

MEDIA RELEASE

24 October 2008

Monthly Manufacturing Performance - September 2008

(I) Total Manufacturing Performance

1. Manufacturing output in September 2008 grew 2.4% compared with the same month last year. On a seasonally adjusted month-on-month basis, output rose 7.0% in September over August. Cumulative manufacturing output for the first nine months of the year shrank 1.9% compared with the same period last year. The three-month moving average year-on-year index recorded a decrease of 11.4% over the same period last year.

(II) Performance by cluster

2. The biomedical manufacturing cluster expanded 38.2% in September compared to the same month last year. The rise was largely attributed to the pharmaceutical segment, which recorded a 44.4% increase on the back of a different mix of active pharmaceutical ingredients. The

medical technology segment shrank 12.0% as a result of lower shipment overseas. For the first nine months of 2008, cumulative output of the biomedical manufacturing cluster was 9.8% lower than in the same period last year.

3. The transport engineering cluster registered year-on-year growth of 10.3% in September. Growth was largely contributed by the marine & offshore engineering segment (18.7%), which saw increased rig building and offshore conversion activities. The land transport segment also grew 24.3% due to increased delivery in September. The aerospace segment shrank 0.6% in September 2008 compared with the same month last year, as there were fewer commercial repairs. Cumulative output of the cluster expanded 6.5% for the first nine months of the year.

4. Output of the general manufacturing industries rose 4.3% in September compared with the same month last year. The food, beverages and tobacco industries grew 5.4%, whilst the printing segment shrank 7.1%. For the first nine months of the year, cumulative output of the general manufacturing industries rose 2.6% over the same period in 2007.

5. Output of the chemicals cluster increased 3.1% in September compared with the same month last year. The petrochemicals segments grew 4.6% as there were fewer maintenance shutdowns in September this year compared to the same period last year. The petroleum segment, on the other hand, dipped 2.2%. The specialties segment grew 8.1% with increased production of industrial gases and additives, and other chemicals segment grew 9.7%. For the first nine months of 2008, cumulative output of the chemicals cluster was 1.0% higher than the same period last year.
6. The precision engineering cluster shrank 2.9% year-on-year in September. Output of the machinery & systems segment decreased 1.8%, and the precision modules & components segment also shrank 4.0% due to global slowdown in demand. Cumulative output of the cluster was 3.4% lower in the first nine months of 2008 compared with the same period last year.
7. The electronics cluster shrank 14.6% in September, compared with the same month last year. There was growth in the computer peripherals (11.9%) and other electronic modules & components (9.9%) segments,

but output declined on the back of a 68.6% drop in the infocomms & consumer electronics segment. This was caused by the relocation of mobile device production as announced previously. The semiconductors and data storage segments also declined 5.0% and 7.9% respectively. Cumulative output of the electronics cluster for the first nine months of 2008 fell 0.7% compared to the same period last year.

8. The next monthly manufacturing performance media release will be issued on 26th November 2008.

**COMMUNICATIONS
GLOBAL OPERATIONS DIVISION**

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

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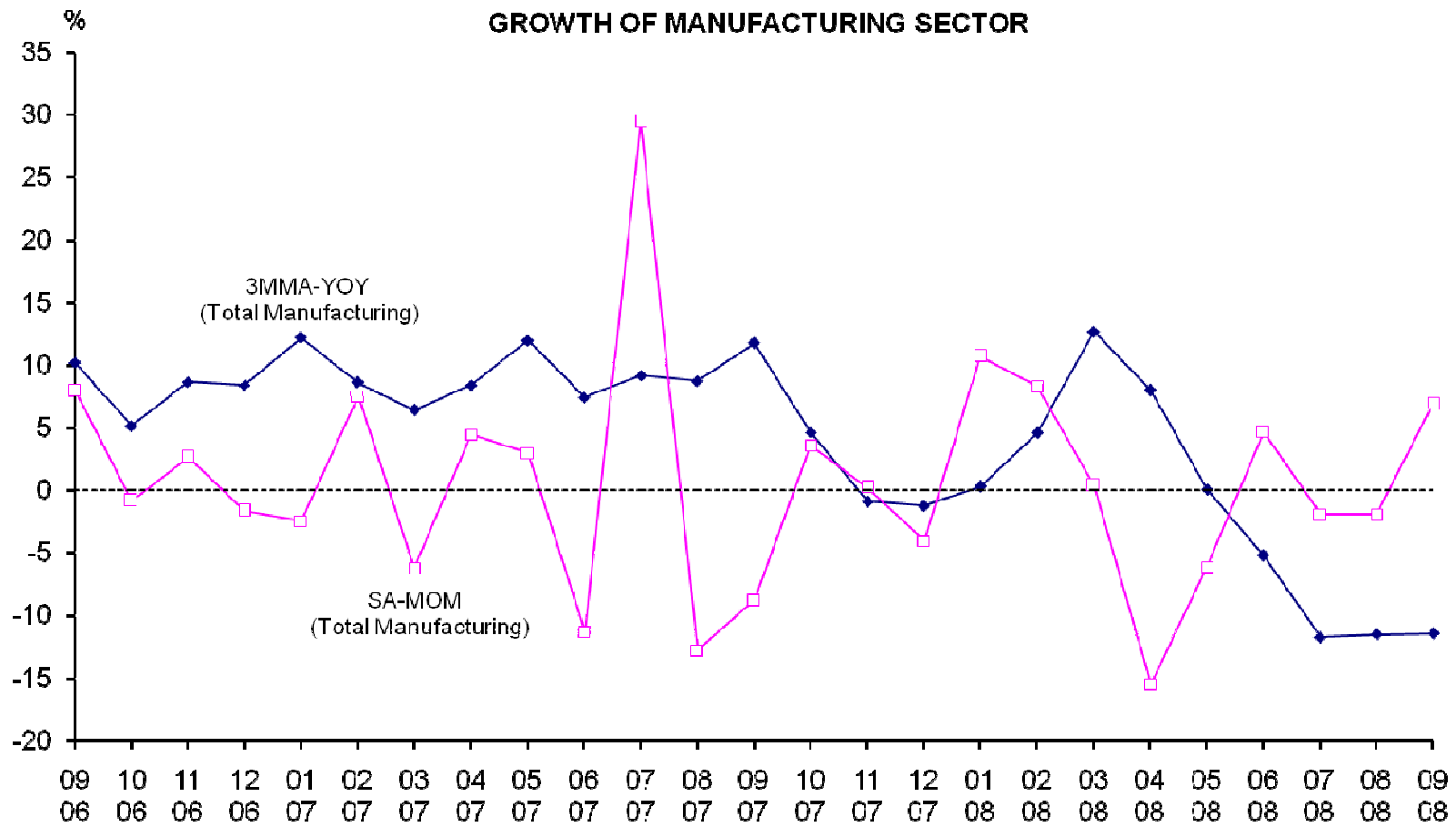
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Note :
 3MMA YOY - 3-month moving average year-on-year
 SA MOM - Seasonally adjusted month-on-month

