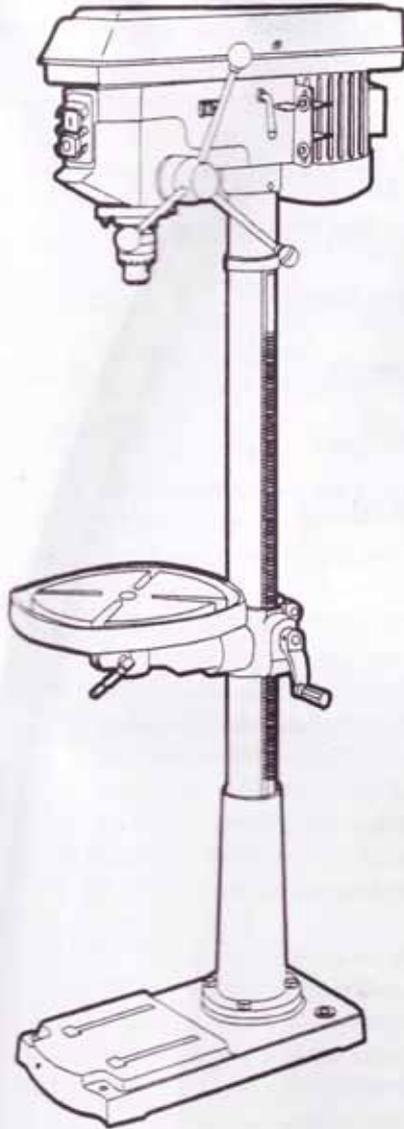


# **REXON®**

## **DRILL PRESSES**



**FOR MODEL NO.  
30A/30AS/DP200AS  
DP200A/DP2000/DP2000A  
DP250A/DP10/DP255A  
DP13A/DP13F/DP330A/DP330F  
DP15A/DP15F/DP380A/DP380F  
DP17F/DP430F**

수입원 : 거성상역  
주소 : 경기도 하남시 하남대로 929번길 15 (풍산동)  
전화번호 : 02)2249-1656

10415063

# **CONTENTS** 목차

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**GB** ————— P 1 - 17

# General Safety Rules

**WARNING !** When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury.



Read all these instructions before attempting to operate your product. Save these instructions for future reference.

1. **Keep work area clear.** Cluttered areas and benches invite injuries.
2. **Consider work area environment.** Do not expose tools to rain. Do not use tools in damp or wet locations. Keep work area well lit. Do not use tools in the presence of flammable liquids or gases.
3. **Guard against electric shock.** Avoid body contact with earthed or grounded surfaces.
4. **Keep other people away.** Do not let others, especially children, not involved in the work touch the tool or the extension lead and keep them away from the work area.
5. **Store idle tools.** When not in use, tools should be stored in a dry locked-up place, out of reach of children.
6. **Do not force the tool.** It will do the job better and safer at the rate for which it was intended.
7. **Use the right tool.** Do not force small tools to do the job of a heavy duty tool. Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.
8. **Dress properly.** Do not wear loose clothing or jewellery, they can be caught in moving parts. Non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **Use protective equipment.** Use safety glasses. Use face or dust mask if cutting operations create dust.
10. **Connect dust extraction equipment.** If devices are provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
11. **Do not abuse the cable.** Never pull the cable to disconnect it from the socket. Keep the cord away from heat, oil and sharp edge.
12. **Secure work.** Where possible use clamps or a vise to hold the work. It's safer than using your hand.
13. **Don't overreach.** Keep proper footing and balance at all time.
14. **Maintain tools with care.** Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.
15. **Disconnect tools.** When not in use, before servicing and when changing accessories such as blades, bits, cutters, disconnect tools from the power supply.
16. **Remove adjusting keys and wrenches.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
17. **Avoid unintentional starting.** Ensure switch is in "off" position when plugging in.
18. **Use outdoor extension leads.** When the tool is used outdoors, use only extension leads intended for outdoor use and so marked.
19. **Stay alert.** Watch what you are doing, use common sense and do not operate the tool when you are tired.
20. **Check damaged parts.** Before further use of the tool, it should be carefully checked to determine that it will operate properly and perform its intended function. Check the alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual. Do not use the tool if the switch does not turn it on and off.
21. **WARNING.** The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.
22. **Have your tool repaired by a qualified person.** This electric tool complies with the relevant safety rules. Repairs should only be carried out by a qualified person using original spare parts, otherwise this may result in considerable danger to the user.

# 일반안전규칙

주의!



