being produced compared to a year ago. On a year-to-date basis, the biomedical manufacturing cluster grew 1.4% compared to the same period a year ago.
8. The next monthly manufacturing performance media release will be issued on 26 November 2021.

- END -

Editors' Note: Updates on Monthly Manufacturing Output are available on <https://www.gov.sg/resources/sqpc/> and <https://www.edb.gov.sg>

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About the Singapore Economic Development Board

The Singapore Economic Development Board (EDB), a government agency under the Ministry of Trade and Industry, is responsible for strategies that enhance Singapore's position as a global centre for business, innovation, and talent. We undertake investment promotion and industry development, and work with international businesses, both foreign and local, by providing information, connection to partners and access to government incentives for their investments. Our mission is to create sustainable economic growth, with vibrant business and good job opportunities for Singapore.

For more information on EDB, please visit www.edb.gov.sg

TABLE 1 : MANUFACTURING SECTOR GROWTH

Period		NSA INDEX Total Mfg (2019 = 100)	YOY Growth (%) Total Mfg	SA INDEX Total Mfg	SA MOM GROWTH (%) Total Mfg	SA INDEX Total Mfg excl Biomedical Mfg	SA MOM GROWTH (%) Total Mfg excl Biomedical Mfg
2019	Sep	101.4	-1.4	99.0	2.8	96.8	5.8
	Oct	106.7	3.9	104.2	5.3	109.8	13.5
	Nov	89.4	-12.3	91.3	-12.4	95.8	-12.7
	Dec	97.8	-3.7	95.2	4.2	96.0	0.1
2020	Jan	110.8	3.7	110.6	16.2	105.0	9.4
	Feb	88.1	-0.5	94.7	-14.4	96.7	-7.9
	Mar	117.7	21.5	115.0	21.5	101.2	4.6
	Apr	117.7	12.0	113.0	-1.7	99.0	-2.2
	May	89.0	-7.9	94.3	-16.5	91.7	-7.4
	Jun	98.8	-6.1	99.5	5.5	97.2	6.0
	Jul	103.3	-7.1	98.7	-0.8	103.4	6.4
	Aug	109.9	16.4	113.0	14.5	108.7	5.1
	Sep	127.7	25.9	124.8	10.4	106.9	-1.7
	Oct	106.2	-0.4	104.5	-16.3	107.9	1.0
	Nov	106.7	19.4	109.0	4.3	109.9	1.9
	Dec	114.5	17.1	111.5	2.3	117.5	6.9
2021	Jan	121.3	9.4	116.6	4.5	115.6	-1.6
	Feb	102.8	16.7	118.5	1.7	116.3	0.6
	Mar	128.1	8.9	117.7	-0.7	114.9	-1.2
	Apr	120.7	2.5	117.8	0.1	112.3	-2.3
	May	113.0	26.9	123.0	4.4	119.6	6.5
	Jun	126.6	28.2	120.1	-2.4	121.0	1.2
	Jul	120.1	16.3	116.7	-2.8	112.1	-7.4
	Aug	122.0	11.0	123.2	5.6	121.9	8.7
	Sep*	123.4	-3.4	119.8	-2.8	115.7	-5.1

Note:

- * - Preliminary
- NSA Index - Non seasonally adjusted index
- MOM - Month-on-month
- YOY - Year-on-year

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TABLE 2 : PERFORMANCE BY CLUSTERS

Industry Cluster	Weights	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Jul 21	Aug 21	Sep 21*	Cum Jan – Sep 21	Jul 21	Aug 21	Sep 21*
Electronics	43.5	3.2	15.4	4.9	17.7	17.0	14.7	7.7
Semiconductors	35.9	1.5	16.8	4.8	19.1	17.3	14.9	7.5
Computer Peripherals & Data Storage	3.6	14.9	-1.1	-6.3	10.7	14.3	11.2	1.3
Infocomms & Consumer Electronics	2.8	28.3	31.5	7.0	4.5	6.3	11.6	20.8
Other Electronic Modules & Components	1.3	42.7	24.5	33.1	21.7	31.9	32.3	33.1
Biomedical Manufacturing	13.6	76.7	-1.7	-35.9	1.4	49.6	32.9	-4.3
Pharmaceuticals	6.8	113.7	-5.8	-46.2	-3.0	57.4	36.8	-8.6
Medical Technology	6.8	16.5	8.5	2.4	18.7	34.8	22.3	8.6
Chemicals	12.2	-5.6	0.7	12.4	9.6	13.1	7.8	2.4
Petroleum	0.9	28.5	22.1	26.1	-0.7	18.7	27.6	25.5
Petrochemicals	4.9	6.1	-0.7	18.6	14.3	15.6	8.7	7.5
Specialties	4.1	-25.2	0.3	-1.5	9.8	15.6	6.5	-7.7
Others	2.4	-3.6	-1.3	9.9	5.1	14.8	11.3	1.5