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		
		Jul 08	Aug 08	Sep 08*	Cum Jan - Sep 08	Jul 08	Aug 08	Sep 08*
Electronics	29.7	6.3	-8.2	-14.6	-0.7	3.4	-0.3	-6.3
Semiconductors	17.6	12.3	1.4	-5.0	2.7	4.8	4.5	2.7
Computer Peripherals	3.9	14.0	1.7	11.9	9.5	16.1	12.6	9.0
Data Storage	2.8	2.6	4.9	-7.9	8.1	7.4	4.5	-0.6
Infocomms & Consumer Electronics	3.6	-31.9	-60.8	-68.6	-36.5	-23.8	-40.0	-58.4
Other Electronic Modules & Components	1.7	9.1	3.5	9.9	8.9	6.8	6.3	7.5
Biomedical Manufacturing	24.4	-67.3	-34.5	38.2	-9.8	-48.2	-42.0	-36.8
Pharmaceuticals	21.8	-69.6	-36.2	44.4	-10.5	-50.8	-44.2	-38.5
Medical Technology	2.6	-12.9	-10.3	-12.0	-0.3	-9.3	-9.7	-11.8
Chemicals	11.8	3.3	-5.6	3.1	1.0	2.3	-0.4	0.2
Petroleum	4.1	12.8	-3.4	-2.2	3.3	9.8	3.6	1.9
Petrochemicals	3.6	-9.9	-15.0	4.6	-2.5	-4.7	-8.7	-7.0
Specialties	3.0	3.4	2.6	8.1	6.7	5.2	5.2	4.7
Others	1.1	11.5	-6.2	9.7	-13.9	-13.3	-5.3	4.8

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		
		Jul 08	Aug 08	Sep 08*	Cum Jan - Sep 08	Jul 08	Aug 08	Sep 08*
Precision Engineering	13.0	-6.9	-9.5	-2.9	-3.4	-4.8	-6.2	-6.4
Machinery & Systems	5.7	-9.5	-6.3	-1.8	0.6	-3.5	-5.3	-5.7
Precision Modules & Components	7.3	-4.7	-11.9	-4.0	-6.7	-5.9	-7.0	-7.0
Transport Engineering	11.9	6.2	-0.4	10.3	6.5	9.0	4.7	5.3
Marine & Offshore Engineering	6.2	8.7	-9.2	18.7	10.6	15.5	4.3	5.6
Aerospace	4.9	-1.3	13.6	-0.6	1.2	0.7	3.9	3.5
Land	0.8	35.2	-10.5	24.3	11.7	14.5	13.3	15.9
General Manufacturing Industries	9.2	4.4	0.7	4.3	2.6	3.4	2.4	3.1
Printing	2.5	2.1	-4.2	-7.1	-1.3	-1.8	-2.2	-3.1
Food, Beverages & Tobacco	2.4	7.0	2.7	5.4	6.8	8.5	6.4	5.0
Miscellaneous Industries	4.3	4.3	2.0	9.7	2.5	3.8	2.8	5.3
Total Manufacturing	100.0	-21.8	-12.5	2.4	-1.9	-11.7	-11.5	-11.4

