



BN Products-USA, LLC.

3450 Sabin Brown Road • Wickenburg, Arizona 85390

(800) 992-3833 • (928) 684-2813 • www.bnproducts.com

Product Manual **Professional Material Mixers**



BN6160



BN6400



BN6402A



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PRODUCT DESCRIPTION

From low-viscosity paints to high-viscosity mortars these electric mixers will get your job done quicker, safer and easier than a conventional ½” drill motor. The ergonomically designed handles and the variable 2-speed motor with soft-start make the job quicker, safer and easier. The heavy-duty gearbox and high-torque motor will outlast a standard ½” drill motor by 3-4 times.

The machines have been designed to mix liquid and powder building materials such as paint, mortar, adhesive, plaster, epoxy and similar substances.

The relevant mixing action depends on the consistency of the materials and the quantity that has to be mixed. This must be set up for the appropriate mixing paddles.

BNR6208B maximum mixing capacity is 3 bags (25 gallons) or 120 lbs of liquid material.

You must abide by certain safety precautions when using the equipment, in order to prevent injuries and damages from occurring. Therefore you must always read through this operating manual carefully.

PLEASE NOTE - This manual must be kept in a safe place so that the information that it contains is always available. This operating manual must accompany the equipment if it is transferred to someone else.

We do not accept any liability for accidents or damage arising from ignoring this manual and the safety instructions.

SAFETY INSTRUCTIONS

Read through these operating instructions carefully before using these tools. Become familiar with the functions and method of operation. To ensure proper operation, always maintain the tools according to the instructions. The operating instructions and associated documents should always be kept close to the appliance.

When using power tools, you must observe the following basic safety precautions in order to ensure protection from electric shocks, injury and fire. Read and follow all the instructions before using these power tools. Follow the notes on safety.

Always check it to see if voltage corresponds with the manufacturer's requirements

Our mixers are double-insulated in accordance with EN60745; therefore, an ground wire is not required.

USE CORRECT SUPPLY VOLTAGE

The power supply voltage must match the information quoted on the tools identification plate.

USE PROPER EXTENSION CORD: Only use an approved extension cable that is suitable for the machine's power.

SWITCH OFF THE MACHINE IMMEDIATELY IN CASE OF:

1. Malfunction in the plug or power cable.
2. Broken switch.
3. Smoke or smell of scorched insulation.

GENERAL SAFETY RULES

WARNING! Read all safety warnings and all Instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your electric power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.



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SPECIFICATIONS

TECHNICAL DATA	BNR6169	BNR6400	R6402A
Power	1050W/9 apms 1.4Hp	1800W / 15 Amps	1400W / 11.7 amps / 1.9 Hp
Voltage	120V / 60 Hz	120V / 60 Hz	120V / 60 Hz
Number of Gears	1	2	2
No-Load-Speed	1-600 rpm	150 - 300 rpm	18-460 / 300-700 rpm
Protection/ Class of Protection	Double Insulated Class II		
Certification	ETL / GS / CE	ETL / GS / CE	GS / CE
Thread for Fixing the Paddle	M14 & 1/2" Chuck	M14 & 1/2" Drill Chuck	1/2" Hex Quick Change Chuck
Mixing Paddle (CD max.)	4-3/4" (120mm)	6-1/2" (160mm)	4-3/4" (120mm)

ELECTRIC SAFETY

- Power tool plugs must match the outlet: Never modify the plug in any way. Do not use any adapter plugs for grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before starting the power tool. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

POWER TOOL USE AND CARE

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not, use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat. and/or hearing protection used for appropriate conditions will reduce personal injuries. .
- Prevent unintentional starting. Make sure the switch is in the off-position before connecting to power source.
- Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not tum it on and off properly. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.



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- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Use the power tool, accessories and tool bits in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

PRECAUTION ON USING MIXERS

Attention! - You must abide by the following basic safety measures to prevent electrical shocks, injuries and the danger of fire when using electric tools. Read and abide by these instructions before you start to use any tools.