* Preliminary

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TABLE 2 : PERFORMANCE BY CLUSTERS (Continued)

Industry Cluster	Weights	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Jul 21	Aug 21	Sep 21*	Cum Jan – Sep 21	Jul 21	Aug 21	Sep 21*
Precision Engineering	13.2	20.4	22.1	30.2	21.0	24.2	21.3	24.2
Machinery & Systems	8.7	26.6	31.6	38.4	26.8	29.0	28.3	32.1
Precision Modules & Components	4.5	9.9	1.8	13.5	10.1	17.6	8.3	8.3
Transport Engineering	9.0	32.0	23.8	12.9	5.6	34.0	27.3	22.3
Marine & Offshore Engineering	3.0	52.2	37.8	9.9	8.3	54.9	42.3	30.8
Aerospace	5.1	22.7	21.8	21.7	-0.8	20.3	20.4	22.1
Land	0.9	25.1	9.7	-2.7	29.7	49.4	24.2	8.3
General Manufacturing Industries	8.5	11.5	6.4	-2.7	6.8	18.0	11.6	4.8
Printing	0.9	-14.9	-16.2	-14.5	-11.1	-5.5	-12.8	-15.2
Food, Beverages & Tobacco	4.7	-8.7	-5.4	-16.0	-6.2	-5.9	-5.8	-10.0
Miscellaneous Industries	2.9	59.9	32.6	21.0	33.9	73.4	50.9	36.0
Total Manufacturing	100.0	16.3	11.0	-3.4	11.9	23.6	18.2	7.2
Manufacturing excluding Biomedical Manufacturing	86.4	6.7	13.5	9.4	14.8	18.5	14.8	9.9

* Preliminary

TABLE 3 : MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, SEPTEMBER 2019 TO SEPTEMBER 2021

Period	Electronics					Biomedical Manufacturing			Chemicals					
	Total	Semi-conductors	Computer Peripherals & Data Storage	Infocomms & Consumer Electronics	Other Electronic Modules & Components	Total	Pharmaceuticals	Medical Technology	Total	Petroleum	Petrochemicals	Specialties	Others	
2019=100														
2019	Sep	94.5	91.7	100.9	134.0	99.9	109.1	112.8	99.0	96.2	94.4	99.9	92.7	90.3
	Oct	121.2	127.0	86.8	84.7	86.4	81.8	69.6	115.6	92.8	107.9	85.6	94.2	105.1
	Nov	88.0	87.4	90.9	90.0	95.8	72.2	62.9	97.7	88.7	104.8	78.0	100.6	97.4
	Dec	92.6	88.8	97.2	139.4	124.2	90.6	84.1	108.5	97.0	109.8	95.4	97.9	94.1
2020	Jan	111.2	114.6	89.6	90.2	91.9	135.1	149.4	95.9	104.0	109.0	107.1	104.2	91.5
	Feb	83.2	82.9	90.4	67.6	98.6	85.6	83.6	91.1	101.5	99.8	102.2	103.9	97.0
	Mar	93.8	92.3	93.5	110.0	114.2	181.3	206.3	112.4	104.7	102.7	104.3	112.8	96.0
	Apr	117.7	123.4	81.9	85.6	83.3	176.9	206.3	95.8	96.6	92.2	91.8	103.6	104.6
	May	93.2	93.8	96.7	80.2	86.6	102.1	111.6	75.9	93.9	91.0	99.5	95.3	76.2
	Jun	100.3	99.8	84.7	133.0	105.8	110.2	114.9	97.2	89.1	71.4	101.7	74.2	79.3
	Jul	126.4	133.2	89.8	78.5	86.8	77.5	70.8	95.8	99.0	70.8	106.8	90.5	101.0
	Aug	120.2	124.0	111.6	73.9	98.0	131.9	141.7	104.9	103.4	74.0	107.5	107.3	100.6
	Sep	126.7	128.9	123.7	100.5	108.2	209.0	240.8	121.4	96.6	70.1	92.7	115.6	96.6
	Oct	120.9	125.0	102.2	83.1	100.2	91.1	80.0	121.9	92.0	72.9	88.5	105.1	95.3
	Nov	119.9	124.5	95.6	82.2	98.4	107.2	97.2	134.8	97.4	71.6	97.6	108.4	95.7
	Dec	135.5	138.4	106.6	131.3	124.8	84.7	65.6	137.3	109.0	76.9	112.7	113.8	107.4
2021	Jan	134.9	144.2	101.4	75.7	100.8	125.7	127.9	111.6	113.0	76.7	117.6	116.9	113.0
	Feb	108.4	113.2	89.7	71.3	96.1	104.4	97.7	99.8	104.1	74.5	108.6	112.7	93.8
	Mar	129.1	131.2	119.2	104.7	122.0	162.7	173.9	137.6	114.9	85.3	127.0	125.6	86.6
	Apr	126.5	131.2	107.6	90.2	110.0	136.3	155.1	107.5	110.5	83.5	118.3	119.3	92.9
	May	115.1	118.0	102.0	88.9	105.7	138.3	153.7	112.0	108.9	91.4	119.3	118.5	81.0
	Jun	128.6	130.1	104.7	120.5	138.8	158.2	163.0	138.8	116.6	94.4	123.4	114.5	116.2
	Jul	130.5	135.1	103.2	100.7	123.8	136.9	151.3	111.7	93.5	91.0	113.3	67.7	97.4
	Aug	138.6	144.8	110.4	97.2	122.0	129.7	133.6	113.8	104.1	90.4	106.8	107.6	99.2
	Sep*	132.9	135.1	115.9	107.6	144.1	133.9	129.5	124.4	108.6	88.4	109.9	113.8	106.2