1. 작업환경을 깨끗이 유지해 주세요.
2. 작업환경에 주의하세요.  
가 가 가
3. 전기충격으로부터 보호해 주세요.
4. 작업공간에 타인이 가까이 오지 못하게 하세요.  
( ) 가
5. 쓰지 않는 제품은 잘 보관해 주세요.
6. 공구에 압력을 가하지 마세요.
7. 알맞은 목적으로 사용하세요.  
가
8. 작업복을 갖추세요.
9. 안전장비를 착용하세요.  
가
10. 먼지집진장치를 연결하세요. 가
11. 전선을 남용하지 마세요.
12. 안전하게 작업하세요.
13. 무리해서 사용하지 마세요.
14. 공구의 유지와 보수
15. 전원을 차단해 주세요.
16. 조절장치나 렌치를 제거해 주세요.
17. 의도적이지 않은 시작을 피하세요. 가 "OFF"
18. 옥외 연장선을 사용하세요.
19. 주의를 하세요.
20. 손상된 부품을 체크해 주세요.
21. 주의.
22. 수리는 공인된 전문가에게 맡기세요.

# Additional Safety Rules for Drill Presses

1. This drill press is intended for use in dry conditions, and for indoor use only.
2. Do not drill pieces of material too small to be securely held.
3. Keep hands out of the path of drill bits. Avoid awkward hand positions where a sudden slip could cause your hand to move into the drill bit.
4. Do not install or use any drill bit that exceeds 175 mm in length or extends 150mm below the chuck jaws. They can suddenly bend outward or break.
5. Choose the right drill bits for your workpiece materials. Do not use wire wheels, router bits, shaper cutters, circle (fly) cutters, or rotary planners on this drill press.
6. When drilling a large piece of material make sure it is fully supported at the table height.
7. Do not perform any operation freehand. Use jigs, clamps, fixtures or different tools for unstable workpieces.
8. Do not drill the material too fast to avoid overloading of the drill.
9. Make sure there are no nails or foreign objects in the part of the workpiece to be drilled.
10. If the workpiece overhangs the table and will fall or tip if not held, clamp it to the table or provide auxiliary support.
11. When using a drill press vice, always fasten it to the table.
12. Make sure all clamps and locks are firmly tightened before drilling.
13. Do not perform layout assembly or set up work on the table while the drill press is in operation.

**WARNING!** Noise can be a health hazard. When the noise level exceeds 85dB(A), be sure to wear ear protection.

# 안전한 드릴프레스 사용을 위한 추가적인 사용설명

- 1.
- 2.
- 3.
4. 175mm 150mm
5. ( )
6. 가 가
- 7.
- 8.
- 9.
10. 가
- 11.
12. 가
13. 가

**!**  
85dB(A)

# Installation

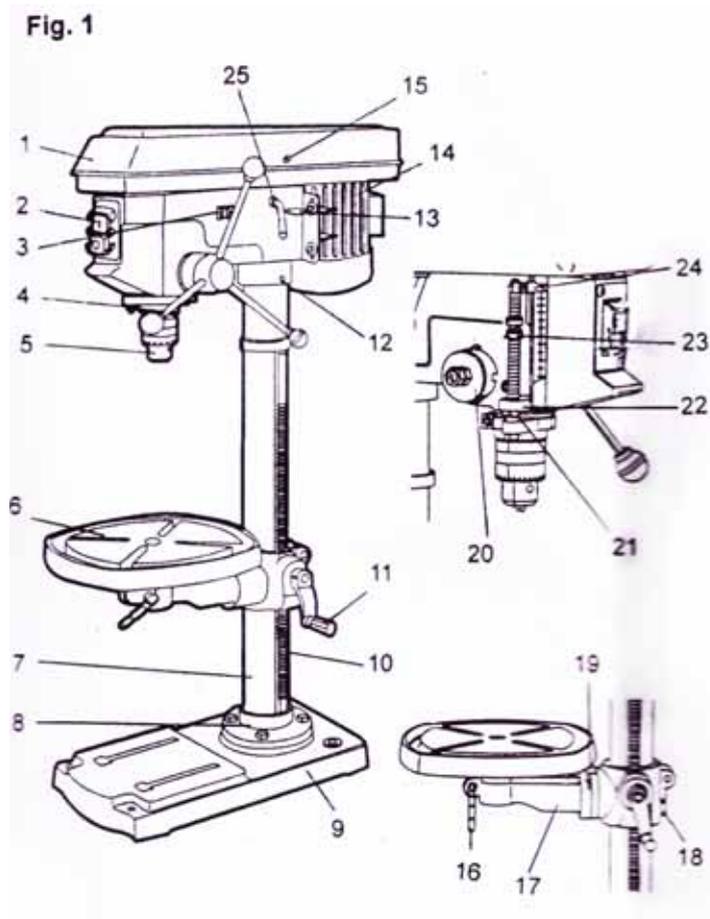
Know Your Drill Press (Fig. 1)

1. Pulley cover
2. Switch
3. Chuck key mount
4. Feed handle
5. Chuck
6. Table
7. Column
8. Column holder
9. Base
10. Rack
11. Table crank handle
12. Head lock screw
13. Belt tension knob
14. Motor
15. Pulley cover lock screw
16. Table lock handle
17. Table bracket
18. Bevel lock
19. Bevel scale
20. Feed spring
21. Depth lock nut
22. Depth stop lug
23. Depth stop nut
24. Depth pointer
25. Belt tension handle

# 설치

드릴프레스 알기(그림.1)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.
- 17.
- 18.
- 19.
- 20.
- 21.
- 22.
- 23.
- 24.
- 25.



