## Orbital Shaken Bioreactor for Cell Cultivation

Orbital shaking technology has been widely used in biotechnology because it offers ease-of-use, increased flexibility and reduced costs. Recently, orbital shaken bioreactors of capacities from 1 mL 1000L have been employed for cultivation of mammalian cells and are expected to become attractive alternatives to conventional stirred-tank bioreactors.

## Good Scalability:

+ same hydrodynamics
+ surface aeration
+ calculable
+ no foam
+ no bubbles



## Results from the 200L-bioreactor system



40 L working volume in the shaken bioreactor



200 L working volume in the shaken bioreactor


