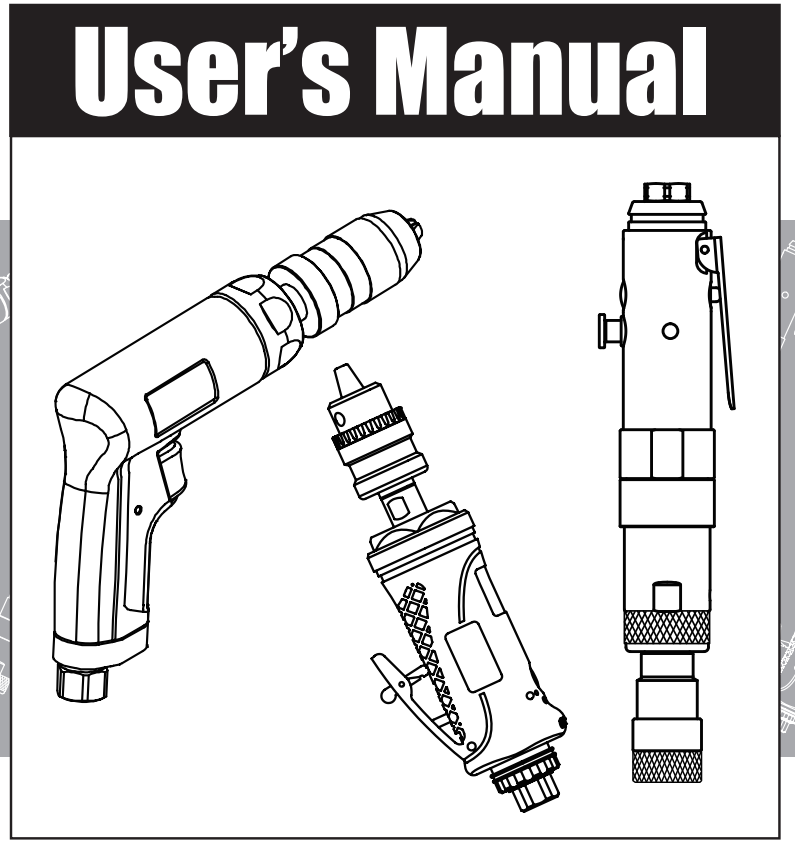
User's Manual



Air Drill, High Speed Tire Buffer, Tapping Machine

KUANI ®

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KUANI ®

Manufacturer and Exporter
Of Professional Tool
KUANI® **KUANI GEAR CO. LTD**

AIR DRILL, HIGH SPEED TIRE BUFFER, TAPPING MACHINE

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

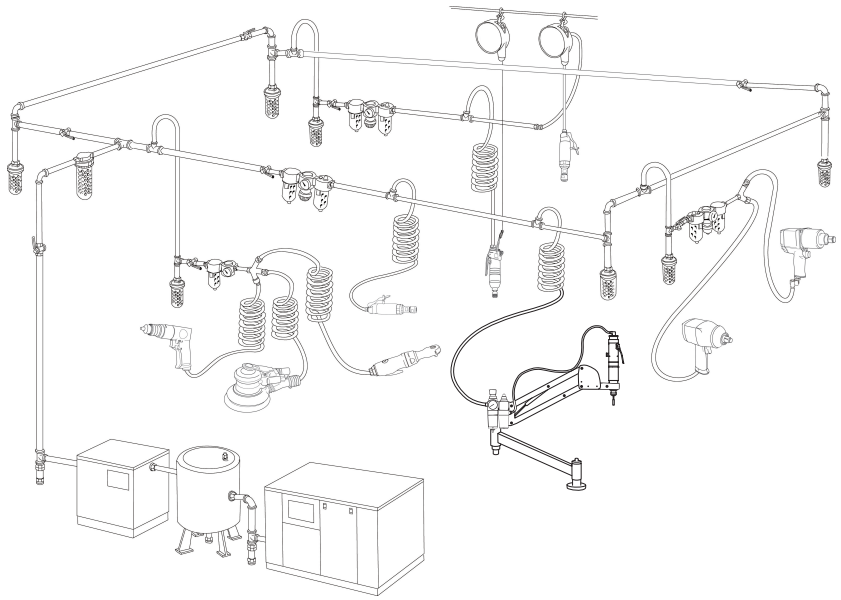
A.OPERATION GUIDES

1. TIPS FOR USE
(Safety Regulations while using KI brand Air Drill, High Speed Tire Buffer)

1.1. AIR PRESSURE
Always use the clean and dry air to operate the tool at 90 psi (6.2 bar) & do not operate exceed maximum working air pressure at 90 psi (6.2 bar) as recommended.

1.2. AIR LINE
Use a fitting air hose for connection between the compressor & tools.
The compressed air is cooled and its water content would be sorted when the air blow out from the compressor.
Part of the water could be compressed in the pipe and could permeate into the tool's mechanism to cause mechanical failures.
It would be strongly recommended to install an air filter, moisture separator, regulator and lubricator among the air supply and the air tools.

1.3. AIR HOSE
Before connecting the hose to air tools, please clean firstly the hoses with a blowout of compressed air.
This will prevent both moisture and dust contented within the hose from entering the tools and causing the possible rust and malfunction.
When using Tapping Machine before must be assemble with AUXILIARY ARM.
Do not connect to air pressure power when didn't finish assemble.
If you will change any parts or chuck before must cut-off air pressure power.
Do not wear any cotton wool gloves in working.
Please do not press start device when connected to air pressure power.



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2. Inserter Tools
Any other use is prohibited.
In addition, use only bit which are in good condition and are intended for use with power tools. Before each use check bit for condition. If worn or damaged replace immediately.

3. Personal Protecting Devices
It is necessary to wear a approved eye and hearing protector, mouth-muffle and safety gloves when operating the tools

4. When operating the tool
Choose a fixed footing position to grip the tool sufficiently to overcome any incoming reaction forces that may occurred from the tool during operation.
Do not over grip the tool.

5. If the tool is to be used with a balancer or other suspension devise ensure that the tool is firmly attached to the suspension/support device.

