



TML basket mill

Basket mill accessory for DISPERMAT® dissolvers
Optional: Nano, ceramic and vacuum design, scraping system

A DISPERMAT® dissolver can easily be converted into a basket mill by simply removing the dissolver shaft and replacing it with the TML basket mill accessory.

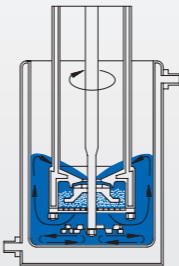
Double-walled milling basket for efficient cooling

High throughput rates even for high-viscosity products due to integrated and patented impeller. This provides excellent milling results within the shortest time and narrow particles distribution.

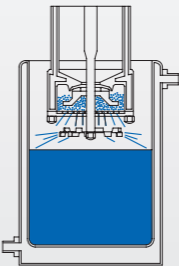


Simple scaling up from the TML laboratory system to the TM production machine

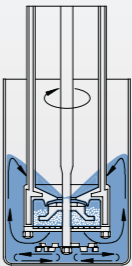
DISPERMAT® CA with the TML 1 basket mill accessory



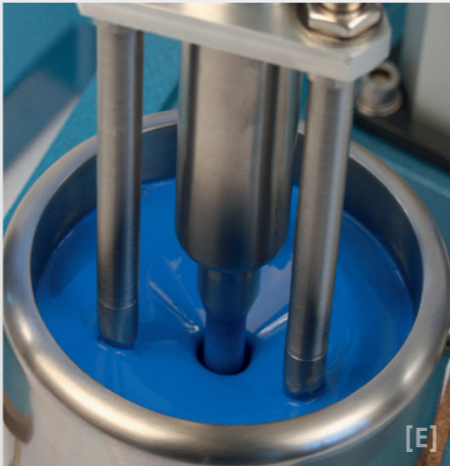
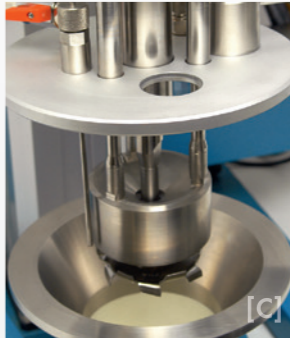
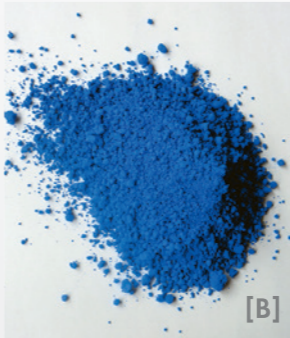
The double-walled milling basket filled with beads is lowered into the millbase. Intense circulation of the product is generated with the dissolver disc and integrated pump wheel.



For assessment of the milling process – during dispersion – a product sample can be taken at any time. When the milling process is complete, the grinding basket is raised.



Product residue in the milling basket is centrifuged out by briefly running the milling and the dissolver discs. Cleaning the milling system is carried out with a suitable cleaning fluid in a separate container.



The following TML basket mill designs are available:

- TML basket mill**
Standard design for using milling beads from 0,5 mm. Optional: vacuum, nano, scraper and ceramic option
- TML-NANO basket mill**
Nano basket mill for using small milling beads from 0,2 mm. Optional: vacuum, ceramic and scraper
- TML-VACUUM basket mill**
For dispersion under vacuum. Optional: nano and ceramic option
- TML-CERAMIC basket mill**
Milling chamber, milling disc, separation sieve and container can be supplied in SiSiC or ZrO2. Optional: vacuum, scraper and nano option
- TML-SCRAPER basket mill**
with high-viscosity products the TML can be combined with the ASC modular scraper system. Refer to page 90 for further information.

TML basket mill: highly efficient fine milling system for DISPERMAT® dissolvers

The modular TML 1 basket mill accessory converts a DISPERMAT® dissolver into an extremely efficient batch bead milling system. The dissolver shaft is easily replaced by the basket mill accessory without the need for any tool. Basket mills are highly efficient batch milling systems. An integral impeller pumping wheel agitates the beads and circulates the millbase through the basket.

The milling basket is double-walled for cooling and has a screen that retains the milling beads but allows the millbase to pass through. An efficient circulation of the millbase through the basket ensures excellent dispersion results in a short period of time.

Especially eco-friendly and efficient milling technology

- excellent dispersion results in a short time
- excellent product circulation due to dissolver disc and pump wheel
- highly repeatable dispersion results
- uniform average residence time
- narrow particle size distribution
- no dead areas due to effective mill base circulation
- no escape of milling beads during the dispersion
- dispersion in a closed system
- low energy requirement
- Simple cleaning and quick change of millbase
- Especially user-friendly milling system: very simple and safe handling

TML basket mill type	Container capacity litre	Product volume litre	Milling chamber volume ml	Recommended DISPERMAT® dissolvers type
TML 05	0.5, 1	0.25 – 0.7	43	LC55 – LC110-12, LC220-12 CV-PLUS CN10 – CN20 CA AE01, AE03 – AE04 LC55-EX – LC75-EX AE01-EX, AE03-EX – AE04-EX
TML 1	1, 2, 3, 4, 5	0.5 – 3.5	65	LC110-12 – LC220-6 CV4-PLUS CN10 – CN40 CA40 – CA60 AE02 – AE06 AE02-EX – AE06-EX
TML 5	5, 7, 10, 15	2.5 – 11	185	LC220-12 – LC400 CN20 – CN80 AE04 – AE10 AE04-EX – AE10-EX
TML 10	10, 15, 20, 25, 35	5 – 25	390	LC400 CN60, CN80 – CN100 AE08 – AE12 AE08-EX – AE12-EX
TML 50	35, 50, 75, 150	18 – 105	2100	CN90 – CN100 AE11 – AE12 AE11-EX – AE12-EX