



## S - I SERIES

SIP & CIP  
CUSTOMIZABLE  
PILOT AND  
INDUSTRIAL SCALE  
FERMENTERS /  
BIOREACTORS

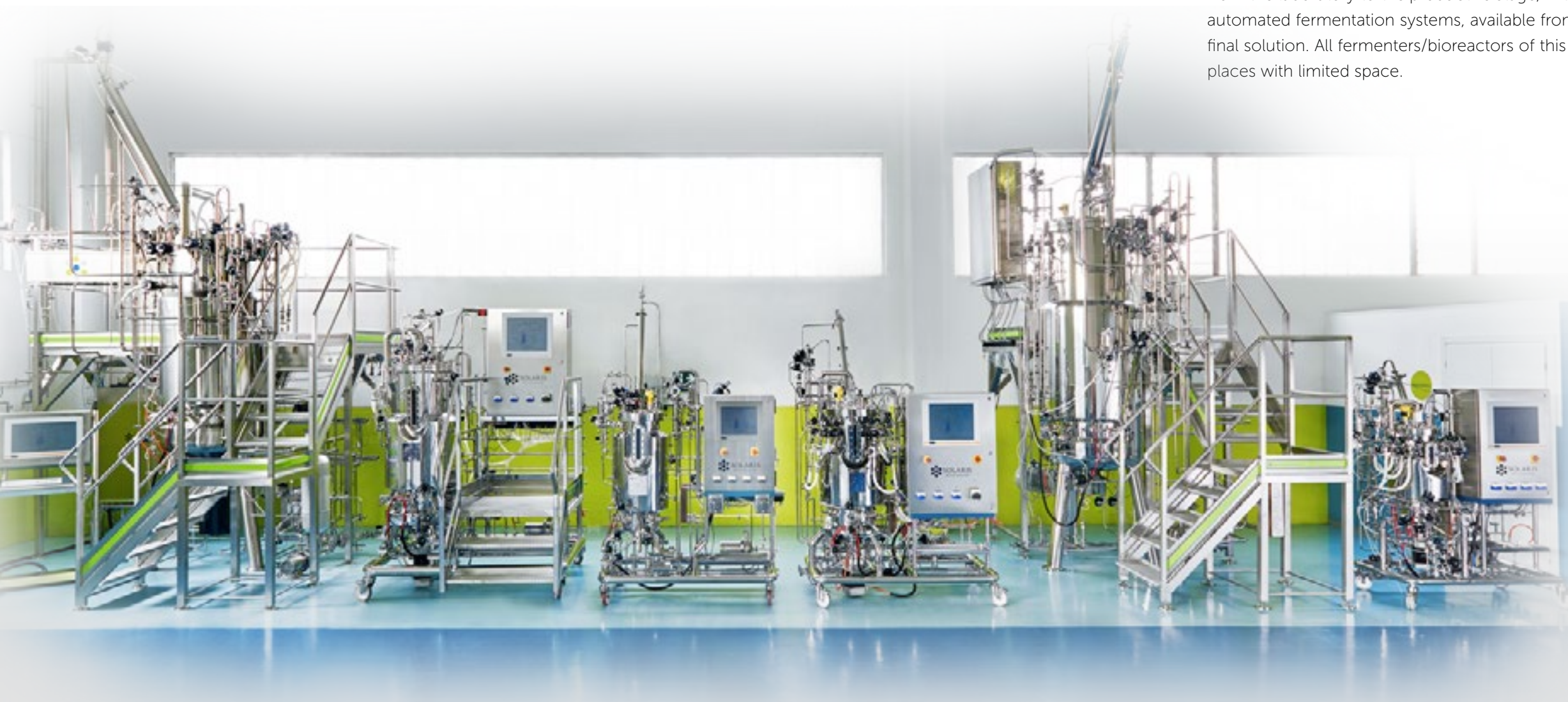


**SOLARIS**  
BIOTECH SOLUTIONS

# SIP & CIP CUSTOMIZABLE PILOT SCALE FERMENTERS/BIOREACTORS

## S-I SERIES

**S-I SERIES** Fermenters/Bioreactors have been created with the intention to face all the problems related to the scaling-up, from the laboratory to the productive stage, with maximum easiness. Fermenters/Bioreactors of the **S-I SERIES** are highly automated fermentation systems, available from 250 litres up to 30 m<sup>3</sup>, fully customized starting with the URS up to the final solution. All fermenters/bioreactors of this series are compact and flexible with the possibility to be installed even in places with limited space.



**High quality**  
meets most sophisticated  
**international standards**

**WHY TO  
INVEST**  
IN THIS PRODUCT



**100%**  
customized solutions

## Benefits

SBC-16

- Customizable culture vessels from 5 to 30 m<sup>3</sup>
- Instrumentation for control and measurement of pH, Eh, dO<sub>2</sub>, CO<sub>2</sub>, RPM, Gas Mixing, Temperature, Antifoam, Feeds, Total Cell Density and Viable Cell Density measurement, Weight, Redox, Conductivity, Level, etc...
- SCADA Control System SBC-16.
- Software management data - trends.
- Designed for microbial and cell fermentation, for batch, fed-batch and continuous processes.
- Complete range of Accessories.
- Brushless motor for agitation system.

Smart controller for pilot and industrial plants. This program is designed to provide a high level of automated management of the cultivation/fermentation processes.



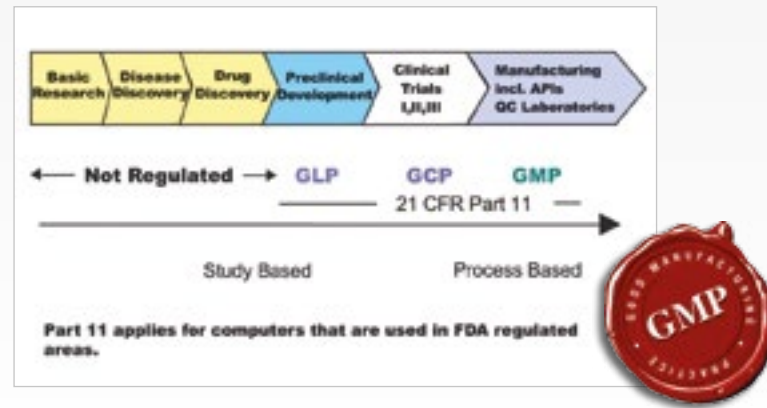
Hamilton RetractoFit Bio 25



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# S-I SERIES

Completely assembled and tested in the factory, these fermentation units are ready for installation at the user' site. The control system is based on a PLC and the SCADA supervisory Solaris SBC-15 and is designed to provide an high level of automated management of the cultivation processes; installed from **S SERIES** (5-200l) up to **I SERIES** facilitating the scaling-up procedures. The system is in accordance with CFR 21 Part 11.



Front view  
Illuminated sideglass



Integrated videocamera



## GMP customized solutions

Fully automated, strongly engineered to fulfill the customer needs of compactness and operability. Top quality stainless steel with excellent finishing, high technology and Italian design.

Steam bridge diaphragm valves to guarantee the sterility during inoculum, sampling, harvesting and feedings. Easy to access service lines for performing the maintenance job without any difficulty.



Internal vessel design.



SIP Sampling bottle.





Front view side glass



Automatic mechanical seal lubrication with steam condensate loop

SIP & CIP CUSTOMIZABLE  
PILOT SCALE  
FERMENTERS/BIOREACTORS

S-I SERIES



SIP & CIP CUSTOMIZABLE  
PILOT SCALE  
FERMENTERS/BIOREACTORS

S-I SERIES







Top view with illuminated side glass





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