emily_huai@hanbell.cn
ir@hanbell.cn
021-51365368

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7.7% 56957 4.0%

249684 7.8% 262204 8.3%

10% 43.9%

46.1%

864646

16.2% 357815 14.2%

480381 20.1%

17% 14.4% 20.8%

3.7% 25.3%

2013 86013 19.8%

19.4% 58951 19.4%

68.5% 2013 665572

16.1% 486347

13.4% 201208 13.5%

145845 11.6% 101435 2.0%

78741 0.4%

2013

2014

2013 27.56

34%; 6.75 .47

19% 27%

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2013

75 59 78%

2013

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1200

200

http://www.chinahvacr.com/News/Class1/201402/News_3103363.shtml

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2007

1800 2008 2400 2009 3870

1.007

2010

60%

5 20%

http://www.chinahvacr.com/News/Class1/201402/News_3103790.shtml

4 1%

20 80

90

20

95% 215

10%

98%

13% 21%

4% 60%

15% 20%

60% 1%

http://www.chinahvacr.com/News/Class1/201403/News_3103836.shtml

5 2014 10%

2 2014 2014

( ) 10%

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2014

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5320

http://finance.chinanews.com/cj/2013/12-05/5581758.shtml

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http://bao.hvacr.cn/201312_2042547.html

8

8m 679023E>E20MC /P <</MCID 3>> BDC BT /F55 14.04 Tf 1 0 0 1 91.824 272

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http://bao.hvacr.cn/201403_2044836.html

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http://bao.hvacr.cn/201403_2044937.html

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http://bao.hvacr.cn/201402_2044329.html

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http://bao.hvacr.cn/201402_2044552.html

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2014 3 5

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http://bao.hvacr.cn/201403_2044728.html

13 CO2

9 14

HCFCs( )

2030 R22 HCFCs CO2

1 14

CO2

19 20 30

80%

ODP=0 GWP=1

GWP

15

8 25

24 15 60

(7.36，-0.14，-1.87%)

/CO2

(12.70，-0.12，-0.94%)

/

/

1/10

10%

31.1

7.37

http://cold.chinaiol.com/o/0120/06125626.html

14

2014 1 1

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2011 1 1 3.5

2012 1 1 2013 7 1 2013 7 1

50ppm

2013

350ppm

2013 7 1

30%

2014 1 1

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2014

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2013 2014 2014

http://cold.chinaiol.com/o/0113/08125126.html

15

14 30

http://bao.hvacr.cn/201402_2043790.html

16

12 26.80% 21.64%

18.95% 8.05% 7.57% 3.42%

19%

85%

GDP

4

2012

2013

1

52 1 2014

4000

62.5%

25%

http://cold.chinaiol.com/o/0103/28124559.html

17 5

3000 5

2013

2013

2600 36%

http://bao.hvacr.cn/201402_2044136.html

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DOE

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1.42 1430

117

Ernest Moniz

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19

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/ 24 365

17,000kWh

38,000 kWh

2009

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http://bao.hvacr.cn/201403_2044855.html

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http://www.compressor.cn/News/hykx/2014/0222/71970.html

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http://www.compressor.cn/News/hykx/2014/0119/71683.html

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http://www.compressor.cn/News/hykx/2014/0102/71508.html

22

100

TPM

2013 6

llKW 8

2014 1 100

100 1502

15 51 5KWH

300 15450KWH

3

http://www.compressor.cn/News/hykx/2014/0118/71680.html

23

http://www.compressor.cn/News/hykx/2014/0207/71794.html

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5 5

http://www.compressor.cn/News/scdt/2014/0208/71819.html

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80%

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2012

70%

TBM

http://www.techleader.com.cn/newsShow.aspx?id=27

28

02 17

2012 1

In-Cell On-Cell

2012 32.7% 39.4%

1.3

Sensor Glass Film 30%

2012

200 300

G/G G/F/F

OGS OPS OFS

OGS

OGS

IC

47%

1/3

2010

2010 2011

6

OLED

In-Cell On-Cell

http://www.chinesevacuum.com/ShowArticle.aspx?id=43337&pid=39

29 2014

2014

2013

50GW 100GW

2013 2014

JigarShah

2016

JigarShah (ITC

30%) 2016

200MW 200MW 2020

1% 10%

(MESIA) MarcNorman

2014

100MW 2014

2014

2013

DougYoung 2014

2015

35 (GW)

