

MEDIA RELEASE

21 January 2009

Monthly Manufacturing Performance - December 2008

(I) Total Manufacturing Performance

1. Manufacturing output in December 2008 decreased 13.5% compared with the same month in 2007. The three-month moving average index for December fell 10.7% over the same period in the previous year. On a seasonally adjusted month-on-month basis, output dipped 11.0% in December. Annual manufacturing output for the entire year of 2008 declined 4.1% compared with 2007.

(II) Performance by cluster

2. The biomedical manufacturing cluster expanded 24.5% in December 2008. This was largely due to the 26.8% growth registered in the pharmaceuticals segment, which saw production of a different mix of active pharmaceutical ingredients with higher values. The medical technology segment also grew 0.9%. For 2008, annual output of the biomedical manufacturing cluster was 6.6% lower than in 2007.

3. The transport engineering cluster grew 2.2% in December 2008 over the same month in 2007. Higher output came from the aerospace segment, which expanded 23.0% due to increased deliveries to US, Europe & the Asia-Pacific region. The marine & offshore engineering segment shrank 9.2% due to a higher percentage of work completed in December 2007. Annual output of the cluster rose 6.6% in 2008 compared with 2007.
4. The general manufacturing industries shrank 2.6% in December 2008. The food, beverages and tobacco industries grew 14.9%, as production geared up for the festive season. The printing segment shrank 10.2% due to lower orders from both local and overseas markets. For 2008, annual output of the general manufacturing industries rose 1.6%, compared with the same period in 2007.
5. Output of the precision engineering cluster dropped 21.1% in December 2008. Output of the machinery & systems segment decreased 19.7%, while the precision modules & components segment shrank by 22.6% in December 2008. Annual output of the cluster in 2008 was 7.4% lower than 2007.
6. Output of the chemicals cluster shrank 23.3% year-on-year in December 2008. In the petrochemicals and specialties segments, there were both

maintenance shutdowns and temporary production shutdowns due to weak demand. Production in the petroleum and petrochemicals segments also decreased due to tightening of inventory control by some manufacturers. Annual output of the chemicals cluster in 2008 dipped 3.6% compared to 2007.

7. The electronics cluster contracted 35.1% year-on-year in December 2008. All segments of the cluster had decreased production in December due to the global slowdown in electronics demand. Annual output of the electronics cluster in 2008 fell 6.7% from 2007.
8. The next monthly manufacturing performance media release will be issued on 26th February 2009.

**COMMUNICATIONS
GLOBAL OPERATIONS DIVISION**

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

For media enquiries, please contact Mr Alex Tan (Tel: 6832 6284 / Handphone: 9841 0392 / Email: alex_tan@edb.gov.sg)

