

NEWS 2017



DISPERMAT[®] TORUSMILL[®]

Innovative stirring, dispersing and fine grinding systems for laboratory, pilot plant and production. Made in Germany.

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DISPERMAT® CV-PLUS

Established all-round dissolver for laboratory and pilot plant. In a new design with electric height adjustment.

Versatile laboratory and pilot plant dissolver for stirring, dispersing and fine grinding

Due to the newly developed stand with electric height adjustment the DISPERMAT® CV3-PLUS is an exceptionally versatile laboratory dissolver. With the high quality stainless steel control unit the DISPERMAT® CV3-PLUS combines design and functionality in a new way.

The sturdy central clamping system offers exceptional safety. With the clamping arms the dispersion container is centrally located and secured safely under the dissolver shaft. The integrated safety package in accordance with the machine directive 2006/42/EG provides reliable protection during the dispersing process.

High-grade design, certified quality and durable technology characterise this all-rounder for the laboratory.

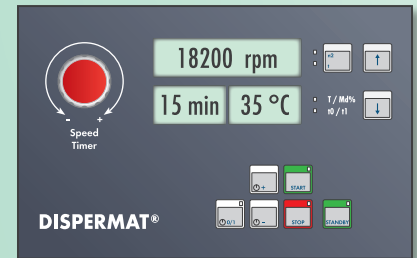
Flexible. Powerful. Innovative.

With the adaptable dispersing and fine grinding systems the dissolver DISPERMAT CV-Plus can be used for various laboratory and pilot plant application. For example:

- Dissolving, mixing and stirring
- Homogenising, emulsifying and suspending
- Dispersing, vacuum dispersing and dispersing of high viscosity substances
- Fine grinding down to the nanoscale

CV – technology

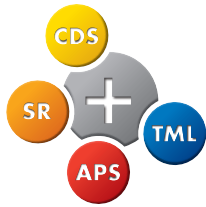
- **Speed adjustment**
Infinitely variable speed adjustment from 0 to 20000 rpm.
- **Timer**
Timer function with display of the pre-selected time as well as the elapsed time. Timer controlled switch over to second speed.
- **Electric height adjustment**
Control of the comfortable electric height adjustment of the drive motor via the plastic foil keyboard.
- **Safety device**
The functions of the safety device according to the machine directive 2006/42/EG are pre-selected via the plastic foil keyboard and displayed digitally.



- **Digital indication**
Display for speed, torque, Timer, product temperature (PT100) and safety device.
- **Membrane key pad**
The splash water protected and solvent resistant plastic foil keyboard allows for particularly simple operation and is easy to clean and maintain

DISPERMAT® type	Power kW	Speed rpm	Torque Nm	Product volume litre
CV3-PLUS	0.75	0 – 20000	0.8	0.05 – 5
CV4-PLUS	1.5	0 – 20000	1.5	0.125 – 8





Flexible. Powerful. Innovative.
Modular dispersion and fine grinding systems
for the DISPERMAT® CV3-PLUS dissolver.

Stainless steel control box with
integrated power electronics:
no separate control cabinet is required

Water and solvent resistant membrane
keyboard with digital displays

Electric height adjustment
of the main motor

Height adjustable central
container clamping device

Stainless steel
working platform



Image: DISPERMAT® CV3-PLUS



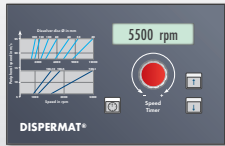
DISPERMAT® Dissolver for laboratory and pilot plant

DISPERMAT® LC

The DISPERMAT® LC is an universal laboratory and pilot plant dissolver which is characterised by its wide power range, making it suitable for small as well as larger product quantities.

The DISPERMAT® LC dissolver can also be used with the adaptable dispersing and milling systems as a bead mill, a basket mill, a vacuum dissolver, a homogeniser and as a dissolver for high viscosity products.

