
COUNTRY SUMMARY

What's New in China

What's New in China

IVD markets in China will grow to more than US\$1.5 billion in 2009, making China the world's #6 IVD market. Over the last few years, annual market growth has been in the 15-20% range, putting China on track to pass Italy and France by 2012 and Germany by 2015. The IVD business in China is never easy; with all the lean local competitors, end-user commissions, spotty distribution channels, and the recent reigning in of reimbursement. Still, there are more reasons than ever for IVD companies to redouble their efforts in China in 2009.

Just as we were finishing this report **China's State Council announced a major new health care spending program** to bring some minimum standard of medical insurance coverage to 90% of both the urban and rural population, while also upgrading hospitals. The central government has committed 850 billion yuan (\$US123 billion) to the task, which is mainly meant to pay for lots of drugs and doctors fees, though surely not all, which will open the gates for plenty of back and forth over how much from which pockets.

A big part of the government's motivation is clarified by remarks by Bai Zhongen, chairman of the economics department at Tsinghua University's School of Economics and Management in Beijing, who said that establishing universal health care with government-financed insurance would increase general consumer spending. He said the school did a survey in 2007 about the effect of rural health insurance on consumer behavior and "found that in government-sponsored health insurance areas, people are spending more." So getting people to save less and spend more is no small part of the government's motivation for the new largesse.

IVD companies should note that the plan also aims to improve health centers in rural and remote areas as well as equalize health services between urban and rural areas. We expect this to lead to a once-in-a-career boom in small instrument placements at the country's 200,000+ clinics and 40,000+ health centers. China is already the world's #2 market for automated IVD instrumentation, having absorbed well over 4,000 new chemistry systems, 9,000 hematology systems, and 3,000 new immunoassay systems *during each* of the last few years. Now a significant but completely new market for smaller, more robust instrumentation appears likely to take shape.

Another gradual but significant change has been **the strengthening of the yuan, which keeps making imports more affordable**. When we did our 2004 report, the exchange rate was still at the long-standing peg of 8.28 to the US dollar. In 2006 the rate was 7.90, an increase of almost 5% and for this report we are using an exchange rate of 6.80 to the dollar. The direction is clear, and as the Chinese currency continues to strengthen, imported IVD products will continue to look better to Chinese buyers.

There is no laboratory consolidation in China; new hospitals continue to open at the rate of \approx 575 per year. In addition, the Ministry of Health is expanding their Centers for Disease Control laboratories. They are in the process of opening 1,000 new epidemiological laboratories throughout the country.

COUNTRY SUMMARY

What's New in China

The government has also announced a plan to open 22,000 primary health care clinics in the countryside by 2010. These would be entirely outpatient facilities, and would include laboratories with automated chemistry instruments doing \approx 200 tests/hour, 3-part differential cell counters, EIA readers and urinalysis instruments.

Private laboratories are beginning to be a part of the IVD market. While it is still uncommon for specimens to be sent outside of hospitals, private labs are making inroads in getting specimens from hospitals and health checkups as well as for esoteric testing. At least three Chinese lab groups are trying to become national chains of private labs; KingMed of Guangzhou, Adicon of Hangzhou and Lawke of Beijing.

Private medical practices are also beginning to appear, mainly practiced by retired physicians, as hospitals will not allow their staff to do private practice on the side.

The market continues to grow at 15-18% annually, but those rates will be hard to sustain without substantial trickle-down from the big bang announced by the government on January 22. Over the last four years the government has started to reduce the reimbursement rates. And it is hard to know how the current global financial crisis will alter China's economy and the IVD market. But today, the macro-economic indicators are still good for the IVD industry. Even with the current world economic problems, China's economic growth is estimated by non-government sources to be even higher than the official \approx 10% reported by the government. The country is urbanizing and modernizing faster than any other has in history, and their foreign exchange reserves are over the \$1 trillion level. With greater levels of prosperity, the citizens of China will continue to seek better health care and better diagnostics. Even at our current estimate of the market, China spends around \$1.00 per person each year on diagnostics. When you compare this with the \$22-28 per capita that is spent in Europe and the US, it is clear that China's IVD markets have a great future.

