

DISPERMAT® AND TORUSMILL®
PRODUCTION
PRODUCT OVERVIEW **2014/15**

www.vma-getzmann.com

DISPERMAT® AND TORUSMILL® IN THE PRODUCTION



DISSOLVER

Dissolver			
DISPERMAT® SC	Multipurpose production dissolver for any container size. Option: Vacuum, ATEX	6 – 7

BEAD MILLS AND BASKET MILLS

Horizontal bead mills			
DISPERMAT® RS	Horizontal bead mill for fine grinding also for temperature sensitive products. Option: Ceramic version, ATEX	8 – 9
Basket mills			
TORUSMILL® SK	Innovative basket mill in functional design. Option: Ceramic and vacuum version, ATEX	10 – 11
Basket mills with integrated Dissolver			
TORUSMILL® TM	2 in 1: Highly efficient combination of dissolver and basket mill. Option: Ceramic and vacuum version, ATEX	12 – 13

Product volumes are based on medium viscosity. The actual volume may differ depending on the flow behaviour, the density and the viscosity of the product.



VMA-GETZMANN

Research, development, production
and service in one factory

Since the foundation of the company the name VMA-Getzmann has been synonymous with the production of high-quality and innovative dispersion systems. The integration of progressive technology with functional design as well as high quality, are characteristic of our products.

Of course our dispersion systems are equipped with integrated safety devices according to EC machinery directive 2006/42/EG.

Quality and precision made in Germany

Working together with the client our specialists optimize the essential process engineering and the most suitable system solution. Our involved development and design team comes with innovative ideas and long-time experience in the dispersion and milling technology.

We produce with the most modern machine tools and therefore we guarantee a high standard of quality. We prove our expertise and reliability by also having an excellent after sales service.



Our experience your advantage

Please visit us in our excellently equipped laboratory and pilot plant for a personal product demonstration with your own products. Our skilled engineers will be pleased to show you the impressive range of services of our patented dispersing and fine grinding systems DISPERMAT® and TORUSMILL®.

We are looking forward to your visit. **+49 2296 – 8030**



DISPERMAT® SC

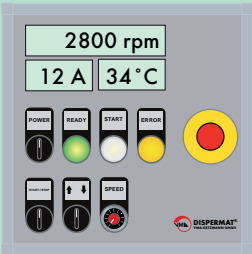
Multipurpose production dissolver
for any container size



The production dissolver DISPERMAT® SC is a multipurpose production dissolver for product quantities from 35 - 1800 l. As an option the dissolver can be supplied in a vacuum or explosion proof design according to ATEX.

The production dissolver SC is designed for any container sizes up to 2.000 litres. The containers are fixed with a tension belt for safety. A central container clamping system is available upon request.

An integrated safety limit switch within the clamping device (according to the locking pressure) allows for operation of the dissolver, the dissolver can only be operated when the container is firmly clamped.



- Digital indication of speed, ampere and product temperature (as an option)
- Variable speed adjustment
- Height adjustment of the dispersion tool
- Pushbuttons and contactors for Power, Start, Stop and Emergency Stop

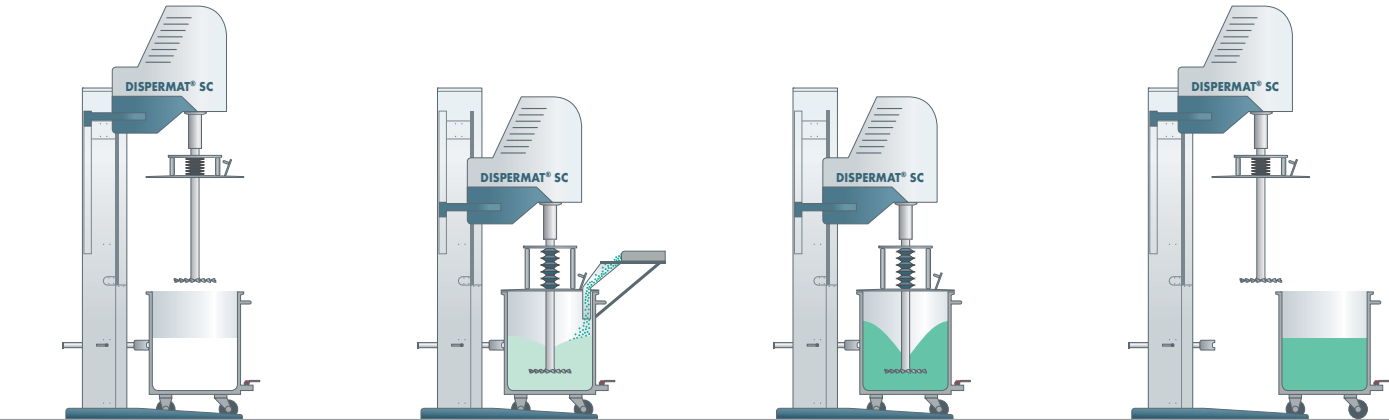
Options:

- ATEX zone 0/1/2
- Vacuum
- PLC-control



DISPERMAT® type	Power kW	Container capacity litre
SC115	15	75 - 750
SC122	22	75 - 750
SC530	30	200 - 1250
SC537	37	200 - 1250
SC1000	45 / 55	500 - 2000

The dispersion process with the Dissolver DISPERMAT® SC



DISPERMAT® RS

Fine grinding also for temperature sensitive products



Bead mill DISPERMAT® RS for fine grinding for the pass and for circulation process

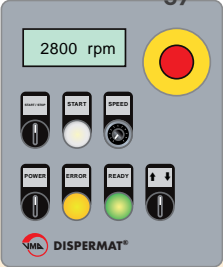
The DISPERMAT® RS is a horizontal operating bead mill. The compact, functional design ensures a very easy and safe handling and rapid assembly and disassembly of milling chamber and milling rotor. The bead mill RS can be operated in the pass as well as in the circulation process and guarantees for outstanding grinding results.

Since the heat generated during the milling process is dissipated through a highly efficient cooling circuit in the rotor, heat-sensitive products can also be very easily finely ground.

- Stirring shaft with double bearing
- Dynamic gap bead separation system
- Complete safety device
- Pressure control by manometer with electrical contact
- Slewable milling chamber cover
- Mechanical seal system with integrated cooled thermo-siphon container for lubrication liquid and safety pressure valve

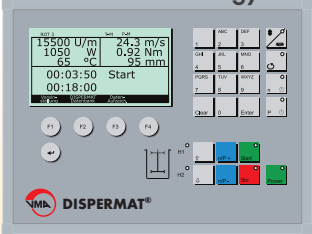
For every challenge the suitable process control.
The DISPERMAT® RS can be equipped with different control systems.
For example:

M-EX technology



- Variable speed adjustment
- Digital indication of speed
- Explosion proof according to ATEX

C and C-EX technology



- Graphic display with indication of speed, torque, power, product temperature, timer and peripheral speed
- Data recording with graphical indication
- Switch-off function for parameters as temperature, speed, power, etc.
- 100 individual PRESET configurations
- Data interface to WINDISP 7 Software



DISPERMAT® RS5 with C-Technology

DISPERMAT® RS10, ATEX, with the M-EX - Technology

Options:

- Milling system (milling chamber and milling rotor) made of ceramic
- PLC control
- ATEX zone 0/1/2

DISPERMAT® type	Power kW	Product volume litre/hour	Milling chamber litre	Speed rpm
RS5	15	25 - 250	5	0 - 2600
RS10	37	50 - 450	10	0 - 2100
RS20	45	100 - 600	20	0 - 1900

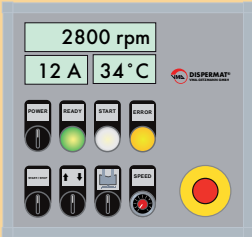
Innovative basket mill for any container from 50 to 2000 litre

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.

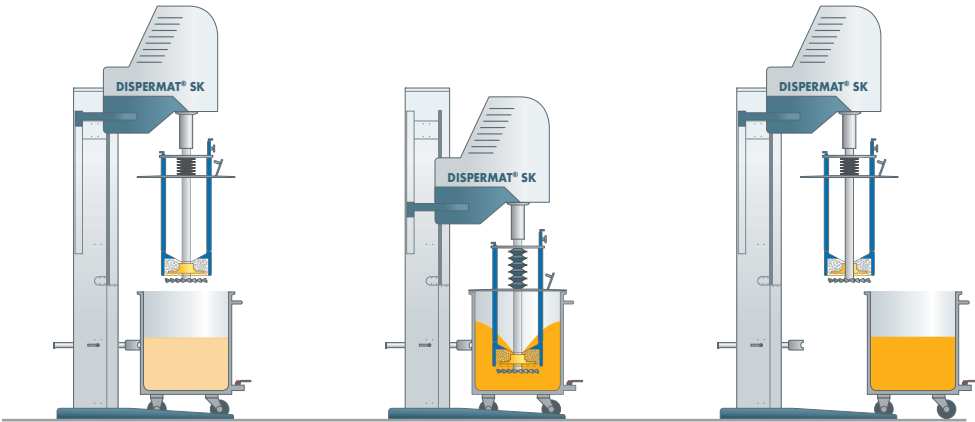
The dissolver disc mounted below the milling basket ensures a milling of the millbase within the milling container with minimal dead volumes.