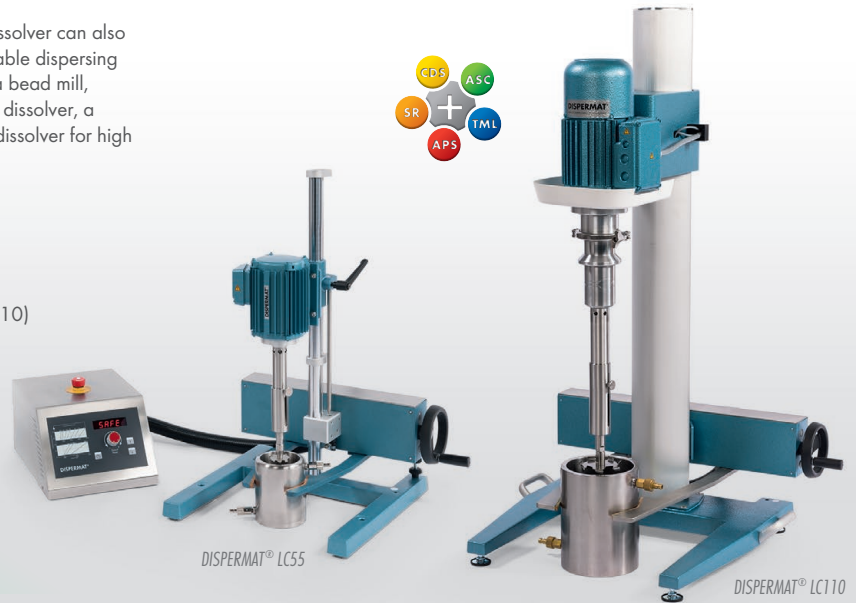
LC – technology



- infinite speed adjustment
- digital display of speed and time
- electric height adjustment (from LC110)
- Timer function with display of the pre-adjusted as well as of the elapsed dispersing time

Power:
0.3 – 4 kW

Product volume:
0.05 – 40 litres



DISPERMAT® LC-EX

The zone 2 explosion proof certified dissolver with electric height adjustment is highly suitable for dispersing,

vacuum dispersing, homogenising, stirring and fine grinding in the hazardous area.

LC-EX – technology



- infinitely speed adjustment
- electric height adjustment
- ON/OFF switch
- Emergency stop switch
- Explosion protection zone 2 according to 94/4/EG ATEX

Power:
0.25 – 0.75 kW

Product volume:
0.05 – 5 litres



DISPERMAT® CN

The all-rounder with electric height adjustment for laboratory and pilot plant up to 7.5 kW

CN – technology



- Digital displays for speed, timer, torque, product temperature, height of the dispersion tool and safety device
- infinitely speed adjustment
- electric height adjustment
- Timer function

Power:
1.1 – 7.5 kW

Product volume:
0.25 – 150 litres



C – technology

Reproducible dispersing and fine grinding results with the innovative C-technology for DISPERMAT® dissolvers and bead mills.



- **Data recording**
recording of the process parameters with graphical indication
- **Database**
100 individual PRESET configurations for speed, timer, switch-off parameters etc.

- **Graphic display**

indications of speed, torque, power, product temperature, timer, peripheral speed and height of the dispersing tool

- **Repeatability**

dispersion method: constant speed and constant power input for an optimum repeatability

- **Switch-off parameters**

User definable switch-off values for temperature, speed, torque and power

- **Height measurement**

adjustable working range for different container sizes

- **Power compensation**

calibration of the net power

- **WINDISP 7®**

data interface to WINDISP 7® software for documentation, analysis, research and development and quality control

- **Explosion protection according to 94/4/EG ATEX**

an explosion proof version of the C-technology up to zone 0 is available as an option for many DISPERMAT® dissolvers and bead mills

DISPERMAT® CA



High-speed dissolver with electric height adjustment and C-technology. Suitable for all adaptable accessory systems.



Power: 0.55 – 2.5 kW
Product volume: 0.05 – 12 litres

DISPERMAT® VL

WINDISP 7®

Dispersing under vacuum in single and double wall vacuum containers with the C-technology.

Optional scraper system, explosion protection according to ATEX.

Power: 2.2 – 4 kW

Product volume: 0.3 – 80 litres



DISPERMAT® AE

Highly efficient dissolver with innovative process control for laboratory, pilot plant and the production of small quantities. Option: explosion protection up to zone 0 according to ATEX.