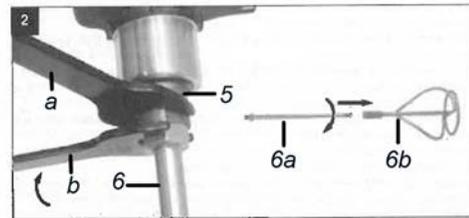
These Instructions must be kept in a safe place.

- The equipment must never be used in areas where an explosive atmosphere exists.
- Never mix in solvents or substances containing solvent that have flash points below 21°C.
- Do not let the electrical cord touch any parts of your body.
- Only use the extension cord approved for use in the working area.
- The unit must only be started and stopped when it is inside a mixing vessel. Ensure that the mixing vessel is placed on a solid, secure base.
- **Never reach into the mixing vessel with your hands or any other object during the mixing process.**
- We recommend that you always wear industrial safety gloves and safety goggles when working with the mixer.
- Wearing close-fitting clothes is mandatory.
- Always allow for twisting due to torque
- Always wear a dust mask

Before Initial Operation

Check to see that the rated voltage on the tool nameplate corresponds to the tool requirement. Before using the tool, read the instruction book carefully.

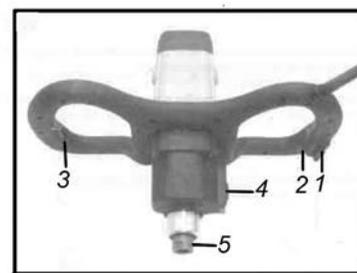
Mixer Assembly (Fig. 2):



First screw mixer shaft (6a) together with mixer paddle (6b). Screw the mixer (6) into the mixer (5). Use the two wrenches to tighten. Use one of the wrenches (a) to hold the mixer (5) in place and then use the second wrench (b) to tighten up the mixer (6). Proceed in the reverse sequence to undo the paddle from the mixer.

STARTING THE MIXER

Ensure that the data listed on the nameplate matches the voltage before connecting the unit up to power.



On / Off switch

- Switching on: Press the switch (1)
- Continuous running: Press the locking knob on the switch (1) (2) to lock it in place.
- Switching off: Press the switch (1) briefly
- Speed control: Use the speed control (3) to select the speed.
- Switching between 1st· 2nd gear (4)



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The switch position enables you to work at high or low speeds. The gear switch position should only be changed when the unit is stopped in order to prevent the gearing from being damaged.

1st gear - Upper position
2nd gear- Lower position

CARE AND MAINTENANCE

- Remove the plug from the socket before making any adjustment, servicing or maintenance.
- Your power tool requires no additional lubrication or maintenance. Always store your power tool in a dry-place.
- If the electric cord is damaged, it must be replaced by the manufacturer, service agent or similarly qualified persons in order to avoid a hazard.

CLEANING

- Keep the safety devices, ventilation slots and motor housing as free of dirt and dust as possible.
- Clean the unit by rubbing it with a clean cloth or blow it clean using low-pressure compressed air.
- We recommend that you always clean the unit immediately after using it.
- Clean the unit regularly by rubbing it with a damp cloth and a little soft soap. Do not use cleaners or solvents --these will attack the plastic parts in the unit. You must also ensure that water does not get inside of the unit.

CARBON BRUSHES

If excessive sparking occurs you must have the carbon brushes checked by a qualified electrician.

Attention! Changing the brushes should be done by a qualified electrician.

MAINTENANCE

There are no parts fitted inside the unit that require maintenance.

CORRECTIVE ACTION IN CASE OF FAILURE

The operating switch is switched on, but the motor is not working.

- Wires in the electric plug or in the socket are loose. Have socket and plug checked or repaired or replaced.
- The switch is faulty. Have the switch replaced.

The operating switch is switched on, but unusual noises can be heard, the motor is not working or only very slowly.

