

WE KNOW CELL, WE KNOW YOU

Cell separation
Cell modification

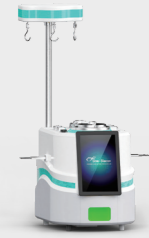
Cell expansion
Virus preparation

Cell concentration
Supernatant collection

Cell washing
Formulation filling

Cryopreservation
Tubing connection

Cell recovery
Retransfusion



CELL-VOR
Automated Cell
Processing System



CELL-WAV
Automated Cell
Expansion System



Super CELL-VOR
Automated High Volume Cell
Concentration System



CELL-VOR
Automated Cell
Washing & Filling System



CELL-LAV
Sterile Tubing Welder



CELL-COL
Automated Cell
Recovery System

Sino-Biocan

Super CELL-VOR

Automated High Volume
Cell Concentration System



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Sino-Biocan (Shanghai) Biotech Ltd



Sino-Biocan

Sino-Biocan (Shanghai) Biotech Ltd is an automated, modularized, closed cell production platform provider in cell & gene therapy field, providing total solution of smart tools innovation and service, devoting to be the industry leader integrating R & D, business development, technical service, customization and production.

Sino-Biocan has developed a GMP-grade product family of fully closed, modularized, continuous cell preparation tools, as well as consumables and liquid solution, covering processes such as automated cell separation, culture, cell concentration, washing and formulation filling, cryopreservation and recovery, etc. Meanwhile it can provide modular splicing of different GMP processes, aiming to provide rapid, efficient and differentiated customization of series products of cell preparation tools.

Adhering to the principle of cooperation and originality on the way of exploration, Sino-Biocan carried out project cooperation with more than ten universities, medical institutes and scientific research institutes, such as Tsinghua University, Tongji University, and constructed multi-field postdoctoral mobile stations and expert workstations. Sino-Biocan has been cooperating with Chinese Society of Blood Transfusion to explore the latest research fields of cell preparation technology and application, signed strategic cooperation agreements with dozens of middle

and downstream enterprises in the industry, cooperated with more than 100 original cell and gene drug developers and CDMO companies. At present, the company has obtained more than 50 patents and trademark certificates independently, and started international PCT application. Sino-Biocan highly values construction of high quality standards, and has obtained ISO9001 and ISO13485 certification and submitted CE and NMPA applications.



Equipment Clean Workshops

Cell Separation System,
Cell Expansion System,
Cell Concentration System,
Cryopreservation System,
Cell Recovery System, etc

Annual output: 3000 units



GMP Consumable Workshops

Disposable Cell Separation Kit
Cryobag
Disposable Cell Expansion Kit
Cell Magnetic Separation Column

Annual output: 200,000 sets



GMP Liquid Product Workshops

Cell Culture Medium
Cell Cryopreservation Medium
Cell Magnetic Beads

Annual Output: 600,000 bottles



Super CELL-VOR Automated High Volume Cell Concentration System

Super CELL-VOR high volume cell concentration system, together with its compatible disposable closed consumables, is used for closed, automated and efficient concentration of 2L-20L high volume cells by means of continuous flow, widely applied in production scales.

01

Disposable closed consumables provide bag-to-bag solution, avoiding pollution risks in open operation.

02

One operator can manage all the processes, higher concentration efficiency and consistency in a shorter duration.

03

Equipment comes with supported consumables, high cost performance and compatibility, short and stable delivery, customization based on request.

04

Parameters can be flexibly defined to realize high efficient cell concentration.

05

3Q document is available to ensure design requirements and functional requirements are met.

06

All the data can be saved, queried, traced and output, meeting demands of access management and electronic signature, compliant with GMP standards.

