

Metis 6000

Modular System

Integrated Clinical Chemistry and Immunochemistry

Unlock Efficiency Optimize Space



■ Immunochemistry Module: **400**_{T/H}

Time for the First Result: **10**_{min}

■ Flexible Expansion— Flexible Combination for **1-4**
Clinical Chemistry/Chemiluminescence Immunoassay Analyzer



Metis 6000

Automated Clinical Chemistry
& Immunochemistry Modular System

Getein is an *in-vitro* diagnostic company listed on the main board of SSE, which has more than 20 years of experience in R&D, production, sales and service of *in-vitro* diagnostic reagents and instruments. Our business has spread to more than 120 countries and regions around the world.

In order to meet the needs of clinical laboratories for automation, informatization, and intelligent solutions, after continuous research and development, Getein grandly launched a new generation of automation solution-Metis 6000, a modular system that integrates clinical chemistry and immunochemistry with small footprint and flexibility.

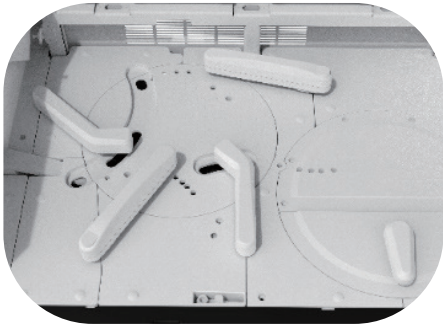
- Clinical Chemistry Module: **1000**_{T/H}, ISE **400**_{T/H} (Optional)
- Centrifuge and Decapper Module: **320**_{samples/H}
- The Dual Combination System Occupies only **2.6**_{m²}



Compact

Flexible

Bring convenience through
Modular Systems for Clinical Laboratories



Immunochemistry Module MAGICL 6200

Using Acridinium Ester Direct Chemiluminescence technology

Throughput: up to 400 T/H

Time for the first sample result is 10 minutes

With 30 reagent positions, support continuous reagents loading

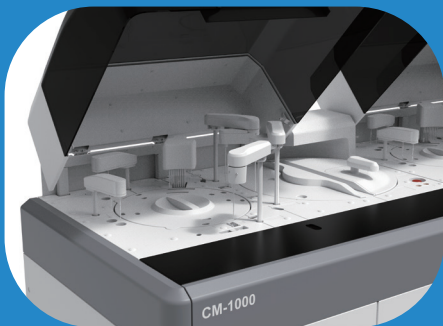
RFID recognition technology, dynamic monitoring of reagent status

Clinical Chemistry Reagents Loading System

Design for dual tray—

63 reagent positions for outer tray

40 reagent positions for inner tray



Clinical Chemistry Module CM-1000

Constant throughput: up to 1000 T/H

ISE module(optional): up to 400 T/H

270 cuvettes

Simultaneous sample addition, mixing, cleaning and testing on both the inner and outer reaction trays

