

MEDIA RELEASE

26 May 2017

Monthly Manufacturing Performance – April 2017

Highlights

- On a year-on-year basis, Singapore's manufacturing output increased 6.7% in April 2017. Excluding biomedical manufacturing, output grew 15.5%.
- On a seasonally adjusted month-on-month basis, manufacturing output increased 0.1% in April 2017. Excluding biomedical manufacturing, output grew 5.4%.

(I) Total Manufacturing Performance

1. On a year-on-year basis, manufacturing output increased 6.7% in April 2017. Excluding biomedical manufacturing, output grew 15.5%. On a three-month moving average basis, manufacturing output rose 9.3% in April 2017 compared to a year ago. On a seasonally adjusted month-on-month basis, manufacturing output increased 0.1% in April 2017. Excluding biomedical manufacturing, output grew 5.4%.

(II) Performance by cluster

2. The electronics cluster's output increased 48.0% in April 2017 compared to the same month last year. All segments recorded higher output except the data storage segment. In particular, the semiconductors segment posted a robust growth of 69.1%. Cumulatively, output of the electronics cluster expanded 37.3% from January to April this year, compared to the same period last year.
3. Output of the precision engineering cluster grew 15.7% year-on-year in April 2017. The machinery & systems segment grew 23.1%, on the back of higher export demand for semiconductor related equipment. Output of the precision modules & components segment increased 2.9% with higher production of dies, moulds, tools, jigs & fixture, optical instruments and metal precision parts. On a year-to-date basis, output of the precision engineering cluster rose 19.3%.
4. The chemicals cluster's output fell 1.8% on a year-on-year basis in April 2017. The petroleum and specialties segments registered gains of 10.7% and 4.1% respectively. On the other hand, the petrochemicals segment fell 6.7% due to some maintenance shut down. The other chemicals segment contracted 5.5% with lower output of fragrances. In the first four months of this year, output of the chemicals cluster increased 1.7% compared to the same period in 2016.
5. Output of the general manufacturing industries cluster fell 11.0% in April 2017 on a year-on-year basis. While the food, beverages & tobacco segment inched up 0.1%, the printing and miscellaneous industries segments fell 16.3% and 21.0% respectively. The miscellaneous industries segment recorded lower production of fibreglass products, metal doors, windows, grilles & gratings and other construction related materials. On a year-to-date basis, output of the general manufacturing industries cluster fell 7.6%.

6. The transport engineering cluster's output contracted 14.5% year-on-year in April 2017. The land transport and aerospace segments registered output growth of 10.1% and 5.0% respectively, while the marine & offshore engineering segment recorded a decline of 30.5%. The marine & offshore engineering segment remained weak with a low level of rig-building activity and lackluster demand for oilfield & gasfield equipment. Additionally, the segment also recorded lower output in shipbuilding and repair jobs. The transport engineering cluster decreased 12.0% in the first four months of 2017 compared to the same period last year.
7. The biomedical manufacturing cluster's output shrank 23.3% in April 2017, compared to April 2016. The medical technology segment expanded 11.1% with higher export demand for medical devices, but this was offset by lower production of active pharmaceutical ingredients. Cumulatively, the biomedical manufacturing cluster decreased 11.7% in the first four months of this year compared to the same period a year ago.
8. The next monthly manufacturing performance media release will be issued on 23 June 2017.

