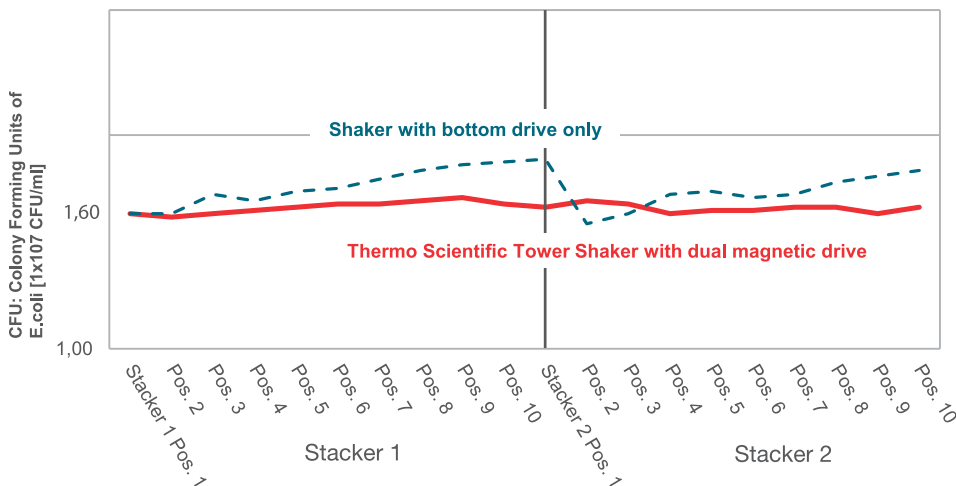


# Advanced shaking solutions

for Cytomat 2 C-LiN series automated incubators and storage systems

**The Thermo Scientific™ Cytomat™ 2 automated incubator with Tower Shaker is the only solution that provides true orbital shaking. It is ideal for applications requiring sample agitation and cells that need to be kept in suspension.**

The synchronized dual magnetic drive system (located at the bottom and top) ensures consistent shaking amplitude across all microplates without having any influence of load, position or number of plates.



**Bacterial growth consistency over the entire two Stacker (bottom to top) of the Tower Shaking option**

The graph shows optimum bacterial growth with the dual magnetic drive system across all plates (red line; standard deviation 2.7%). In comparison, the technology with only bottom drive shaking reveals inconsistent actual growth (standard deviation 10.1%).

## Key Applications

- Cell Culture (Mammalian)
- Microbial Culture
- Genomics
- Biologics
- Luminex (ELISA, Biomarkers)
- Synthetic Biology

## Markets

- Drug Discovery
- Biopharmaceuticals
- Life Science Research
- Diagnostics

## Tower shaker features

- Easy 3 step setup of Tower Shaker Stacker:  
Install/secure by lock screw/Plug-in
- Active microplate clamp mechanism secures plate and lid separately; no abrasions of the microplates during shaking
- Mix and match standard and Tower Shaker stacker for maximum flexibility for assay adoption
- Inductive wear-free driving mechanism allows for no-particle emission or belts to change
- Superior shaking technology with individual speed settings of each Tower Shaker from 100 to 1200 rpm with oscillating amplitude of 3 mm (2 mm option available) offers a wide range of application setups

## Ordering information

### Cytomat series

Product	Part Number
Cytomat 2 C450-LiN, 230 V	51033037
Cytomat 2 C450-LiN, 120 V	51033036
Cytomat 2 C450-LiN, 100 V	51033035

Product	Part Number
Cytomat 2 C470-LiN, 230 V	51033040
Cytomat 2 C470-LiN, 120 V	51033039
Cytomat 2 C470-LiN, 100 V	51033038

**Shaking options** (100–1200 rpm, orbital shaking with a max. load of 850 g per position)

Product	Description	Part Number
Tower Shaker (Pitch 23)	capacity 16 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50107700
Tower Shaker (Pitch 27)	capacity 13 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50122160
Tower Shaker (Pitch 50)	capacity 7 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50118421
Tower Shaker (3 mm, Pitch 23)	capacity 16 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)	50129388
Tower Shaker (3 mm, Pitch 27)	capacity 13 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)	50138322
Tower Shaker (3 mm, Pitch 50)	capacity 7 microplates, 1.5 mm amplitude (3 mm oscillation amplitude)	50146206
Tower Shaker (Pitch 33)	capacity 11 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50127680
Tower Shaker (Pitch 40)	capacity 9 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50133660
Tower Shaker (Pitch 60)	capacity 6 microplates, 1 mm amplitude (2 mm oscillation amplitude)	50126934

### Options for Cytomat 2 C450/C470-LiN

Options	Description	Part Number
Shaking control ToS—C2 (required to control Tower Shaker Stacker)	Shaking Control for two ToS-Tower Shaker; Relative Humidity: constant, up to 80% rH @ 37 °C	51901303
O <sub>2</sub> -control (1–21 Vol%)	O <sub>2</sub> control to minimize oxygen level with N <sub>2</sub> supply, 1–21 Vol%	51900965
O <sub>2</sub> -control (5–90 Vol%)	O <sub>2</sub> control to enrich oxygen level with O <sub>2</sub> supply, 5–90 Vol%	51901082
APS - Air Purging System	CO <sub>2</sub> reduction during cell growth down to 1% by Oxygen enrichment	51901295
GDF (H <sub>2</sub> O <sub>2</sub> ) - Glass Door Flanges	Connection flanges 1" in glass door for H <sub>2</sub> O <sub>2</sub> disinfection	51901083
Gate Position B2	Gate Rear Top (seen from robot side)	51900951
Gate Position R1	Gate Right Side Bottom (seen from robot side)	51900954
Gate Position R2	Gate Right Side Top (seen from robot side)	51900955
Gate Position L1	Gate Left Side Bottom (seen from robot side)	51900958
Gate Position L2	Gate Left Side Top (seen from robot side)	51900959
CBL—Control Box Left	Control Box Left side	51901298
DL—Door Left	Door left hinged	51901171
Copper Inner Chamber	Inner Chamber made of copper	51901084

Find out more at [thermofisher.com/cytomat](https://thermofisher.com/cytomat)