Reaction tray rotates in cycles, increasing efficiency

SHC 200 Pre-analytical Module (Optional) Automatic Centrifuge and Decapper

Throughput: 320 samples/H

Identify sample tube status, decap the tubes if necessary

Automatic weight adjustment and leveling during centrifugation

Sample Management Module

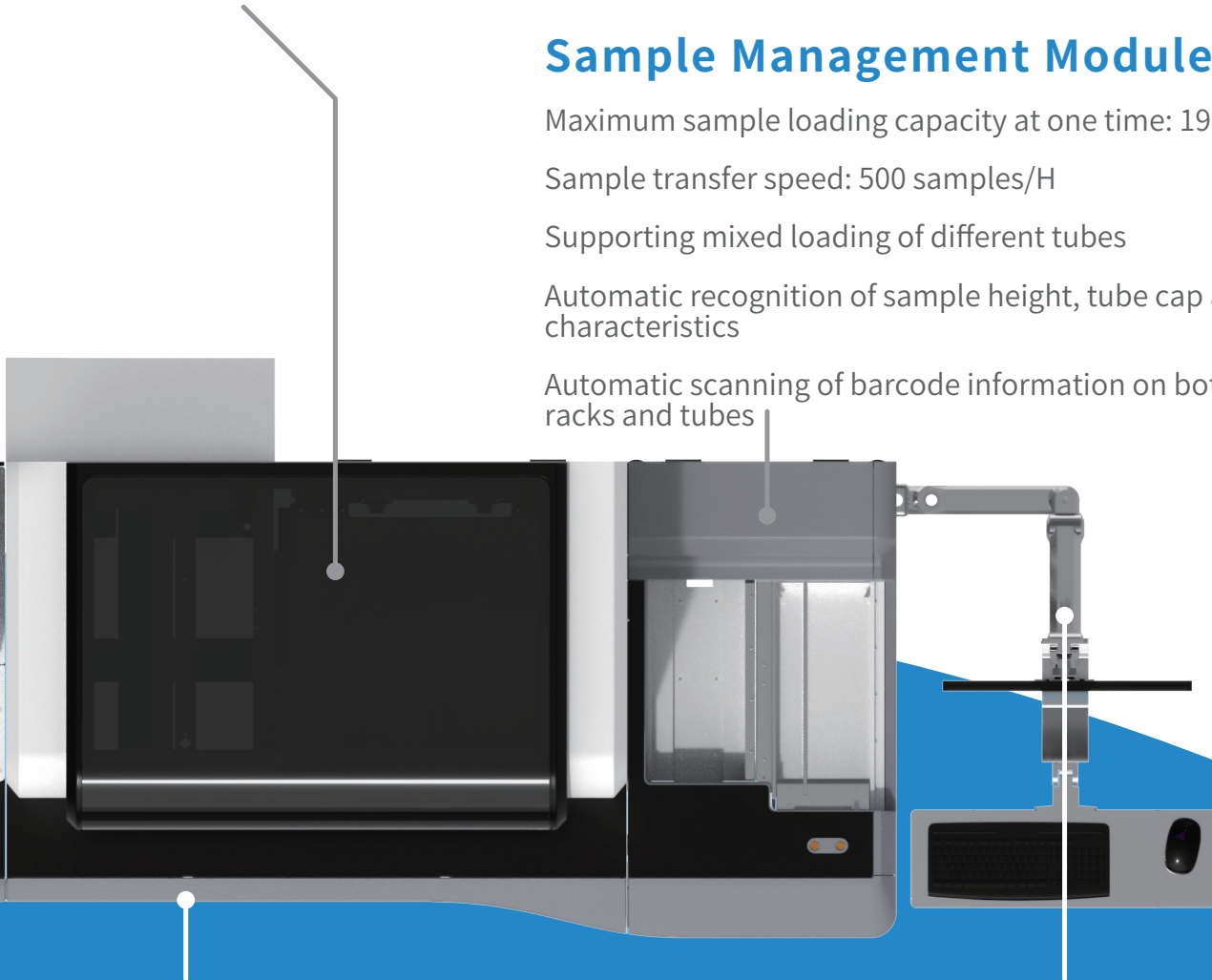
Maximum sample loading capacity at one time: 190 samples

Sample transfer speed: 500 samples/H

Supporting mixed loading of different tubes

Automatic recognition of sample height, tube cap and other characteristics

Automatic scanning of barcode information on both sample racks and tubes



Sample Supply Unit

3 operating tracks:

regular/emergency/return

Independent emergency track with emergency priority insertion function, fulfilling emergency demands