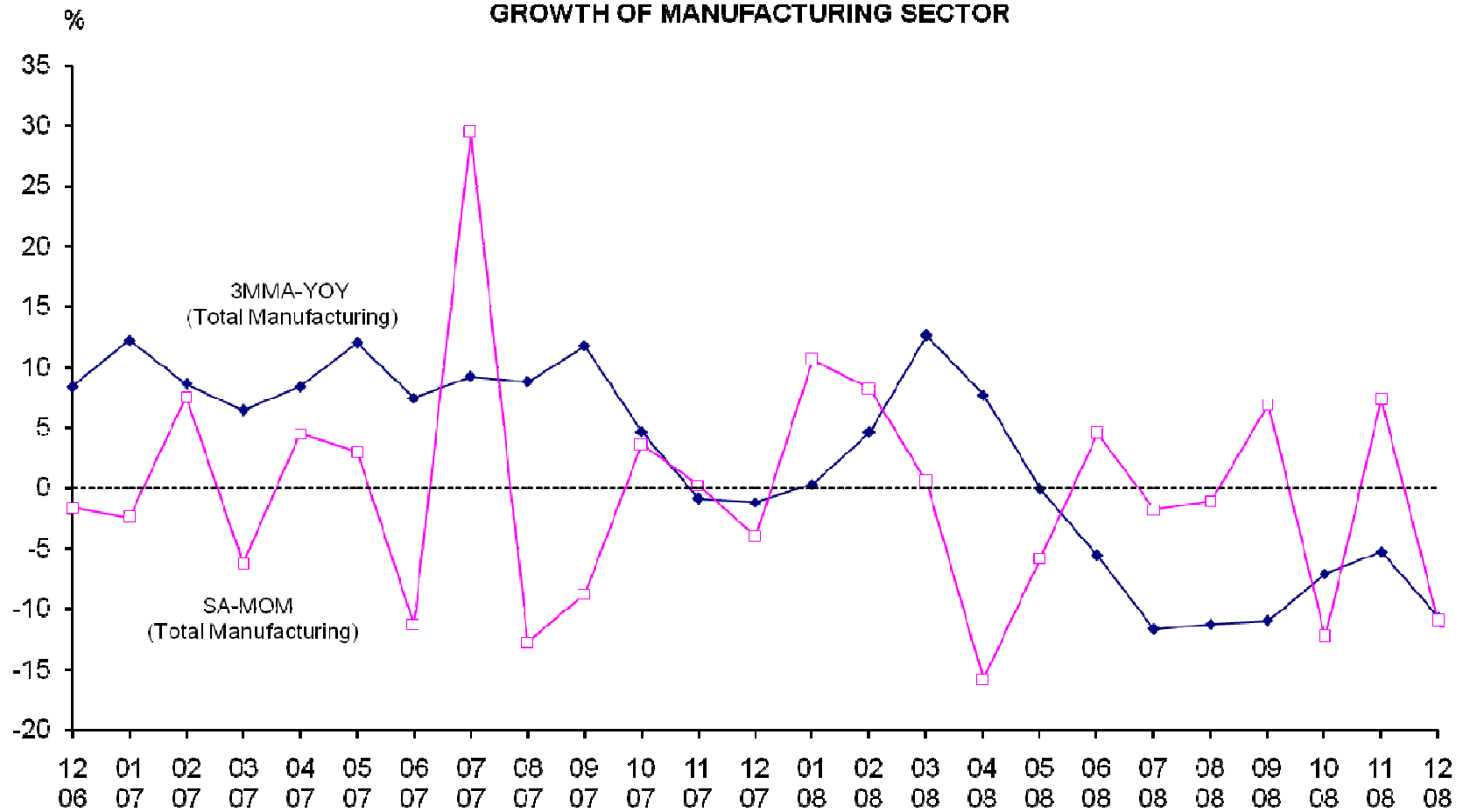
For further information, please contact Ms Millie Lam (Tel: 6832 6031 / Handphone: 9740 7372 / Email: milliel@edb.gov.sg).

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GROWTH OF MANUFACTURING SECTOR



Note :
3MMA YOY - 3-month moving average year-on-year
SA MOM - Seasonally adjusted month-on-month

TABLE 1: PERFORMANCE BY CLUSTERS

Industry Cluster	2007 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 08	Nov 08	Dec 08*	Cum Jan - Dec 08	Oct 08	Nov 08	Dec 08*
Electronics	29.7	-13.3	-19.9	-35.1	-6.7	-11.4	-15.9	-23.0
Semiconductors	17.6	-8.9	-17.7	-32.7	-2.7	-2.9	-10.5	-19.6
Computer Peripherals	3.9	-1.9	-4.5	-14.5	3.6	2.8	1.1	-7.4
Data Storage	2.8	-9.5	-8.5	-44.0	-0.2	-4.2	-9.0	-22.0
Infocomms & Consumer Electronics	3.6	-55.0	-61.4	-62.8	-43.6	-61.9	-61.9	-59.8
Other Electronic Modules & Components	1.7	4.0	-7.7	-28.1	3.5	6.0	2.2	-11.1
Biomedical Manufacturing	24.4	-29.7	18.4	24.5	-6.6	-12.9	6.8	2.5
Pharmaceuticals	21.8	-30.9	21.2	26.8	-6.9	-12.8	8.9	3.7
Medical Technology	2.6	-16.6	-14.6	0.9	-3.0	-12.9	-14.1	-10.6
Chemicals	11.8	-7.1	-20.3	-23.3	-3.6	-3.4	-8.3	-16.9
Petroleum	4.1	-3.2	-5.7	-8.5	1.0	-3.0	-3.7	-5.9
Petrochemicals	3.6	-8.9	-32.6	-33.2	-8.2	-6.4	-12.7	-25.2
Specialties	3.0	-9.2	-28.1	-35.9	-1.2	0.0	-10.0	-24.2
Others	1.1	-14.0	-22.1	-22.6	-15.3	-5.2	-10.5	-19.5