2014 12 (GW)

http://www.chinesevacuum.com/ShowArticle.aspx?id=43398&pid=39

30 2014

2014

12

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12 109

2014

EnergyTrend

2013

240 250

17.2 17.6 2014

17.8 18 255 305

EnergyTrend

12 (Bumping)

1,000 IC

12

5 12

12

Amkor Stats

ChipPAC 12

8

(FCCSP) (WLCSP)

IC

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12

GlobalFoundires

2013 11 12.5

FCCSP FCBGA

http://www.semi.org.cn/news/news_show.aspx?ID=36785&classid=117

32

(SEMI) 2013

320 2012 13.3% 7%

2014 23.2% 394.6

2015

22.1%

2013

20 FinFED 3D NAND

2014

2013 100 (Samsung Electronics)

3D NAND (Toshiba) (SanDisk)

Fab 5

http://www.semi.org.cn/news/news_show.aspx?ID=36854&classid=117

33 2014 3166

2014

2014 3166

4.1

2013 BB 1%

WSTS

4.4 3043

10.3 7.2 4.3 14.5

2013

2014

http://www.chinesevacuum.com/ShowArticle.aspx?id=43365&pid=39

34

20 10

http://www.zhenkong.info/news/html/Market/10084.html

35

2020 95

EVP

MichaelJuerging

1.4 1.8

http://www.chinesevacuum.com/ShowArticle.aspx?id=43406&pid=39

36

(0686.HK)

1MW 20 1.135

/ 8 10 10

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http://www.chinesevacuum.com/ShowArticle.aspx?id=43401&pid=39

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2012 11 1

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50% 2014

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2013 568845

7.7% 56957 4.0%

249684 7.8% 262204 8.3%

10% 43.9%

46.1%

864646

16.2% 357815 14.2%

480381 20.1%

17% 14.4% 20.8% 3.7%

25.3%

2013 86013 19.8%

19.4% 58951 19.4%

68.5% 2013 665572

16.1% 486347 13.4%

201208 13.5% 145845

11.6% 101435 2.0%

78741 0.4%

2013

2014

2013 27.56 34%;

6.75 .47 19%

27%

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2013 75

59 78%

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2014

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http://news.ehvacr.com/news/2014/0210/90202.html

2 2013

2012 2013

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2013 2013

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2013 636 2012

14.6%

2013

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2012

2013 5

5 18

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2015

20% 30%

2013

2

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2013 4

55% 45%

2013 12 3

60%

VRF

2013 12 10

4

30

2013 2012

75%

2013

14.6%

20%

5

2013

2013 5

2013 6 19

6 20

578 13.44%

2013 6 24 A

30% 30%

2013 2013

6

2013

493.6 77.6% 2012 72.5%

7

20 90

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http://news.ehvacr.com/news/2014/0228/90530.html

3

2013

2013 1000

24.2%

(IARW 2008

24777 0.037

0.1-0.3 0.023

0.016 2008 1500 0.011

10

	澳大利亚	美国	日本	加拿大	德国	法国	俄罗斯	英国	巴西	印度	中国	总容量
冷库总容量（百万 m³）	6	70.74	27.69	6.89	13.4	8.5	16	5.6	4.5	18.58	15	247.77
人均冷库容量（m³/人）	0.28	0.23	0.22	0.21	0.16	0.14	0.11	0.09	0.023	0.016	0.011	0.037

2008

http://bao.hvacr.cn/201402_2044565.html

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IEMC

CO2

http://bao.hvacr.cn/201402_2044277.html

5 2013

2003-2009

2009

2013 12 30

序号	技术名称	适用范围	主要技术内容	典型项目				
				适用的技术条件	建设规模	投资额(万元)	节能量(tce/a)	减排量(tCO2/a)
20	两级喷油高效螺杆空气压缩机节能技术	通用机械行业 空气压缩机领域	采用两级压缩，一方面降低了每一级的压比，提高了容积效率，另一方面油气混合物在一级排气进入二级吸气前，可充分混合，起到级间冷却的作用，进而提高了压缩机的能效。	新建空气压缩机	1台250kW压缩机改造	52	128	332
	变频优化控制系统节能技术	电力、冶金、机械等行业	根据计算机模糊控制理论，自动适时监测电机、[illegible]	已安装变频装置的[illegible]	煤化工锅炉系[illegible]	600	700	1848

