#### Sample Distribution Module

Sample loading/offloading

Support 2 sample baskets in use simultaneously; up to 300 samples can be loaded or offloaded each time, buffer area contains 290 sample positions

Loading Design Continuous sample loading and offloading; prior delivery for STAT samples

**Distribution Speed** Up to 100 racks/hour

Sample tube Height: 68.5-100mm Diameter: 12-16mm

Cuvette φ14X25mm, 0.5ml & 14X25mm, 2ml, or φ12X37mm, 2ml

#### Chemistry Module

2000 tests/hour Throughput Measuring Principles Colorimetry, Turbidimetry and ISE method Methodology End-point, Fix-time, Kinetic, optional ISE Reagent Carousel 140 positions, refrigerated compartment Onboard chemistries Chemistry: 67; ISE: 3; Serum Index: 3 Reagent Volume 10-200µl, with increment of 0.5µl Sample Carousel 140 sample positions

Sample Volume Chemistry: 1.5-25µl, with increment of 0.1µ l; ISE: 22µl Reaction Volume 80µl-200µl Clot Detection Yes

#### Immunology Module

Throughput	Up to 480 tests/hour			
Principle	Chemiluminescence Immunoassay based on			
	enhanced ALP-AMPPD method			
Reagent Disk	36 reagent positions, continuous loading,			
	real-time mixing for magnetic particles			
Reagents Volume Immunology reagent: 20-135µl, with				
increment of 1µl				
Sample diluent	10-200μl, with increment of 1μl			
Reagent pack	50 tests/pack, 100 tests/pack			
Sample Volume	10-200μl, with increment of 1μl			
Sample/Reagent	Probe Steel Probe, liquid level detection,			
	clot detection, collision protection			

#### Dimension

800mm\*1165mm\*930mm (W\*D\*H) SDM 1580mm\*1165mm\*1445mm (W\*D\*H) Chemistry Module Immunology Module 1445mm\*1165mm\*1145mm (W\*D\*H)

#### Weight

Total Weight 1380 kg

7300VA

Power Total Power

### **SAL 9000** Serum Automation Modular System



### www.mindray.com

P/N: ENG-SAL 9000-210285x12P-20190428 ©2017 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved.





### **SAL 9000** New Generation of Serum Analysis Line

Mindray aims to provide one total solution for clinical lab to make In-vitro Diagnostics more automatic and intelligent. This year, with years of investment and research, Mindray launch the new generation of Serum Automation Line, SAL 9000.

SAL 9000 Automatic Modular System delivers high throughput by integrating Mindray's CL-6000i Chemiluminescence Immunoassay System, BS-2000 Chemistry Modular System and new sample processing module SPL 2000. With patented automatic serum analysis design, SAL 9000 not only helps you optimize the management of lab space and manpower, it also offers highly reliable test results.

### Promote the zooming of laboratory efficiency





Integrated laboratory space High-efficiency chemistry Reliable and & immunoassay modules authentic test results





operation training





Smart and easy-operating system

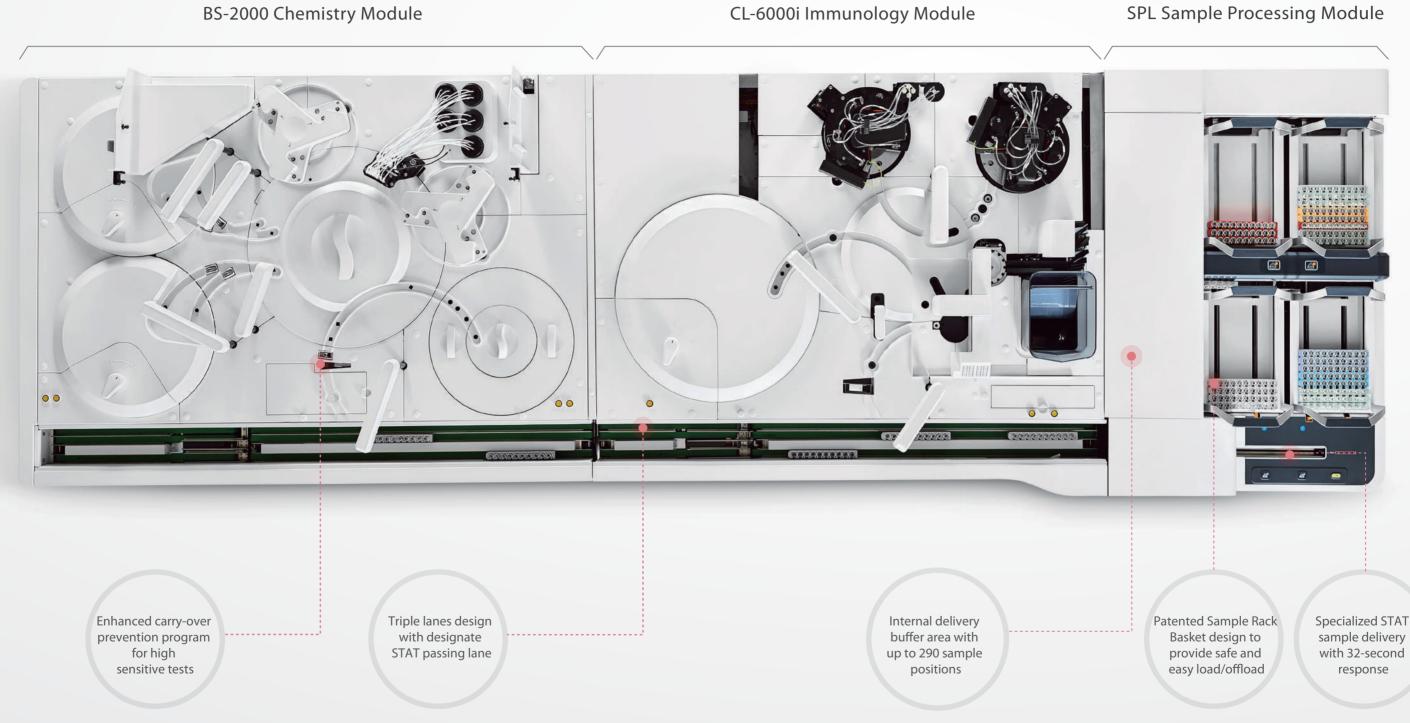
High-throughput chemistry and immunology modules for efficient assay