Intelligent Software System

Diversified test modes

Support automatic dilution and retest function

Real-time detection of instrument consumables and other conditions

Exclusive patent: intelligent task dispatching system



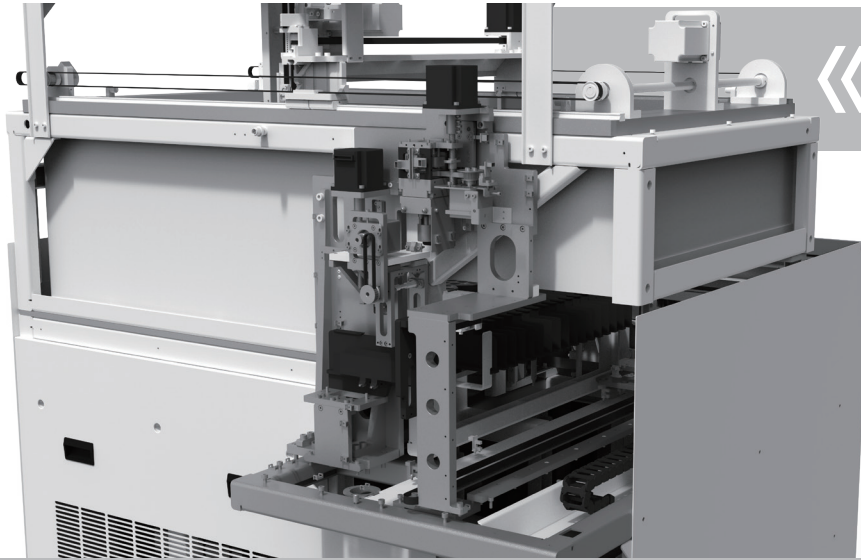
SHC 200 Pre-analytical Module (Optional)



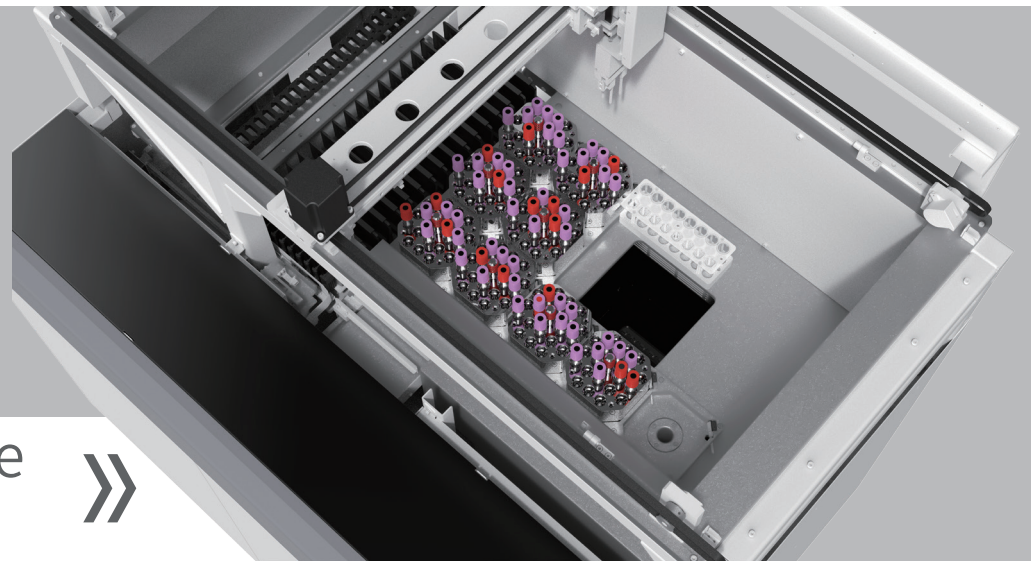
Automatic tube decapping and cap disposal with throughput of 320 samples/h

Automatic warning of full waste cap container

Support decapping samples without centrifugation



« Decapper
Module



Centrifuge
Module »