TABLE 1: PERFORMANCE BY CLUSTERS (Continued)

Industry Cluster	2007 Value Added Share (%)	% change over corresponding period of previous year				% change of 3-month moving average over corresponding period of previous year		
		Oct 08	Nov 08	Dec 08*	Cum Jan - Dec 08	Oct 08	Nov 08	Dec 08*
Precision Engineering	13.0	-12.1	-18.5	-21.1	-7.4	-8.6	-11.2	-17.3
Machinery & Systems	5.7	-12.5	-16.9	-19.7	-5.1	-8.7	-11.0	-16.7
Precision Modules & Components	7.3	-11.9	-20.0	-22.6	-9.4	-8.4	-11.4	-18.0
Transport Engineering	11.9	10.6	7.5	2.2	6.6	6.8	9.5	6.6
Marine & Offshore Engineering	6.2	14.3	7.7	-9.2	8.8	7.3	13.3	3.4
Aerospace	4.9	11.3	8.3	23.0	4.4	7.8	6.1	14.2
Land	0.8	-14.5	0.0	-22.2	5.3	-2.4	1.1	-13.0
General Manufacturing Industries	9.2	2.7	-2.0	-2.6	1.6	2.2	1.5	-0.6
Printing	2.5	-5.6	-13.7	-10.2	-3.4	-5.2	-8.5	-9.9
Food, Beverages & Tobacco	2.4	7.7	7.4	14.9	7.6	5.2	6.8	9.9
Miscellaneous Industries	4.3	4.5	0.0	-7.3	1.2	4.6	4.4	-0.8
Total Manufacturing	100.0	-12.2	-6.6	-13.5	-4.1	-7.1	-5.3	-10.7

* Preliminary

TABLE 2: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2006 TO DECEMBER 2008

