

NETZSCH

Proven Excellence.



MASTERMIX® Dissolver

Practical and well dispersed!

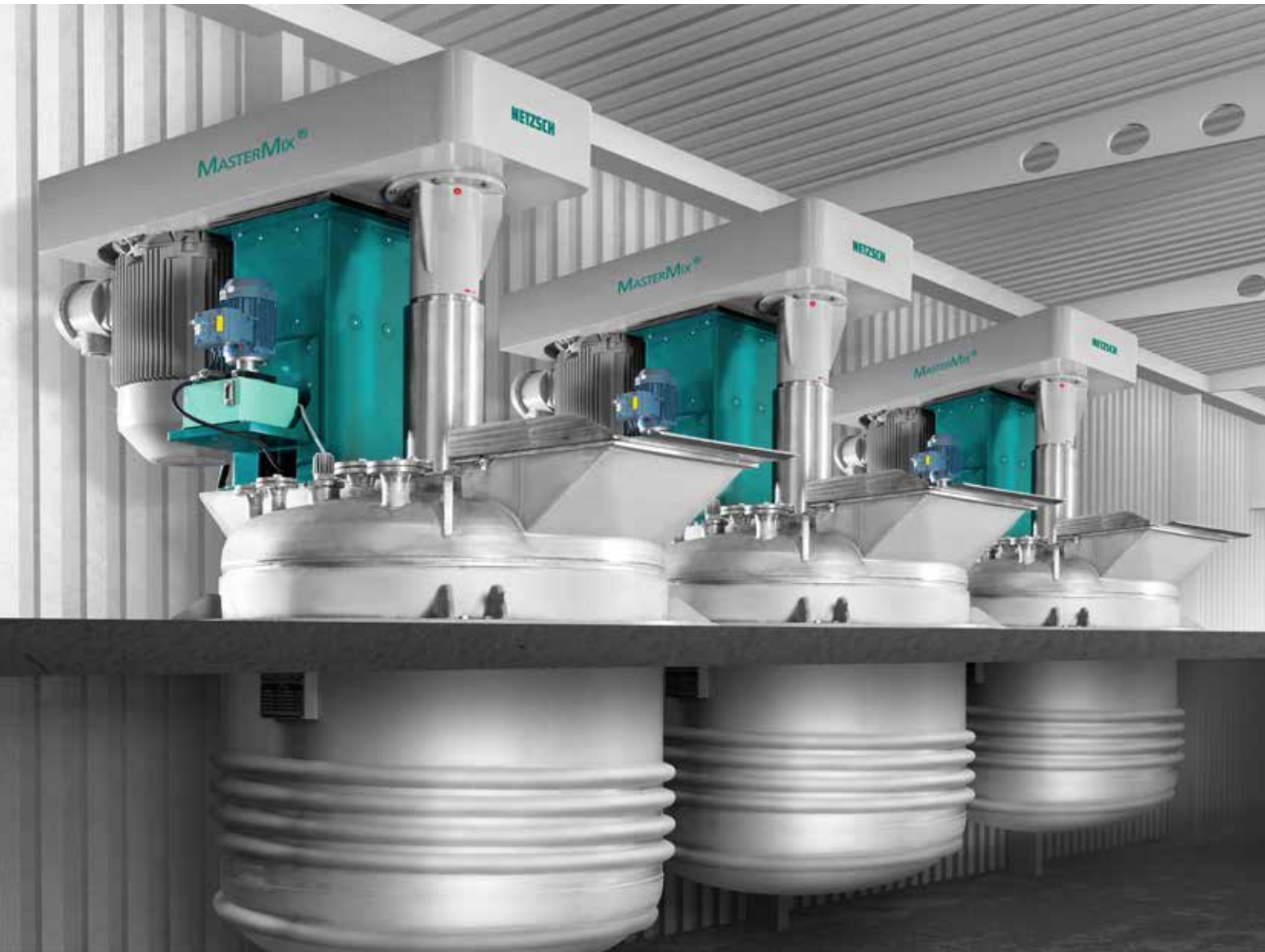
MASTERMIX[®] Dissolver

Proven Dispersing & Mixing Technology

Dissolvers are the most versatile and most frequently used machines in industry for the mixing of solids in liquids.

The NETZSCH *MASTERMIX*[®] High Speed Mixer is suitable for processing batches of up to 1,500 l in exchangeable tanks. For larger batches of up to about 10,000 l our mezzanine-mounted units with stationary tanks can be used.

The speed of the shaft with the dispersing tool can be adjusted over a wide range, depending on the product and application, mixing, stirring, dispersing. In addition, the height of the mixing tool in the mixing tank can be adjusted via the hydraulically operated lifting column, so that good product circulation and flow for efficient solids intake is always guaranteed. For high-viscosity products, the machine can optionally be equipped with wall and floor scrapers to improve the mixing and dispersing efficiency.