* Preliminary

TABLE 2: MONTHLY INDEX OF INDUSTRIAL PRODUCTION BY INDUSTRY CLUSTER, SEPTEMBER 2006 TO SEPTEMBER 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 Sep	106.5	97.7	134.4	103.0	124.8	93.2	109.1	115.2	65.9	94.2	96.9	91.9	92.2	96.4	
Oct	100.7	94.5	113.6	101.9	115.8	90.6	121.1	125.2	91.6	94.8	97.3	98.5	87.1	99.7	
Nov	97.9	85.8	137.5	99.2	111.8	94.7	138.8	141.3	120.5	99.3	102.3	97.7	94.8	104.9	
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	101.7	99.5	128.2	110.7	72.6	108.1	101.6	101.8	98.5	104.3	102.8	103.4	111.0	94.6	
Feb	95.4	103.0	94.9	95.8	64.4	96.8	115.1	116.6	96.0	96.7	98.5	94.3	102.0	80.8	
Mar	98.6	90.4	118.1	118.9	85.3	119.7	168.1	173.9	95.4	104.0	104.5	103.3	109.4	88.1	
Apr	92.4	97.1	97.1	103.4	55.2	97.1	74.5	71.8	109.2	102.6	101.8	102.4	108.4	90.2	
May	87.0	88.6	96.9	95.0	56.9	100.0	53.0	49.7	94.3	103.8	107.5	103.0	106.6	80.6	
Jun	99.4	103.2	111.7	92.0	73.8	111.1	86.6	84.5	112.4	100.9	101.2	95.8	110.8	89.1	
Jul	101.5	115.2	97.5	99.6	51.1	104.3	60.5	58.2	88.7	98.5	101.0	89.6	106.4	96.3	
Aug	94.2	99.7	100.0	110.5	47.8	105.3	70.1	68.8	86.4	95.1	101.5	83.6	102.6	84.6	
Sep *	100.8	105.5	112.9	112.2	52.2	115.0	99.4	99.8	95.3	99.6	98.3	97.7	106.0	93.5	

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

Period	Precision Engineering			Transport Engineering				General Manufacturing Industries				Total Manufacturing	
	Total	Machinery & Systems	Precision Modules & Components	Total	Marine & Offshore Engineering	Aerospace	Land	Total	Printing	Food, Beverages & Tobacco	Miscellaneous Industries		
2007 = 100													
2006	Sep	108.4	107.2	109.4	93.9	92.6	97.4	80.9	99.0	103.0	95.0	98.8	103.0
	Oct	95.9	85.8	103.3	84.0	80.3	91.9	80.5	99.7	100.2	93.4	102.9	100.1
	Nov	102.6	96.8	106.9	86.4	80.2	97.6	102.6	106.0	106.3	97.2	111.2	104.8
	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
	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
2008	Jan	97.5	94.7	99.8	92.7	87.7	99.0	90.0	107.4	101.0	120.0	104.6	101.1
	Feb	81.2	80.1	82.0	90.5	89.2	89.6	106.0	80.7	79.4	89.0	77.2	96.4
	Mar	102.5	110.6	95.6	109.5	106.4	105.1	159.2	99.6	100.4	105.1	96.6	117.0
	Apr	96.9	96.8	96.9	103.8	104.3	102.6	108.1	100.5	99.7	104.7	99.0	92.1
	May	92.9	94.2	91.8	107.4	114.2	102.2	91.2	102.4	100.9	105.5	101.7	85.7
	Jun	99.9	107.4	93.5	113.4	117.8	108.3	113.3	101.4	97.8	105.4	101.4	98.4
	Jul	96.9	96.7	97.1	116.3	123.0	105.6	133.7	108.6	100.4	109.7	112.2	93.4
	Aug	92.0	91.1	92.8	102.3	101.0	105.8	88.9	107.0	98.4	108.7	110.6	90.6
	Sep *	103.9	113.2	96.0	109.6	115.5	103.5	105.2	106.9	97.9	107.3	111.3	102.3

* Preliminary

TABLE 3 : MANUFACTURING SECTOR GROWTH

Period		INDEX (2007 = 100)	SA INDEX	SA MOM GROWTH (%)	YOY INDEX GROWTH (%)	3MMA YOY INDEX GROWTH (%)
2006	Sep	103.0	97.9	8.1	6.4	10.2
	Oct	100.1	97.1	-0.8	3.6	5.2
	Nov	104.8	99.7	2.7	16.4	8.7
	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	101.1	104.7	10.7	8.7	0.3
	Feb	96.4	113.4	8.3	10.7	4.6
	Mar	117.0	113.9	0.4	18.2	12.7
	Apr	92.1	96.2	-15.5	-5.0	8.0
	May	85.7	90.3	-6.1	-13.3	0.1
	Jun	98.4	94.5	4.7	2.6	-5.2
	Jul	93.4	92.7	-1.9	-21.8	-11.7
	Aug	90.6	90.9	-1.9	-12.5	-11.5
	Sep*	102.3	97.3	7.0	2.4	-11.4

Note:

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