Editors' Note: Updates on Monthly Manufacturing Output are available on <http://www.news.gov.sg> and <http://www.sedb.com>

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GROWTH OF MANUFACTURING SECTOR

CHART 1

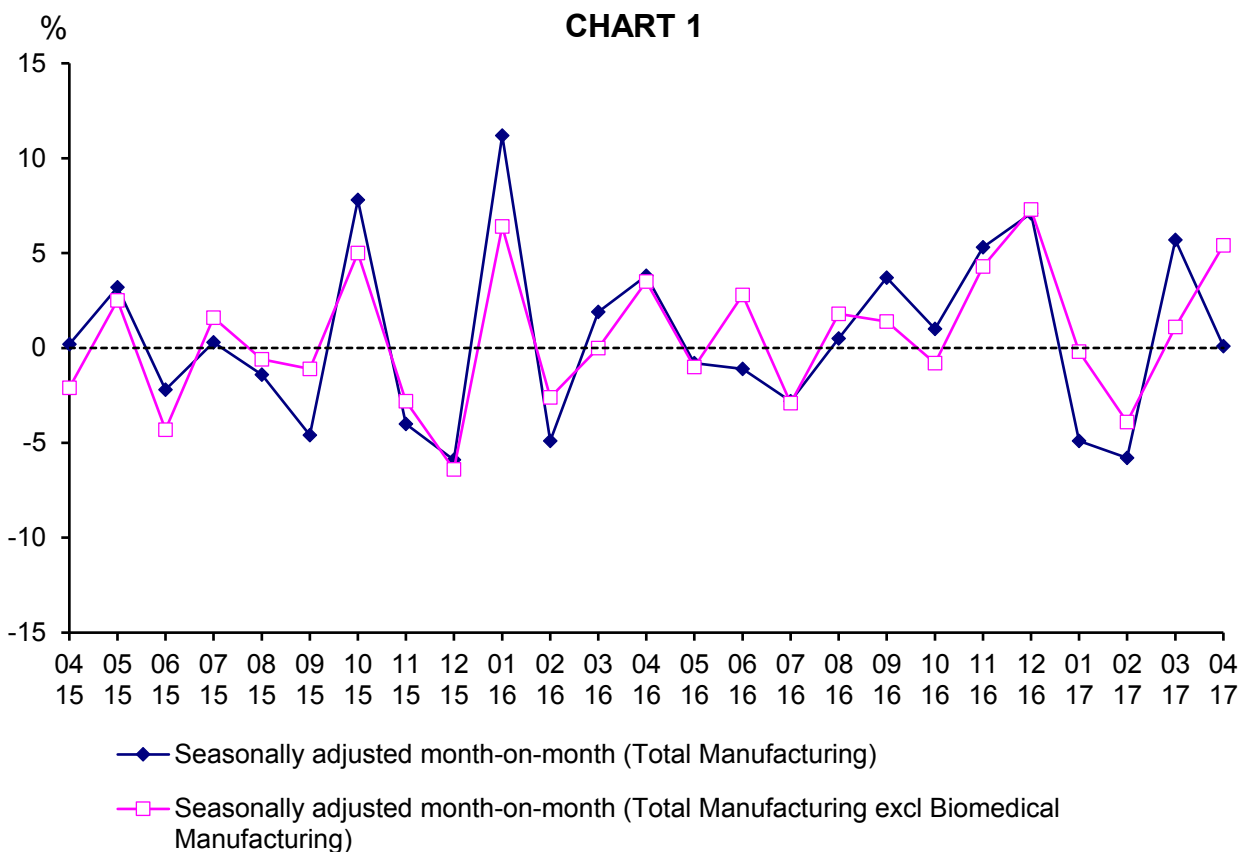


CHART 2

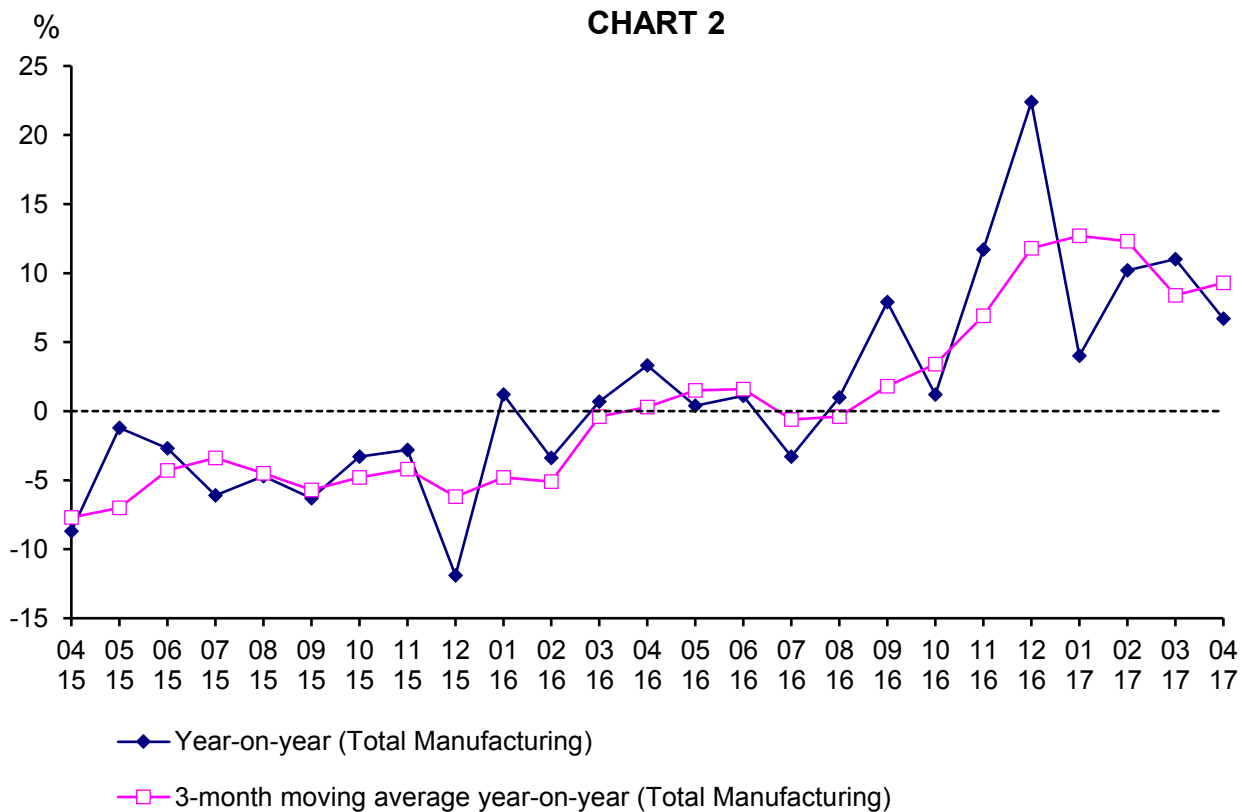


TABLE 1 : MANUFACTURING SECTOR GROWTH

Period		NSA INDEX Total Mfg (2015 = 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	
2015	Apr	99.7	-8.7	100.2	0.2	99.8	-2.1	
	May	100.4	-1.2	103.4	3.2	102.2	2.5	
	Jun	105.2	-2.7	101.1	-2.2	97.8	-4.3	
	Jul	100.8	-6.1	101.4	0.3	99.4	1.6	
	Aug	97.8	-4.7	100.0	-1.4	98.8	-0.6	
	Sep	100.0	-6.3	95.4	-4.6	97.7	-1.1	