- 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



- 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 fine grinding process with the basket mill TORUSMILL® SK



TORUSMILL® SK537, ATEX, VACUUM, PLC

Options:

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

TORUSMILL® type	Power kW	Standard product volume litre	Container capacity litre
SK115	15	35 - 400	75 - 500
SK122	22	35 - 400	75 - 500
SK530	30	100 - 1000	200 - 1250
SK537	37	100 - 1000	200 - 1250
SK1000	45 / 55	250 - 1600	500 - 2000



TORUSMILL® SK122

Trend of technology TORUSMILL® TM

2 in 1: patented basket mill with integrated
dissolver in a new trend-setting design from
15 to 55 kW.

High quality. Long-lasting. Practical. The patented dispersion system TORUSMILL® TM:

The new TORUSMILL® TM is fitted with a completely new designed electrical and therefore hydraulic free stand innovation. This intelligent and particularly sturdy design has been developed purely according to functional and economical aspects and it highlights the high demands of innovation of the TORUSMILL® technology.

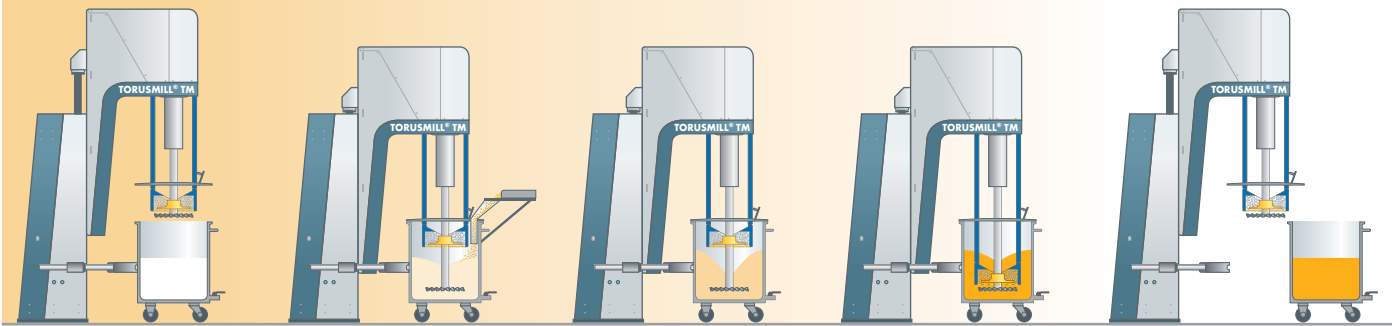
The patented dispersion system of the TORUSMILL® TM allows for a particularly economic complete dispersion process with one machine. The innovation consists of the proven dissolver and an integrated basket mill. In operation, the TORUSMILL® is first used to predisperse the product with a dissolver disc. The torus shaped basket is "parked" in the upper part of the machine. After predispersion the milling basket containing the milling beads is lowered and the milling process for fine grinding starts.

- Predispersion and fine grinding in a closed system
- Particularly robust and functional design
- High circulation rates even with highly viscous products due to the patented pump wheel
- Excellent milling results in a very short time as well as a narrow particle size distribution
- Easy scale-up from the laboratory system TML to the production machine TM
- Customers can use their own containers
- Temperature regulation due to double walled milling basket with restraint-guided cooling system
- Space-saving: 2 procedures - 1 machine
- System related easy to clean allowing for quick product changes

Options:

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

TORUSMILL® TM: Highly efficient combination of dissolver and basket mill. Dispersion and fine grinding in one machine.



TORUSMILL® type	Power kW	Standard product volume litre	Container capacity Liter
TM115	15	35 - 400	75 - 500
TM122	22	35 - 400	75 - 500
TM530	30	100 - 1000	200 - 1250
TM537	37	100 - 1000	200 - 1250
TM1000	45 / 55	250 - 1600	500 - 2000



TORUSMILL® TM537 in vacuum and explosion proof design (according to ATEX) and SPS control



You are interested in our high quality and innovative dispersion and fine grinding systems for laboratory and pilot plant?

Please contact us!

We will be pleased to send you our new catalogue.

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DISPERMAT®
TORUSMILL®

Our extensive product range and
further innovations can be found
under:

www.vma-getzmann.com



Subject to technical modifications