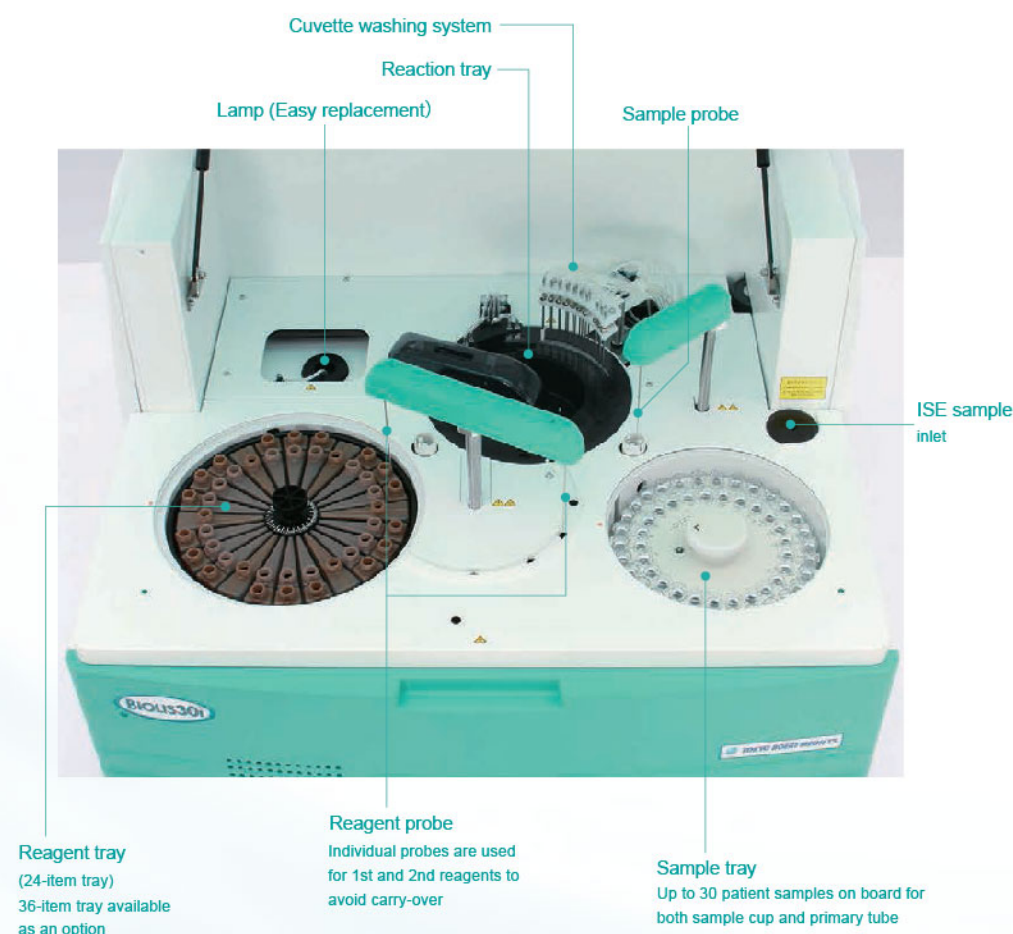


Main unit arrangement



JAPAN QUALITY

TMS Series

LABORATORY SOLUTION

TMS30i

Improved user-friendly interface and test efficiency

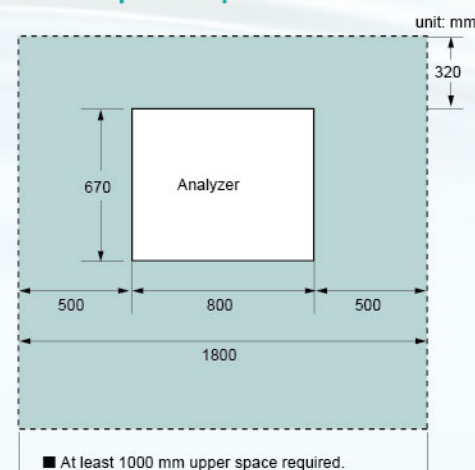
The latest model of TMS series meeting various needs of clinical laboratory tests

Installation

Conditions

Item	Description
Dimensions and Weight	Analyzer W800×D670×H555 (mm) Approx. 95 Kg
Power supply	AC 100/115/220/230 V, 50/60 Hz Voltage fluctuation less than 10%
Power consumption	600 VA
Grounding	Earth resistance of ground terminal should be less than 100 Ω
Ambient temperature	15~30 °C
Humidity	45~85 % (no condensation)
Water consumption	3.8 l/hour
Waste liquid	Separate drainage (low and high density waste)