	Oct	101.0	-3.3	102.8	7.8	102.5	5.0	
	Nov	97.2	-2.8	98.8	-4.0	99.6	-2.8	
	Dec	100.9	-11.9	92.9	-5.9	93.2	-6.4	
	2016	Jan	100.3	1.2	103.3	11.2	99.2	6.4
		Feb	88.7	-3.4	98.2	-4.9	96.6	-2.6
		Mar	106.9	0.7	100.1	1.9	96.7	0.0
Apr		103.0	3.3	103.9	3.8	100.0	3.5	
May		100.8	0.4	103.1	-0.8	99.0	-1.0	
Jun		106.4	1.1	102.0	-1.1	101.8	2.8	
Jul		97.5	-3.3	99.1	-2.8	98.9	-2.9	
Aug		98.8	1.0	99.5	0.5	100.7	1.8	
Sep		107.9	7.9	103.2	3.7	102.0	1.4	
Oct		102.2	1.2	104.2	1.0	101.3	-0.8	
Nov		108.6	11.7	109.7	5.3	105.6	4.3	
Dec		123.5	22.4	117.5	7.1	113.3	7.3	
2017	Jan	104.3	4.0	111.7	-4.9	113.0	-0.2	
	Feb	97.8	10.2	105.2	-5.8	108.7	-3.9	
	Mar	118.6	11.0	111.2	5.7	109.9	1.1	
	Apr*	109.8	6.7	111.3	0.1	115.8	5.4	