DP380A

## Assembly

**WARNING!** Never connect the plug to power source outlet until all installations and adjustments are completed and you have read and understood the safety and operational instructions.

**Note:**

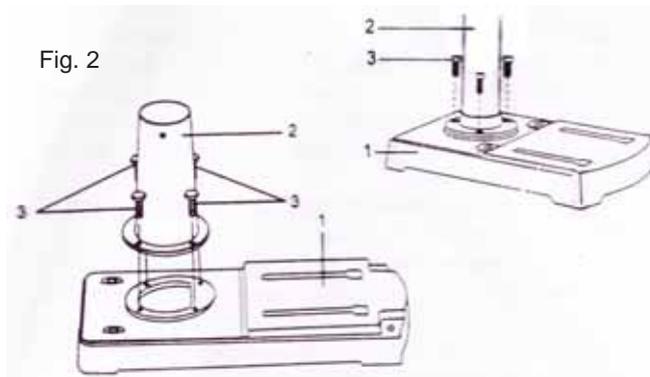
Move all parts to the desired work site before assembling them together. Follow the assembly instruction and carefully assemble the tool with the help of a second person. The head assembly is heavy, use care when lifting onto the column.

**Note:**

The loose parts can be found in the pulley cover.

Installing the column to base (Fig. 2)

Assemble the column(1) to the base(2) with bolts(3).

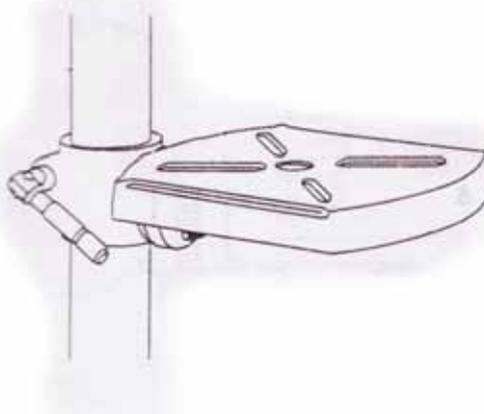


Installing the table to column

FOR THE TABLE WITHOUT TABLE BRACKET (FIG.3)

1. Slide the table assembly onto the column assembly.
2. Install the table lock handle from left hand side into the table assembly, then tighten it.

Fig. 3



## Assembly

(1) (2) (3)

(3)

- 1.
- 2.

**FOR THE TABLE WITH TABLE BRACKET(FIG. 4,5,6,7,8,9)**

1. Insert the worm gear(1) into the table crank handle hole(2) from inside the table bracket(3). Make sure the worm gear(1) matches with the inside gear. (Fig. 4)

2. Insert the table lock handle(4) into the hole at the rear of the table bracket. (Fig. 4)

3. Place the rack(1) in position inside the table bracket(2), making sure the worm gear(3) on the inside of the table bracket is engaged with the teeth of the rack. (Fig. 5)

**Note:**

Table removed from bracket in Fig. 4 & 5 for clarity.

4. Slide the table bracket assembly together with the rack onto the column.

5. Engage the bottom of the rack(1) with the lip of the column holder(2). Tighten the bracket lock handle(3) to lock the table bracket assembly to the column. (Fig. 6)

6. Install the collar(1) to the top end of the rack(2) on the column. (Fig. 7)

**IMPORTANT:** The bottom of the collar must not be pushed all the way down onto the top of the rack. Make sure the top of the rack is under the bottom of the collar and that there is enough clearance to allow the rack to rotate freely around the column. Tighten the set screw(3). (Fig. 7)

7. Install the table crank handle(1) to the worm gear shaft(2) on the side of the table bracket(3). (Fig. 8)

8. Line up the flat side of the shaft with the set screw(4) in the crank handle and tighten the screw with a hex wrench. (Fig. 8)

9. Place the table(1) in the table arm assembly. Tighten the table lock handle(2). (Fig. 9)

( . 4,5,6,7,8,9)  
 1. (3) (2)  
 (1) (1)가  
 . ( . 4)  
 2. (4)  
 . ( . 4)  
 3. (2) (1) ,  
 가 . ( . 5)

:  
 . 4 & 5

4.  
 5. (2) (1)  
 (3)  
 . ( . 6)  
 6. (2) (1) . ( . 7)

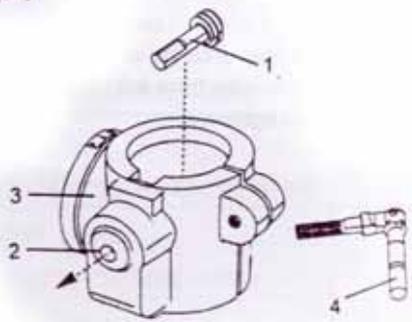
: 가  
 (3)  
 ( . 7)

7. (3) (2) (1)  
 . ( . 8)