07

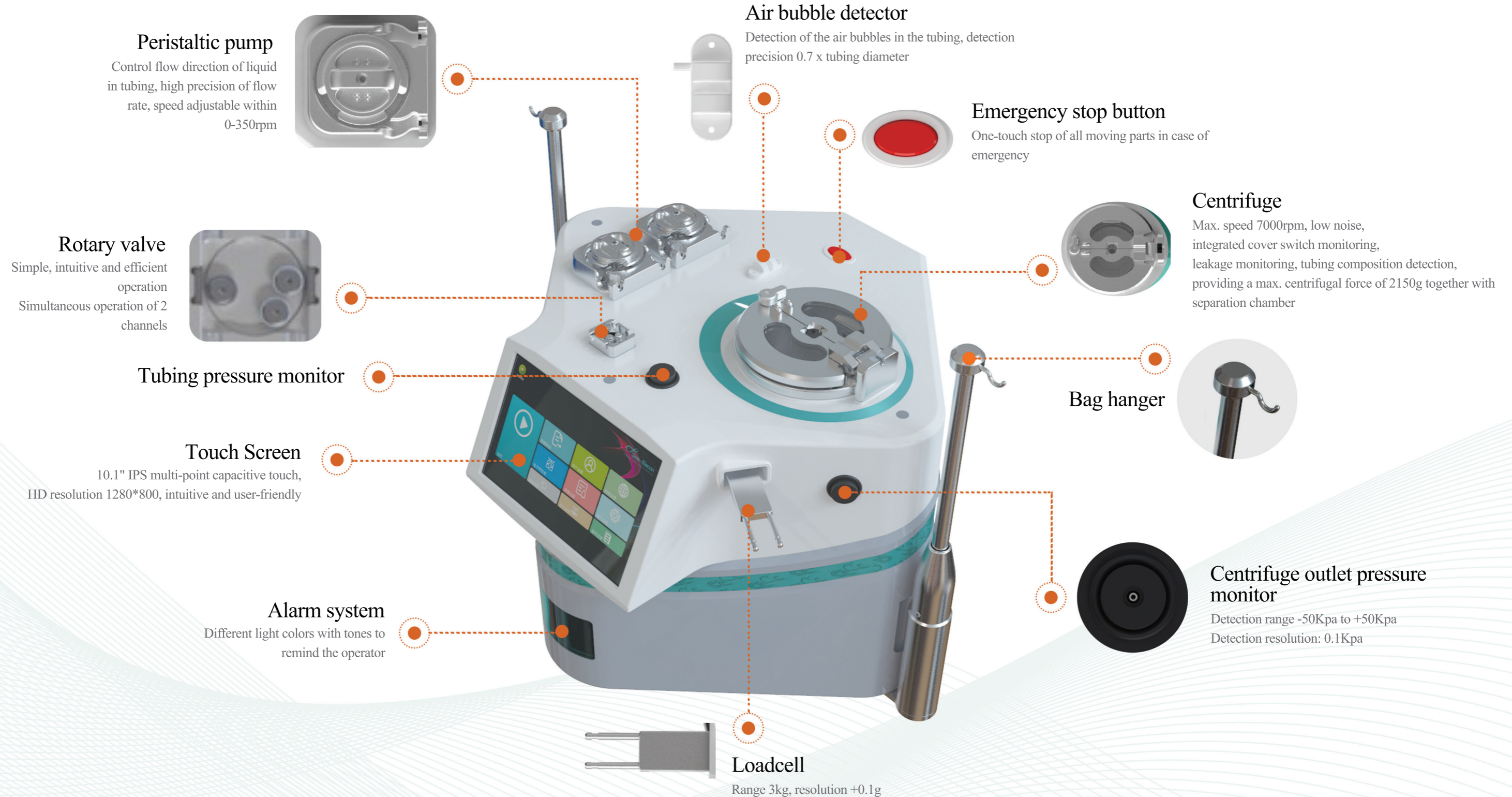
Professional technical and after-service team, respond within 24 hours.

08

Compatible with Sino-Biocan cell expansion system and cell washing & filling system, forming a comprehensive product line.

PRODUCT COMPOSITION

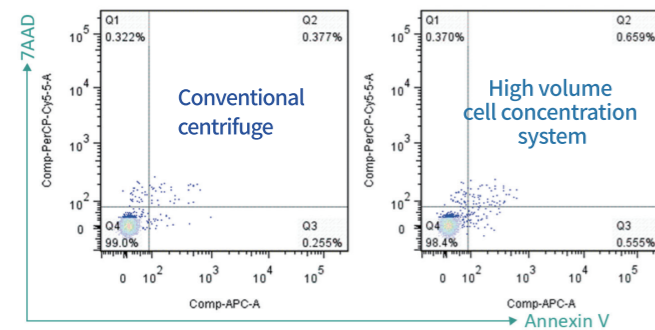
Super CELL-VOR Automated High Volume Cell Concentration System



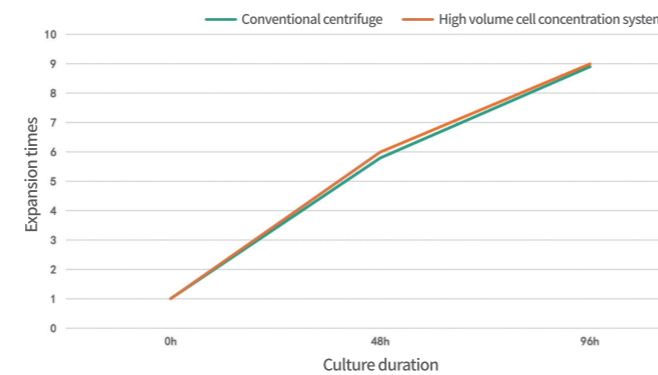
01 Cell Test Result

Cell Type	Cell Density	Sample Volume	Recovery Rate	Viability Loss	Duration
NK	1e6	10L	>90 %	<5 %	Approx . 55min
T Cell (whole blood derived)	2e6	5L	>90 %	<5 %	Approx . 55min
SF9	1e6	10L	>90 %	<5 %	Approx . 55min