Local manufacturing is booming. The number of companies we report on continues to increase. Four years ago we listed 87 local manufacturers. This report profiles 132 local manufacturers, with more companies entering the market all the time. Chinese manufacturers are getting more aggressive with their export efforts. There were 16 Chinese companies exhibiting at the 2005 AACC meeting. In 2006 there were 20, in 2007 there were 23, and in 2008 there were 31 Chinese firms exhibiting. Watch out - pretty soon they'll be hurting you in your own backyard.

The Healthcare System in China

Total healthcare expenditures in China are estimated to be 5-6% of GDP with that share growing at a relatively slow pace. The volume of these expenditures is approximately \$70b or \$50-\$55 per person. The proportion of these expenses born by individuals has been steadily growing and is now over 50%. Healthcare is one of the fastest growing segments of household budgets in China. Today the Chinese consumer pays nearly triple for healthcare what they paid in 1994.

We have pages like this on the most important local dealers

DISTRIBUTOR PROFILE:
GENE COMPANY

Office in Hong Kong:	Gene Company Unit 806, 8/F, Shell Industrial Building 12 Cheung Lee Street Chai wan, Hong Kong Phone: 852-2896-6283 e-mail: johny_zjl@genecompany.com
Shanghai Office:	Gene Company Ltd. 6 th Floor, #25 Building #69 Guejing Road Shanghai 200233 Phone: 86-21-6495-1899
Beijing Office:	Beijing Northern YiTao Trade Company Ltd. 4/F, South Building #18 Baiguang Road, Xuanwu District Beijing 100053 Phone: 86-10-5166-5161
Local Contacts:	Mr. Chang Tao – President Mr. John Zhou – General Manager, Mainland China Mr. Johny Zhang - Business Manager, Reagents(Shanghai) Mr. Li Zhe – Product Specialist, Marketing Dept.
Staff:	<ul style="list-style-type: none"> • Diagnostic Total: 30 • Company Total: 220
Companies Represented:	Dako (Denmark) – Immunohistochemistry and flow cytometry reagents Abbott (US) – Molecular diagnostic products Applied Biosystems (ABI) (US) – PCR instruments Qiagen (US) – Molecular testing products CombiMatrix (US) – Molecular diagnostic products ThermoFisher (US) – Centrifuges and consumables
Comments:	<p>Gene Company was founded in 1992. Their headquarters is Hong Kong, but their mainland business is managed from their Shanghai office. They have an additional five offices around the country. Their focus is on the life science/research markets of China.</p> <p>Applied Biosystems (ABI) (see profile) is the leader in molecular instrument sales in China. Gene Company is their exclusive for PCR instruments and StepOne systems, which they describe as an “entry-level” real-time PCR system. Several other companies distribute ABI’s reagents and disposables.</p> <p>CombiMatrix makes DNA microarrays that can test for breast cancer, leukemia and prenatal genetic defects. They are considering registering these products, but at this point they could only be used in China if some portion of the array was made in house.</p>