- Switch contact has failed. Have the switch replaced.
- Component jammed. Have the electric tool checked or repaired.
- Too much thrust, as a result the motor is dragging. Use less thrust during the task.
- Gear switch not completely engaged

Motor gets hot.

- Foreign substances have got inside the motor. Have the foreign substances removed.
- Lack of or contaminated lubrication grease. Have lubricating grease applied or replaced.
- Pressure too high. Use less thrust during the task

Frequent or strong sparks on the commutator.

- Short circuit on the armature. Have the armature replaced.
- Carbon brushes worn out or jammed. Have the carbon brushes checked.
- Rough running of the commutator. Have the surface of the commutator cleaned or ground.

For your own safety, never remove parts or accessories of the electric tool during operation. In case of fault or damage have the electric tool repaired only by a qualified workshop or by the manufacturer.





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Professional Material Mixers New From BN Products - USA

BN Products - USA is a distribution company started in 1925 in Northern California. The company moved all of it's holdings to Wickenburg, Arizona in 2001. Together with our employees we serve the construction wholesale industries with products including portable rebar cutters and benders and **now with professional material mixers**. Our products are sold through retail distributors around the world. We distribute quality products Engineered with intelligence and imagination.



BNR6169

1050 watt Hand-Held Paddle Mixer has a forward and reverse switch with a variable speed trigger and a lock-on button for continuous operation. Comes complete with a standard M14 paddle connection or 1/2" shank capacity for any mixing paddles. The D-handle rotates 360° with a 3-position removable side handle.



BNR6402A

1400 watt Hand-Held Paddle Mixer is a powerful 2-speed mixer with double shaft. This high-performance tool has 2 paddles working clockwise and counter clockwise respectively. It has robust gearbox with a powerful high torque motor and an ergonomically designed handle with a soft grip feature. This mixer has a soft start function and constant speed control.



BNR6400

1800 watt Hand-Held Paddle Mixer has an ergonomically designed handle with a soft grip feature. This 2-speed power mixer has a soft start feature, variable speed and a constant speed control setting. The safety on/off switch also has a lock-on button for continuous operation. The tool has a heavy-duty gearbox with a powerful high torque motor.



BNRA0315 1/2" Chuck
Included with the
BNR6169 and the BNR6208B



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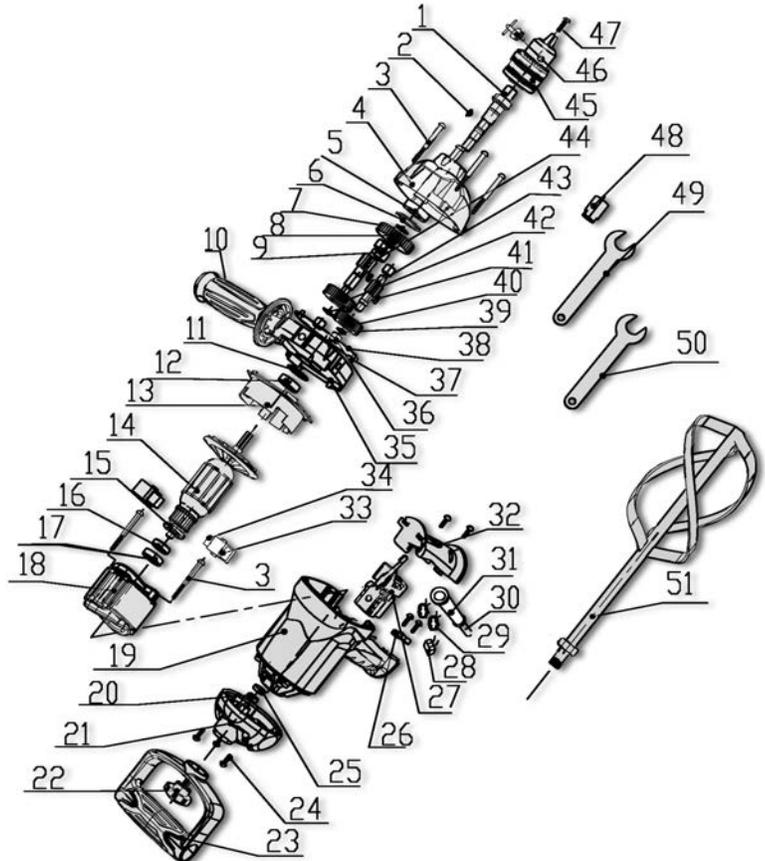
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BNR6169 Material Mixer