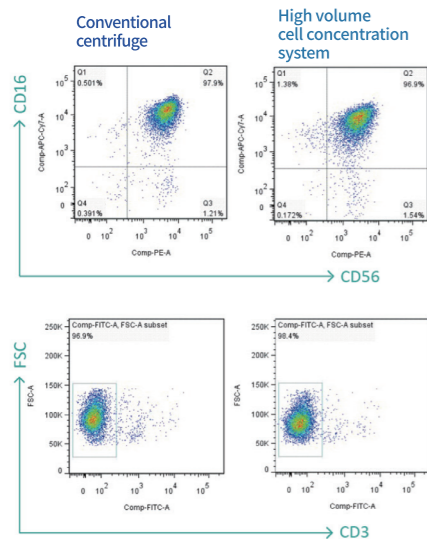
02 Cell Viability Rate Test



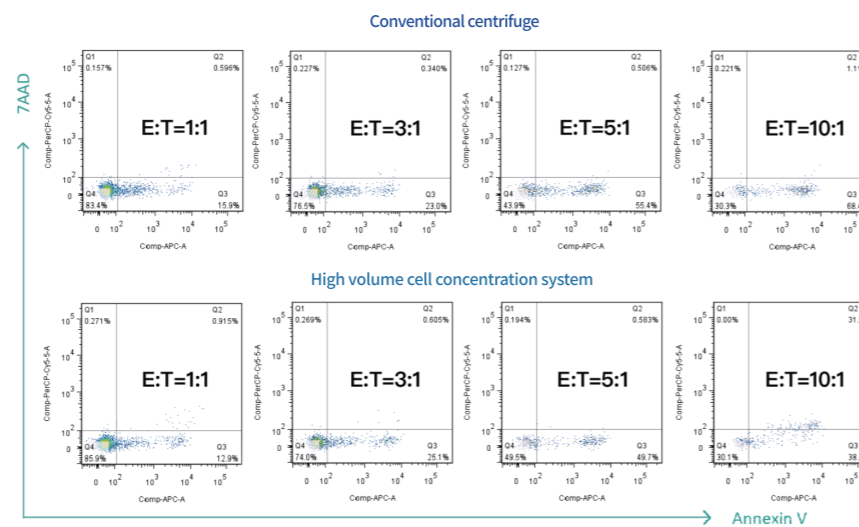
03 Cell Expansion Test



04 Cell Phenotype Impact Test



05 Cell Killing Effect Test



	Technical Specification	Description
Hardware	1. Centrifugal force 200-2000g	Choose suitable centrifugal force and best start/pause time according to different needs.
	2. Pump speed 0~3000ml/min (adjustable)	Suitable for different concentration needs.
	3. Color touch screen	Intuitive graphical display.
	4.1 Tubing air monitor	Avoid air in consumable tubing and centrifugal chamber due to misoperation or consumable failure.
Safety	4.2 Tubing pressure monitor	Avoid unbalanced pressure in consumables due to misoperation or consumable failure, ensuring normal cell concentration process.
	4.3 Centrifuge lid lock monitor	Avoid risks caused by accidental opening of centrifuge lid due to misoperation.
	4.4 Centrifugal chamber leakage monitor	Monitoring leakage in centrifugal chamber.
	Operation System	1. English interface
2. Status indicator		The eye-catching indicator allows operator to identify work status easily.

Application: Cell Concentration

Sample Volume	Description
1. Average concentration efficiency: 10L/h	Parameters can be adjusted to meet different concentration requirements according to cell condition.
2. Target product volume can be set	Target product volume can be 300ml~1.5L.

Data Management

Technical Specification	Description
1. Barcode reader	Built-in barcode reader facilitates data entry, such as consumable model, serial number, patient number, surgeon number, etc.
2. USB data port	USB port for quick downloading of operation logs.



ORDER INFORMATION

PART NO.	MODEL	DESCRIPTION
HH-CV88-1S	CV88-1S	Super CELL-VOR High Volume Cell Concentration System
HH-CV88-1A5L	CV88-1A5L	Super CELL-VOR Disposable Cell Concentration Kit (1.5L)
HH-CV88-2A5L	CV88-2A5L	Super CELL-VOR Disposable Cell Concentration Kit (2.5L)
HH-CV88-004L	CV88-004L	Super CELL-VOR Disposable Cell Concentration Kit (4L)
HH-CV88-007L	CV88-007L	Super CELL-VOR Disposable Cell Concentration Kit (7L)
HH-CV88-010L	CV88-010L	Super CELL-VOR Disposable Cell Concentration Kit (10L)
HH-CV88-020L	CV88-020L	Super CELL-VOR Disposable Cell Concentration Kit (20L)