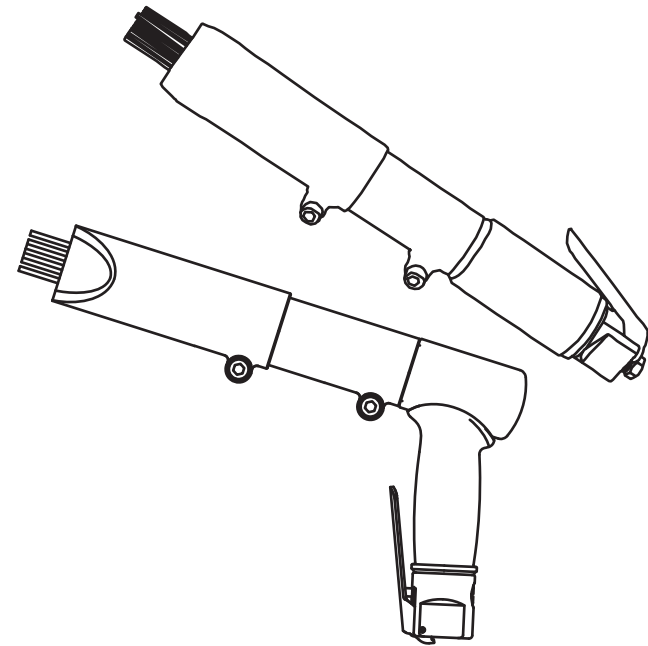


User's Manual



Air Needle Scaler, Flux Chipper,
Engraving Pen, Scaler



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KUANI®

AIR NEEDLE SCALER, FLUX CHIPPER, ENGRAVING PEN, SCALER



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.

For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the power tool. Failure to do so can result in serious bodily injury.

A. OPERATION GUIDES

1. TIPS FOR USE

(Safety Regulations while using KI brand Air Needle Scaler, Flux Chipper, Engraving Pen, Scaler)

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.

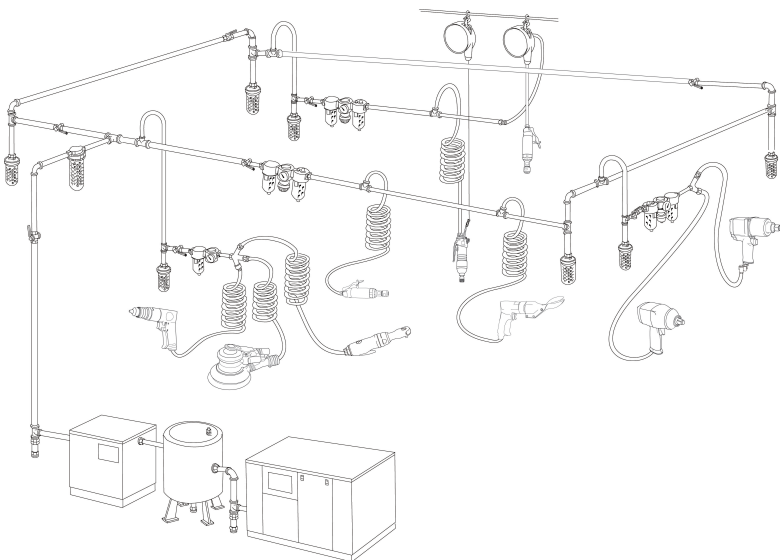
Part of the water could be compressed in the pipe and could permeate into the tool's mechanism to cause mechanical failures.

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.



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2. Inserter Tools

Any other use is prohibited.



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.

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. Cleaness
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.
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. 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.
6. Never in contact the trigger when connecting the air supply hose.
7. Never point an air tool at oneself or any other person. It could cause a serious injury.
8. Any nexpected high pressure which exceed the maximum pressure could cause the injury to the user.
9. 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.
10. Always put breathing protection device could avoid any inhaling dust or handling debris during work that could be harmful to the health.