Note:

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

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		
		Feb 17	Mar 17	Apr 17*	Cum Jan – Apr 17	Feb 17	Mar 17	Apr 17*
Electronics	27.4	40.6	38.6	48.0	37.3	37.3	33.6	42.4
Semiconductors	17.0	64.1	55.9	69.1	55.5	61.9	50.7	63.0
Computer Peripherals	3.0	-0.2	1.4	5.6	2.4	-0.3	1.5	2.1
Data Storage	2.8	-25.1	10.5	-26.2	-13.9	-17.0	-9.8	-14.8
Infocomms & Consumer Electronics	3.2	8.7	-0.5	4.4	-2.2	-7.8	-4.2	3.5
Other Electronic Modules & Components	1.5	18.3	15.1	17.7	11.0	6.6	8.8	17.0
Biomedical Manufacturing	19.6	-12.6	2.0	-23.3	-11.7	4.4	-7.6	-11.3
Pharmaceuticals	15.0	-21.6	-2.5	-32.4	-18.5	1.6	-13.5	-19.0
Medical Technology	4.6	18.8	16.7	11.1	13.0	14.3	13.6	15.5
Chemicals	9.3	1.9	3.6	-1.8	1.7	3.0	3.0	1.2
Petroleum	0.1	4.0	6.4	10.7	11.0	14.7	11.1	7.0
Petrochemicals	3.2	5.5	6.8	-6.7	5.7	13.9	10.0	1.8
Specialties	3.8	3.9	5.7	4.1	3.2	2.0	2.9	4.6
Others	2.3	-5.1	-3.9	-5.5	-5.5	-8.5	-5.5	-4.9

* Preliminary

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		
		Feb 17	Mar 17	Apr 17*	Cum Jan – Apr 17	Feb 17	Mar 17	Apr 17*
Precision Engineering	13.8	25.7	16.0	15.7	19.3	17.0	20.6	18.5
Machinery & Systems	8.3	32.0	16.2	23.1	25.5	23.8	26.4	22.5
Precision Modules & Components	5.5	16.8	15.7	2.9	9.3	6.4	11.5	11.6
Transport Engineering	17.6	-10.9	-15.5	-14.5	-12.0	-8.2	-11.2	-13.7
Marine & Offshore Engineering	11.3	-22.4	-30.5	-30.5	-26.6	-22.0	-25.4	-27.8
Aerospace	4.8	3.4	3.3	5.0	8.8	14.8	10.2	3.9
Land	1.4	19.9	9.3	10.1	7.7	8.4	7.0	12.8
General Manufacturing Industries	12.3	2.5	-4.5	-11.0	-7.6	-4.0	-6.4	-4.8
Printing	1.9	-27.4	-12.1	-16.3	-19.9	-21.5	-21.1	-18.7
Food, Beverages & Tobacco	5.4	24.9	4.9	0.1	2.6	9.0	3.5	8.4
Miscellaneous Industries	5.0	-7.2	-12.8	-21.0	-14.6	-10.8	-12.2	-14.1
Total Manufacturing	100.0	10.2	11.0	6.7	7.9	12.3	8.4	9.3
Manufacturing excluding Biomedical Manufacturing	80.4	16.9	13.5	15.5	13.7	14.4	13.0	15.2