We have pages like this on the most important local manufacturers

DOMESTIC MANUFACTURER: MINDRAY MEDICAL ELECTRONICS

Company:	Mindray Medical Electronics
Headquarters:	Mindray Medical Electronics Mindray Building Keji 12 th Road South High-tech Industrial Park, Nanshan Shenzhen 518057 Phone: 86-755-2658-2888 or 2658-2896 Fax: 86-755-2658-2800 e-mail: intl-market@mindray.com mhcheng@mindray.com.cn ray@mindray.com.cn jie.liu@mindray.com.cn jbtang@mindray.com.cn Internet: www.mindray.com.cn
Beijing:	Phone: 86-10-6833-2021 Fax: 86-10-6834-6086
Local Contacts:	Mr. Hang Xu – Chairman and CEO Mr. Minghe Cheng - VP of Strategic Development Mr. Jie Liu – Chief Operating Officer Mr. Ray Xiang – International Marketing Department Mr. Tang Jingbo – Director, Laboratory Products Mr. Wang Jin Zhao - Sales, Beijing
Staff:	• Company Total:3,700 (worldwide)
Products Manufactured:	Hematology and chemistry systems, urine strip readers, EIA readers
Comments:	<p>Shenzhen Mindray Medical Electronics has been in business since 1991 and was listed on the New York Stock Exchange in 2006. They have 29 offices around the country and work through ≈100 distributors. In addition to making patient monitors and medical imaging systems, they manufacture full line of hematology analyzers, including the 5-part differential BC-5500 and three 3-part differential instruments, the BC-3200, BC-3000Plus and the BC-2800. They also make a semi-automated cell counter, the BC-2300.</p> <p>In July of 2003, they introduced their BS-300, an automated chemistry instrument and in 2006 added the BS-200 (the numbers refer to their throughput). Since then they have added the BS-400 and the BS-120. They also make a semi-automated chemistry instrument, the BA-88.</p> <p>Their sales in 2007 were \$306 million and net income was \$92 million. Mindray has distributors in nearly every major international market. In 2006 their export sales exceeded their sales in China.</p>

We also have pages like this on chemistry, immunochemistry & NAT markets.

SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Market Total; Hematology

Sales in hematology appear to be:

Hematology Instrument	Units Placed	Units Rented	Units Sold	Average Unit Price		Total Market	
				in RMB	in US \$	in RMB	in US \$
5-Part Diff Systems	1,500	200	1,300	292,400	\$43,000	380,120,000	\$55,900,000
3-Part Diff-Imported	3,300	0	3,300	102,000	\$15,000	336,600,000	\$49,500,000
3-Part Diff-Domestic	4,700	0	4,700	68,000	\$10,000	319,600,000	\$47,000,000
Semi-Auto Systems	700	0	700	20,400	\$3,000	14,280,000	\$2,100,000
Instrument Total	10,200	200	10,000			1,050,600,000	\$154,500,000
Hematology Reagents						530,400,000	\$78,000,000
Exchange Rate	6.80						
Hematology Total						1,581,000,000	\$232,500,000

Adding in flow cytometry and coagulation total sales for this market segment appear to be:

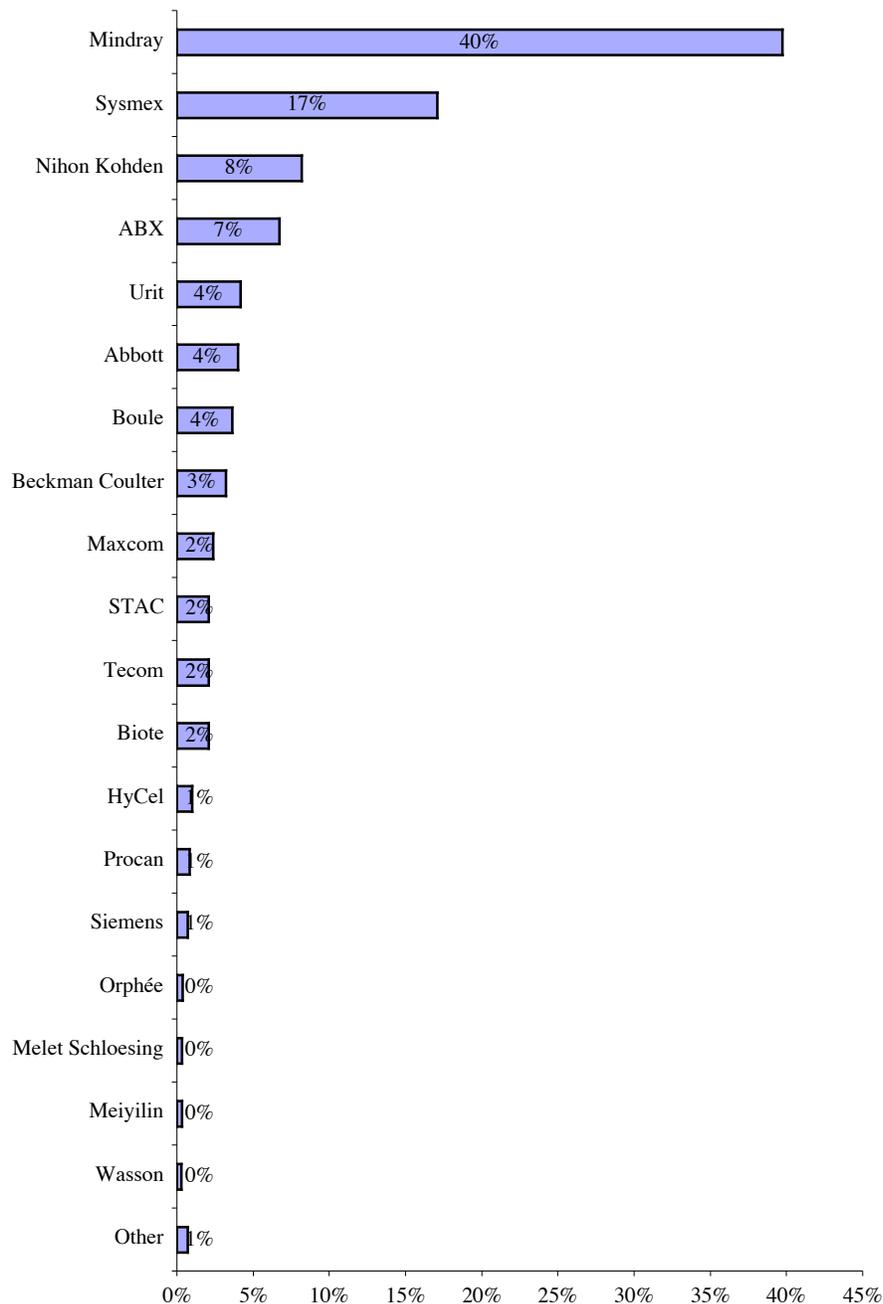
Hematology Segment:	Market Value in RMB	Market Value in US \$
Hematology (from above)	1,581,000,000	\$232,500,000
Flow Cytometry	79,900,000	\$11,750,000
Coagulation	461,720,000	\$67,900,000
Total	2,122,620,000	\$312,150,000
Exchange Rate	6.80	

We also have pages like this on chemistry, immunochemistry & NAT markets.

SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Instrument Market Shares

The market leaders in all automated hematology instrumentation appear to be:



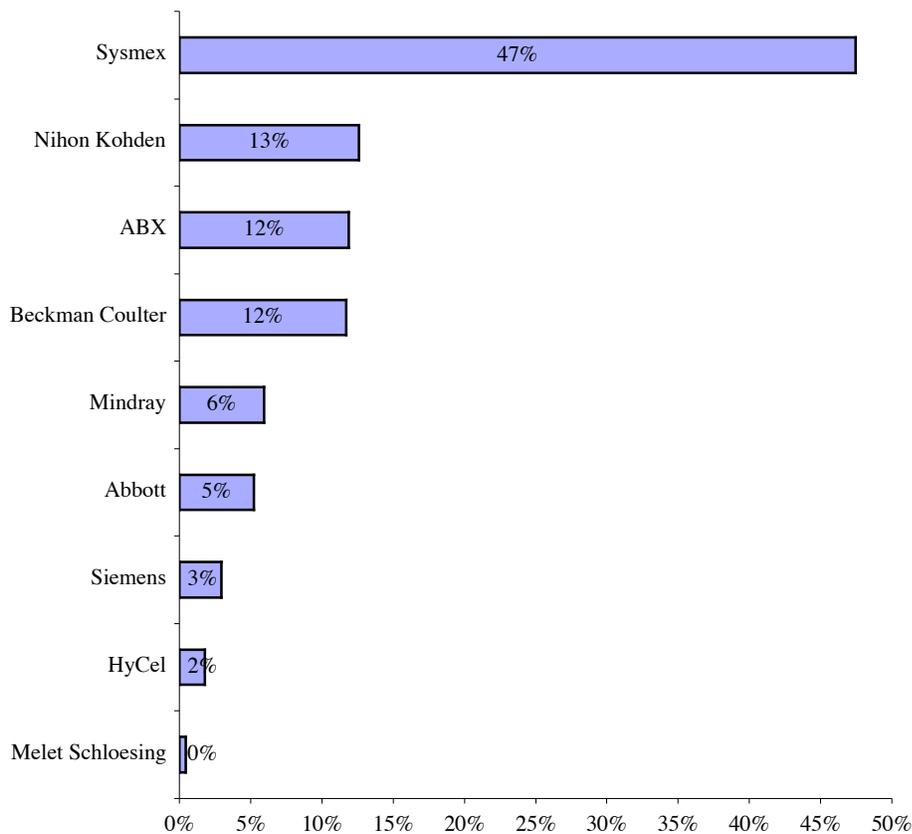
Over half of China's hematology analyzers come from local manufacturers. This is a slight increase from the just under half which were locally made when we did our 2006 report.

We also have pages like this on chemistry, immunochemistry & NAT markets.

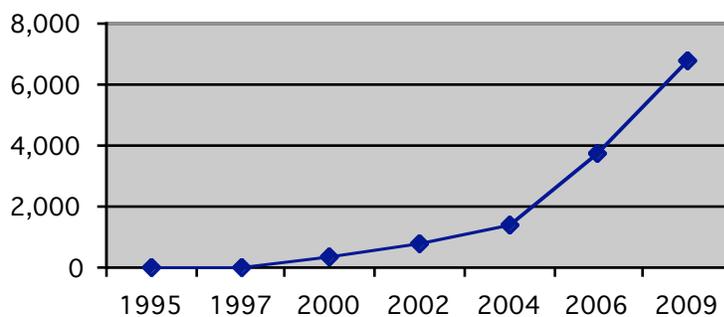
SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Instrument Market Shares

The market leaders in automated 5-part differential hematology instrumentation appear to be:



Over the years that we have been reporting on the market in China, the installed base of 5-part differential systems in China has grown from ≈ 30 in 1997 to the current level of just over 6,700.