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20

7%

160kW

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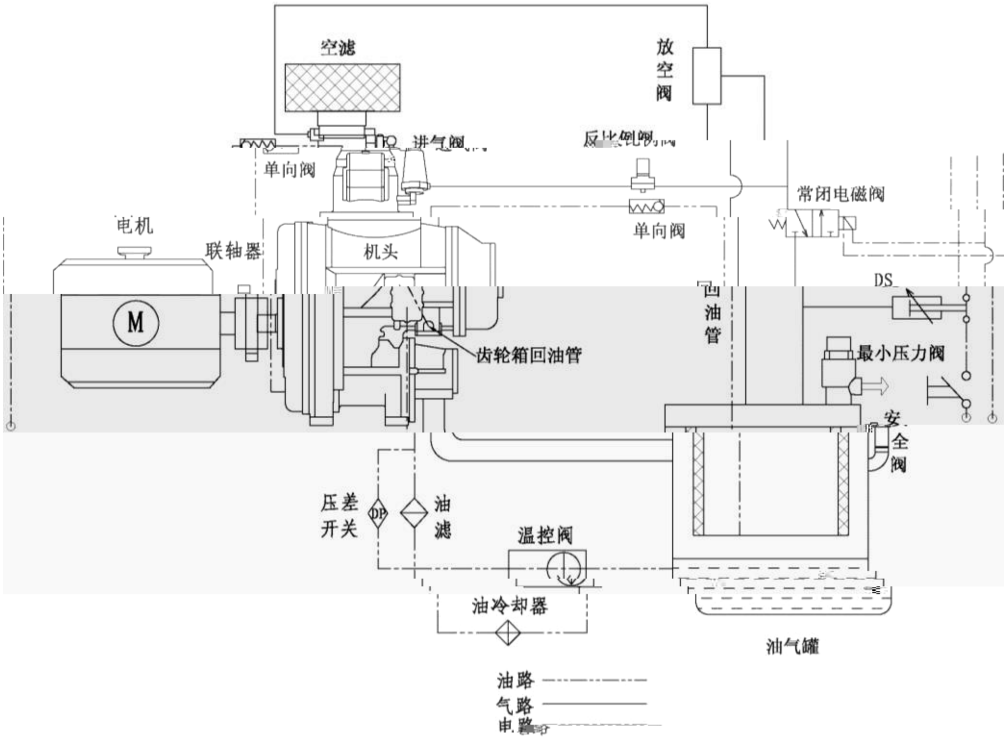

1

1. GB19153-2009 I

2. 15%

3. 30%

2013

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250kW

52

15 126tce 332tCO2 2.2

2

6 250kW

556

40 756tce 1996tCO2 3.8

20

200kW 18% 8000h 2015 6%

35 kWh, 120 tce 317

tCO2

http://www.compressor.cn/News/hykx/2014/0117/71670.html

7

GB19153-2009

1 /

7.5 1

10 55

Atlas Copco　Ingersoll Rand

2012

1

表1 不同品牌的螺杆空压机价格走向

档次	类别		

1

1

2

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4

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1 1 l 7%

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0.7MPa 20m3/min

16

2

表2 1级、2级能效的风冷喷油螺杆空压机节电计算			
风冷喷油螺杆空压机能效级别	1	2	3
排气压力 MPa	0.7	0.7	0.7
气量 m^3/min	20	20	20
GB19153-2009规定的能效级机组输入比功率 kW/m^3/min	6	6.7	7.6
能效级机组输入功率 kW	120	134	152
台数	1	1	1
日电耗 kWh	1920	2144	2432
[illegible]天电耗 kWh	576000	643200	[illegible]
5年电耗 kWh	2880000	3216000	[illegible]
5年比3级能效节能 kWh	3648000-2880000=768000	3648000-3216000=432000	[illegible]

