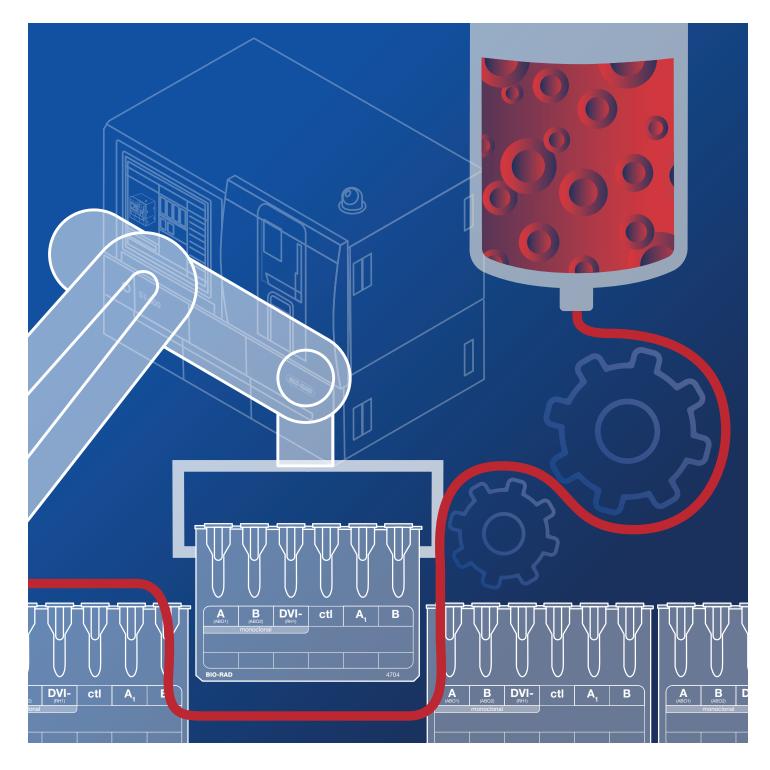
IH-500 Fully Automated System for ID-Cards





IH-500 System

Innovation Driven by Experience

Bio-Rad is one of the world's most respected suppliers of blood screening systems.

We have been serving blood banks and transfusion centers across the world for more than 30 years, consistently developing and delivering high-performance and reliable systems designed to satisfy your needs.

We know our future – and that of our customers – depends on our ability to search beyond today's solutions.

We will continue to invest in innovation that lies at the heart of our commitment: helping you to provide your services as efficiently and effectively as possible.



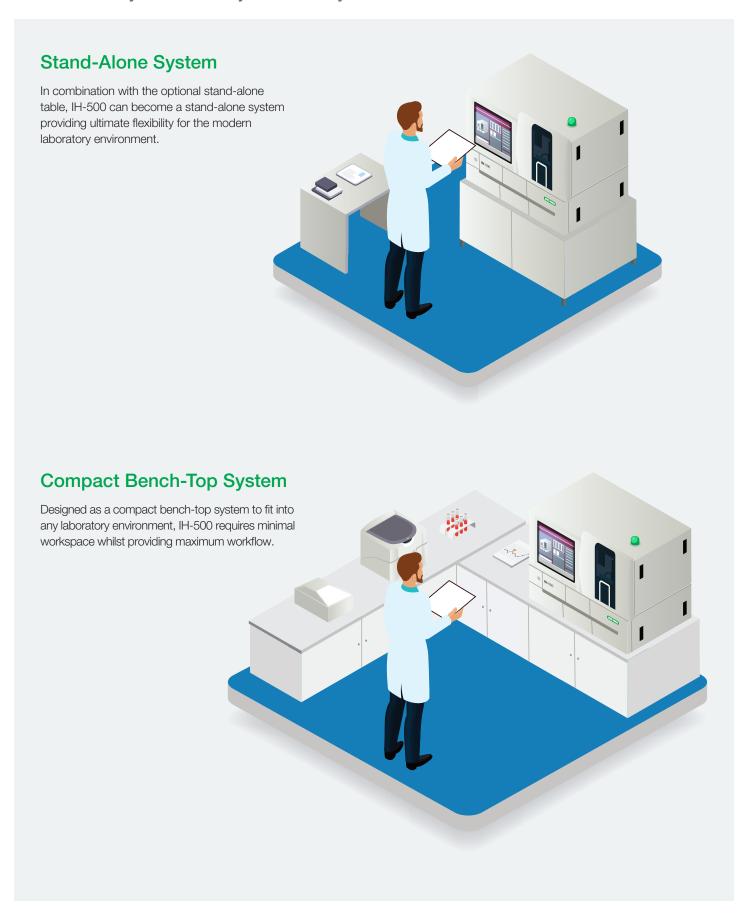
The IH-500 Fully Automated System - Developed Together with our Customers