Efficiency

Reliability

Ingenious and comprehensive test system provides reliable and accurate results

## Intelligent Modules Integration



BS-2000 Chemistry Module

### SPL Sample Processing Module

### **Powerful SPL Sample Distribution Module**

- Patented double-layer & basket delivery design, up to 600 sample positions
- · Continuously loading of single or multiple samples
- · Independent STAT lane, 32s quick response
- · Intelligent samples distribution for maximum module efficiency



### CL-6000i Immunology Model

- High throughput of 480tests/hour, first result in 17 minutes
- · 36 reagents positions with continuously loading/offloading
- · Uniquely designed buffer disk to reduce cuvette jam
- · Fully automated maintenance, lighten the workload
- · Precise 4-phase magnetic separation



### **BS-2000 Chemistry Module**

- · Constant test speed of 2000T/H
- · 140 reagent positions with continuously loading/offloading
- Refrigerated sample carousel, 140 sample positions
- · Intelligent real-time monitoring system
- Complete traceability detecting system



• STAT sample delivery, 32s quick response

### Integrated Serum Analysis Line

- · Simplify laboratory flow
- · Reduce turn-around time
- Improve laboratory efficiency and optimize manpower allocation
- · Reduce manual error rate



### Fit the clinical usage

- Patented design of sample basket to ensure safe transportation
- Up to 300 samples can be loaded and offloaded simultaneously