2

0. 7MPa 20m3/min

1 6 300 5 16 300 5=24000 1

3 76.8 2 3

43.2

5 50% 3

10 1 3

76.8 0.5=38.4 38. 4+10=48.4 2

3 43.2 0.5=21.6 21.6+10=31.6

20% 3

10 1 3

76.8 0.2=15.36 15.36+10=25.36 2

3 43.2 0.2=8.64 8.46+10=18.64

30 50%

30 30%

30 2096

,

3

20m3/min 0.7MPa

1 26 2

16 2400

3

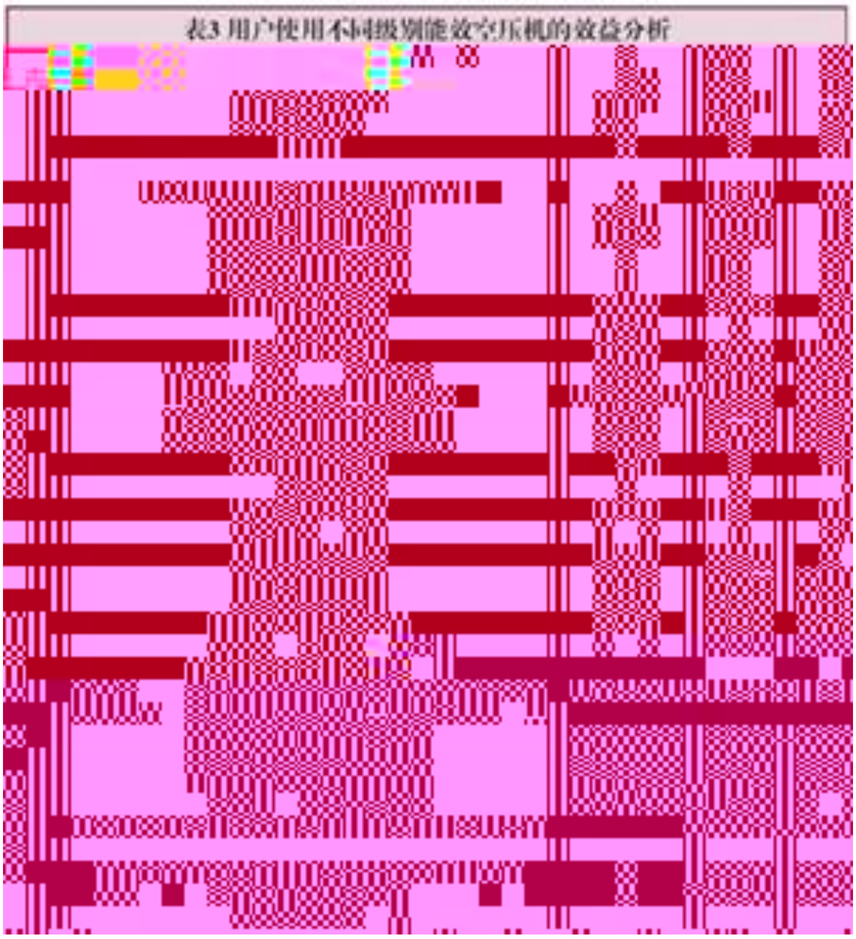
表3 用户使用不同级别能效空压机的效益分析

3 2 20m3/min

24 300 1 84848. 64

3 20m3/min 24

300 1 201328.6

10 3 24

300 1 2013286 201. 3286

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1 1 7%

1

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1 7%