ID-Diluent piercing

- Fully automated QC Monitoring system
 - ☐ Increased result reliability
- Optimized scheduling of emergency samples (STAT)
 - → Faster time to result
- 7 day on-board reagent stability
 - → 24/7 availability
- Automated antibody titration
- Intelligent reagent identification system
- → Improved traceability
- Well by well processing of ID-Cards
 - → Reduced wastage and cost
- Waste management
 - → Operator safety

The IH-500 System fits any Laboratory Environment



Innovation

- 6-axis industrial robot
- Maintenance free transport technology

Improved Traceability

- Internal storage for up to 164 ID-Cards
- Single ID-Card tracking for more flexibility during ID-Card loading
- 100% traceability

Continuous Loading

- · Continuous sample and reagent vials loading
- Independent loading and pipetting areas

Flexibility

- Stand-alone table (optional) with customizable configuration
- Flexible multi-purpose loading dock

Reduced Hands-on Time

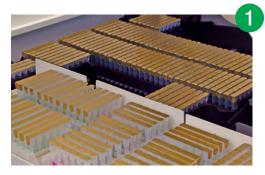
- Automated workflow
- Automatic waste management system

Safety & Reliability

- Intelligent liquid identification system
- Well by well processing for less ID-Card waste

Easy to Use

- Integrated keyboard for convenient data input
- Integrated PC and 19" touchscreen monitor



Internal storage of ID-Cards



Drawer for flexible loading



Tray for reagent vials



Internal solid waste container



Keyboard for manual data entry







4-color status light



Reagent storage and pipetting area



ID-Card transport holder



Incubator at 37°C



Fluidic area

24/7 Ready to Start Availability

- 4-color status light
- More than 200 tests available

7 Day On-Board Reagent Stability

- Temperature controlled storage area
- New active cooling technology

Throughput Optimization

- Faster time to result
- Optimized scheduling of emergency samples (STAT)
- On-board priority updates
- Flexible ID-Card management for optimized throughput

Walk-Away

- Loading capacity for 50 samples
- Internal storage for 34 liquid reagent vials
- Management of 4 ID-Diluent racks in parallel

Active QC Monitoring

- Automatic check for reagent lot QC status during the loading process
- Automatic check for instrument QC status prior to each sample processing

Reduced Training & Maintenance

- Easy to learn standardized Bio-Rad user interface
- No daily maintenance (only weekly)
- No-interruption process for system liquid refilling and liquid waste emptying
- Optional direct connection to laboratory drainage



Assay and Sample Oriented Mode

Perform the tests sample by sample or prioritize a specific test which result will be delivered first throughout a multitude of samples.

Single ID-Card Tracking

Properly load the ID-Cards in any direction and any order. The IH-500 System adapts, stores, and indexes.

Carry over Prevention Greater than 1:32,000

One of the highest carry-over prevention in the immunhematology automation.

7 Day On-Board Reagent Stability

Through active cooling of the reagent storage area, IH-500 can ensure a 7 day on-board stability for reagents.

On-Board Reagent Management

Ensures the correct on-board time even when a reagent is interchanged between different systems.

Immediate STAT Handling

A designated STAT sample will be pipetted and processed immediately.

Well by Well Processing

IH-500 is able to handle single wells. This feature reduces the waste of partially used ID-Cards.

Automated Antibody Titration

Perform two-fold dilutions up to 1:2048 and titrate using any reagent registered on the machine.

Instrument QC

IH-500 dedicates an additional QC to the instrument. This is useful when one lot of reagents is used between different systems.



ID-Card piercing



6-axis industrial robot

Innovation Meets Design

Revolutionary Robot Technology

The 6-axis industrial robot provides new possibilities for managing resources. This technology allows for a compact instrument design and optimal use of space.

The innovative motor inside the arm provides a maintenancefree transport component and increases the reliability of the entire instrument.

