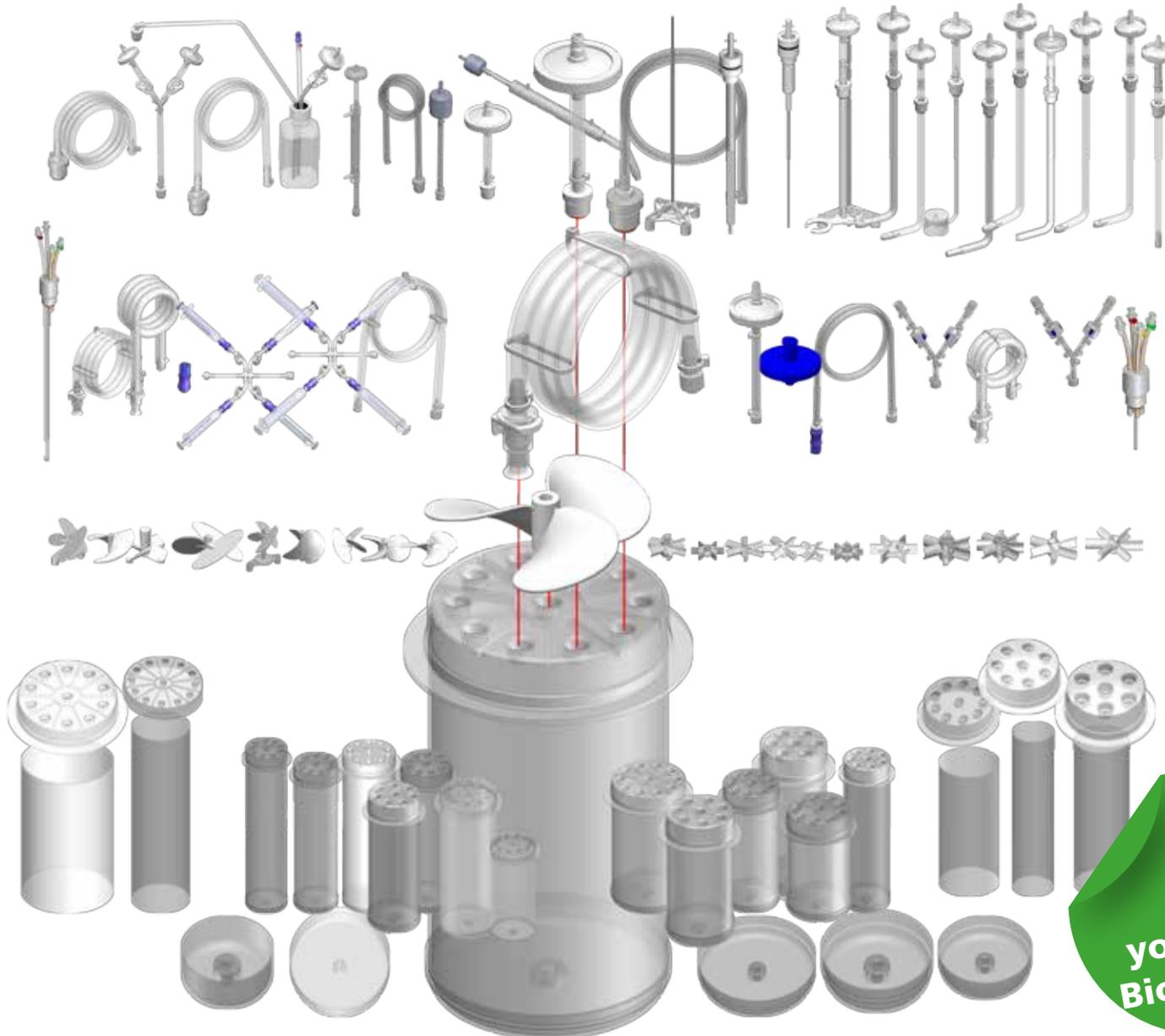


CerCell® is customized Single-Use-Bioreactors and Single-Use-Fermenters for batch operation



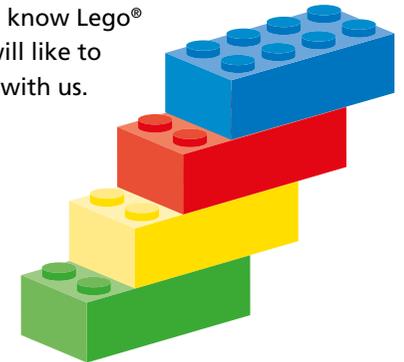
1. What does “Customized” really mean?