Automated sample centrifugation, throughput is up to 320 samples/h

Automated weight adjustment without manual leveling

Equipped with refrigerated function

Centrifugation time, speed and temperature can be set according to needs

Modular Design, Flexible Consolidation, Sample Tracks Transportation

Flexible Combination

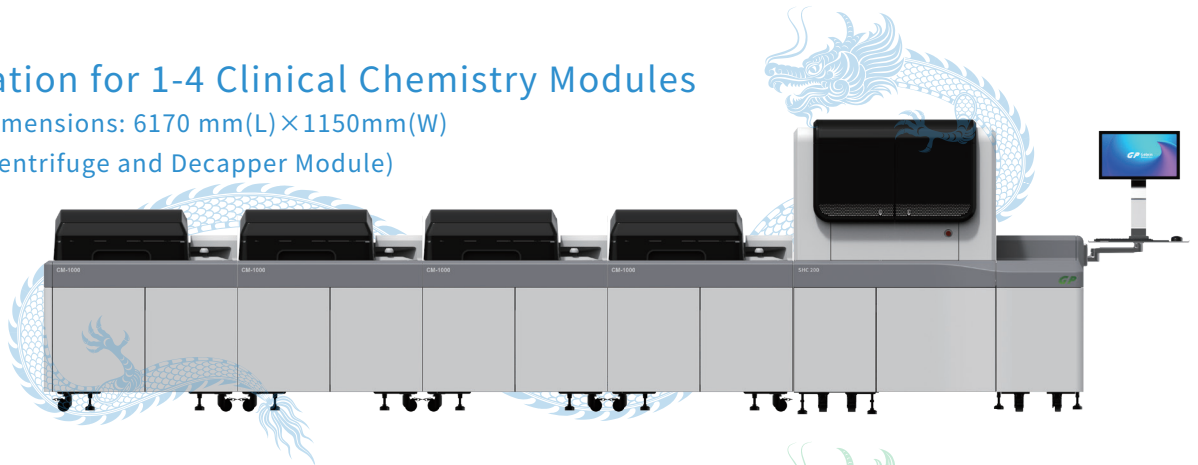
Clinical Chemistry Module + Immunochemistry Module

Dimensions: 3970 mm(L) × 1150 mm(W)
(Including Centrifuge and Decapper Module)



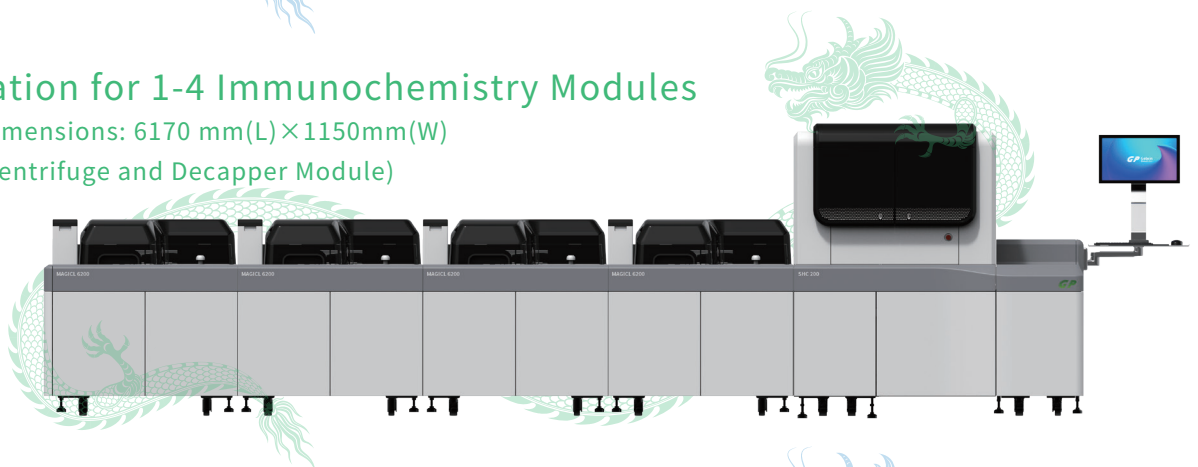
Combination for 1-4 Clinical Chemistry Modules

Maximum Dimensions: 6170 mm(L) × 1150 mm(W)
(Including Centrifuge and Decapper Module)



Combination for 1-4 Immunochemistry Modules

Maximum Dimensions: 6170 mm(L) × 1150 mm(W)
(Including Centrifuge and Decapper Module)



Free Combination of Multiple Modules

Maximum Dimensions: 6170 mm(L) × 1150 mm(W)
(Including Centrifuge and Decapper Module)