Flexible Bench-Top System

The IH-500 System combines functionality and design to satisfy the changing needs of a modern immunohematology laboratory. It features a compact bench-top design that together with an optional stand-alone table can flexibly become a stand-alone system.





IH-500

Specifications

opcomoditions -	
Electrical Data	
Voltage	100-230 VAC
Frequency	50/60 Hz
Power consumption	1,550 VA
Environmental Conditions	
Operating temperature	18°C to 28°C
Storage temperature	-20°C to 55°C
Operating humidity	5% to 80% rh
Storage humidity	5% to 80% rh
Altitude maximum	2,000 m
Dimensions	
Width	115 cm
Height	98 cm
Depth	85 cm
Weight	213 kg
Minimal installation depth	60 cm
Capacity	
Samples	50
ID-Cards	164
Reagent vials	34
ID-Diluents	4
Emissions	

1,000 W

max. 65 dB(A)

Main Features

Walk-away

Heat emission

Pollution level

Noise level

- Continuous loading
- 7 day on-board reagent stability
- Immediate STAT handling
- Active QC monitoring
- Well by well processing
- Only one connection to the LIS through IH-Com

Performance*

A, B, AB, D, CDE, ctl	60 samples/h
A, B, AB, D, CDE, ctl + A ₁ , A ₂ , B + C, c, E, e, K, ctl + Ab screening I, II, III	24 samples/h
A, B, DVI-, ctl/A ₁ , B + Ab screening I, II, III	32 samples/h
A, B, DVI-, ctl/A ₁ , B	48 samples/h
Ab screening I, II, III	82 samples/h
Ab screening I, II, III + Autocontrol (AC)	42 samples/h
Ab screening with pooled cells	96 samples/h
A, B, DVI-, ctl/A ₁ , B + Ab screening I, II	36 samples/h
A, B, DVI-, ctl/A ₁ , B + C, c, E, e, K, ctl	48 samples/h
A, B, AB, DVI+, DVI-, ctl + A ₁ , A ₂ , B, O + C, c, E, e, K, ctl + Ab screening I, II, III	24 samples/h

^{*} Performance data may vary depending from the loading sequences and requested sample profiles.

Test Methods

- Blood Grouping ABO/D
- Phenotyping Rh/K
- Antibody Screening
- Direct Antiglobulin Test (DAT)
- Antibody Titration
- Reverse Grouping
- Compatibility Tests
- Antibody Identification
- Single Antigen Testing

Ordering Information

Catalog #	Description
001500	IH-500, Fully Automated System for ID-Cards
0595002	Stand-alone table (optional)
009000	IH-Com Kit Fullversion, Data Management and Result Interpretation Software
12009844	IH-AbID, Integrated Antibody Identification Software
009030	IH-Web, Remote Result Management Software
2000050	BRiCare, Remote Service and Support Software

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Bio-Rad Laboratories, Inc. For further information, please contact the Bio-Rad office nearest you or visit our website at bio-rad.com/diagnostics/immunohematology

Clinical Diagnostics Group Website www.bio-rad.com/diagnostics Australia +61 (2) 9914 2800 Austria +43 (0) 1 877 89 01 9 Belgium +32 (0) 3 710 53 00 Brazil +55 11 3065 7550 Canada +1 514 334 4372 China +86 21 6169 8500 Czech Republic +420 241 431 660 Denmark +45 44 52 10 00 Finland +358 9 804 22 00 France +33 (0)1 47 95 60 00 Germany +49 (0) 89 31884 393 Greece +30 210 7774396 Hong Kong +85 2 2789 3300 Hungary +36 1 459 6190 India +91 124 4029300 Israel +972 03 963 6025 Italy +39 024 94 86 600 Japan +81 3 6361 7070 Korea +82 080 007 7373 Mexico +52 (55) 5488 7670 The Netherlands +31 (0)318 540 666 New Zealand +64 (9)415 2280 Norway +47 23 38 41 30 Poland +48 22 331 99 99 Portugal +351 21 47 27 700 Russia +7 495 721 1404 Singapore +65 6415 3170 South Africa +27 11 442 8508 Spain +34 91 490 6580 Sweden +46 844 98053 Switzerland +41 (0) 61 717 9555 Taiwan +886 (2) 2578-7189 Thailand (662) 651 8311 United Kingdom +44(0)1923 471301