Build your next bioreactor (SUB) exactly to your needs ...

We have more than 5,000 components designed to fit each other. That's millions of combinations !

If you know Lego® you will like to build with us.



Try it now her:
www.cercell.com/configurator

**Build
 your own
 Bioreactor**

Your portfolio SUB's

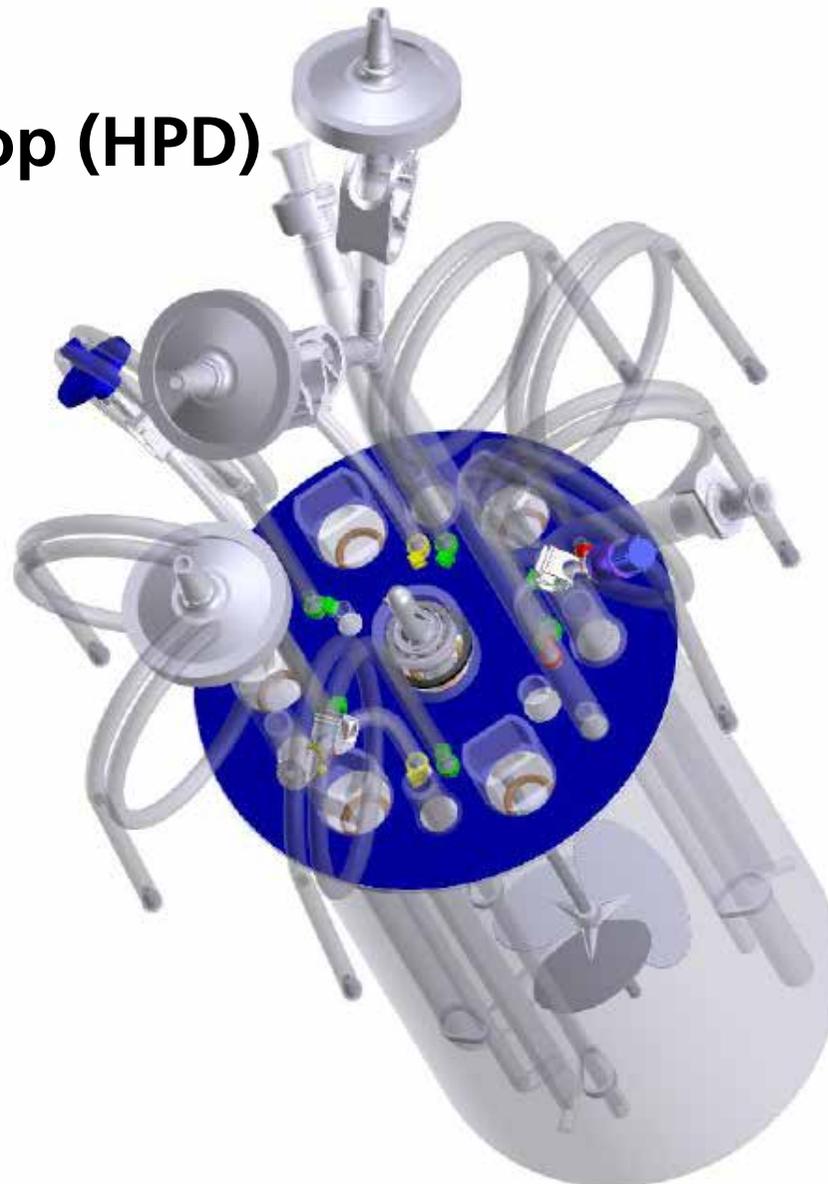
SUB's with 5 sensor ports
– more than any

SUB's drive from top (HPD)
or bottom (MST)

CellVessel™ 3 liter
Most popular size
Single-Use-Bioreactor

CellVessel™ 6 liter
Next popular size
Single-Use-Bioreactor

Replace old fashion
glass/steel STR for
mammalian cell
cultivation.