PARTS LIST (BNR6169)

Part	DESCRIPTION
BNR6169-01	Output shaft
BNR6169-02	Semi-circular key 3x3.7x10
BNR6169-03	Screw ST 4.8x48
BNR6169-04	Gear housing
BNR6169-05	Bearing 6002
BNR6169-06	Collar 32
BNR6169-07	Collar 15
BNR6169-08	Gear for output shaft
BNR6169-09	Bearing hk1010
BNR6169-10	Handle
BNR6169-11	O Ring
BNR6169-12	Bearing 6000
BNR6169-13	Fan guide
BNR6169-14	Rotor
BNR6169-15B	Insulation ring
BNR6169-16	Bearing 608
BNR6169-17	Rubber cover 608
BNR6169-18	Stator
BNR6169-19	Motor housing
BNR6169-20	Screw M8
BNR6169-21	Back cover for motor housing
BNR6169-22	Back handle knob
BNR6169-23	Back handle
BNR6169-24	Screw st 3.8x14
BNR6169-25	Handle nut
BNR6169-26	Cable holder
BNR6169-27	Switch
BNR6169-28	Capacitor
BNR6169-29	Connector
BNR6169-30	Cable
BNR6169-31	Cable sleeve
BNR6169-32	Handle cover
BNR6169-33	Brush holder sets
BNR6169-34	Carbon brush
BNR6169-35	Middle cover
BNR6169-36	Bearing hk0810



BNR6169-37	Pin 4x6
BNR6169-38	Sealed washer
BNR6169-39	Collar 10
BNR6169-40	Big gear for main driving shaft
BNR6169-41	Collar 12
BNR6169-42	Big gear for sud- driving shaft
BNR6169-43	Main driving shaft
BNR6169-44	Sub-driving shaft
BNR6169-45	Drill chuck
BNR6169-46	Chuck key
BNR6169-47	Chuck screw
BNR6169-48	Connection adapter
BNR6169-49	Wrench 17#
BNR6169-50	Wrench 19#
BNR003-120-51	Mixing paddle