Features

- Wide range of speeds for all mixing and dispersing tasks
- Frequency-controlled, energy-efficient drives
- High efficiency
- Speed adjustment via rotary switch
- Digital speed display
- Automatic speed reduction system
- Hydraulic lifting/lowering device
- Stroke adjustment via rotary switch
- Clamps for holding the tank in place
- Spindle made of high-strength, chemical-resistant stainless steel
- Various application-specific dispersion disks



MASTERMIX® 15 Dissolver

Advantages at a glance

- Compact yet robust design - minimal footprint
- Simple, logically-structured operating concept reduces costs and saves time
- We offer customized solutions
- A wide range of equipment options for the greatest process reliability
- Various, quickly and easily exchangeable dispersion tools to increase efficiency
- Optional vacuum model facilitates dispersion and deaeration in one step and prevents any exposure to fumes and dust
- Temperature measurement via sensor in a wand, in the agitator shaft or in the tank to increase production reliability
- Optimal positioning of the dispersion tools via hydraulic lifting/lowering device
- Safety equipment in accordance with the latest guidelines and for the protection of your employees
- Optimal operator protection through ...
 - 2-hand operation for raising/lowering in model with tank lid
 - Automatic shutdown if the toothed disc is raised above the level of the tank
 - Contact protection for rotating shaft
 - Bellows as dust protection for shaft



MASTERMIX® 37 Dissolver in vacuum design with tank wall scraper, scale platform, PLC control system

The Machine Equipment

Summary of Dispersing and Mixing Tools

Type HS Fine-toothed Disk

standard dispersion disk for medium-viscosity products, e.g. from the paint and ink industry



NElast disk (yellow)

for abrasive mineral and ceramic products



High-performance Dispersion Disk

creates an additional axial flow for mixing and dispersing higher viscosity products



Type HF Coarse-toothed Disk

for gentle shear stress with increased turbulent circulation of temperature-sensitive products with a high solids content



Double-suction Disk

for high dispersion performance when solids are fed rapidly and wetting times are short - used for high-viscosity and hard-to-wet products



Of course, other mixing tools not listed here, such as propeller, butterfly, dissolving basket, etc. are available.

NETZSCH BASE Control Panel

- 1 Power display in KW for the main drive motor
- 2 Speed indicator for the dispersing shaft
- 3 Agitator OFF key
- 4 Agitator ON key
- 5 Agitator LIFT/LOWER rotary switch
- 6 Agitator FASTER/SLOWER rotary switch
- 7 Timer for preselection of the batch duration
- 8 EMERGENCY OFF



Options

- Customized tank cover design
- Vacuum design
- Scraper units, depending on size and application, one-armed, two-armed, as a cage with wall and floor scrapers
- Temperature probe via wand, shaft, or tank
- Digital timer
- Mezzanine design with swivel-mounted machine head, optionally motor-driven
- ATEX-compliant models up to and including Zone 0 (gas and dust) in the mixing tank, with tank design and special shaft feed-through as zone separation
- Tank clamping device, optionally with electric drive
- PLC controls with customer-specific functions and integration into a higher-level control system
- Use of various mixing tools possible
- Sight glass with light
- Alternative drive concepts upon request
- All stainless steel design for cosmetic and pharmaceutical applications



Flat tank cover



Separately driven wall scraper



Vacuum tank cover with scraper drive



Vacuum cover with feed opening as bag support

Applications

- Paints
 - Industrial paints
 - Architectural paints
 - Automotive paints
- Printing inks
 - Offset printing inks
 - Liquid printing inks
- Pigments and dyestuffs
- Sealants
- Adhesives
- Plastisols
- Binding agents
- Pharmaceuticals
- Cosmetics
- Minerals
- Confectionery and food industry