6. To turn off the air supply to the tool and press the on/off valve to exhaust the air from the feed hose before installing, removing or adjusting any accessory on this tool.

7. Be aware of entanglement of the moving parts of he tool with clothing neckties, long hair, jewelry, watches and etc. This could cause the body or parts of the body to be drawn toward and in contact with the moving parts and may be very dangerous.

8. Be aware of the exhaust air does not point toward to any other person or material that could be contaminated by oil droplets.

9. This tool is not electrically insulated Never use the tool if there is any opportunity or any coming into contact with live electricity.

10. Do not lay down the tool until the working attachment has stopped moving completely.

11. The working places shall keep ventilating.

12. If any air supply break down then relieve the on-off device.

13. Use only the lubricant which recommended by the original manufacturer.

14. It is possible to attach a second handle on the tool to fix the tool to a suspension device, even if it is not delivered with tool.
Please contact the sale agent for details.

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B. Operational Method

1. The on/off device is designed inside or outside of the grip. It is a “plug-and-run” type device. This tool will stop operation/rotation in a few seconds after relieving the level control.
2. Use accessories recommended by KUANI. To use the accessories other than recommended by KUANI may cause safety risk, decrease of tool performance.
3. The speed set up device is indicated by an arrow mark and intergraded with an indication either marked by “H”(high) and “L”(low) or by “+”(high) and”-“(low), rotating the knob to desired speed.
4. Do not use any drill bits or other accessories of a maximum operating speed lower than that of the drill in which it is being used.
5. Anticipate possible reaction force when the drill bit get stuck, which occurs when breaking through the material being drilled or when the drill is heavily loaded.
6. When getting stuck, release the trigger and remove the drill bit from the workpiece by rotating it in the reverse direction.
7. Securely tighten drill bits or other accessories in the chuck before operating the drill.
8. When using a chuck key, remove it before starting the drill.
9. When a supporting handle or other means is provided with a high torque tool it should be used to minimize the hazard due to the reaction force.