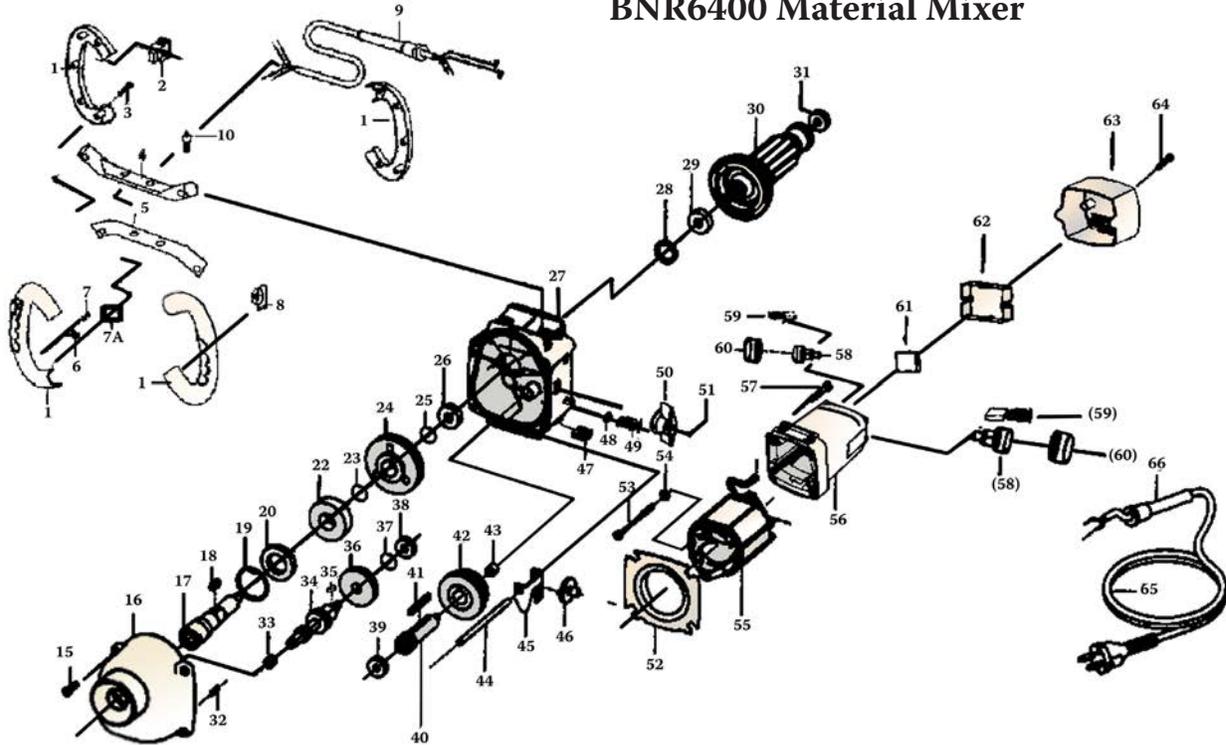


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BNR6400 Material Mixer



Part No.	Description
BNR6400-01	Handle set
BNR6400-02	Switch
BNR6400-03	Screw ST4X20
BNR6400-04	Tube
BNR6400-05	Tube
BNR6400-06	Clamp
BNR6400-07	Screw ST3.SX16
BNR6400-07A	Connection Cover
BNR6400-08	Speed controller
BNR6400-09	Wire Harness
BNR6400-10	Screw M8X12
BNR6400-15	Screw MSX20
BNR6400-16	Bottom gear cover
BNR6400-17	Spindle
BNR6400-18	Hemicycle key 4XSX12
BNR6400-19	Safety ring
BNR6400-20	Dust cover
BNR6400-22	Bearing 6204DDU
BNR6400-23	Safety ring
BNR6400-24	Spindle gear

BNR6400-25	Safety ring
BNR6400-26	Bearing 6000ZZ
BNR6400-27	Gear case
BNR6400-28	Sealring
BNR6400-29	Bearing 6001ZZ
BNR6400-30	Armature Assembly
BNR6400-31	Bearing 608ZZ
BNR6400-32	Pin
BNR6400-33	Needle bearing HK0810
BNR6400-34	Countershaft
BNR6400-35	Hemicycle key 2.5x3.7x10
BNR6400-36	Motor gear
BNR6400-37	Flat washer
BNR6400-38	Bearing 698ZZ
BNR6400-39	Bearing 608ZZ
BNR6400-40	Pinion
BNR6400-41	Parallel key
BNR6400-42	Spindle double gear
BNR6400-43	Needle bearing HK0810
BNR6400-44	Pivot
BNR6400-45	Glide