Technical Parameters

Sample Management Module Technical Parameters

Integration Number	Up to 4 instruments (CM-1000 Clinical Chemistry Analyzer/ MAGICL 6200 Immunochemistry Analyzer) can be connected
Sample Transfer Speed	500 samples/H
Maximum Sample Loading Capacity	190 samples
Sample Supply Unit	3 operating tracks: regular/emergency/return
Sample Tubes	Supporting 13*75 mm, 13*100 mm sample tubes (including 0.5 mL Hitachi cups)
Features	<ol style="list-style-type: none">1. Automated retesting and real-time emergency test function2. Error prompt3. Automated sample loading and scanning4. Friendly human-computer interaction, automated detection and tubes collection5. Equipped with track covers to prevent contamination throughout the process

Immunochemistry Module Technical Parameters

Model	MAGICL 6200
Test Principle	Acridinium ester direct chemiluminescence
Analysis Method	Sandwich method, competition method
Throughput	Up to 400 T/H
Fastest Time of First Result	10 min
Reagent Tray	Reagent positions: 30 Refrigeration function: internal air circulation refrigeration Temperature: 2-8 °C
Dimensions	1100 mm(L)×930 mm(W)×1200 mm(H)
Sample Volume	5-150 μL (1 μL increment)
Reagent Volume	5-150 μL (1 μL increment)
Loading Method	Loading by track Maximum loading capacity: 190 positions
Preheat Time	Less than 15 min
Reaction Temperature	37±0.5°C, variation range<0.5°C
Reaction Cup	Using mainstream circular reaction cup, up to 2000 pieces can be stored at a time
Magnetic Separation Washing Station	Four-step magnetic separation, four-step washing

Clinical Chemistry Module Technical Parameters

Model	CM-1000
Test Speed	Constant speed: 1000 T/H ISE module (optional): 400 T/H
Cuvettes	Made of quartz glass or plastic (optical path: 5 mm) Cuvettes: 270
Reagent Tray	63 reagent positions for outer tray (20/70 mL) 40 reagent positions for inner tray (20/70 mL) Reagent container capacity: 20 mL, 70 mL Cooling function: compressor cools with antifreeze
Loading Method	Loading by track Maximum loading capacity: 190 positions
Throughput	61 test items at the same time
Dimensions	1100 mm(L)×930 mm(W)×1200 mm(H)
Analysis Assay	Rate method, end point method, and fixed time method
Sample Volume	1.5-50 µL (0.1 µL increment)
Reagent Volume	R1: 10.0-450.0 µL R2/R3/R4: 0 or 10-450.0 µL (0.5 µL increment)
Minimum Reaction Volume	100.0 µL
Metering Method	Optical source: halogen lamp (50 W), life of 2000 hours Optical splitter: grating Detector: photodiode array Cuvettes: 270
Test Principles	Latex particle-enhanced turbidimetric immunoassay/immunoturbidimetry/colorimetry

Centrifuge and Decapper Module Technical Parameters

Model	SHC 200
Dimensions	1200 mm(L)× 1115 mm(W)×1800 mm(H)
Centrifuge Speed	3000 r/min~4000 r/min
Sample Processing Speed	320 samples/H
Combination	Can be integrated with a sample management module and up to 4 clinical chemistry/immunochemistry modules
Loading Track	3 operating tracks: regular/emergency/return
Sample Tubes	Supporting 13*75 mm, 13*100 mm sample tubes
Features	1. Automated sample centrifugation, decapping and cap disposal 2. Support emergency sample testing 3. Support centrifugation without capping of samples 4. Automated weight adjustment 5. Centrifuged samples in refrigerated storage 6. Automatic warning of full waste cap container 7. Equipped with a track cover to prevent contamination throughout the process 8. Real-time monitoring of sample centrifugation and decapping status