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
2007 = 100															
2006	Dec	107.0	93.3	130.9	104.1	142.6	96.9	116.2	118.3	101.4	99.2	106.7	98.6	90.6	102.0
2007	Jan	95.9	94.1	102.1	92.8	98.6	94.9	78.7	79.2	72.8	101.1	100.5	100.9	100.7	105.3
	Feb	83.9	81.9	91.4	91.0	76.3	84.3	94.8	95.9	82.4	92.0	92.3	93.8	87.6	97.1
	Mar	102.1	96.9	116.2	99.6	105.9	110.7	83.3	81.8	103.3	107.1	105.1	104.3	108.7	121.6
	Apr	96.4	102.8	101.7	90.3	73.8	87.2	96.8	97.3	89.9	102.8	102.3	101.6	99.5	119.9
	May	85.1	86.8	87.5	83.2	72.8	95.4	118.8	120.0	103.8	101.3	93.8	106.3	103.8	112.0
	Jun	97.9	103.5	90.9	86.5	90.8	104.5	82.2	79.2	120.0	99.6	98.6	97.0	101.3	108.6
	Jul	95.5	102.6	85.5	97.1	75.0	95.6	185.1	191.7	101.9	95.4	89.5	99.4	102.9	86.4
	Aug	102.6	98.3	98.3	105.3	122.1	101.7	107.1	107.9	96.3	100.7	105.1	98.3	100.0	90.1
	Sep	118.0	111.1	100.9	121.8	166.2	104.6	72.0	69.1	108.3	96.5	100.5	93.4	98.0	85.3
	Oct	107.5	112.1	95.1	106.8	104.8	102.6	103.3	102.1	117.8	101.5	106.1	98.2	101.1	93.7
	Nov	104.4	102.6	112.0	102.6	103.3	106.4	97.1	96.5	105.8	100.9	102.7	102.6	99.9	89.6
	Dec	111.4	107.1	118.4	123.1	110.2	112.3	80.5	79.2	97.5	100.9	103.7	103.7	96.5	90.6
2008	Jan	101.1	99.5	126.0	110.7	70.2	108.3	101.6	101.8	98.6	104.3	102.8	103.4	111.0	94.7
	Feb	94.9	103.0	93.4	95.8	62.2	96.8	115.1	116.6	96.0	96.7	98.5	94.3	102.0	80.8
	Mar	97.9	90.4	116.1	118.9	82.2	119.7	168.1	173.9	95.5	104.0	104.5	103.3	109.4	88.5
	Apr	92.0	97.3	95.3	103.4	54.2	97.1	74.5	71.8	109.2	102.4	101.8	102.4	107.4	90.4
	May	86.9	88.8	95.4	95.0	55.4	100.0	53.0	49.7	94.4	103.7	107.5	103.0	106.0	81.0
	Jun	99.2	103.7	109.9	92.0	71.5	110.1	86.6	84.5	112.5	100.8	101.2	95.8	110.1	89.7
	Jul	101.5	115.7	95.7	99.6	50.4	104.3	60.5	58.2	88.8	98.6	101.0	89.6	106.5	96.3
	Aug	97.0	105.0	98.1	112.2	47.3	105.1	70.1	68.8	85.9	94.9	101.5	83.6	101.9	84.4
	Sep	100.6	105.1	111.1	111.0	55.5	115.6	103.2	103.8	96.4	99.4	98.3	98.4	105.5	90.1
	Oct	93.2	102.1	93.3	96.6	47.2	106.6	72.6	70.6	98.3	94.3	102.7	89.4	91.7	80.6
	Nov	83.6	84.5	107.0	93.9	39.9	98.2	115.0	117.0	90.3	80.4	96.8	69.2	71.8	69.8
	Dec *	72.3	72.1	101.3	68.9	41.0	80.7	100.3	100.4	98.3	77.4	94.9	69.3	61.9	70.1

TABLE 2: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, DECEMBER 2006 TO DECEMBER 2008 (Continued)

