

MEGAMIXER

USER & SAFETY INSTRUCTIONS

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MEGAMIXER ELECTRIC POWER TOOLS

SAFETY INSTRUCTIONS - ELECTRICAL

Before use always check the electrical cable, plug and switch for damage; if necessary have any repairs done before use; minor electrical faults may cause electrical hazards and serviceability problems

Check that the voltage for the power tool is right for the electrical supply; also that the kva rating is suitable for the transformer (110 volt) or residual current device (230 volt)

Conform to all Health & Safety, electrical and trade association standards

Observe site electrical rules; most building sites are strictly 110 volt

Use common sense when handling this electric power tool; the operator is responsible for its safe use

Do not carry, drag or pull power tool by the cable

Ensure the cable feeds away from the mixing tub

Do not trail the electric cable across the work area or near the mixer paddle

Do not use the electric power tool in the rain or wet conditions

Stop use if there are any signs of electrical faults, overloading or overheating

Keep extension cables as short as possible; ensure cables are not left coiled or on a reel; cables, plugs and sockets should be suitable for site and external use

Do not repeatedly trigger power tool on and off; if the power tool has a soft start switch or variable speed control, do not run on slow speeds for extended periods

Do not earth power tool, it is double insulated

Always unplug power tool when not in use; do not accidentally start power tool; avoid carrying tool with finger on the trigger

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SAFETY INSTRUCTIONS – MIXING

Conform to material manufacturers recommended work methods and mixing instructions; observe Health & Safety and COSHH recommendations

Unplug power tool before changing paddles, undertaking any maintenance or cleaning

Check that the power tool on/off switch is kept clean and that the lock button freely disengages; if clogged with resin or material have switch changed immediately

Wear dust masks, gloves and protective clothing if recommended by the material manufacturer

Hold power tool firmly with both hands

When the paddle is turning, ensure the paddle head and shaft are pointing away from the person

Ensure mixing tub is on secure on a firm base and level ground

The mixer paddle should be clean and undamaged; a bent or twisted paddle will damage the power tool's front end bearings and gearbox

Do not put hands near mix tub or paddle when in use or carry the power tool by the paddle

Do not overload power tool by using too large a paddle on heavy mixes or mix heavy and stiff materials at high speed

Do not wear loose clothing that could catch in the power tool or paddle; keep long hair tied back

Do not use the electric power tool to mix flammable materials

Do not let fluid or solids from mix get into motor or electrical components

Do not force the mixer; let the paddle do the work

Work in a well ventilated area

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USE

MEGAMIXERS are slow speed hand held mixer drills designed for mixing plasters, cements, adhesives and resins, mortars, aggregates, coatings or paints supplied either prebagged, in bulk, containers or drums

The power tools are supplied with and are designed for use with EPIMIXER paddles

The MEGAMIXER can also be mounted with specially produced MEGAMIXER stands, clamps, drums, tub mixers and equipment

Do not use any paddle larger than the maximum recommended paddle size

A drill chuck may be fitted to the power tool if required

ASSEMBLY

Before attempting to fit the EPIMIXER paddle ensure power tool is not plugged in

For power-mixers supplied with threaded 'G' type paddle, check that the connector is already fitted into the drive shaft of the mixer drill; grease the paddle shaft thread and then fit the shaft into the threaded connector and hand tighten

If the mixer drill is supplied with a chuck instead of a threaded connector, fit chuck onto mixer drill drive shaft connector; insert paddle into chuck jaws and tighten using chuck key

Fit side handle onto the power tool with the fixing bolts provided (models MM16 & MM19 only)

Check power mixer voltage, plug and electrical supply are compatible

Check on/off switch is in 'off' position, i.e. not locked down, before plugging in at transformer (110 volt) or residual current device (230 volt)

To start mixer, trigger on/off switch; switch can be locked on by pressing down side lock button on switch; to release press down lock button again

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OPERATION - MIXING

For prebagged materials, pour bag contents into a mixing tub (REFINA supply 90, 65, 40, 30ltr heavy duty tubs or baths); gauge with correct amount of water, fluid or resin; insert mixer paddle into liquid part of mix and trigger power tool; work mixer paddle through material until mixed

For very dense and stiff mixes where there is no 'flow' in the material, work the paddle slowly up and down like a plunger and round the mix tub at the same time so that every part of the tub is covered by the paddle head

