

TORUSMILL® SK

High-efficient milling system in functional and compact design up to 55 kW.

Options: ATEX zone 0/1/2, Vacuum, PLC-control, Ceramic version



Model	Moc	Objętość produktu	Zbiorniki
Basket mill TORUSMILL® SK115	15	35 – 400	75 – 500
Basket mill TORUSMILL® SK122	22	35 – 400	75 – 500
Basket mill TORUSMILL® SK537	37	100 – 1000	200 - 1250
Basket mill TORUSMILL® SK1000	45 / 55	250 – 1600	500 – 2000

Innovative basket mill for any container from 50 to 2000 litre

The TORUSMILL® SK are high-efficient basket mills with which excellent grinding results can be achieved in very short time. The TORUSMILL® SK is available in versions from 15 kW upto 55 kW drive power for processing low and medium viscous products. The TORUSMILL® clamping device is suitable for container volumes upto 2000 l. The rapid circulation of the mill base through the grinding basket is achieved through an integrated, patented pump wheel. This provides a high number of passes, and a narrow particle size. The dissolver disc mounted below the milling basket ensures a milling of the millbase within the milling container with minimal dead volumes.

- Double walled milling basket, suitable for cooling and heating systems. The heat generated during the milling process is dissipated effectively by the spirally guided cooling liquid
- Excellent circulation of the mill base by the patented pump wheel and dissolver disc
- Easy scale-up from the laboratory instrument TML to the production machine TORUSMILL® SK
- Standard usage of customers existing vessels, also with different volumes
- Variable speed adjustment by modern frequency converters
- Options: ATEX zone 0/1/2, Vacuum, PLC-control, Ceramic version

The process control of the basket mill TORUSMILL® SK



- Digital indication of speed, ampere and product temperature
- Variable speed adjustment
- Pushbuttons and contactors for Power, Start, Stop, separate height adjustment of the stand and basket, drain off milling basket and Emergency Stop

The TORUSMILL® SK can also be fitted with the PLC-control. The graphic display allows for an indication of the operational parameters such as speed, power output, peripheral speed of the milling tool, torque and product temperature. The combination of a graphic display and the standardized PLC-control allows for an extension as well as for an adaptation of the control system to further process control applications at any time.

Basket mill TORUSMILL® SK optional with scraper system and cover for vacuum operation

- Without cover:
With solvent free products the dissolver TORUSMILL® SK can be operated with an open container.
- Cover with lamp, opening and scraper system:
The dissolver TORUSMILL® SK can be equipped with a simple cover. During the milling process the cover lies tight on the container due to an intelligent feature; when raising the basket the cover is dragged with it. The diameter of the cover is chosen in such a way that even containers with different diameters can be operated safely. The cover can be fitted with a lamp, a scraper system and a lock opening for adding the product and/or for sucking off dust and fume.
- Leakproof cover:
For vacuum operation or for solvent based products using a completely closed cover is essential.

The fine grinding process with the basket mill TORUSMILL® SK



The container with the liquid component is moved into position under the TORUSMILL® SK. The dissolver disc is lowered down into the liquid.



The TORUSMILL® SK now starts the actual dispersion process for extremely fine grinding. When the dissolver disc and the milling system are located above the product surface, product residue in the grinding basket is centrifuged out by briefly running the milling and dissolver discs.



The milling system is now completely raised and the container with the ground finished product is removed. Cleaning the milling system is carried out in a separate conical container in order to minimise the required amount of cleaning fluid.