Period	Precision Engineering			Transport Engineering				General Manufacturing Industries				Total Manu- facturing	
	Total	Machinery & Systems	Precision Modules & Components	Total	Marine & Offshore Engineering	Aerospace	Land	Total	Printing	Food, Beverages & Tobacco	Miscellaneous Industries		
2007 = 100													
2006	Dec	103.1	107.2	100.2	97.8	99.6	96.1	72.7	102.8	105.6	98.2	103.6	105.3
2007	Jan	97.1	87.6	105.2	94.3	93.1	95.2	97.4	100.2	96.8	103.2	100.4	93.0
	Feb	82.0	72.0	90.5	84.5	76.3	92.3	95.2	82.7	78.1	88.0	82.5	87.1
	Mar	107.4	107.6	107.3	102.1	94.6	109.5	109.8	102.2	105.0	104.3	99.8	99.0
	Apr	94.5	90.8	97.6	95.3	87.4	102.3	109.2	95.8	94.9	95.9	96.2	96.9
	May	97.9	94.8	100.6	95.0	91.0	99.3	98.0	98.8	103.9	97.1	96.9	98.8
	Jun	102.2	107.7	97.6	104.8	103.4	107.5	98.4	99.3	102.3	96.0	99.3	95.9
	Jul	104.1	106.8	101.9	109.5	113.1	107.1	98.9	104.0	98.3	102.6	107.6	119.5
	Aug	101.6	97.3	105.3	102.6	111.2	93.2	99.3	106.3	102.7	105.8	108.4	103.6
	Sep	107.0	115.3	100.0	99.4	97.3	104.1	84.7	102.5	105.4	101.8	101.4	99.9
	Oct	100.0	96.1	103.4	97.9	97.8	94.9	117.4	103.6	103.3	101.7	104.7	103.5
2008	Nov	100.4	102.5	98.6	103.9	111.8	97.4	87.5	104.7	110.8	102.6	102.4	101.8
	Dec	105.6	121.5	92.2	110.6	122.9	97.3	104.3	100.1	98.3	101.1	100.5	101.1
	Jan	97.3	94.5	99.6	93.7	89.6	99.0	90.0	107.5	101.3	120.0	104.6	101.0
	Feb	80.8	79.6	81.9	90.6	89.3	89.6	106.0	80.6	79.7	88.9	77.0	96.2
	Mar	102.9	111.9	95.3	109.5	106.4	105.1	159.2	99.4	100.6	105.1	96.1	116.9
	Apr	94.7	93.5	95.8	103.8	104.3	102.6	108.1	100.5	99.7	104.7	98.9	91.7
	May	92.5	94.1	91.1	107.5	114.3	102.2	91.2	102.2	100.9	105.5	101.3	85.6
	Jun	99.5	107.4	92.8	113.3	117.7	108.3	113.3	100.9	97.7	105.4	100.4	98.2
	Jul	96.2	93.7	98.3	116.3	123.1	105.6	133.7	108.5	100.4	110.0	111.9	93.3
	Aug	91.1	87.4	94.2	102.4	101.3	105.8	88.9	106.4	98.6	108.6	109.3	91.3
	Sep	103.3	110.2	97.5	109.7	115.7	103.5	104.8	106.5	99.0	107.2	110.1	102.9
	Oct	87.9	84.1	91.1	108.3	111.7	105.7	100.4	106.3	97.5	109.5	109.4	90.9
Nov	81.8	85.2	78.9	111.7	120.4	105.5	87.5	102.5	95.6	110.2	102.5	95.1	
Dec *	83.4	97.5	71.4	113.0	111.6	119.7	81.1	97.5	88.3	116.1	93.2	87.5	

* Preliminary

TABLE 3 : MANUFACTURING SECTOR GROWTH

Period		INDEX (2007 = 100)	SA INDEX	SA MOM GROWTH (%)	YOY INDEX GROWTH (%)	3MMA YOY INDEX GROWTH (%)
2006	Dec	105.3	98.1	-1.6	5.8	8.4
2007	Jan	93.0	95.7	-2.4	15.5	12.2
	Feb	87.1	102.9	7.5	5.3	8.6
	Mar	99.0	96.5	-6.2	0.0	6.4
	Apr	96.9	100.8	4.5	22.0	8.4
	May	98.8	103.8	3.0	16.6	12.0
	Jun	95.9	92.1	-11.3	-10.6	7.4
	Jul	119.5	119.2	29.4	24.9	9.2
	Aug	103.6	104.0	-12.8	14.7	8.8
	Sep	99.9	94.9	-8.7	-3.0	11.8
	Oct	103.5	98.3	3.6	3.4	4.6
	Nov	101.8	98.5	0.2	-2.9	-0.9
	Dec	101.1	94.6	-4.0	-4.0	-1.2
2008	Jan	101.0	104.6	10.6	8.6	0.3
	Feb	96.2	113.2	8.2	10.4	4.6
	Mar	116.9	113.8	0.5	18.1	12.6
	Apr	91.7	95.8	-15.8	-5.4	7.7
	May	85.6	90.2	-5.8	-13.4	-0.1
	Jun	98.2	94.3	4.5	2.4	-5.6
	Jul	93.3	92.6	-1.8	-21.9	-11.7
	Aug	91.3	91.6	-1.1	-11.9	-11.3
	Sep	102.9	97.9	6.9	3.0	-11.0
	Oct	90.9	85.9	-12.3	-12.2	-7.1
	Nov	95.1	92.2	7.3	-6.6	-5.3
	Dec *	87.5	82.1	-11.0	-13.5	-10.7

Note:

- * - Preliminary
- SA Index - Seasonally adjusted index
- SA MOM - Seasonally adjusted month-on-month
- 3MMA YOY - 3-month moving average year-on-year