Your portfolio SUF's

SUF's with 5 sensor ports
– more than any

SUF's drive from top (HPD)
or bottom (MST)

BactoVessel® 3,2 liter
Single-Use-Fermenter (SUF)

BactoVessel® 6 liter
Single-Use-Fermenter (SUF)

BactoVessel® for microbial
fermentation replacing old
fashion glass/steel STR.



Your portfolio mini's

**SUB's with 4 sensor ports
– more than any**

**SUB's drive from top (HPD)
or bottom (MST)**

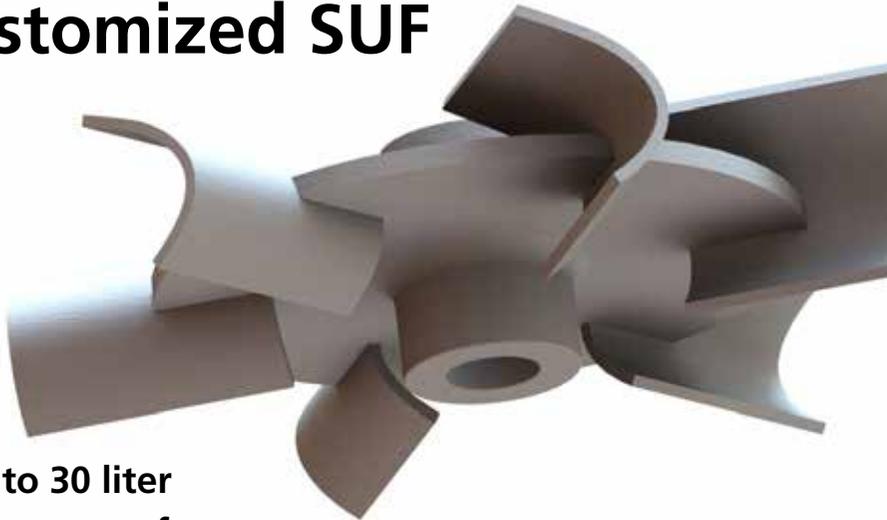
**CellVessel™ 250 and 500 and 1.000 ml
Single-Use-Bioreactor (SUB)**

**BactoVessel® 250 ml
Single-Use-Fermenter (SUF)**



5.000 components on the shelf

Design of a customized SUF



0,25 to 30 liter
Choose any of:

- heating
- drive
- agitation
- aeration
- exhaust
- addition
- sensors
- special requirements



Agitation

Any type
of servo
motor can be
accommodated

- Head-Plate-Drive
- Magnetic-Bottom-Drive



Cooling

Re-Usable-Jacket (RUJ)
for exothermic or
microbial processes



Heating

Re-Usable-Jacket (RUJ)
230 VAC electrical
heating blankets for
endothermic processes



Single-Use-Mixer's

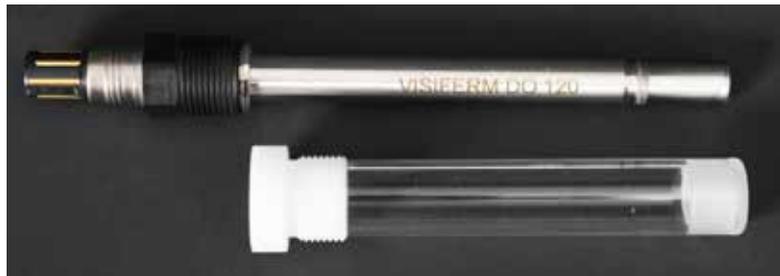
For down-stream proceses

Shown 250 ml SUM
integrating both pH SUS and
conductivity SUS



Single-Use-Sensors (SUS)

For down-stream proceses



VisiFerm to be inserted in VisiWell SUS



Dual electrode conductivity SUS



Glass or polymer classical signal pH SUS

How are the products delivered?

Each SUB and SUF product is equipped with a sticker with the following data:

- Product code
- Manufacturing date
- Shelf life
- Lot/prod/SUB number
- Irradiation load
- Max RPM
- Max operating pressure
- Drive method
- Manufacturer details
- Manufacturer signature
- Inspector signature
- Irradiation sticker