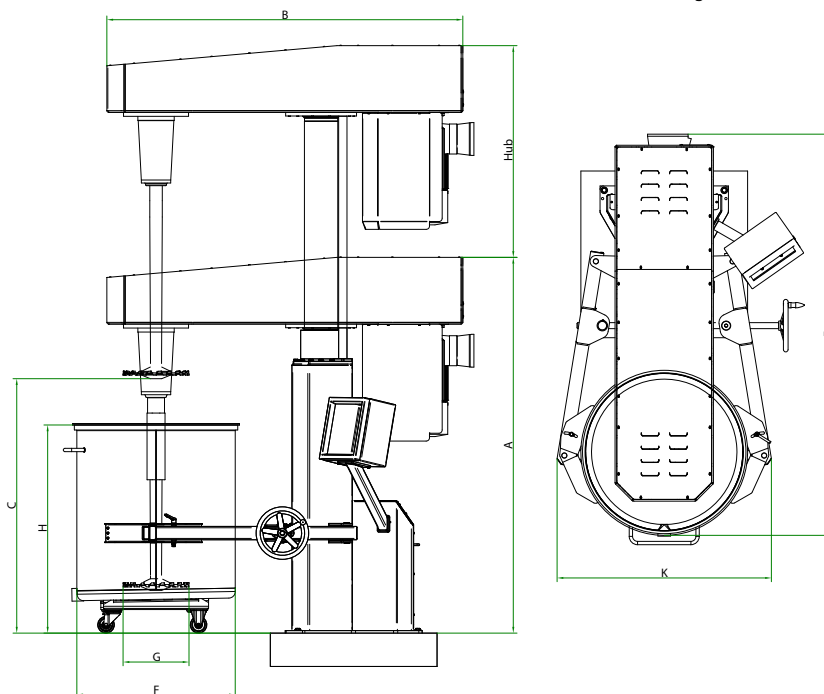


Technical data


Type	Drive [kW]	Weight [kg]	Speed [min ⁻¹]
<i>MASTERMIX</i> ® 4	4	600	300 - 5,000
<i>MASTERMIX</i> ® 5	5	600	300 - 5,000
<i>MASTERMIX</i> ® 8	8	750	200 - 3,000
<i>MASTERMIX</i> ® 11	11	750	200 - 3,000
<i>MASTERMIX</i> ® 15	15	1,450	170 - 2,600
<i>MASTERMIX</i> ® 18	18.5	1,450	130 - 2,000
<i>MASTERMIX</i> ® 22	22	1,450	120 - 1,800
<i>MASTERMIX</i> ® 30	30	2,100	100 - 1,500
<i>MASTERMIX</i> ® 37	37	2,100	90 - 1,350
<i>MASTERMIX</i> ® 45	45	2,100	90 - 1,350
<i>MASTERMIX</i> ® 55	55	3,050	90 - 1,300
<i>MASTERMIX</i> ® 75	75	3,050	70 - 1,000
<i>MASTERMIX</i> ® 90	90	3,050	70 - 1,000
<i>MASTERMIX</i> ® 110	110	3,500	60 - 850
<i>MASTERMIX</i> ® 132	132	3,500	55 - 800
<i>MASTERMIX</i> ® 160	160	5,000	50 - 700

Type	Dimensions [mm]								
	A	A _{max}	B	C	E	F _{min/max}	G	H _{max*}	K _{max}
MASTERMIX® 4	1,305	1,955	1,145	715	1,250	290 - 500	100 - 150	650	1,300
MASTERMIX® 5	1,305	1,955	1,145	715	1,250	290 - 500	125 - 200	650	1,300
MASTERMIX® 8	1,525	2,320	1,320	945	1,150	350 - 600	175 - 250	900	850
MASTERMIX® 11	1,524	2,319	1,342	945	1,550	400 - 550	200 - 250	900	850
MASTERMIX® 15	2,100	3,200	2,140	1,315	2,700	400 - 1,350	250 - 380	1,270	1,900
MASTERMIX® 18	2,100	3,200	2,140	1,315	2,700	400 - 1,350	250 - 380	1,270	1,900
MASTERMIX® 22	2,100	3,200	2,140	1,315	2,700	400 - 1,350	300 - 500	1,270	1,900
MASTERMIX® 30	2,270	3,540	2,140	1,520	2,700	400 - 1,350	325 - 500	1,400	1,900
MASTERMIX® 37	2,270	3,540	2,140	1,520	2,700	400 - 1,350	325 - 500	1,400	1,900
MASTERMIX® 45	2,270	3,540	2,140	1,520	2,700	400 - 1,350	325 - 500	1,400	1,900
MASTERMIX® 55	2,790	2,290	2,750	1,790	3,300	600 - 1,550	450 - 550	1,700	2,100
MASTERMIX® 75	2,790	4,290	2,750	1,790	3,300	600 - 1,550	550 - 625	1,700	2,100
MASTERMIX® 90	2,790	4,290	2,750	1,790	3,300	600 - 1,550	625 - 700	1,700	2,100
MASTERMIX® 110	3,180	4,980	3,200	2,050	4,000	1,200 - 2,400	600 - 850	1,950	2,500
MASTERMIX® 132	3,180	4,980	3,200	2,050	4,000	1,200 - 2,400	600 - 850	1,950	2,500
MASTERMIX® 160	3,180	4,980	3,200	2,050	4,000	1,200 - 2,400	600 - 850	1,950	2,500

*) max. height - moveable and flat cover without scraper



*Further machine models and special designs are available upon request.
Kindly contact us for more information.*



The NETZSCH Group is an owner-managed, international technology company with headquarters in Germany. The Business Units Analyzing & Testing, Grinding & Dispersing and Pumps & Systems represent customized solutions at the highest level. More than 3,800 employees in 36 countries and a worldwide sales and service network ensure customer proximity and competent service.

Our performance standards are high. We promise our customers Proven Excellence – exceptional performance in everything we do, proven time and again since 1873.

Proven Excellence. ■

Business Unit Grinding & Dispersing – The World's Leading Grinding Technology

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NETZSCH Trockenmahltechnik | Germany
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NETZSCH Lohnmahltechnik | Germany
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