* Preliminary

TABLE 3 : MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, APR 2015 TO APR 2017

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	
2015=100															
2015	Apr	96.3	98.0	94.0	96.8	89.5	95.1	102.7	102.7	102.7	104.6	106.2	104.7	105.9	102.3
	May	99.7	101.1	104.7	105.1	84.9	94.7	106.4	109.9	94.6	100.0	102.6	100.6	107.3	87.1
	Jun	101.5	95.8	114.2	80.1	138.1	102.7	115.7	120.3	100.1	104.7	92.1	100.6	106.2	108.4
	Jul	96.6	98.9	80.5	100.1	93.4	102.8	108.9	110.8	102.5	104.6	112.8	107.6	101.6	105.3
	Aug	100.2	103.6	103.8	100.1	77.0	104.1	103.3	105.2	96.9	101.1	96.9	108.7	94.4	101.5
	Sep	110.8	111.0	114.2	113.4	101.9	115.1	86.3	81.8	101.3	100.1	98.0	102.3	95.6	104.6
	Oct	95.4	98.5	80.9	100.7	83.7	102.8	104.5	102.8	110.3	99.3	92.1	99.3	94.5	107.1
	Nov	96.6	93.8	95.0	111.4	96.0	105.9	95.6	93.0	104.6	97.4	84.2	92.4	93.5	111.3
	Dec	102.0	90.6	110.5	108.5	147.0	107.6	92.8	90.0	102.1	93.5	98.4	83.4	96.8	102.2
2016	Jan	110.3	126.2	76.9	95.0	73.1	101.6	119.2	124.2	102.9	92.9	97.4	84.2	102.9	88.7
	Feb	90.3	94.2	93.6	94.4	64.7	86.4	103.0	104.2	99.0	93.6	96.8	84.6	93.8	105.9
	Mar	109.6	116.9	114.0	79.0	99.4	96.1	118.3	117.6	120.7	100.5	102.3	87.6	108.7	105.0
	Apr	105.0	118.8	82.1	90.0	70.2	94.0	120.4	123.8	108.9	100.3	94.1	87.7	102.8	114.2
	May	105.1	117.0	102.5	86.1	63.4	98.7	118.6	123.4	102.7	99.5	107.1	90.0	103.0	106.9
	Jun	121.9	134.1	113.1	89.8	103.6	98.7	103.8	101.8	110.6	100.3	105.1	86.1	108.0	107.4
	Jul	113.3	133.8	81.7	87.4	61.1	100.2	98.5	95.2	109.3	101.4	110.9	82.6	105.3	121.3
	Aug	112.5	125.6	109.2	92.0	64.8	108.0	94.2	90.4	106.8	103.4	108.9	90.3	105.3	118.6
	Sep	130.6	151.0	99.2	96.0	90.3	110.0	107.0	103.8	117.7	100.3	104.7	102.2	96.6	103.5
	Oct	118.7	140.0	81.1	96.9	65.1	102.8	116.4	115.4	119.8	98.2	105.9	84.4	95.1	122.6
	Nov	120.0	141.5	99.8	81.8	62.7	107.3	128.7	126.6	135.9	101.1	102.7	96.3	97.1	114.3
	Dec	152.9	177.2	106.9	92.5	134.3	116.6	134.9	138.8	121.9	97.1	114.8	98.9	99.9	89.4
2017	Jan	135.6	171.6	79.8	84.2	58.1	96.1	104.1	102.8	108.1	96.1	120.0	99.1	101.9	81.6
	Feb	127.0	154.7	93.4	70.7	70.4	102.2	90.0	81.7	117.7	95.4	100.7	89.3	97.5	100.5
	Mar	151.9	182.2	115.7	87.3	98.9	110.6	120.7	114.6	140.8	104.1	108.9	93.6	114.9	100.9
	Apr *	155.4	200.9	86.7	66.4	73.3	110.6	92.4	83.7	121.0	98.5	104.2	81.8	107.0	107.8

