SMARTPRO

AIR DO
USER MANUAL v1.1

STAND ALONE PNEUMATIC ENGRAVING MACHINE
(no external air pump needed)

Air Do X
(with Micromotor)

Air Do S
(without Micromotor)

USER'S MANUAL v1.1
SmartPro Air Do

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I. DISCLAIMER, EXCLUSIONS, AND LIMITATIONS OF LIABILITY

Please read and note SmartPro WARRANTY TERMS AND CONDITIONS as stated in the warranty card. SmartPro warranty for its subject to proper use by its user in accordance with all the terms and conditions as stated in the relevant user manual and shall cover only manufacturing defects.

Due to continued product improvement, SmartPro reserves the right to revise all documents including the right to make changes to t he user manual without notice and without obligation to notify any person of such revisions or changes. Users are advised to check SmartPro's website http://www.smartproinstrument.com.

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Smartpro Air do referred to in this user manual is provided and/or sold on "as is" basis. Except as required by applicable law, no warranties of any kind, expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

II. DESCRIPTION

SmartPro® Air Do is a Professional Pneumatic Jewelry Engraver and Setting with Micromotor, two-in-one system. A new generation innovative pneumatic system with a built-in air compressor and Micromotor that fit in a small space on your work bench and gives versatility and control when engraving, setting, or even, drilling, polishing, buffing and many more.

SmartPro develops tools for jewelry makers and specializes in the manufacture of Gemological precise instruments. The SmartPro Air DO X offers an advanced air system that does not need any external air compressor which uses small space and makes no loud noise in your workplace. Precision digital control regulators and seamless hand and foot control, enables high-end performance, precision, and optimal working comfort for a wider range of creative applications.

The single engraver handpiece can be used different kinds of blades (3.5mm dia & 2.5mm dia) to allow for a wide variety of engraving styles, from light bulino work to heavy engraving in hard metals like steel and titanium.

This system offers you a revolutionary, powerful pneumatic graver. Forget about the big & loud expensive compressor. Save space and time and work more efficiently with this one-of-a-kind, new technology! It includes 6 quick change collet with color coding, a set of gravers & a holder for the handpiece. NO COMPRESSOR IS NEEDED!

III. FEATURES

- Precise pneumatic system with Micromotor hand and foot control Ideal for Setting
- Engraving
- Drilling
- Polishing
- Buffing
- Lapping
- No external Air Compressor Needed
- Overload protection
- Digital LED display
- LED Indicator for Tool Selection and Speed Control

IV. SPECIFICATIONS

Model	Air Do X	Air Do S
Brand	Smart Pro	Smart Pro
Body color	Gray	Black
Power Input	100-240 VAC,4.2A,50/60 Hz	100-240 VAC,4.2A,50/60 Hz
Graver Speed	0-60%	0-60%
Micromotor Speed	0-35000 RPM	-
Dimension	(L) 240 x (W) 130 x (H) 185 (MM)	(L) 240 x (W) 130 x (H) 185 (MM)
Weight	5 kg	5 kg
Packaging Box	30(W)x152.4(L)x210(H) (MM)	30(W)x152.4(L)x210(H) (MM)
Gross Weight	8.5 kg	8.3 kg
Country of Orign	Thailand	Thailand

The handpiece comes with two pistons, depending on the type of your work, The piston can be easily replaced by unscrewing the handle and removing the spring. It includes 6 quick-change collet with color coding, a set of gravers & a holder for the handpiece.

The control knob regulates the stroke power of the engraving handpiece and micromotor. It is also responsible for the frequency of strokes and micromotor speed control.

By pressing the foot pedal, the handpiece will start accelerating from 0% up to your chosen position speed. Increasing the speed doesn't mean you'll get more power. Finding the right speed for the chosen position for your particular kind of work by using speed Control. Micromotor has 0-35000 RPM speed, it can be used for drilling, polishing, buffing, and l apping.

V. QUICK GUIDE

STEP 1
Connect Foot pedal at the back-Right side.

STEP 2
Connect Power Supply at the back-left side.