The space required for installation



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TOKYO BOEKI MEDISYS

Compact & Easy Operability & Excellent Function

Brand new user interface

- Intuitive screen layout with a sense of unity
- Item parameter in one screen relieving the bother of page feeding

Upgraded operability

- Various touch panel operation (swipe-to-select/drag & drop) contributing to better facility of operation
- Enlarged touch buttons for reducing operation errors

Upgraded throughput

- 270 tests/hour (maximum 450 tests/hour with ISE)

Hemolysis of whole blood sample for HbA1c

- Automatic process on board contributing to the test efficiency

Automatic sample clot detection

- Automatic detection & clean-up of sample probe clots (such as fibrin)

Crash prevention

- Prevent reagent & sample probes from crash during operation for safety

Automatic startup and shutdown

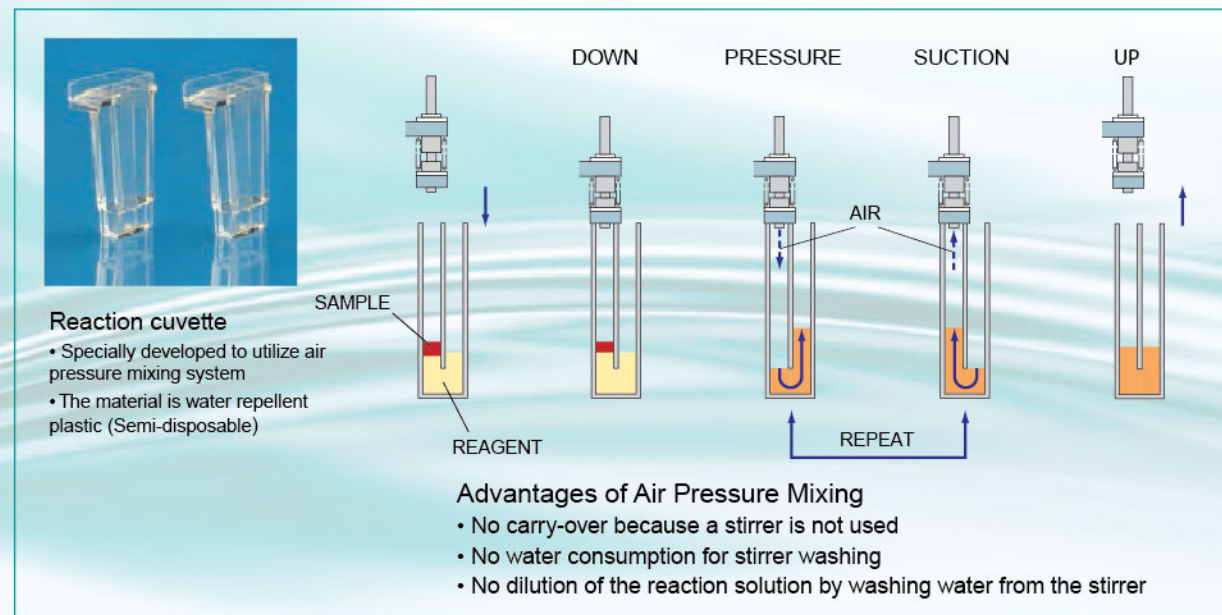
- Stress-free operation by cutting waiting time

Ethernet connections

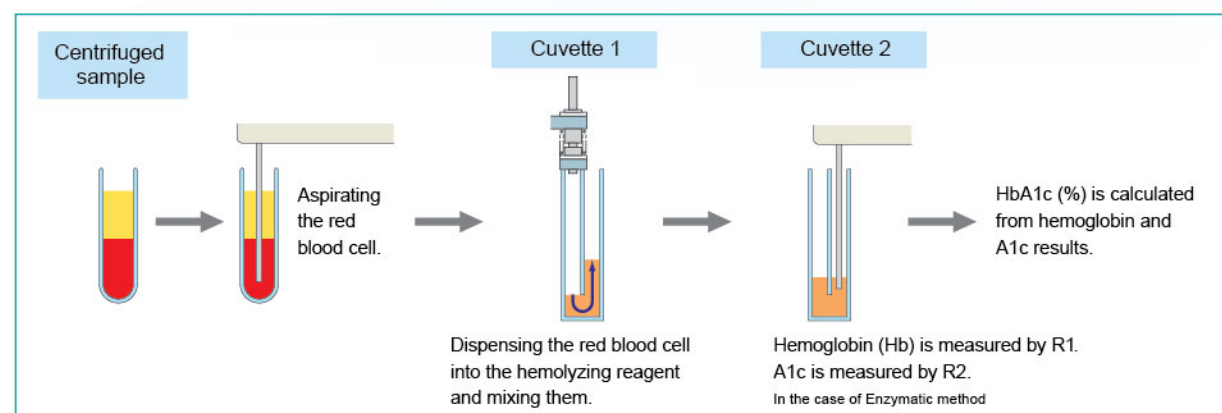
- Ethernet connections between machine and operation PC for higher-speed and more stable communication