- **Flexible, powerful, innovative:** with the adaptable dispersing and fine grinding systems the DISPERMAT® AE dissolver can also be used as a bead mill, a basket mill, a vacuum dissolver, a vacuum system for thin wall containers and buckets, homogeniser and dissolver for high viscosity products.
- extensive process control with the innovative C-technology
- functional and robust stands with electric height adjustment and integrated safety device in accordance with the machine directive 2006/42/EG

Power: 1.1 – 7.5 kW
Product volume: 0.25 – 150 litres



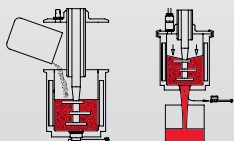
DISPERMAT® AE12
with the adaptable vacuum
system CHS30 for thin wall
containers and buckets

DISPERMAT® bead mills for laboratory and pilot plant

APS Bead mill

Adaptable bead mill for DISPERMAT® dissolver.
Option: nano, ceramic, pressure and vacuum design.

In combination with an APS milling system the laboratory dissolver DISPERMAT® changes into a bead mill. The milling system is easily adapted to the corresponding dissolver. The DISPERMAT® can be used as a dissolver as well as a bead mill.

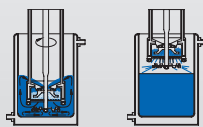


Product volume:
8 ml – 3.5 litres

TML Basket mill

Adaptable basket mill for DISPERMAT® dissolver.
Option: nano, ceramic and vacuum version, scraper

The addition of the TML basket mill converts the DISPERMAT® into a highly efficient fine grinding system. After the pre-dispersion the dissolver shaft is removed from the adapter flange and is replaced by the modular TML basket mill.



Product volume:
0.25 – 50 litres

DISPERMAT® SL-B

Horizontal bead mill for fine grinding in the pass as well as the re-circulation process for milling beads 0.8 mm and larger. The speed is infinitely adjustable via the stainless steel control box. Speed and timer function are displayed digitally, the product temperature is indicated on an integrated thermometer.



Power:
1.1 kW

Product volume:
150 – 750 ml

DISPERMAT® SL and DISPERMAT® SL-NANO

The horizontal laboratory and pilot plant DISPERMAT® SL bead mills are equipped with the innovative C-technology.

Furthermore the DISPERMAT® SL-NANO can be operated with smallest beads starting from 0.1 mm.

- Fine grinding of low to high viscosity products in the re-circulation and pass process
- Milling system made of stainless steel, ceramic, siliciumcarbide
- efficient cooling system
- high millbase yield
- dynamic gap millbase separation
- mechanical shaft sealing
- reproducible milling results



Power:
1.1 – 4 kW

Product volume:
0.05 – 50 litres

DISPERMAT® SL-C

DISPERMAT® SL-EX

Explosion proof laboratory and pilot plant bead mills according to 94/4/EG ATEX up to zone 0.

The high-performance bead mills can be fitted with the M-EX technology or C-technology.



Power:
1.1 – 4 kW

Product volume:
0.05 – 50 litres

DISPERMAT® SL-M EX
and DISPERMAT® SL-C EX

DISPERMAT® and TORUSMILL®: Dissolvers and bead mills for production

DISPERMAT® RS

Horizontal bead mill for production. Fine grinding also for temperature sensitive products. Options: milling system made of ceramic, SPS control, ATEX zone 0/1/2



Power:
15 - 37 kW

Product volume:
25 - 450 litre/hour

DISPERMAT® RS5
and DISPERMAT® RS10

DISPERMAT® SC

Multipurpose production dissolver for any container size up to 2000 litres.

Option: ATEX zone 0/1/2, vacuum design, SPS control, scraper system

Power:
15 - 55 kW

Container capacity:
75 - 2000 litres

DISPERMAT® SC122



TORUSMILL® SK

Compact highly efficient basket mill with motors from 15 up to 55 kW.

Option: ATEX zone 0/1/2, vacuum design, SPS control, ceramic version

Power:
15 - 55 kW

Container capacity:
75 - 2000 litres

TORUSMILL® SK122



TORUSMILL® TM

2 in 1: dispersing and fine grinding with one machine. Patented basket mill with system integrated dissolver for a power range from 15 up to 55 kW.

Option: ATEX zone 0/1/2, vacuum design, SPS control, ceramic version

Power:
15 - 55 kW

Container capacity:
75 - 2000 litres

TORUSMILL® TMS37



Quality and precision made in Germany

DISPERMAT® TORUSMILL®

Our experience, your advantage: Please visit us in our highly equipped laboratory and pilot plant for a personal product demonstration with your own materials. Our skilled engineers will be pleased to show you the impressive capabilities of our patented DISPERMAT® and TORUSMILL® dispersing and fine grinding systems. We are looking forward to your visit.

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Subject to technical modifications