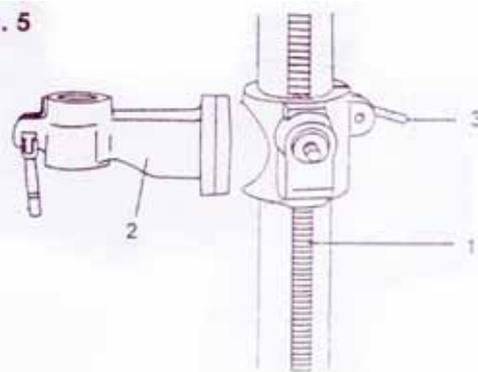
8. (4) 가

9. (1) (2)  
 . ( . 9)

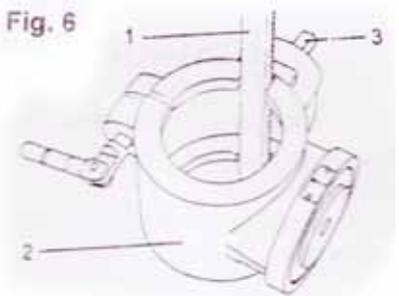
**Fig. 4**



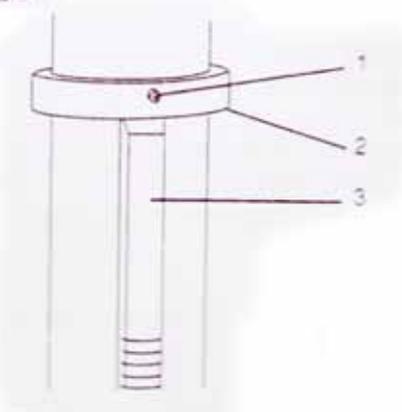
**Fig. 5**



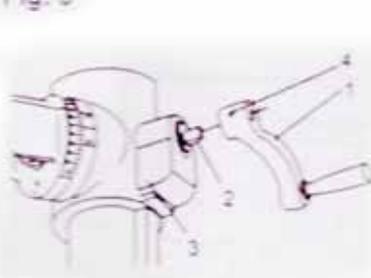
**Fig. 6**



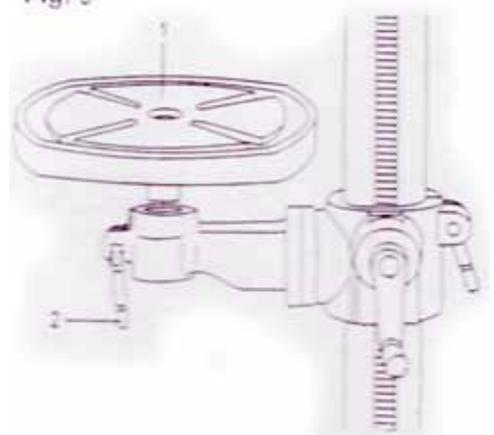
**Fig. 7**



**Fig. 8**

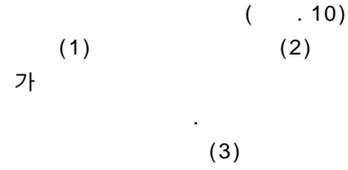


**Fig. 9**



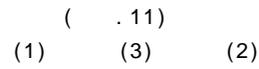
Installing the head to the column(Fig. 10)

Carefully lift the head(1) above the column(2) and slide it onto the column. Make sure the head slides down over the column as far as possible. Align the head with the base. Using the supplied hex wrench(3), tighten the two head lock set screws(3) on the right side of the head.



Installing the feed handles(Fig. 11)

Screw the feed handles(1) into the threaded holes(2) in the hub(3). Tighten.



Installing the chuck

FOR THE SPINDLE WITHOUT ARBOR(FIG. 12, 13, 14)

1. Clean out the tapered hole in the chuck and clean the spindle nose with a clean cloth before pushing up the chuck onto the spindle nose. (Fig. 12)
2. Turn the chuck sleeve anticlockwise(when viewed from above) and open the jaws in the chuck completely. (Fig. 13)
3. Place a block of wood on the drill press table and lower the spindle until the chuck contacts the piece of wood. Apply pressure to properly seat the chuck. (Fig. 14)