1 1 7%

2014 2

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4 10

http://www.chinesevacuum.com/ShowArticle.aspx?id=43230&pid=39

9 2013

2013 11 99.7% 2012 0.3%

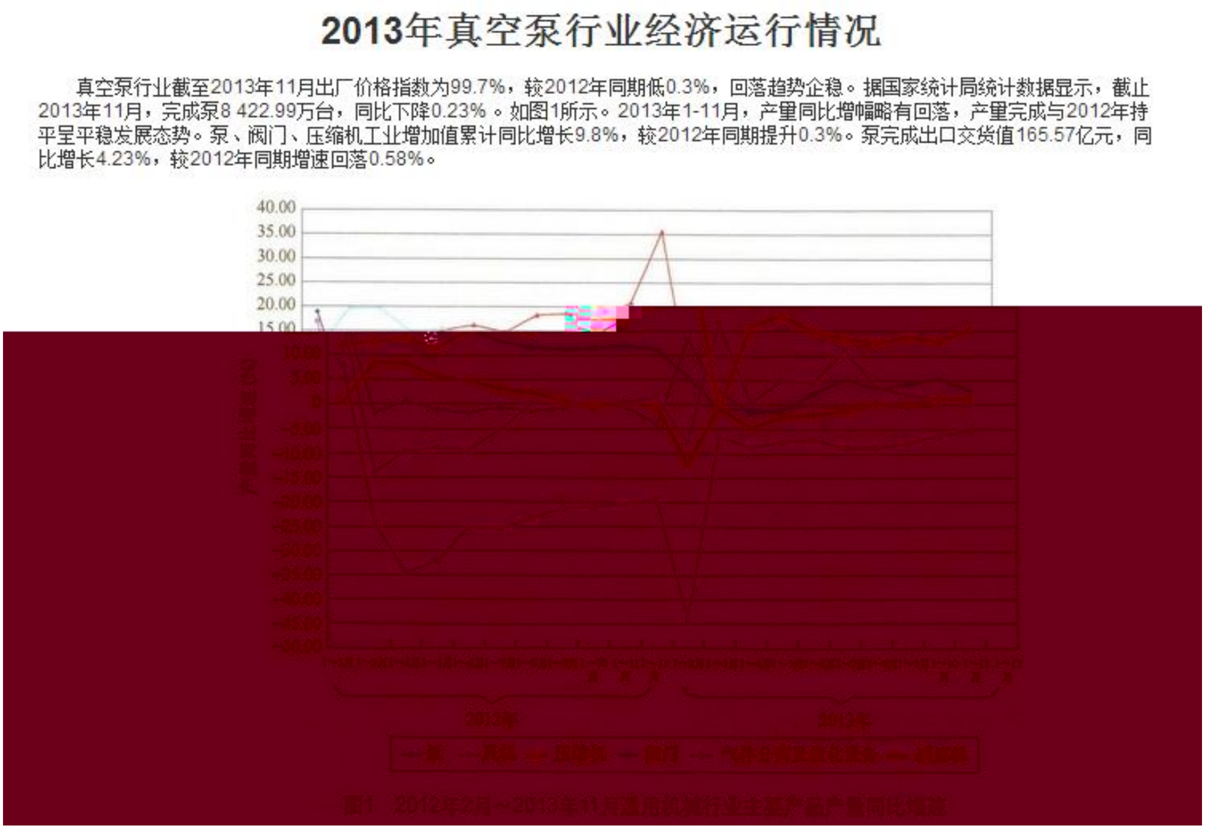
2013 11 8 422.99

0.23% 1 2013 1-11

2012

9.8% 2012 0.3% 165.57

4.23% 2012 0.58%



2013年真空泵行业经济运行情况

真空泵行业截至2013年11月出厂价格指数为99.7%，较2012年同期低0.3%，回落趋势企稳。据国家统计局统计数据显示，截止2013年11月，完成泵8 422.99万台，同比下降0.23%。如图1所示。2013年1-11月，产量同比增幅略有回落，产量完成与2012年持平呈平稳发展态势。泵、阀门、压缩机工业增加值累计同比增长9.8%，较2012年同期提升0.3%。泵完成出口交货值165.57亿元，同比增长4.23%，较2012年同期增速回落0.58%。

2012

2012 (

2)

