

# MILLMIX 20

# BEAD BEATER

## MAIN FEATURES:

- > Fast and efficient disintegration of samples
- > Suitable sample prep for qPCR, HPLC
- > Used in forensic science, pharmacy, microbiology, biotechnology, veterinary, chemistry, geology, metallurgy, ecology, food and beverage control, nutrition ...

**LARGEST STROKE ON MARKET**  
**MOST HOMOGENIZED SAMPLE**

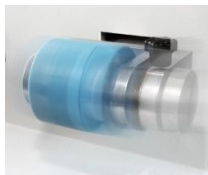
MILLMIX 20 is developed for scientists, who need efficient disruption of small amounts of sample.

### Easy to use

One knob controller together with bright LED display is simple to use and gives all important information at once.

### Powerful & Quick

Broad range of standard and custom designed tube holders makes MillMix 20 as a suitable tool for dedicated scientific work as well as daily routines. Efficient disintegration, homogenization and mixing in seconds.



### Most Advanced Technology

Powerful DC brushless motor, which is controlled by digital processor, needs no maintenance.

### Broad range of jars & tube holders

Largest Jar capacity 2 x 50 ml  
Hard steel and stainless steel jars  
Tungsten Carbide jar  
Rounded POM Jars  
Squared POM Jars  
Special adopters by customer requests available



### Applications

MillMix is useful tool for disintegration of many materials and can be used on different fields of science: microbiology, biotechnology, medicine, pharmacy, veterinary, chemistry, geology, metallurgy, nutrition, food and beverage control, forensic science...



## TECHNICAL SPECIFICATIONS

Model	MILLMIX 20
Voltage	230 V / 50-60 Hz 115 V / 50-60 Hz
Power	200VA
Time	5s - 99 min 50 sec, up to 10min in steps of 1sec, above in steps of 10s, HOLD function
Vibrating frequency	3 - 30Hz, in steps of 0,1Hz 30Hz equals 3600 strokes/min
Stroke	32mm
Max. Sample size	~ 20mm
Max. volume	2 x 50ml
Recommended load	Up to 2 x 600g
Net weight	42kg
Dimensions	365 x 425 x 225mm

Grinding jar (nominal vol)	App. sample amount	App. feed size	Balls
1,5 ml	0,5 ml	1 mm	φ 3 mm
1,5 ml	0,5 ml	1 mm	φ 5 mm
5,0 ml	2,0 ml	2 mm	φ 7 mm
10 ml	4,0 ml	4 mm	φ 10 mm
25 ml	10,0 ml	10 mm	φ 15 mm
50 ml	20,0 ml	15 mm	φ 25 mm

## ORDERING INFORMATION

MILL MIX 20, 230V / 50-60Hz	670.000
MILL MIX 20, 115V / 50-60Hz	1670.000
MILL MIX 20, 230V / 50-60Hz, Stainless steel housing	670.800

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# MILLMIX 20 ACCESSORIES AND APPLICATIONS

## ACCESSORIES

STAINLESS STEEL Jars (volume in ml)	HARD STEEL Jars (volume in ml)	POM Jars (volume in ml)	ZYRCONIUM Jars (volume in ml)	TUNGSTEN CARBIDE Jars (volume in ml)
1,5 / 5 / 10 / 25 / 35 / 50	1,5 / 5 / 10 / 25 / 35 / 50	50	35	25
STAINLESS STEEL Balls ( $\phi$ in mm)	HARD STEEL Balls ( $\phi$ in mm)	AGATE Balls ( $\phi$ in mm)		
3 / 5 / 7 / 10 / 12 / 20 / 25	3 / 5 / 7 / 10 / 12 / 25	10		
GLASS Balls ( $\phi$ in $\mu$ m)	TUNGSTEN CARBIDE Balls ( $\phi$ in mm)	ZYRCONIUM OXIDE Balls ( $\phi$ in mm)		
100 / 250	3 / 5 / 7 / 15 / 20	10 / 15 / 20		
MICRO TUBE Holders	MICROTITER Holders	TUBE Holders	CUSTOM MADE Holders	
1,5ml/2,0ml: 6, 12 and 24 places 0,2ml: 12 places	PTFE & STAINLESS STEEL 96 well (3x standard or 1x deep well plate)	for 5ml, 15ml and 50ml conical tubes	Special holders for homogenization on customer's request	

## APPLICATIONS

We develop applications in cooperation with our partners from institutes, universities and hospitals.  
*Applications on customer's requests.*

### MOSTLY USED APPLICATIONS

Material for examination	Field of use	Adaptor
Granite, Marble, Clay mineral	Geology	Stainless steel, 50ml
Chicken bone	Biomedicine	Stainless steel, 50ml
Slag	Metallurgy	Stainless steel, 50ml
Titanium dioxide	Chemical industry	Tungsten carbide, 25ml
Ceramic compacts	Processing of ceramic powders	Tungsten carbide, 25ml
Hard material (rust, soil, bacteria, fungi, biofilm)	Molecular biology	POM, 6 x 2ml
Soft material (tissue, blood, food, bacteria, fungi, cell, plant)	Molecular biology	POM, 6 x 2ml
Dry material (rust, soil, food, plant)	Molecular biology	POM, 6 x 2ml
Liquid material (blood, food, drink, bacteria, fungi, cell)	Molecular biology	POM, 6 x 2ml
Body fluid samples	Medicine	POM, 6 x 2ml
Human blood	Biomedicine	POM, 6 x 2ml
Dog mastocytoma	Biomedicine veterinary	POM, 6 x 2ml
Oil extraction from fermented broth (clavulanic acid)	Pharmacy	Holder for 10 x 50ml conical tubes (FALCON tubes)
Disruption of intestine material, isolation of bacteria	Biology	POM, 6 x 2ml
DNA Extraction from Frozen Leaves	Biology	Adaptors for 2 ml screw cup tubes
Bone and teeth grinding for DNA researches	Forensic science	Stainless steel, 25ml forensic jar
Human hair grinding for DNA researches	Forensic science	Stainless steel, 35ml
THC definition, Country of Origin of Cannabis flower	Forensic science	POM, 6 x 2ml
THC definition, Country of Origin of Cannabis stalk	Forensic science	Stainless steel, 50ml
THC definition, Country of Origin of Cannabis plant	Forensic science	Holder for 10 x 50ml conical tubes (FALCON tubes)
Definition of active substance and definition of steroidal type	Forensic science	Stainless steel, 50
Chemical analysis of the heavy metals in food	Nutrition	POM jar, 50ml

We reserve the right to alter specification details etc. without prior notice or liability! V:11-19

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