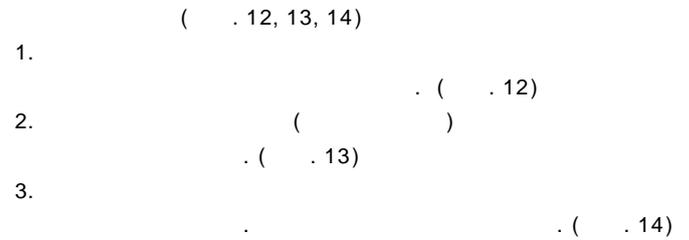


Fig. 10

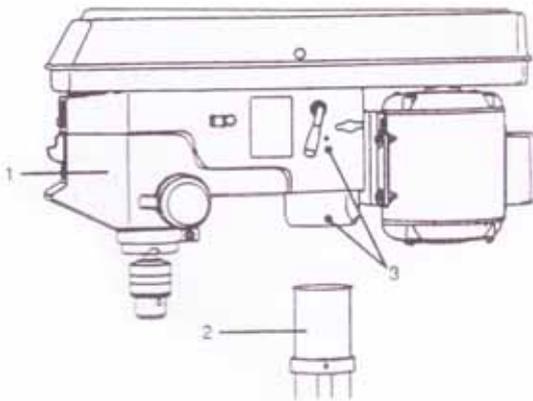


Fig. 11

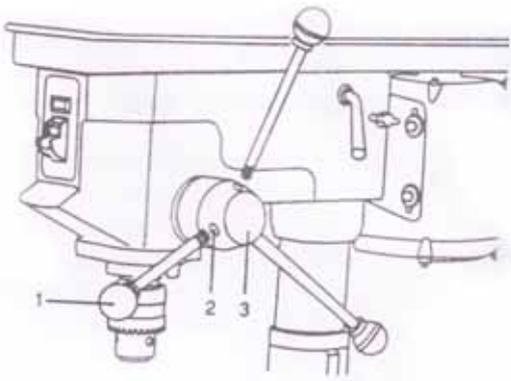


Fig. 12



Fig. 13

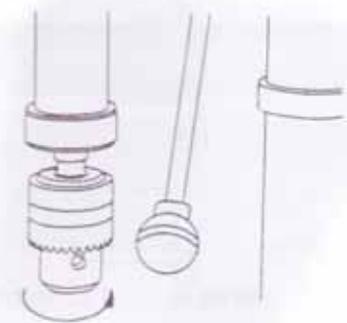
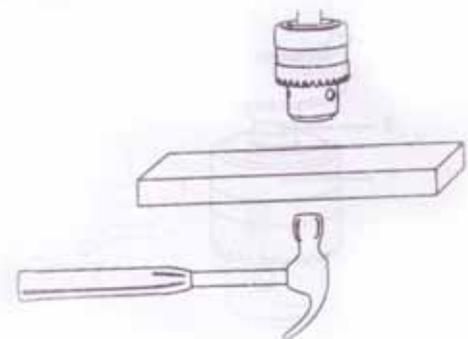


Fig. 14



**FOR THE SPINDLE WITH THE ARBOR (FIG, 15, 16, 17)**

Clean out the tapered hole in the chuck(1) with a clean cloth (Fig. 15)

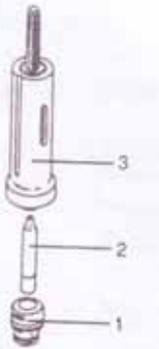
1. Clean tapered surfaces on the arbor(2) and spindle(3). (Fig. 15)
2. Push the chuck(1) onto the spindle arbor(2). Tap gently to ensure seat. (Fig. 16)
3. Lower the spindle(2) by turning the feed handles(3) anticlockwise until the slot(4) appears on the quill(5). (Fig. 16)
4. Push the chuck and spindle arbor up into the spindle, making sure the tang(6) (upper narrow end of the spindle arbor shank) is engaged and locked in the inner slot(7) of the spindle. This can be seen through the outer slot(4) of the quill by rotating the chuck and arbor until the two slots are aligned. (Fig. 16)
5. Open the jaw of the chuck(1) by rotating the chuck sleeve clockwise. To prevent damage, make sure the jaw are completely retracted into the chuck. (Fig. 17)
6. Unlock the table bracket lock(2) and raise the table until it is 25 mm below the tip of the chuck(1). Lock the table bracket lock. (Fig. 17)
7. Turn the feed handles(3) anticlockwise, lowering the chuck. Force the chuck against the table until it is securely pressed onto the spindle. (Fig. 17)

**Installing the optional fence assembly**

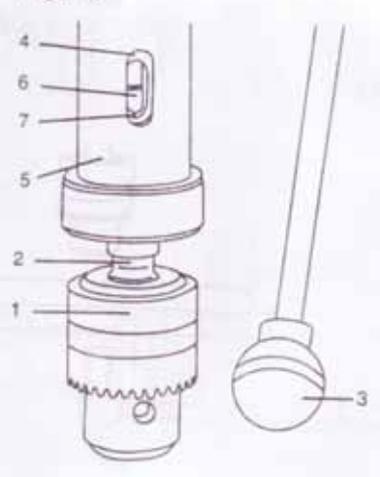
**FOR THE TABLE WITHOUT OIL CHANNELS (Fig. 18)**

1. Determine the desired location for the fence(1).
2. Align the mounting holes of the fence over the table top slots.
3. Place a washer(2) on the threaded end of the knob(3). Insert the knob through the mounting hole of the fence and the table slot.
4. Place a washer and wing nut(4) on the knob from under the table.
5. Repeat for the other knob and tighten.