Air pressure mixing system

Our original system for mixing the sample and reagent using air pressure alone.



HbA1c sample preparation and measurement



Specifications

Analysis	System	Discrete single line random access multi-test analysis
	Number of test items on board	36+3 (ISE) or 24+3 (ISE)
	Throughput	270 tests/hour, 450 tests/hour including ISE, 90 tests/hour for HbA1c only
	Analysis method	End point, Rate, ISE
Sample	Calibration curve	8 kinds (linear, spline, etc.)
	Sample kind	Serum, Plasma, Blood cell, Urine, Dialysis, CSF (ISE not available for CSF and Blood cell)
	Sample container	Sample cups, primary tube (5, 7, 10 ml)
	Number of samples on board	Software tray (30 positions for patient sample, and 45 positions for standard and blank sample)
	Sample tray mode (software tray)	Selectable modes for patient sample, calibration, and QC
	Sample dispensing volume	2.0 ~ 25.0 μ l (0.1 μ l step)
	Dilution ratio	0.5 ~ 100 times
Reagent	STAT	Available during measurement (step between samples by priority)
	Reagent tray	36 items or 24 items (removable)
	Number of bottles on board	72 (36 items) or 48 (24 items)
	Bottle size	36 items: 13, 25, 40 ml 24 items: 20, 40, 60 ml
	Reagent dispensing volume	R1: 140 ~ 300 μ l (1 μ l step), R2: 20 ~ 260 μ l (1 μ l step)
Reaction	Reagent storage	24 hours cooling
	Reagent volume check	Level sensing or count down
	Cuvette material	Plastics (semi-disposable)
	Reaction volume	140 μ l ~ 400 μ l
	Reaction time	Approx 10 min. (1st reaction 5 min., 2nd reaction 5 min.)
	Reaction temperature	37 \pm 0.1 $^{\circ}$ C
	Optical measurements	Fixed 13 wavelengths (340 ~ 800 nm)
	Optical source	Tungsten halogen lamp
	Optical range	OD 0 ~ 2.5
	Cuvette washing	Auto washing with heated water and 2 kinds of washing solutions
Interface	Reaction waste collection	Reaction waste stored in a dedicated tank
	Pure water consumption	3.8 l/hour
	Operation	Personal computer
	OS	Windows 10
	Reaction monitor	Optical absorbance graphic display
Option	Quality control	Current, Daily and Cumulative QC, Westgard algorithms
	Output	Ethernet connection
Option	ISE module	
	Sample barcode reader, Reagent barcode reader	

*Specifications are subject to change without notice.

Test Items List

Clinical chemistry	LD (LDH)	AST (GOT)	ALT (GPT)	ALP	γ -GTP	CK (CPK)	CK-MB
	ChE	AMY	P-AMY	LAP	CRE	UA	BUN
	Cys-C	TG	T-CHO	HDL-C	LDL-C	TP	ALB
	IP	Mg	Ca	Fe	UIBC	Zn	Cu
	GLU	HbA1c	1,5-AG	GA	μ TP	μ ALB	IRI
	L-FABP	T-BIL	D-BIL	TTT	ZTT	NH3	*NEFA
	*PL	*SIA	*Fer	*Li			
Coagulation	*ATIII	*FDP	*D-dimer				
Immuno-assay	CRP	RF	TPAb	RPR	*IgG	*IgA	*IgM
	*IgE	MMP-3					
TDM	VCM	ABK	TPM	MTX	EVER	TACR	BRP
	CBZ	DIG	HAL	PB	PHT	THEO	VPA
ISE	Na ⁺	K ⁺	Cl ⁻				

*Above includes test items under verification.