Items for Clinical Chemistry Module

Liver Function

TBA	GPDA	CHE
ALT	GLDH	ADA
AST	CG	5' -NT
ALP	ALB	LAP
GGT	TB	MAO
TP	DB	GR
AMM	PA	

Renal Function

UA	CRE-E	mAlb
β_2 -MG	Urea	NAG
CSF	CysC	RBP

Myocardial Enzyme

HBDH	LDH1
CK-MB	CK
CK-MB mass	LDH

Specific Protein and Rheumatism

CCP	C3	IgM
ASO	C4	IgG
RF	IgA	TRF
hs-CRP	CRP	Fer
hs-CRP+CRP		

Blood Lipids and Cardiovascular

TG	ApoB	ACE
TCH	ApoE	Myo
HDL-C	Lp(a)	Lp-PLA2
LDL-C	Hcy	ApoA1
NEFA	IMA	

Tumor

SA	AFU
----	-----

Pancreatitis

LPS	AMY
-----	-----

Trace Elements and Electrolytes

Ca	CO ₂	P
Mg	Fe	Cl
Na	UIBC	K

Gastric Function

PG I	PG II
------	-------

Glycometabolism

HbA1c	GLU-HK	FMN
GA	GLU-OX	D3-H
LAC		

Venous Thromboembolism and Coagulation

D-Dimer

Items for Immunochemistry Module

Note: “**” as coming soon

Cardiac Markers

D-Dimer	ST2	H-FABP
hs-cTnI	BNP	CK-MB
hs-cTnT	Myo	Lp-PLA2
NT-proBNP		

Inflammation

PCT	SAA	HBP
IL-6	CRP	

Bone Metabolism

Osteocalcin	PTH
Calcitonin	25-OH-VD

Tumor Markers

HE4	CA50	fPSA
AFP	CA125	ProGRP
CEA	CA15-3	CYFRA21-1
SCC	CA19-9	PIVKA-II
NSE	CA242	*AFP-L3%
tPSA	CA72-4	

TORCH

CMV IgM	CMV IgG
Rubella IgM	Rubella IgG
Toxo IgM	Toxo IgG
HSV- I IgM	HSV- I IgG
HSV- II IgM	HSV- II IgG

Reproduction/Fertility

AMH	Testosterone	LH
SHBG	free β -HCG	FSH
PAPP-A	Estradiol	PRL
DHEA-S	Progesterone	UE3
β -HCG		

Thyroid Function

T3	Tg	Anti-TPO
T4	TSH	Anti-TSHR
FT3	TMAb	Anti-Tg
FT4		

Infectious Disease

Anti-HBs	Anti-HCV	HBSAg
Anti-HBe	Syphilis	HBeAg
Anti-HBc	HIV Ag/Ab Combo	

Hypertension

Angiotensin I	Cortisol	ACTH
Angiotensin II	Renin	ALD

Diabetes Mellitus

IAA	C-Peptide	Insulin
-----	-----------	---------

Autoimmune

SS-B IgG	dsDNA IgG
JO-1 IgG	SS-A IgG
*AMA-M2	

Liver Fibrosis

LN	CIV
HA	PIIIP N-P
CG	

Thrombus

TAT	TM
FDP	t-PAIC
PIC	

Cytokines

IL-2R	IL-8
IL-10	TNF- α
IL-1 β	

Anemia

Ferritin	Vitamin B12
Folate	

Brain Injury

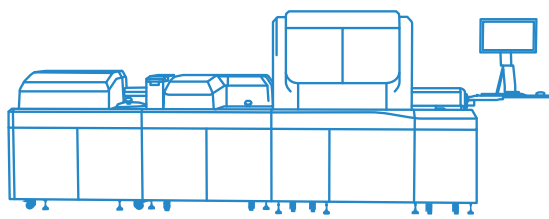
S100

Gastric Function

PG I	PG II	G17
------	-------	-----

Others

IgE	hGH
NGAL	β_2 -MG
IGFBP-3	



Metis 6000

GP Getein Biotech, Inc.

Add.: No.9 Bofu Road, Luhe District, Nanjing, 211505, China

Tel.: +86-25-68568508/68568594

Fax: +86-25-68568500

E-mail: overseas@getein.com.cn; sales@getein.com.cn

Web.: www.getein.com



FSC CE NMPA IVD