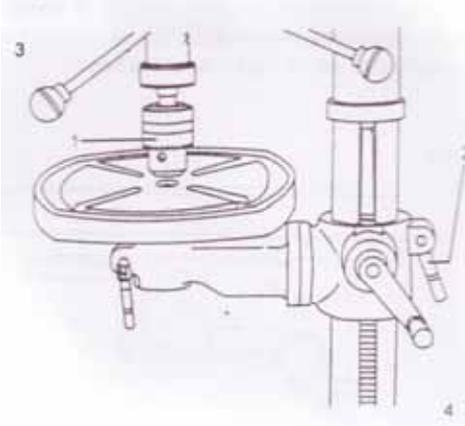
**Fig. 15**



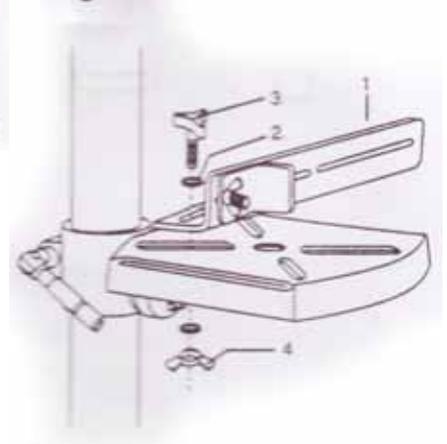
**Fig. 16**



**Fig. 17**



**Fig. 18**



( , 15, 16, 17)

(1) . ( . 15)

1. (2) (3) . ( . 15)

2. (2) (1) . ( . 16)

3. (3) (2) (4)

(5) . ( . 16)

4. (7)

(4) 가

5. (1)

( . 17)

6. (2) 25mm가 . ( . 17)

7. (3)

가 . ( . 17)

( )

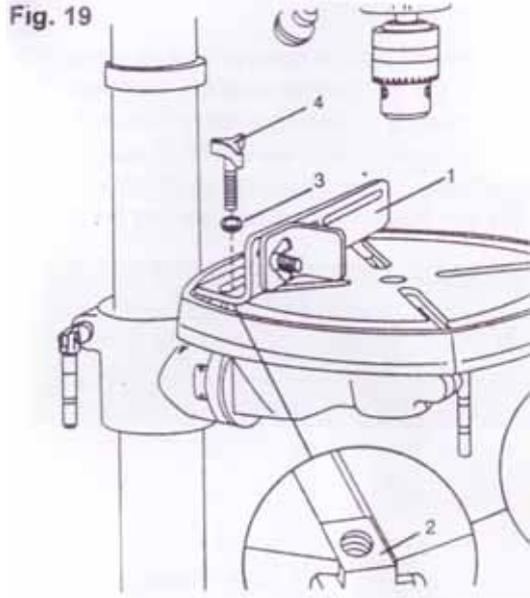
( . 18)

1. (1)
- 2.
3. (3) (2)
4. (4)
- 5.

FOR THE TABLE WITH OIL CHANNELS (Fig. 19)

1. Determine the desired location for the fence (1). Slide the T-blocks (2) into the appropriate channels as shown.
2. Align the mounting holes of the fence over the T-block's threaded holes.
3. Place a washer (3) on the threaded end of the knob(4). Insert the knob through the mounting hole of the fence into the T-block, and tighten.
4. Repeat for the other knob and T-block.

1. (1) ( . 19) . T - (2)
2. T -
3. (3) (4)
- T -
4. T -



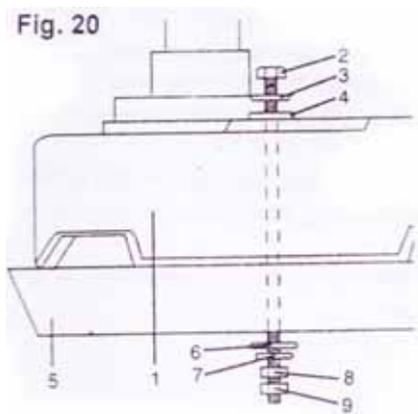
**MOUNTING THE TOOLS(FIG. 20)**

**( .20)**

Note:  
We highly recommend that bolt this drill press securely to a work bench to gain maximum stability for your machine.

1. Using the base of the drill press as a template mark the bench through the holes in the casting and drill the bench with a  $\Phi 10\text{mm}$  drill bit.
2. Bolt the drill press on the bench with bolts, washes, and nuts. Note that there fasteners are not supplied with the machine. The hardware used in the illustration are:  
(1) Drill press base (2) Bolt (3) Flat washer (4) Rubber washer  
(5) Work surface (6) Flat washer (7) Lock washer (8) Hex nut  
(9) Jam nut.

1.  $\Phi 10\text{mm}$
2. , , 가
- (1) (2) (3) (4)
- (5) (6) (7) (8)
- (9)



## Connecting to the Power Supply

Check that the power supply and plug receptacle are in accordance with your drill press. Have a look at the rating plate of the motor or the rating on the drill press. Any change should always be carried out by a qualified electrician.

**WARNING!** This machine must be earthed.

If not properly earthed this machine can cause an electrical shock. Be sure that the power supply outlet is earthed. If there is any doubt, have it checked by a qualified electrician.