STEP 3
Connect the Engraver Handpiece
at the front-left side.

STEP 4
Connect the Micro motor
at the front right side.

STEP 5
Turn the Power ON.

STEP 6
Tool Switching (Model-X):

Select which tool to use by switching the rocker switch on left.

Control Switching (Hand/Foot):



Model-X: Switch the knob by rotating it clockwise around 45 degrees then rotate it back to the arrow position.

Light indicator for the Foot Control will be turned ON/OFF.


Model-S: Switch the rocker switch on right side.

STEP 7

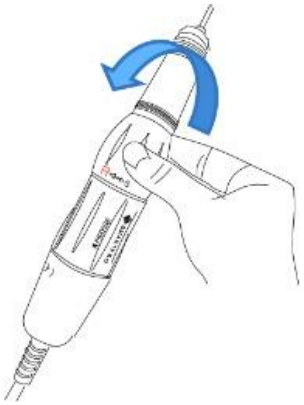
Adjust the control knob clockwise and counterclockwise for the desired speed level.

Micro Motor Direction Switching (Model-X)

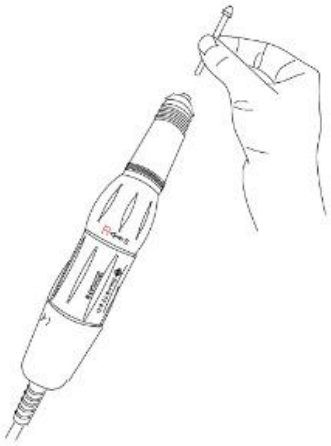
Directions can be changed by switching the rocker on right.

Note: Set the speed setting at zero before changing the direction.

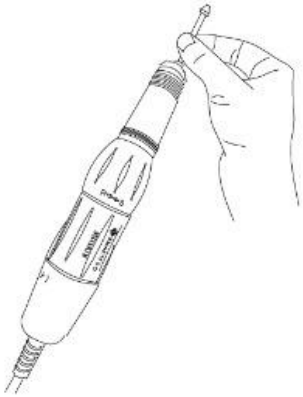
Changing Drill Bit of Micro Motor.



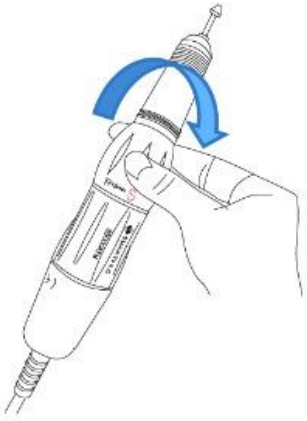
1. Rotate in R direction
(for remove drill bit)



2. Remove drill bit out of micro motor



3. Insert drill bit to micro motor



4. Rotate in S direction
(for lock drill bit)

VI. TESTER OVERVIEW

VII. TOOLS AND ACCESSORIES

Micro Motor Handpiece with Stand

Engraver Handpiece
with Flexible Air Tube

Power Supply Adaptor
with Cable

Foot Pedal

Engraver Blades and Collets

6 different blades (2.5 mm dia)

6 Engraver Handpiece Collets
(2.5 mm inner dia x 3 pcs, 3.5 mm inner dia

Other Accessories

a. User Manual

b. International Warranty

c. Warranty Certificate

d. Hex Tool (1 pc)

e. Hex Socket Screw for Collet (2pcs)