Flexible sample delivery, no limitation of sample amount





### Reliable Test Result Based on Unique Design

• Wiper washing technology, enhance efficiency and minimize carryover

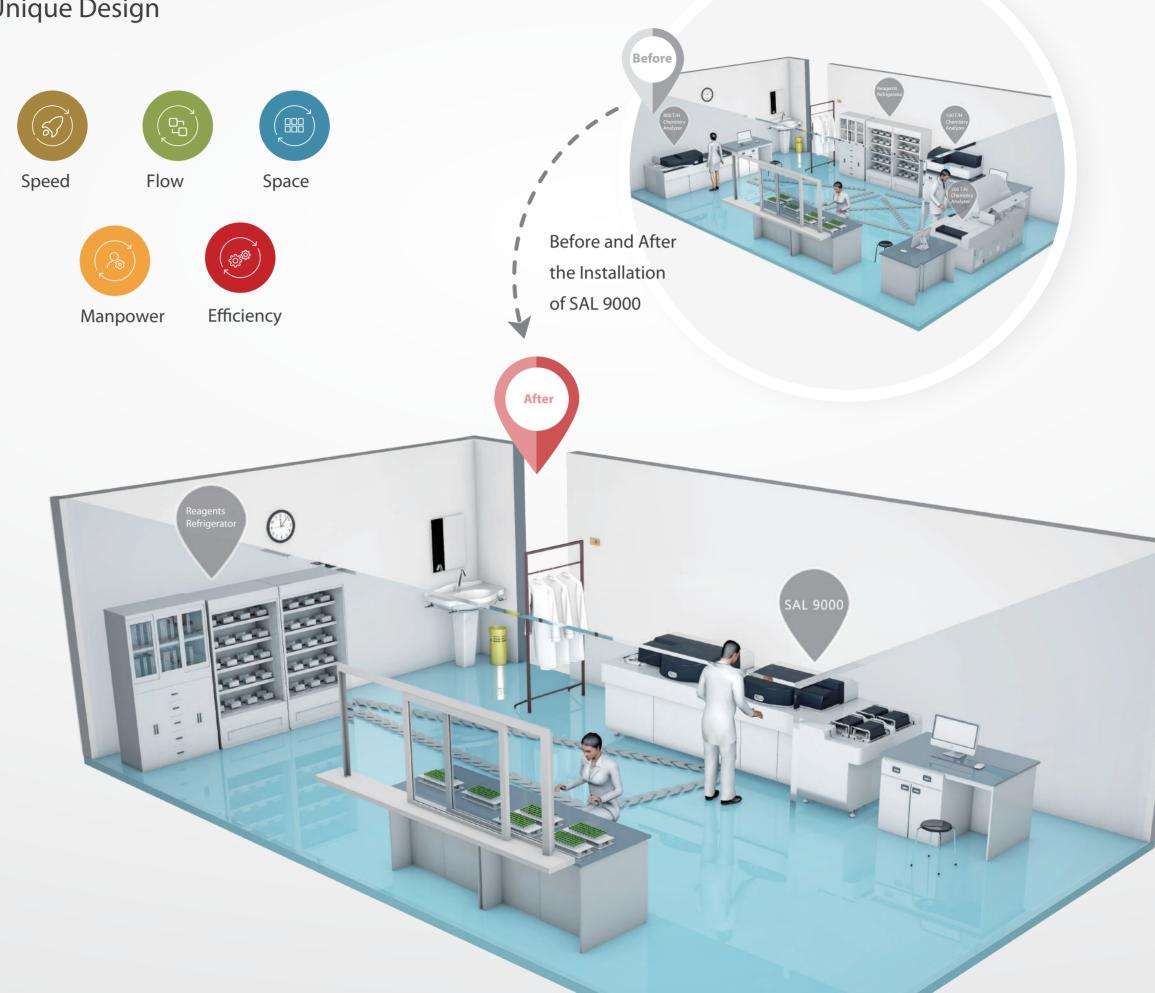


• Priority for high sensitive tests, reduce cross contamination



Comprehensive test system, provide accurate result





### **Flexible Combination**

### SAL 9000 provides serum analysis with ultra high throughput

By integrating BS-2000 and CL-6000i, Mindray offers what you want

### Update to SAL 9000

For current BS-2000 or CL-6000i customer, directly upgrading to SAL 9000 is available

### **SAL Family**

Mindray provides SAL 6000 and SAL 9000, covers the daily need of different customers



### Test Menu

Hepatic Panel	Electrolyte	Anem
Chemistry ALT AST GGT ALP TP ALB BIL-T BIL-D TBA CHE	Chemistry K Na Cl Ca Mg P Fe	Chemis FER UIBC TRF G6PD Immun Ferritin Vitamir Folate RBC Fo
PA AFU	Fertility	Bone
Immunology HBsAg Anti-HBs HBeAg Anti-HBe Anti-HBc Anti-HCV HBeAg quantitative* Anti-HBc IgM* PIIINP CIV LN HA	Immunology Total β-HCG FSH LH Prolactin E2 E3 TESTO PROG Free testosterone* 17-OH PROG* SHBG* AMH*	Immun Intact P Calcitor Vitamir

Renal Panel	Lipid & Cardiac Panel	Tumor
Chemistry	Chemistry	Chemist
UREA	TG	AFU
UA	ТС	
Crea	LDL-C	Immuno
CO2	HDL-C	CEA
Cys-C	ApoA1	AFP
MALB	АроВ	CA125
RBP	Lp(a)	CA15-3
β2-MG	HS-CRP	CA19-9
TPUC	LDH	FPSA
Immunology	a-HBDH	TPSA
ACTH	СК	NSE
DHEA-S	CK-MB	CYFRA 2
Cortisol	MYO	CA72-4
	D-Dimer	PGI
		PGII
	Immunology	SCCA
	CK-MB	HE4
	Myoglobin	ProGRP
	Troponin I	CA50
	BNP	CA242
	Renin	
	Aldosterone	

istry

inology n

in B12 olate

### Metabolic

inology PTH onin in D total

#### nia Panel

### Thyroid

Diabetes

Chemistry

Immunology

Glu

HbA1C

β-ΗΒ

FUN

Insulin

C-peptide

Immunology FT3 FT4 T3 T4 TSH Anti-TG Anti-TPO Тg rT3 TRAB\*

#### or Marker

istry

inology

A 21-1

# ۶Þ

### ToRCH

Immunology Toxo lgG\* Toxo lgM\* Rubella IgG\* Rubella IgM\* CMV lgG\* CMV IgM\* HSV-1/2 lgG\* HSV-1/2 lgM\* HSV-1 lgG\* HSV-1 lgM\*

### Inflammation Panel

Chemistry RF ASO CRP C3 C4 IqA lgG IgМ lgE

Immunology PCT

### Others

Chemistry AMY LIP ADA ACE

Immunology HIV Combo Anti-TP (Syphilis) Angiotension I\* Angiotension II\* PAPP-A\* Free β-HCG\* hGH\* IGF-1\*

\* Under development