**WARNING!** Avoid contact with the terminals on the plug when installing(removing) the plug to(from) the power supply outlet. Contact will cause a severe electrical shock.

### Using an extension lead

The use of any extension lead will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, ask advice from a qualified electrician to determine the minimum wire size of the extension lead.

The extension lead should be equipped with an earthed type plug that fits the power supply outlet at one end, and with an earthed type socket that fits the plug of this machine at the other end.

## Operating the tools

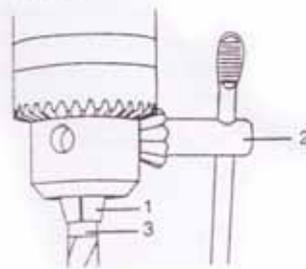
**WARNING!** Never connect the plug to power source outlet until all installations and adjustments are completed and you have read and understood the safety and operational instructions.

### Installing the drill bit (Fig. 21)

1. Insert a drill bit(1) into the chuck far enough to obtain maximum gripping of the chuck jaws(2). (When using a small drill bit do not insert it so far that the jaws touch the flutes - spiral grooves of the drill bit. )
2. Make sure the drill bit is centered, then tighten the chuck equally with the chuck key(3) by using all three holes in succession.

Note: The drill bit can be released by using one hole only.

Fig. 21



( . 10)

가

가

!

가

가

가

가

!

( )

가

( )

가

가

가

가

!

( . 21)

1.

(1)

(2)

( )

2.

가

(3)

Adjusting the table height (Fig. 17)

( . 17)

1. Unlock the table bracket lock handle. (2)
2. Turn the table crank handle (4) clockwise to raise the table; anticlockwise to lower the table to the required height.

1. (2)
2. (4)

Note:

It is better to lock the table to the column in a position so that the tip of the drill bit is just slightly above the top of the workpiece.

3. Tighten the table lock handle. (3)

3. (3)

Tilting the table (Fig. 22)

( . 22)

**WARNING!** To avoid injury from spinning work or tools breakage, always clamp workpiece and backup material securely to the table before operating the drill press with the table tilted.



FOR THE TABLE WITHOUT TABLE BRACKET

1. Turn the set screw (1) with the hex key anticlockwise to release it from the table bracket (2).
2. Loosen the table bevel lock bolt (3) and tilt the table to the desired angle.
3. Tighten the table bevel lock bolt.

1. (2) (1)

2. (3)

- 3.

FOR THE TABLE WITH TABLE BRACKET

1. Loosen the bevel lock (1) with a wrench.
2. Remove the horizontal locking pin (2) by turning the nut (3) clockwise until the pin can be pulled from the hole, far enough to allow the table to move.
3. Tilt the table to the desired angle, using the bevel scale (4) as a basic guide.
4. Tighten the bevel lock.
5. To return the table to its original position, loosen the bevel lock bolt (1). Realign the bevel scale to the 0° setting.
6. Turn the nut (3) on the locking pin (2) counterclockwise to the end of the threads.
7. Gently tap the locking pin until it is seated in the hole.
8. Tighten the bevel lock with a wrench.

1. (1)
2. (2)

3. 가 (4)

- 4.
5. (1)

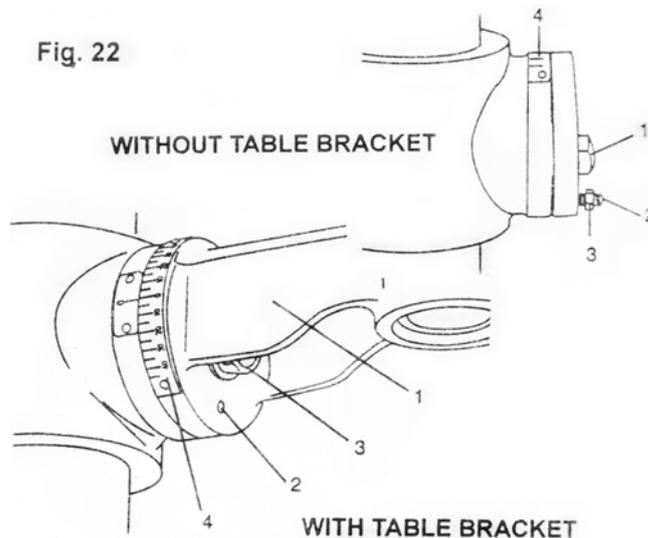
6. 0° (2) (3)

- 7.
- 8.

Note:

1. The set screw is for the 90° alignment of the table.
2. The bevel scale (4) is for quick bevel angle reference only. Always check the angle before drilling.

1. 90°
2. (4)



Drilling a hole(Fig. 10)

1. Use centre punch or a sharp nail to make a dent in the workpiece where you want the hole.
2. Lock the table(1) to the column (2) at a position so the tip of the drill bit is just above the top of the workpiece.
3. Bring the drill(3) down to the workpiece(4) to line up with the hole location, then fix your workpiece.
4. Turn on the switch by pressing "I" (ON) button and pull down on the feed handles with adequate effort.