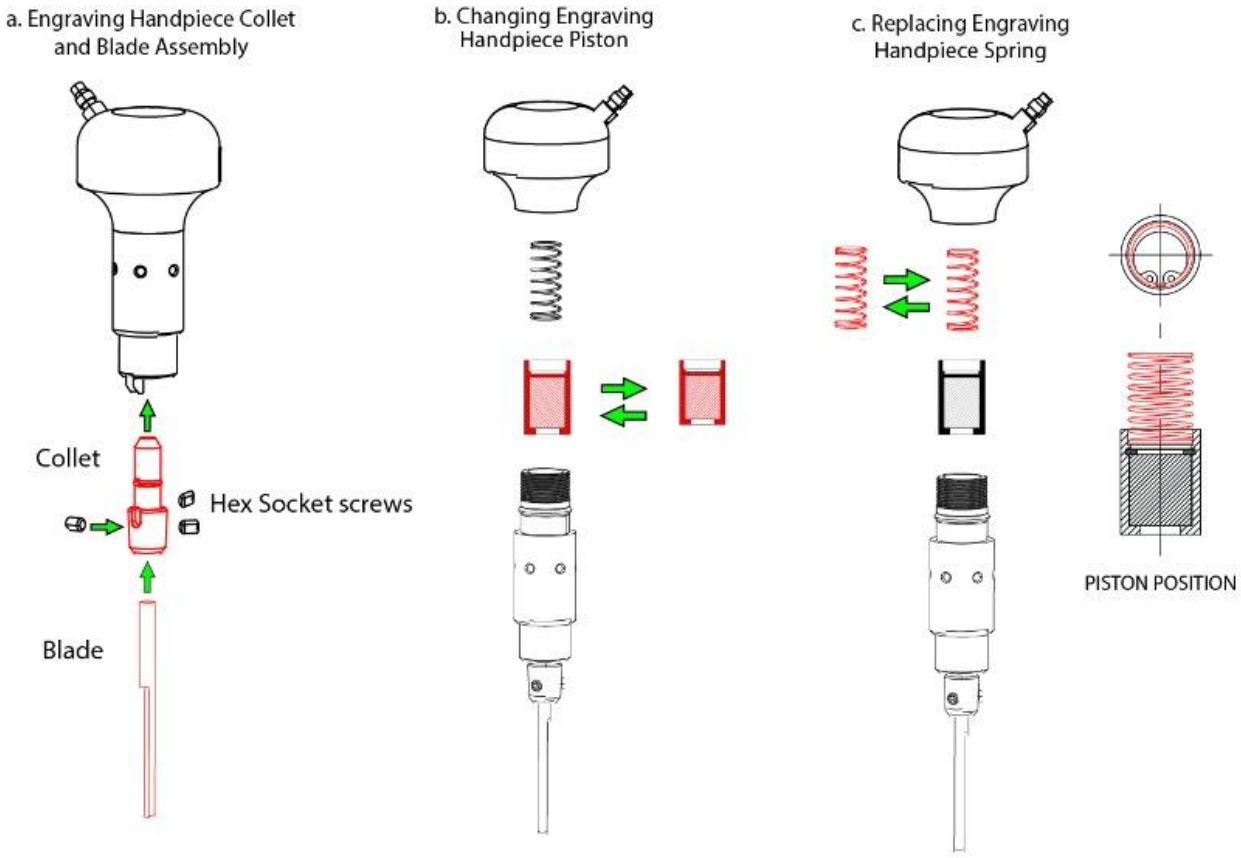
f. Engraver Handpiece Spring (1 pc)

g. Rubber Seal Rings for Collet (2 pcs)

h. Rubber Seal Rings for Engraver Handpiece (2 pcs)

i. Engraver Handpiece Pistons (2 pcs, 1 pc initially intalled)

VIII. ASSEMBLY AND PARTS REPLACEMENT



IX. GENERAL POWER TOOL SAFETY WARNING

General power tool safety warnings:

WARNING Read all safety warnings,instructions,illustrations and specifications provided with this power tool. Failure to follow all instructions listed below 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 mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) 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.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) 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.

e) 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.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal safety:

a) 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 in attention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.

Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not over reach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust related hazards.

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

4) Power tool use and care

a) Do not force the power tool. 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.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) 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.

e) Maintain power tools and accessories. 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.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. 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.

h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Service

a) 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.

SMARTPRO

We thank you for purchasing SmartPro AIR DO. Enjoy!

SmartPro Instrument Co., Ltd.
56/10 moo 8 Nadi Mueang Samut Sakhon District,
Samut Sakhon 74000, THAILAND
E MAIL: SALES@SMARTPROINSTRUMENT.COM
CUSTOMERCARE@SMARTPROINSTRUMENT.COM