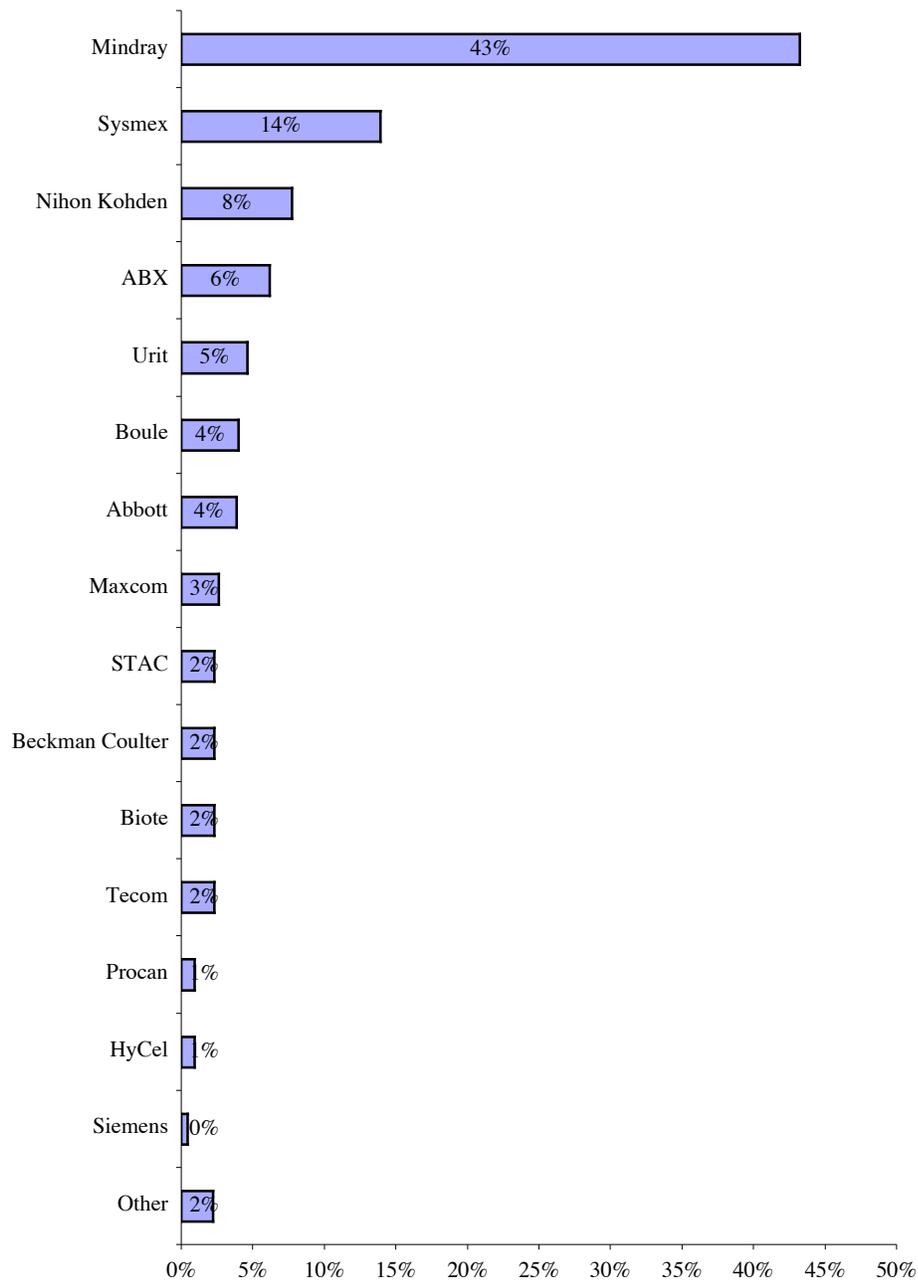


We also have pages like this on chemistry, immunochemistry & NAT markets.

SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Instrument Market Shares

The market leaders in automated 3-part differential hematology instrumentation appear to be:



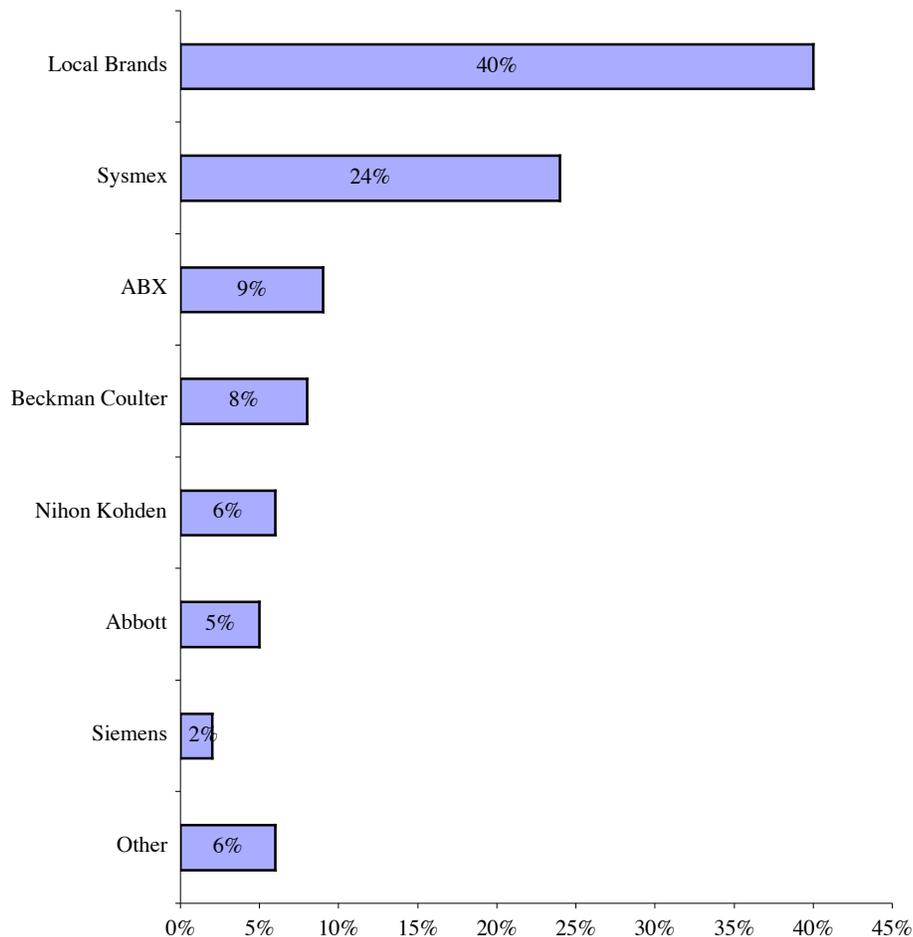
Mindray is the most common 3-part differential cell counter in China, with 40-45% of the total systems placed in the country.

We also have pages like this on chemistry, immunochemistry & NAT markets.

SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Reagent Market Shares

The market leaders in hematology reagents appear to be:



By value, a little over a third of the hematology reagents consumed in China are from local suppliers. The other two thirds are foreign brands, but most of these reagents are made in China. Most of the key hematology companies make their 3-part differential reagents locally and import the 5-part differential products.

◇ ◇ ◇

The installed base of automated hematology instrumentation in China is listed below.

We also have pages like this on chemistry, immunochemistry & NAT markets.

SECTOR ANALYSIS: HEMATOLOGY AND COAGULATION

Automated Hematology Instrumentation

Instrument	Total	5 Part Diff	3 Part Diff
Country Totals			
• Automated Systems	≈71,473	≈6,743	≈64,730
Mindray			
• BC-5500/5300/5380	≈400	400	
• BC-3200/3000/2800	<u>≈28,000</u>		28000
Total	≈28,400		
Sysmex			
• 5 part differential systems	≈3,200	3200	
• 3 part differential systems	<u>≈9,000</u>		9000
Total	≈12,200		
Nihon Kohden			
• Celltac F/E	≈850	850	
• 3-Diff Systems	<u>≈5,000</u>		5000
Total	≈5,850		
ABX			
• Pentra 120/80/60	≈800	800	
• Micros/MCRP	<u>≈4,000</u>		4000
Total	≈4,800		
Urit Medical (Guilin Medical)			
• Botest 3100/Urit 3000 Series	≈3,000		3000
Abbott			
• Cell-Dyn Sapphire	≈3	3	
• Cell-Dyn 3000 series	≈350	350	
• Cell-Dyn 1800 to 1200	<u>≈2,500</u>		2500
Total	≈2,853	353	
Boule/Medonic/Swelab			
• Swelab AC 970/920 EO	≈1,800		1800
• Medonic CA 620/530	<u>≈800</u>		<u>800</u>
Total	≈2,600		2600
Beckman Coulter			
• LH 700 Series	≈100	100	
• LH 500 Series	≈10	10	
• HmX	≈130	130	
• Gen•S	≈50	50	
• Other 5 Diff	≈500	500	
• 3 Diff Systems	<u>≈1,500</u>		1500
Total	≈2,290	790	
Maxcom			
• MC-600/300	≈1,700		1700