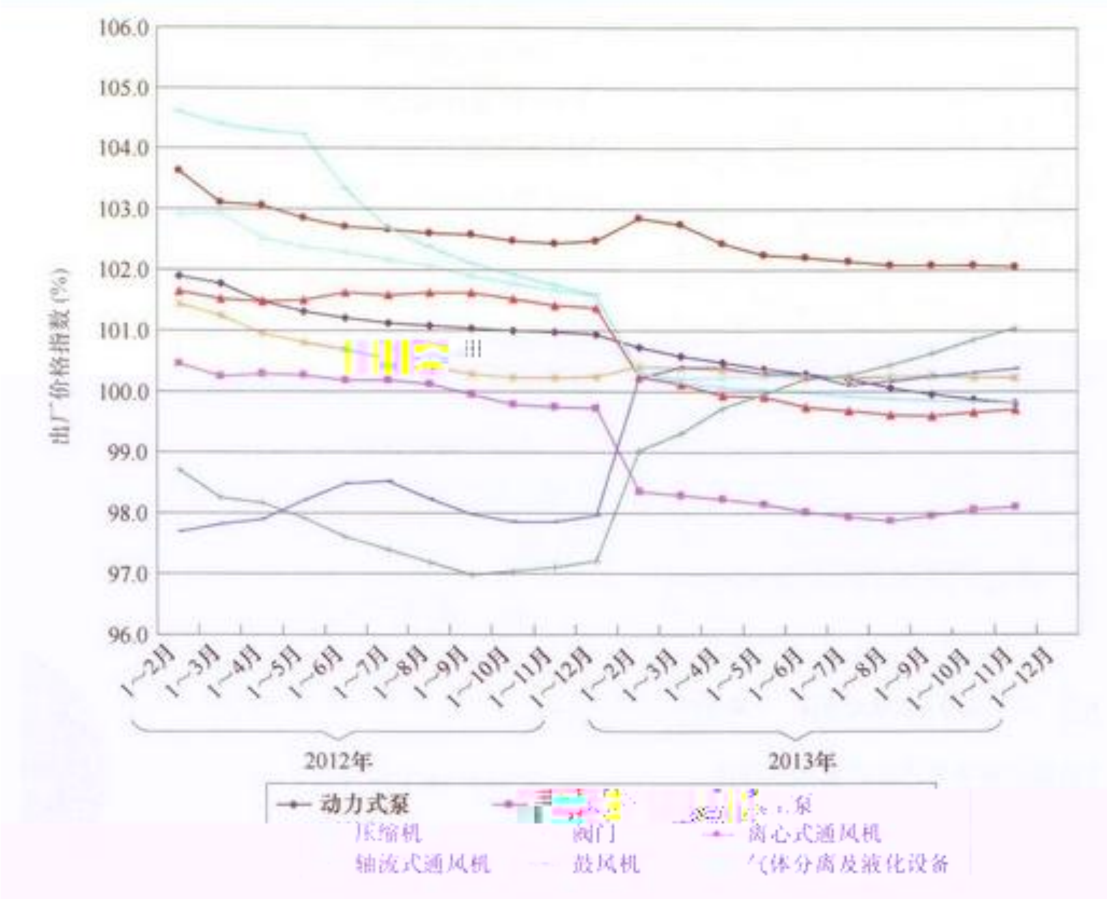


图2 2012年2月～2013年11月通用机械行业产要产品出厂价格指数

2013 4

2012 11 99.7%

2012 0.3%

2013 10

10% 2013 1-10

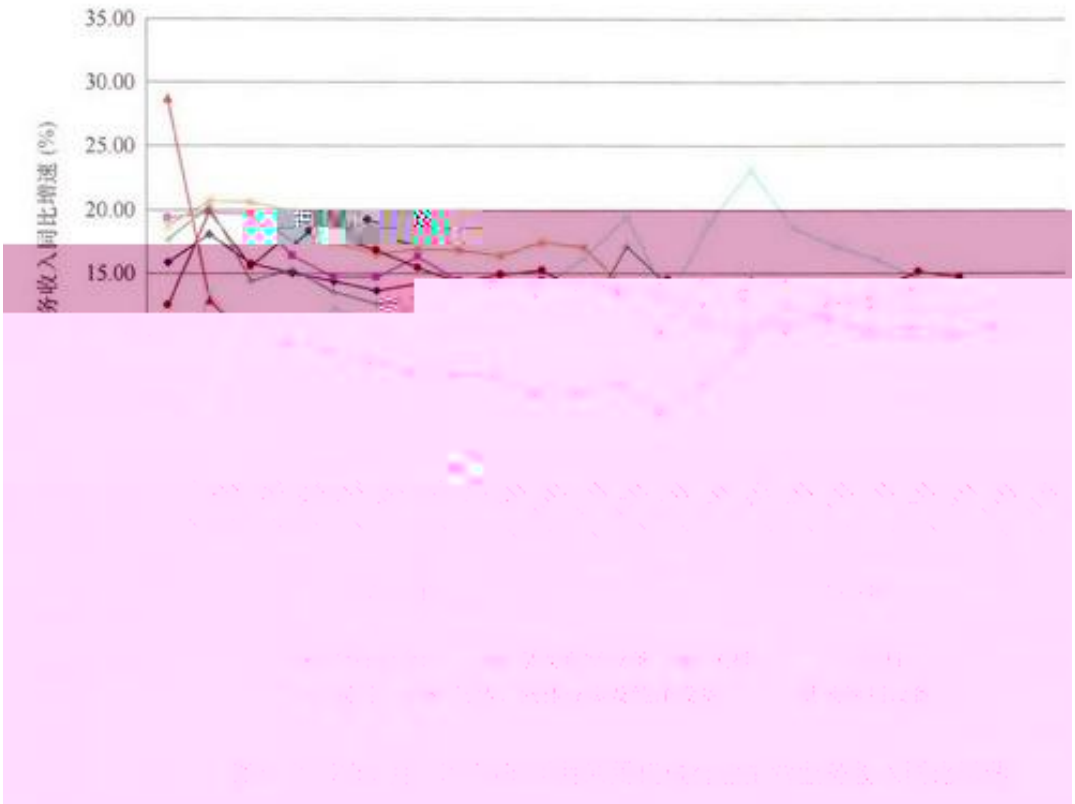
7270.81 12.38% 2012 1.44%

12% 468.85

11.02% 2012 0.58%

7% 11% 2012 19.82

0.71% 3



1 577.27 10.82% 2012

3.61% 109.04 14.52% 2012

1.69%

2013 1-10 6.44% 2012 0.8%;

6.95% 2012 0.1%

2014

2014 GDP 7.5%

2013

2014

10%

http://www.chinesevacuum.com/ShowArticle.aspx?id=43152&pid=39

10

http://www.chinesevacuum.com/ShowArticle.aspx?id=43251&pid=39

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20624

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95

2011 2013

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2008

IOS Android windows

24

http://www.chinahvacr.com/News/Class9/201402/News_3103821.shtml

4. EK

2013 EK 9

2014 3 8 EK

2014

EK ? 400

EK EK 2013

EK EK EK

EK

EK

http://www.chinahvacr.com/News/Class9/201402/News_3103675.shtml

5.

2014 2 10

®YSPA

175 450

3.57 YSPA

10%

R134a

-11

52

55

YSPA

X 12% 32%

30

1979 ®

71

http://www.chinahvacr.com/News/Class9/201402/News_3103356.shtml

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http://www.chinahvacr.com/News/Class9/201401/News_3103290.shtml

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2016

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http://www.chinahvacr.com/News/Class9/201401/News_3103204.shtml

8. RCU

RCU 2014

RCU

R404A　R507A　R134A　 R407C

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3000

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2012 X

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2013 4

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http://bao.hvacr.cn/201403_2045047.html

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http://bao.hvacr.cn/201402_2044358.html