C. Maintenance & Repairs

1. Lubrication
   Before connecting the air hose, it should apply 4 to 5 drops of #60 spindle oil at air inlet.
   The repeat oiling after 3 to 4 hours operation will be necessary.
2. Fastening of parts
   Do the regular check if all the connecting parts are fastened securely properly.
   It is necessary to go through this check daily before starting your work.
3. Cleanness
   Dusty and oiling surface on the handle will infected the grip which caused to the reaction torque.
   Clean the handle with dry clothing is strongly recommended before operation this tool.
4. Storage
   Put the tool in dry and clean environment. If the tool shall not to be used for a period of time, the residual moisture inside of the instrument could cause the rust. Before storing, oil the instrument at air inlet with spindle oil and operate it for a short period is strongly recommended.

D. Repairs

Do make use of the spare parts for all the maintenance and repairing job.
Do not invent or make any unnecessary temporary repairs. Major service of maintenance and repairs should be only carried out by well-trained persons or KI of its own authorized service representatives.
Make sure the free speed after each service.

E. Disposal

Following is the national legislation of waste disposal. Never dispose of the air tool into fire.
Separate collection!! This product must not be disposed with normal household waste.

⚠ WARNING

1. Extended exposure to vibration caused the injury.
2. The power tools shall not be operating in explosive atmospheres unless it is specially designed for this purpose.

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3. Disconnecting the air hose before changing or adjusting any inserted tools.
4. Before operating the instrument. Be sure of all couplings and plugs are tightly secured.
5. Be aware of the danger of crushing by torque between a reaction bar and the working pieced.
6. Avoid any loose baggy clothing, long hair or any other personal accessories that too close to the moving part to minimum the risk of being caught, trapped or drawn down into rotating devices.
7. Never in contact the trigger when connecting the air supply hose.
8. Never point an air tool at oneself or any other person. It could cause a serious injury.
9. Any nexpected high pressure which exceed the maximum pressure could cause the injury to the user.
10. To keep body stance balanced and firm, it is always wear safety gloves to minimum the risk of crushing which caused by torque between handle and work piece.
11. Be sure of the rotating direction before operating the instrument to minimum the hazardous situation for any unexpected rotating direction.
12. Always wear eye and face protection devices could prevent the danger to the person from high speed splinters being emitted from the tool in cause of inserted tool malfunction.
13. Always put breathing protection device could avoid any inhaling dust or handling debris during work that could be harmful to the health.
14. Always put hearing protection during operation. High sound level can cause permanent hearing loss.
15. Never operate the tool after work, it may cause the attachment of to the instrument thrown out from the tool to cause serious injury.
16. Be sure of the working environment is clear enough that to perform the work safely. Any unexpected slip, trip and fall are the major reason of serious injury.
    Especially be aware of excess hose left on the working or work surface. Be aware of the whipping compressed air hose.
17. Never attempt to modify the instrument for other uses.
18. The power tool is not electronically insulated for coming into contact with electric power source.
19. Keep the power tools away from 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.
20. For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the drill and tapper. Failure to do so can result in serious bodily injury.
21. Only qualified and trained operators should install, adjust or use the drill and tapper.
22. Keep work area clean, uncluttered, ventilated and illuminated.
23. Do not modify this drill and tapper. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
24. Do not discard the safety instructions; give them to the operator.
25. Do not remove any labels.
26. Do not use the drill and tapper if it has been damaged.
27. Tools shall be inspected periodically.
28. When a suspension device is used, ensure that it is securely fastened.
29. The employer/user shall contact the manufacturer to obtain replacement marking labels when necessary.
30. Be aware that the failure of the workpiece, or accessories, or even of the inserted tool itself can generate high-velocity projectiles.
31. Always wear impact-resistant eye protection during the operation of the drill and tapper.
    The grade of protection required should be assessed for each use.
32. Remove the chuck key before drilling starts.
33. Ensure that the workpiece is securely fixed.
34. Choking, scalping and lacerations can occur if loose clothing, personal jewellery, neckwear, hair or gloves are not kept away from the tool and accessories.