For paints and fluids insert mixer paddle completely in liquid and keep immersed; a vortex may be created if too large a paddle is used; with thicker paints, sealants and adhesives ensure the mix tub or tin is securely clamped and held

To minimise air entrainment keep paddle head immersed and avoid vortexing; to plasticise or entrain air allow the paddle to break the surface of the mix

The size of the paddle governs the volume (ltr) of the mix capacity; the power (wattage) of the drill governs the maximum size of the paddle and the mix weight

Choose a paddle size approximately a third of the diameter of the mixing tub or drum; for wet mixes use a taller vessel; for drier and stiffer mixes use a shallower and wider tub; for mixing in paint tins, use a small paddle to avoid splashes

Always clean the mixer paddle after use; run paddle in bucket of water or sand to clean

For materials that require cleaning with solvent, unplug power tool, remove paddle from drill and clean with stiff paint brush; do not run mixer drill and paddle in a bucket of solvent

MIXER DRILL SPEED CONTROL

The MM22 & MM30 power mixers have mechanical speed change gearboxes; use the slower speed on power mixer for heavy and stiff materials; use slowest gearbox speed on mixer drill to generate highest mix torque

To change the mixer speed, use the black knob on the side of the gearbox; push the knob in and slide down towards the front end of the drill for slower speed. Slide it back up for higher speed; if the gear does not engage first time, turn drill shaft half turn to engage. Do not change gear while power tool is running

The MM16, MM19 & MM21 are single speed mixer drills

The power tools are also available with soft start variable speed switches ('S' models); the soft start should be used to start the paddle at slow speed and then run up to full speed; do not use the soft start trigger to run the power tool at slow speeds

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MEGAMIXER MODELS

All MEGA-MIXERS are slow speed, high torque purpose built mixer drills, supplied with technically designed paddles for mixes from 5ltr up to 150kg; they are heavy duty specialist trade power tools in 110 or 230 volt, with one year guarantee on both mixer drill and paddle and interchangeable EPIMIXER paddles

MM21, MM22, MM30

These are heavy duty electric power mixers, designed for constant mixing with powerful double insulated motors and robust mechanical gearboxes

Model	Max Paddle	Speed	Mix Size
MM21 1100 watt	MR3 140G, 5½"	1 sp 580 rpm	3 bag mix
MM22 1100 watt	MR3 140G, 5½"	2 sp 250/450 rpm	4 bag mix
MM30 1700 watt	MR3 160G, 6¼"	2 sp 230/560 rpm	5 bag mix
MM30 1700 watt	MR3 200G, 8"	2 sp 230/560 rpm	6 bag mix

Also available with soft start variable speed switch

MM16, MM19

These are single speed power mixers

Model	Paddle	Speed	Mix Size
MM16 700 watt	MR3 100G, 4"	1 sp 300 rpm	1 bag mix
MM19 1000 watt	MR3 130G, 5"	1 sp 580 rpm	2 bag mix

Also available with soft start variable speed switch

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EPIMIXER PADDLE APPLICATIONS & SIZES

MEGAMIXERs are supplied as standard with an EPIMIXER CONTRACTOR MR3 paddles; the reverse spiral paddle shape produces a thorough and systematic mix for a wide range of materials; the shape generates an easy mix action, the paddle 'floats' in the mix

The MR3 series are for wet, plastic, pourable materials, coatings and plasters; the MR4's are for heavier and trowelable mortars and epoxies; the MR4's bottom to top mix action minimises air entrainment; the MR7's are for mixing sand and cement and materials with coarser aggregates

MR3 PADDLES

Mix Action - shear, top to bottom; easy action; paddle 'floats' in mix
Shape - 3 blade reverse spiral
Drill - heavy duty 1/2"+, slow speed 200-600rpm

Model	Mix Size	Head/Shaft	Drill
MR3 80B	5-15 ltr/kg	3" 80/500 mm	450 watt
MR3 100G	10-25 ltr/kg	4" 100/600 mm	600 watt
MR3 130G	20-50 ltr/kg	5" 130/600 mm	700 watt
MR3 140G	25-75 ltr/kg	5½" 140/600 mm	750 watt
MR3 160G	40-100 ltr/kg	6¼" 160/600 mm	850 watt
MR3 200G	100+ ltr/kg	8" 200/600 mm	1000 watt

