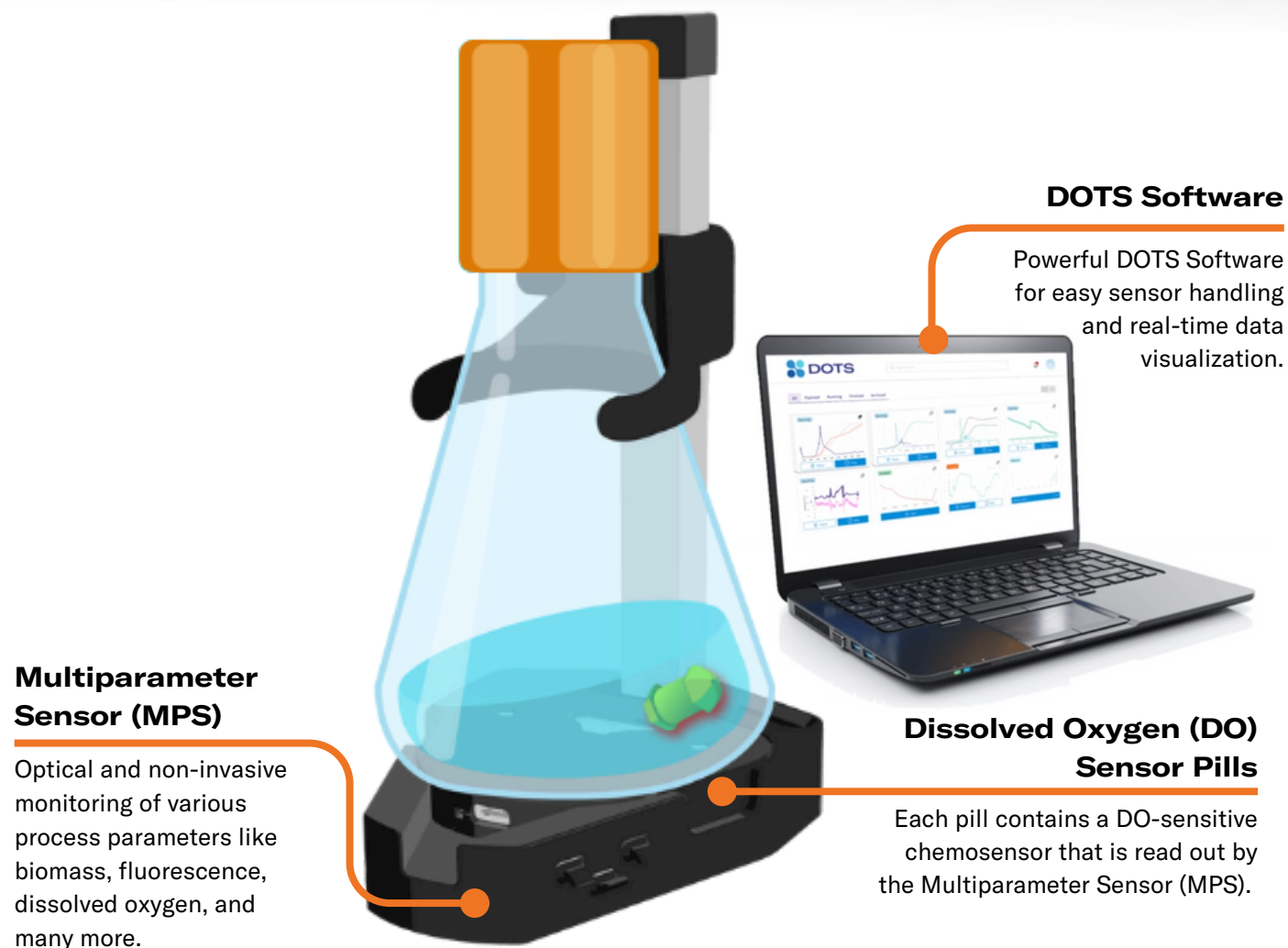


# Build a Smarter Shake Flask, One Parameter at a Time

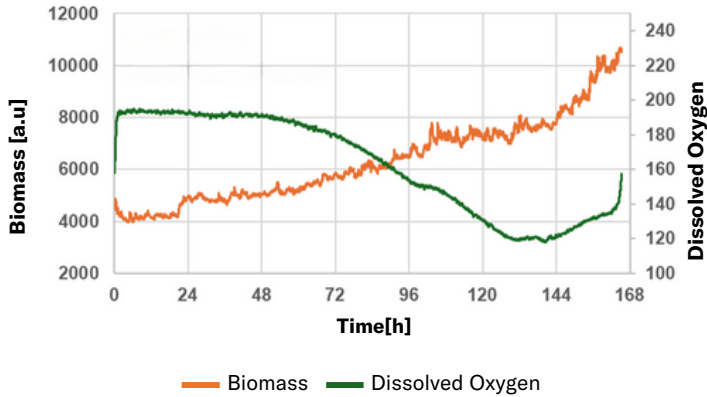
The DOTS Platform is ideally suited for fast and data-driven CHO cell line characterization and screening in shake flasks by offering advanced sensors for real-time bioprocess monitoring of biomass, dissolved oxygen, and fluorescence.



## Exemplary Data

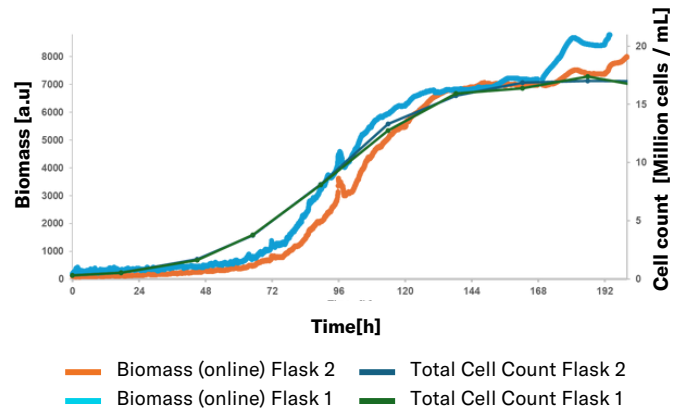
### CHO DP 12 Cell Culture

Inoculation: 0.32 million cells / mL, Corning flask, 250 mL, 24% filling volume (60 mL), 185 rpm, 25 mm



### CHO Cell Culture

Inoculation: 0.3 million cells / mL, Nalgene flask, 250 mL, 20% filling volume (50 mL), 150 rpm, 50 mm



The DO Sensor pills, together with the MPS, allow for simultaneous measurement of biomass and dissolved oxygen (DO) in Corning flasks, producing well-correlated data curves.

MPS shows good correlation to offline biomass samples, as well as great reproducibility between two sensors.

## Compatible With Your...

### Bioprocess

- ✓ For Typical CHO Cell Lines (e.g. Expi-CH-S, CHODP12,...)
- ✓ For most media compositions

### Applications

- ✓ Cell Line/Clone Development
- ✓ Characterization and Selection
- ✓ Collect critical process parameters for an informed upscaling process

### Lab Infrastructure

- ✓ For different shake flask sizes
  - From 100 mL - 2000 mL
- ✓ For different shake flask types
  - Nalgene, Corning, Glass, Thompson...
- ✓ Compatible with every shaking incubator
  - Clamps and Sticky Mats
- ✓ For a broad range of shaking speeds and filling volumes



## Want to Turn Your Shake Flask into a Smart Bioreactor?

Contact Us