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http://bao.hvacr.cn/201402_2044059.html

13.

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2 17

2 15

5.5 6.75

2.265 4051.74

SRM OPCONAB 3000 2013 7

SRM OPCONAB10%

17.21% OPCONAB

OPCONAB SRM

SRM

SRM

SRM SRM

SRM SRM

SRM

http://bao.hvacr.cn/201402_2044176.html

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http://bao.hvacr.cn/201402_2044047.html

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http://bao.hvacr.cn/201401_2043565.html

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1955

PID

150~200 ℃ 300 ℃

2 22

2000 15000

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http://www.compressor.cn/News/qyzc/2014/0311/72174.html

18. · PET

2014 2 Wilrijk ·

Wildberg Schwarzwald-Sprudel

PET

Wildberg

Schwarzwald-Sprudel ZR

VSD

1000 kW

http://www.compressor.cn/News/qyzc/2014/0226/71984.html

19.

( ) 50%

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1958

http://www.compressor.cn/News/qyzc/2014/0221/71953.html

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http://www.compressor.cn/News/qyzc/2014/0127/71759.html

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http://www.compressor.cn/News/qyzc/2014/0123/71728.html

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http://www.compressor.cn/News/qyzc/2014/0122/71712.html

23.

2014 2 18 LIUTECH

200

LIUTECH LU5-15E

LU11-75G LU30-90G IVR

LIUTECH

11KW

LIUTECH IVR

LU5-15E

LIUTECH

LIUTECH

http://www.compressor.cn/News/qyzc/2014/0301/72041.html

24.2014

2014

:Mink

Mink MV 1202 A Busch Mink

Busch 50Hz

950m3/h 60Hz 1150m&sup3

Busch 11 Mink 50Hz

62 950m³/h 60Hz 75

1150m³/h Mink MV 1202 A 200mbar

CNC

Mink

Mink Mink

http://www.chinesevacuum.com/ShowArticle.aspx?id=43780&pid=39

25.