MR4 PADDLES

Mix Action - turn and lift, bottom to top; paddle 'screws' into mix
Shape - screw spiral
Drill - heavy duty 1/2"+, slow speed 200-600rpm

Model	Mix Size	Head/Shaft	Drill
MR4 80B	5-15 ltr/kg	3" 80/500 mm	450 watt
MR4 100G	10-25 ltr/kg	4" 100/600 mm	600 watt
MR4 130G	20-50 ltr/kg	5" 130/600 mm	700 watt
MR4 160G	40-100 ltr/kg	6¼" 160/600 mm	850 watt
MR4 200G	100+ ltr/kg	8" 200/600 mm	1000 watt

MR7 PADDLES

Mix Action - cut and turn, low shear; easy action for heavy materials
Shape - 4 blade basket
Drill - heavy duty 1/2"+, slow speed 200-600rpm

Model	Mix Size	Head/Shaft	Drill
MR7 130G	20-50 ltr/kg	5" 130/600 mm	700 watt
MR7 160G	40-100 ltr/kg	6¼" 160/600 mm	850 watt

Note the "G" paddles ie MR7 160G are threaded and are designed for direct fitting via connector to mixer drill drive shaft; "B" paddles have hexagonal shafts and can only be used with a MEGAMIXER fitted with a drill chuck

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EPIMIXER PADDLE SELECTION

CONCRETE	
cement & aggregate	MR7
foamed	MR3
CONCRETE REPAIR	
bonding, slurries	MR3
mortars, trowelable	MR4
grouts	MR3
injection resins	MR3
DRIVEWAYS	
cementitious toppings	MR4
resin bonded	MR7
DRYLINING	
coving & caulking	MR3
EPOXIES & RESINS	
adhesives, 2 packs	MR3
coatings, brush & spray	MR3
pourable	MR3
trowelable, stiff	MR4
with heavy aggregate	MR7
FLOORING	
epoxy self-levelling	MR3
epoxy medium & heavy duty	MR4
granolithic	MR7
latex, self-levelling	MR3
paints	MR3
patch repair, cement	MR4
polymer, thin & thick bed	MR4
quartz	MR4
screed, sand & cement	MR4
terrazzo	MR7
toppings, smoothing	MR3
GROUTS	
anchors & fixings	MR3
pouring, pumping	MR3
putties	MR7

MORTARS & ADMIXES	
brick, pointing	MR4
fast set	MR4
plasticised	MR4
polymer, lightweight	MR4
polymer, stiff	MR4
render	MR4
PAINTS & COATINGS	
artex, textures	MR3
brush or spray applied	MR3
cementitious	MR3
epoxy, 2 pack	MR3
high solids	MR4
PLASTERS	
bonding	MR3
finish, set, thistle	MR3
float, sand & cement	MR4
one coat, universal, spray	MR3
synthetic, polymer	MR3
thermal, accoustic	MR3
REFRACTORY CEMENTS	
spray applied, trowelable	MR4
RENDERS	
external insulation	MR3
polymer, spray	MR3
sand & cement	MR7
tanking, waterproofing	MR4
tyrolean	MR3
SCREED see FLOORING	
SEALANTS	
gun grade	MR4
pouring grade	MR3
TILING	
cements & grouts	MR4
epoxy adhesives	MR3

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CE – DECLARATION OF CONFORMITY

The product conforms to the basic requirements of the relevant EC directives. A conformity assessment method as provided for in the directives has been performed.

Designation of equipment:

MM16S
MM19S
MM21S
MM22
MM22S
MM30
MM30S

For verification in accordance with low-voltage directive 73/23/EWG, the following standards were applied.

DIN VDE 0740 T.1/04.81 + A1/07.82 + A2/10.93
+ T.21/01.94, prEN 50144, HD 400,
E DIN VDE 0740-505/12.92 (IEC 61 F(CO) 89),
VBG4, VBG5

For verification in accordance with EMC-directive 89/336/EWG the following standards were applied.

EN 61000-3, EN 50082-1:19921,
EN 55014:1993, prEN 55014-2:05.94
EN 55104:1995

The company shall keep the following technical documentation in readiness for inspection:

Operating instructions
Design diagrams
Test documents
Other technical documentation

GUARANTEE

The mixer drill is guaranteed one year from the date of purchase; the invoice for the purchase of the power tool serves as your proof of purchase and starting date for the guarantee