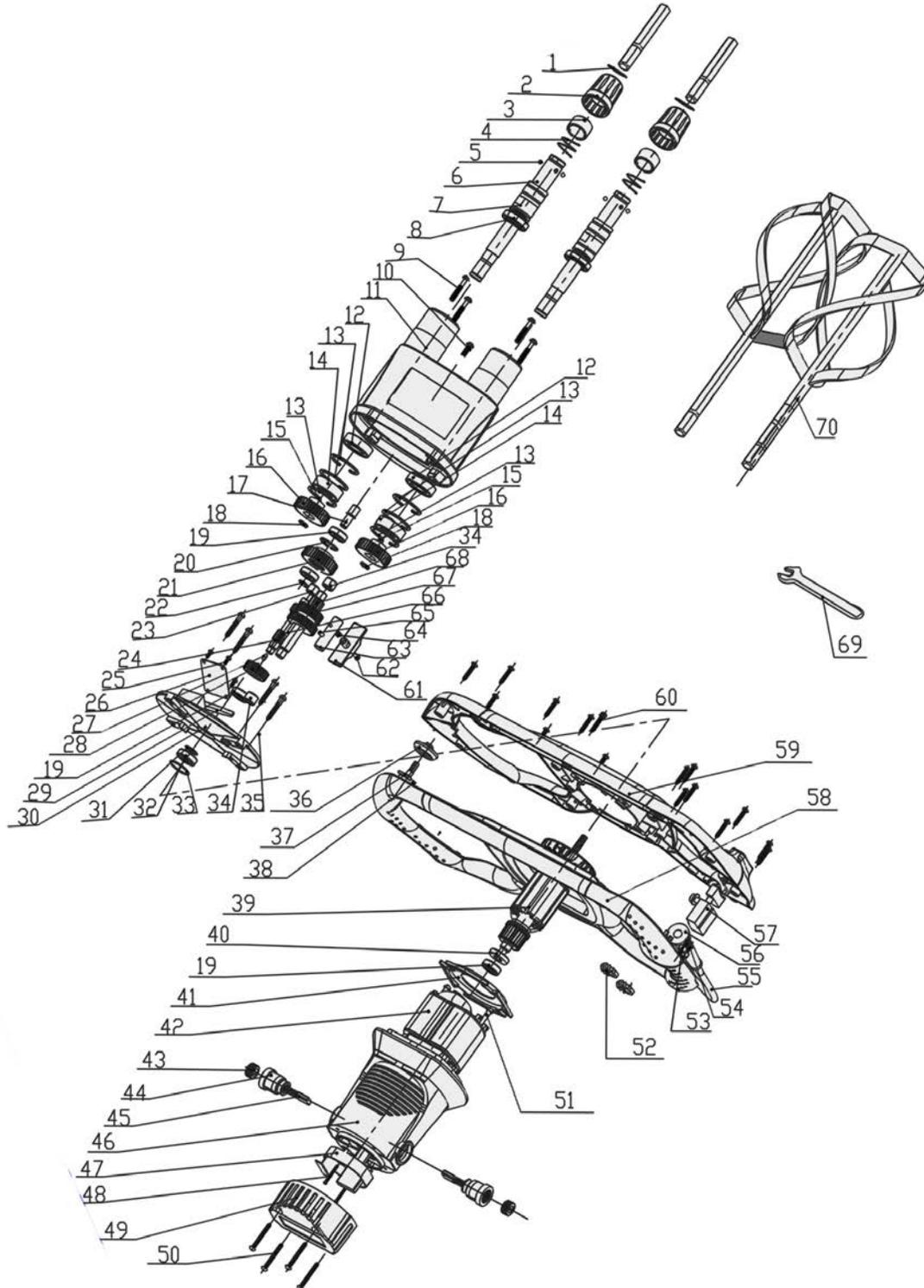
BNR6400-46	Pivot
BNR6400-47	NutM8
BNR6400-48	Bail<l>4
BNR6400-49	Spring
BNR6400-50	Lever
BNR6400-51	Screw ST3X16
BNR6400-52	Airguide shim
BNR6400-53	Screw STSX6S
BNR6400-54	Spring washer
BNR6400-55	Stator
BNR6400-56	Motor housing
BNR6400-57	ScrewMSX25
BNR6400-58	Brush holder
BNR6400-59	Carbon brush
BNR6400-60	Brush cap
BNR6400-61	Controller
BNR6400-62	Protective cover
BNR6400-63	Top Cover
BNR6400-64	Screw ST 3.5x16
BNR6400-65	Cord
BNR6400-66	Sleeve