* Preliminary

TABLE 3 : MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, APR 2015 TO APR 2017 (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		
2015=100													
2015 Apr	103.8	102.7	105.5	93.8	91.1	97.7	102.0	102.6	105.4	108.2	95.5	99.7	99.0
May	96.1	94.2	98.9	99.6	105.4	91.2	81.8	98.5	99.0	98.7	98.2	100.4	98.9
Jun	106.3	109.6	101.2	99.7	100.3	93.3	116.6	104.2	91.8	106.3	106.6	105.2	102.7
Jul	102.9	102.8	103.1	94.0	91.5	104.4	79.2	101.8	105.3	98.7	103.7	100.8	98.9
Aug	91.9	91.0	93.3	87.2	82.6	100.5	78.7	102.9	99.9	105.3	101.5	97.8	96.5
Sep	101.5	102.1	100.6	100.2	98.2	104.2	102.7	95.8	102.7	89.5	99.9	100.0	103.4
Oct	98.8	99.5	97.6	103.4	105.8	101.1	92.4	108.2	104.3	115.0	102.3	101.0	100.1
Nov	94.6	95.3	93.6	99.4	95.0	108.8	102.5	100.7	106.9	101.6	97.3	97.2	97.6
Dec	111.7	119.0	100.4	107.7	102.5	117.8	115.2	94.7	94.9	85.9	104.0	100.9	102.8
2016 Jan	85.0	82.2	89.2	78.0	74.5	84.7	83.1	102.6	88.0	109.6	100.6	100.3	95.7
Feb	75.8	73.2	79.8	82.0	76.5	97.1	74.6	82.9	91.7	77.2	85.6	88.7	85.3
Mar	109.7	118.1	96.9	91.6	81.0	115.7	93.5	106.4	91.2	112.7	105.4	106.9	104.1
Apr	101.2	106.5	93.2	83.1	72.4	109.7	78.7	103.3	88.0	105.3	106.8	103.0	98.7
May	94.3	95.5	92.4	82.4	68.9	112.2	89.3	97.2	84.4	103.9	94.9	100.8	96.4
Jun	113.8	123.6	98.7	86.4	74.0	113.2	93.7	100.8	77.6	113.4	96.2	106.4	107.0
Jul	97.6	101.2	92.0	73.7	61.0	101.9	78.5	91.8	81.7	96.0	91.1	97.5	97.3
Aug	102.4	106.3	96.5	74.2	59.4	105.9	84.8	103.1	80.4	114.2	99.7	98.8	99.9
Sep	107.3	112.2	99.9	82.4	68.4	107.0	110.5	101.4	79.7	117.3	92.5	107.9	108.1
Oct	101.8	107.0	93.8	75.8	56.8	110.5	108.7	84.2	85.3	78.9	89.5	102.2	98.7
Nov	102.3	105.1	98.0	83.5	70.6	104.4	114.6	99.7	90.6	109.8	92.2	108.6	103.7
Dec	119.9	131.3	102.4	100.0	81.1	135.6	129.4	97.5	82.0	105.6	94.8	123.5	120.7
2017 Jan	103.7	112.0	91.0	72.8	57.4	107.9	77.1	86.6	67.1	95.4	84.6	104.3	104.3
Feb	95.3	96.7	93.3	73.1	59.4	100.4	89.5	84.9	66.5	96.5	79.4	97.8	99.7
Mar	127.3	137.2	112.2	77.4	56.3	119.5	102.2	101.6	80.2	118.3	91.9	118.6	118.1
Apr *	117.1	131.1	95.9	71.1	50.3	115.2	86.6	91.9	73.6	105.4	84.4	109.8	114.1

* Preliminary