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11. Always put hearing protection during operation. High sound level can cause permanent hearing loss.
12. Never operate the tool after work, it may cause the attachment of to the instrument thrown out from the tool to cause serious injury.
13. 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.
14. Never attempt to modify the instrument for other uses.
15. The power tool is not electronically insulated for coming into contact with electric power source.
16. 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.
17. Do not modify this power tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
18. Do not discard the safety instructions, give them to the operator.
19. Always wear impact-resistant eye protection during the operation of the power tool. The grade of protection required should be assessed for each use.
20. For overhead work, wear a safety helmet.
21. Use of the tool can expose the operator's hands to hazards, including cuts, abrasions and heat. Wear suitable gloves to protect hands.
22. Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
23. Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
24. When using this power tool to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
25. Ensure that the workpiece is securely fixed.
26. Use only sizes and types of accessories and consumables that are recommended by the non-rotary percussive power tool manufacturer.
27. Do not use the power tool if it has been damaged.
28. Make sure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.
29. Only qualified and trained operators should install, adjust or use the power tool.
30. The working places shell keep ventilated, clean and illuminated.
31. 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.
32. Proceed with care in unfamiliar surroundings. Hidden hazards, such as electricity or other utility lines, can exit.
33. Dust and fumes generated when using power tools 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.
34. Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
35. Where dust or fumes are created, the priority shall be to control them at the point of emission.
36. Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
37. Operate and maintain the power tool as recommended in these instructions handbook, to minimize dust or fume emissions.
38. All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
39. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook to prevent an unnecessary increase in dust or fumes.

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40. Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.
41. Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
42. 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).
43. Appropriate controls to reduce the risk may include actions, such as damping materials to prevent workpieces from "ringing".
44. Risk assessment and implementation of appropriate controls for these hazards are essential.
45. Operate and maintain the power tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise levels.
46. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise.
47. If the power tool has a silencer, always ensure it is in place and in good working order when the power tool is operating.
48. Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
49. Wear warm clothing when working in cold conditions and keep your hands warm and dry.
50. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the power tool, tell your employer and consult a physician
51. Operate and maintain the power tool as recommended in the instruction handbook, to prevent an unnecessary increase in vibration.
52. 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.
53. Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
54. Cold air shall be directed away from the hands.
55. Keep others a safe distance from your work area, or ensure they use appropriate personal protective equipment.
56. Do not use quick-disconnect couplings at tool inlet. Use hardened steel (or material with comparable shock resistance) threaded hose fittings.
57. Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool and hose-to-hose connection failure.
58. Do not exceed the maximum air pressure stated on the tool.
59. Never direct air at yourself or anyone else.
60. Never carry an air tool by the hose.
61. Setting up or fixing the power tool in a stable position as appropriate for power tools that can be mounted in a support.
62. Keep the power tools safe by regular preventative maintenance.
63. Check the speed and make a simple check of the vibration level after each service.
64. Check the speed regularly.
65. Working with a percussive tool can generate dust which, depending on the material being worked on, could be harmful to the operator.
66. Working with percussive tools can cause the ejection of elements at chipping or demolishing work.
67. Unexpected tool movement or breakage of inserted tool may cause injuries to the lower limbs.
68. Unsuitable postures may not allow counteracting of normal or unexpected movement of the power tool.
A working position shall be adopted which remains stable in the event of a break up of the inserted tool.
69. Holding the inserted tool by the free hand can be a source of vibration damage. Use two hands if required to maintain control.
70. The particles may be ejected, when chipping or demolishing. Appropriate environmental and personal protection shall be used.
71. On suitable postures to counteract the effects of a sudden break of the inserted tool.



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72. Be aware that the failure of the workpiece, or accessories, or even of the inserted tool itself can generate high-velocity projectiles
73. Never operate a tool unless the inserted tool is retained in the tool with a proper retainer.
74. To avoid injury, retainer parts shall be replaced when they become worn, cracked or distorted.
75. Hold the inserted tool firmly against the work surface before starting the tool.
76. Avoid direct contact with the inserted tool during and after use, as it can become hot or sharp.
77. For hammers, where appropriate, never use any chisel as a hand-struck tool. They are specifically designed and heat-treated for use only in non-rotary percussive power tools.
78. For hammers, where appropriate, never use blunt chisels, as they require excessive pressure and can break from fatigue. Blunt tool-pieces can increase vibration and therefore, sharp tools should always be used.
79. For hammers, where appropriate, never cool a hot accessory in water. Brittleness and early failure can result.
80. For hammers, where appropriate, chisel breakage or tool damage can result from misuse of using the tool as a lever, e.g. prising. Take smaller "bites" to avoid getting stuck.
81. Keep suspended handles in the central position and avoid pushing the handles into the end stops.

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 satisfaction 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.