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35. Use of the tool can expose the operator's hands to hazards, including cuts, abrasions and heat. Wear suitable gloves to protect hands.
36. Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
37. Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
38. Maintain a balanced body position and secure footing.
49. High-reaction torque can be developed in the case of stalling, which can be caused by excessive loads being applied to the drill bit, by the drill bit snagging on the material being drilled into or by the drill bit breaking through the material being drilled.
40. Use a suspension arm whenever possible.
41. Keep hands away from the rotating chuck and drill bit.
42. Release the start-and-stop device in the case of an interruption of the energy supply.
43. Use only lubricants recommended by the manufacturer.
44. Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
45. When using a drill or tapper to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
46. While using an drill and tapper, the operator should adopt a comfortable posture whilst maintaining secure footing and avoiding awkward or off-balanced postures. The operator should change posture during extended tasks, which can help avoid discomfort and fatigue.
47. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.
48. Disconnect the drill and tapper from the energy supply before fitting or changing the inserted tool or accessory.
49. Use only sizes and types of accessories and consumables that are recommended by the drill and tapper manufacturer.
50. Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.
51. Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line or hydraulic hose.
52. Proceed with care in unfamiliar surroundings. There can be hidden hazards, such as electricity or other utility lines.
53. The drill and tapper is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power.
54. Ensure that there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.
55. Dust and fumes generated when using drills and tappers can cause ill health (for example, cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.
56. Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
57. Operate and maintain the drill or tapper as recommended in these instructions, to minimize dust and fume emissions.
58. Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
59. Where dust or fumes are created, the priority shall be to control them at the point of emission.
60. All integral features or accessories for the collection, extraction or suppression of airborne dust and fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
61. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in dust or fumes.
62. Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.

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63. Unprotected exposure to high noise levels can cause permanent, disabling hearing loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears).
64. Risk assessment and implementation of appropriate controls for these hazards are essential.
65. Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from “ringing”.
66. Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
67. Operate and maintain the drill and tapper as recommended in the instruction handbook, to prevent an unnecessary increase in noise levels.
68. If the drill and tapper has a silencer, always ensure it is in place and in good working order when the drill and tapper is operating.
69. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise.
70. Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
71. Wear warm clothing when working in cold conditions and keep your hands warm and dry.
72. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the drill and tapper, tell your employer and consult a physician.
73. Operate and maintain the drill and tapper as recommended in the instruction handbook, to prevent an unnecessary increase in vibration levels.
74. Do not allow the inserted tool to chatter on the workpiece, as this is likely to cause a substantial increase in vibration.
75. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in vibration levels.
76. Support the weight of the tool in a stand, tensioner or balancer, if possible.
77. Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.
78. Air under pressure can cause severe injury.
79. Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
80. Never direct air at yourself or anyone else.
81. Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
82. Cold air shall be directed away from the hands.
83. Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whip check safety cables shall be used to safeguard against possible hose-to-tool and hose-and-hose connection failure.
84. Do not exceed the maximum air pressure stated on the tool.
85. Never carry an air tool by the hose.
86. Check that the tool is securely fastened in the fixture before each job and after every one hour of use. Failure to secure may result in injury due to unexpected motion, or dropping of the tool.

Warranty

All of KI serial pneumatic tools are provided with complete after service and product warranty to the product that manufactured by Kuani Gear Co. Ltd and sold by its worldwide authorized dealers.

KI professional air tools, unless otherwise specified are unconditionally guaranteed against defects in materials and workmanship for the life of tool, excluding any other inappropriate operation, modification or repair.

KI will repair or replace the tool that fails to give satisfication service on the condition that tool has not been abused or modified and that it is returned to authorized warranty KI dealer.

If there is a defective product claim of KI, please contact the KI’s authorized sales/service representatives.