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BNR6402A Material Mixer





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BNR6402A Material Mixer

PART	DESCRIPTION
BNR6402-01	Washer 20
BNR6402-02	Chuck outer cover
BNR6402-03	Chuck inner cover
BNR6402-04	Spring
BNR6402-05	Steel ball 4.76
BNR6402-06	Chuck body
BNR6402-07	Output shaft
BNR6402-08	Oil seal
BNR6402-09	Screw M5*20
BNR6402-10	Screw M5*10
BNR6402-11	Gear housing
BNR6400-12	Bearing 6003-2Z
BNR6402-13	Washer 35
BNR6402-14	Bearing 6202-2Z
BNR6402-15	Key 5*12
BNR6402-16	Big gear
BNR6402-17	Driving gear shaft
BNR6402-18	Collar 15
BNR6402-19	Bearing 608-2Z
BNR6402-20	Collar 22
BNR6402-21	Gear
BNR6402-22	Collar
BNR6402-23	Bearing HK0810
BNR6402-24	Main drive shaft
BNR6402-25	Screw M4*8
BNR6402-26	Oil box cover
BNR6402-27	Key3*8
BNR6402-28	Diagonal gear
BNR6402-29	Woollen cap
BNR6402-30	Middle cover
BNR6402-31	Woollen washer
BNR6402-32	Bearing 609Z
BNR6402-33	O ring
BNR6402-34	Bearing HK1010
BNR6402-35	Screw ST4.8*55

PART	DESCRIPTION
BNR6402-37	Potentiometer knob
BNR6402-39	Potentiometer
BNR6402-38	Potentiometer sleeve
BNR6402-39	Rotor subassembly
BNR6402-40	magnetic ring
BNR6402-41	Air flow cover
BNR6402-42	Stator subassembly
BNR6400-43	Brush cover
BNR6402-44	Brush holder
BNR6402-45	Carbon brush
BNR6402-46	Motor housing
BNR6402-47	Integrating block
BNR6402-48	ScrewST3*25
BNR6402-49	Back cover
BNR6402-50	Screw 4.8*35(4*35)
BNR6402-51	Screw ST4.8*60-F
BNR6402-52	Electric sensor
BNR6402-53	Cable plate
BNR6402-54	Screw ST4*14-F
BNR6402-01	Cord
BNR6402-02	Cord protector
BNR6402-25	Switch
BNR6402-58	Top handle
BNR6402-59	Bottom handle
BNR6402-60	ScrewST4*18-F
BNR6402-08	Gear shift button
BNR6402-09	Push button screw
BNR6402-63	Shift pushing lever
BNR6402-64	Shift button spring
BNR6402-65	Pin
BNR6402-14	Key 5*45
BNR6402-67	Two gang gear
BNR6402-68	Shift lever
BNR6402-53	Wrench 22#
BNR6402-70	Mixing paddles



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Tools For The Professional Craftsman

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and add value to your bottom line.

The Original Portable Rebar Cutters

With as many as eight different models that cut #3 all the way up to #10 rebar, these electric-hydraulic tools have consistently proved their worth in the field or in the shop year after year.



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We have engineered seven basic models that can fit most job-site requirements. These electro-mechanical tools have been designed to be work-horses out in the field.



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This combination tool provides jobsite cutting and bending all in one tool. The unique design provides the operator the ability to work rebar for in-place or stationary fabrication applications. The DBC-16H can easily bend #5 grade 60 rebar 180°.

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The BNCE-20 Cutting Edge Power Saw™ cleanly cuts rebar, all-thread rod and much more. It produces virtually no sparks or burrs and it is versatile enough to flush cut up to 7/8" steel rod economically - Up to 500 cuts on #5 - 60 grade rebar per \$25 retail blade.



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The MBC-16B incorporates a longer handle, an adjustable roller cam shaft, replaceable cutting jaws, a sturdy frame mounted to a wood board, a comfortable non-slip handle grip and a convenient lifting chain. No wonder it is the pick of most professional contractors.



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