* Preliminary

TABLE 3 : MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, SEPTEMBER 2019 TO SEPTEMBER 2021 (Continued)

Period	Precision Engineering			Transport Engineering				General Manufacturing Industries				Total Manu- facturing	Manufacturing excluding Biomedical Manufacturing	
	Total	Machinery & Systems	Precision Modules & Components	Total	Marine & Offshore Engineering	Aerospace	Land	Total	Printing	Food, Beverages & Tobacco	Miscella- neous Industries			
2019=100														
2019	Sep	109.2	111.3	104.2	114.7	106.1	124.5	97.1	99.6	100.5	97.9	101.5	101.4	99.7
	Oct	112.9	111.6	115.9	103.4	93.4	109.0	111.3	106.3	105.4	104.4	108.9	106.7	112.1
	Nov	100.7	98.1	106.9	100.6	101.8	100.4	97.4	104.6	111.4	100.6	107.9	89.4	93.1
	Dec	119.5	125.5	105.1	109.5	121.8	96.9	128.1	91.4	103.1	78.7	104.9	97.8	99.4
2020	Jan	107.4	110.9	99.1	86.8	78.7	94.5	77.7	96.4	89.4	94.8	100.5	110.8	105.5
	Feb	85.5	81.2	96.0	94.9	88.5	100.5	90.4	93.4	94.3	93.1	93.5	88.1	88.6
	Mar	130.0	144.0	96.6	108.1	101.9	109.7	122.2	101.7	90.2	104.1	101.8	117.7	103.8
	Apr	113.3	123.0	89.9	68.0	71.9	66.8	59.8	78.0	75.3	87.1	66.9	117.7	104.8
	May	86.0	90.5	75.2	53.6	43.6	59.8	57.8	73.0	62.4	87.6	56.6	89.0	86.2
	Jun	118.4	130.3	89.8	64.3	52.0	68.4	87.9	82.3	69.6	94.7	69.5	98.8	96.3
	Jul	111.8	119.7	93.1	60.9	44.2	69.6	76.8	82.5	81.2	93.7	68.1	103.3	108.9
	Aug	99.8	98.4	103.1	62.5	50.4	62.1	106.4	86.6	82.5	91.8	81.0	109.9	105.1
	Sep	108.2	111.5	100.4	73.5	62.4	69.6	131.7	90.3	85.8	90.8	90.8	127.7	110.0
	Oct	125.1	130.1	113.2	70.5	57.9	68.0	126.7	94.9	87.6	94.7	97.3	106.2	109.5
	Nov	107.2	105.9	110.2	72.5	71.6	62.2	126.3	89.6	91.1	82.9	98.1	106.7	106.6
	Dec	133.5	142.2	112.7	75.0	83.8	56.7	133.4	95.2	104.5	84.5	106.8	114.5	121.0
2021	Jan	127.0	135.8	108.0	69.4	65.2	66.0	105.1	97.4	83.6	95.5	105.0	121.3	119.1
	Feb	101.0	103.5	93.3	74.4	74.6	68.3	109.3	86.8	65.9	86.6	93.9	102.8	101.2
	Mar	142.1	162.1	104.5	86.6	82.4	80.6	139.3	101.6	82.3	96.2	115.9	128.1	121.8
	Apr	136.5	155.8	100.2	80.1	66.0	82.3	120.2	91.3	74.1	84.4	107.2	120.7	117.0
	May	114.4	121.5	98.7	78.1	77.4	72.5	112.4	92.1	67.2	82.6	114.3	113.0	108.1
	Jun	143.8	166.0	102.4	81.1	71.9	79.9	123.9	96.4	65.2	91.5	113.6	126.6	120.7
	Jul	134.6	151.5	102.3	80.4	67.3	85.3	96.0	91.9	69.0	85.5	108.9	120.1	116.2
	Aug	121.8	129.5	105.0	77.3	69.5	75.7	116.7	92.1	69.1	86.8	107.4	122.0	119.3
	Sep*	140.9	154.3	114.0	83.0	68.6	84.7	128.2	87.8	73.4	76.2	109.9	123.4	120.4

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