--(BUSINESS WIRE)--( )--Edwards Limited

STP-iXA4506 (TMP)

LED

Edwards TMP Shinichi Yoshino STP-iXA4506

Edwards

iXA

(4300 l/s N2) 4300 sccm N2

STP-iXA4506

LCD PVD

PVD

http://www.chinesevacuum.com/ShowArticle.aspx?id=43403&pid=39

26.

nXDS

nXDS-R

nXDS

Edwards David Steele nXDS-R

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nXDS-R

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http://www.chinesevacuum.com/ShowArticle.aspx?id=43134&pid=39

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http://www.chinesevacuum.com/ShowArticle.aspx?id=43179&pid=39

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http://china.lesker.com

china@lesker.com

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LED

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30%

40% 45%

35%

2008

9.5%

http://www.chinesevacuum.com/ShowArticle.aspx?id=43040&pid=39

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2014-01-17

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: PT.

MARINDO

INVESTAMA

100

(601886,)(601886) 3405 :

13.92 / 3405 21% 5.25%

65%

(000883,)(000883) :

6.7

2013 6 30 805.78 408.07

2013 194.45

:2013 40%,LB

, , ,

,

, 2013-2015 EPS 0.58 0.75 0.91 ,

, 2014 26 PE, 19.5 ,

,LB :

40%, 25%, :①

;②

, , ,

LB 50%, :① ;②

;③

, :

30%,2013 10-15%, 10%,

, 40-50% ,

, , ,

1 17.1% 30.5%,

, ,

:

:

2014-01-17

2013 15%~35% 25~50% 2013

12265.35~14398.45

2013 , 2013 ,

2013 40% , 30%

: ,

, ,

,

, ,

, ,

, , , ,

, ,2013

LB , 1000

, , , ;

7~8 ,

,

2013

, ,

2014 :

1) , 2014

,

, 2-3

,)

2)2014 ,

, , ,

,2014 10

, , , ,

35-41% 13 4 EPS 0.13-0.20 42-114%

13 1-3 EPS 21% 44% 30%

1

13

4 2

( ) 2013 11

13

3

30%

+

1

13 300%

20%

2014 1

2

14

3

4 3000 1.15

1.45 13H1 67% 3387

366 14

2014

20%

2013-2015 EPS 0.63 0.78 0.99

42% 23% 27% 1 15 17.39 14

PE 22 2014 25 PE

19.5

(

)

5. ----

1 16 2013

15% 35% 25% 50% 133

160 EPS 0.56 0.67 2013

2013 1-11 7.4%

18.2%

40%

20% 25%

2013

2013

2013

2013 2014 2015

0.63 0.78 0.95 PE 30 25 20

2014 28 PE 21.84

( )

7.

2014-02-19

(002312,) 2013

(600708,)

2013 (000811,)

(002158,) (000530,)

2

35.07%

2013

2013 10

51% (000061,)

2009 GMP

COD CashonDelivery

(,)

70%

2013 2013 11

2

35.07%

2013

2014

2012

2013

1 52 1

2014

2014

http://stock.hexun.com/2014-02-17/162207287.html

8. : , ---

2014-02-25

2013 : 39.2%

2013 , 84904.3 , 21.3%;

17453 , 39.2%;

14920.8 , 39.2%; 0.62 , 39.9%

,

84904.3 , 21.3%; 17453 ,

39.2 %; , ,

,

, ,

,

2014 2015 0.62 0.82 , 2014 32

, 22.98 26.13 ,

, ,

,

, 30%

, ,

20% 3000

, ,

,

, LB

, ,

,

,

2013 40%,

, ,

2014 2015 0.62 0.82 , 2014 32

, 22.98 26.13 ,

http://finance.qq.com/a/20140225/013685.htm

10. :2014 ---

2014-02-27

( ) ( )2 25

( )(002158)

2013 2013 8.49

21.3% 1.7 35.2%

1.49 39.9% 0.62

1

1)

40% 2)

20% 3) 7~8

20% 2

2014 20% 10

1) 2013 2)

3)

2014

2014 10

2013~2015 EPS 0.62 0.8 0.98 PE

35.8 27.6 23

2014

( )2014 35

28~30

http://stock.eastmoney.com/news/1415,20140226363566360.html