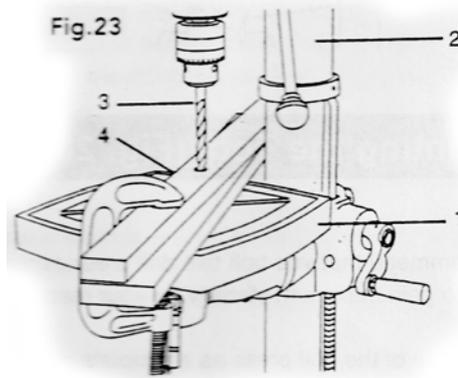
1. ( . 10)
2. (2)
3. (3) (4)
4. " I "

Note:

1. When drilling woods, place a piece of blackup material(5) (scrap wood) on the table underneath the workpiece. This will prevent splintering or making a heavy burr on the underside of the workpiece as the drill bit breaks through.
2. When drilling metal, it may be nessary to lubricate the tip of the drill with motor oil to prevent burning the drill bit.

1. ( )
2. ,

WARNING! Clamp workpiece against the left side of the column to prevent rotation. IF it is too short or the table is tilted, clamp solidly to the table. For small pieces that can not be clamped to the table, use a drill press vise(optional accessory).



Drilling to a specific depth

Workpiece Method(Fig. 24, 25) recommended for drilling a specific depth which can be marked on the side of the workpiece

( . 24, 25)

1. Mark the depth of the hole on the side of the workpiece(1).
2. Turn off the drill press, bring down the drill bit(2) until the tip is even with the mark.
3. Hold the feed handle and spin the lower nut(3) down to contact the depth stop lug(6) on the Head.
4. Spin the upper nut(5) down and tighten against the lower nut(3).
5. Release the feed handle and now the drill bit will be stopped after traveling downward the distance marked.

1. (1)
2. (2)
3. (3) (3)가
4. (6) (5) (3)
- 5.

( . 25)

Depth Scale Method (Fig. 25) recommended for drilling a known depth hole

1. Turn off the drill press, turn feed handle until the depth stop(6) points to the desired depth on the depth scale(4). Hold the feed handles in that position.
2. Spin the lower stop nut(3) down to contact the depth stop (6).
3. Spin the upper stop nut(5) against the lower stop nut(3) and tighten.
4. The drill bit will not stop after traveling the distance on the depth scale.

Using the optional fence(Fig. 26)

Note:

The fence provides a way of accurately and quickly setting up the workpiece for more precision or repetitive drilling operations.

1. Use a center punch or a sharp nail to make a dent in the workpiece where you want to drill.
2. Lower the drill bit to align with the dent on the workpiece.
3. Loosen the knobs(1) and slide the fence back stop(2) firmly against the long side of the workpiece. Tighten the knob when in position.
4. Loosen the wing nut(3) and slide the end stop(4) along the fence until it is firmly against the left side of the workpiece. Tighten the wing nut.
5. Check the accuracy by drilling a scrap workpiece. Adjust if needed.
6. Hold with your hand or clamp the top surface of the workpiece firmly to prevent it from lifting off the table when the bit is raised.

#### LOCKING ROCKER SWITCH (Fig. 27)

WARNING! Disconnect the drill press from the power source before making any adjustment.

1. To turn the drill press on, insert the yellow key into the switch housing.
2. Push the switch to the "ON" position
3. To turn the drill press off, move the switch to the "OFF" position.
4. To lock switch in the "OFF" position, remove the yellow key from the switch housing. Always store the key in a safe place.
5. Never leave the drill press unattended before it has come to a complete stop.

#### NO VOLT RELEASE(NVR) SWITCH(Fig. 28)

The main switch(1), No Volt Release(NVR) switch, is on the front of drill head or on the side of drill head with forward/reverse switch(2). Press "I" to turn on the power; press "O" to turn off the power.

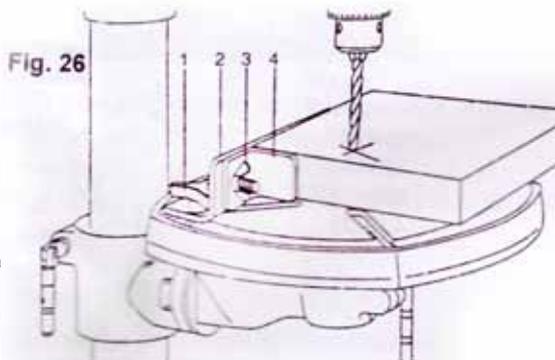
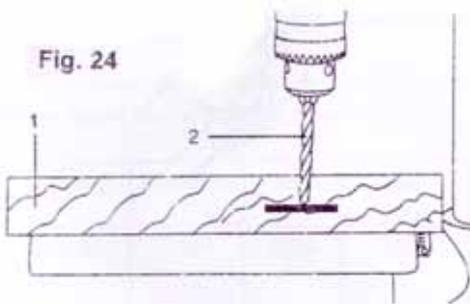
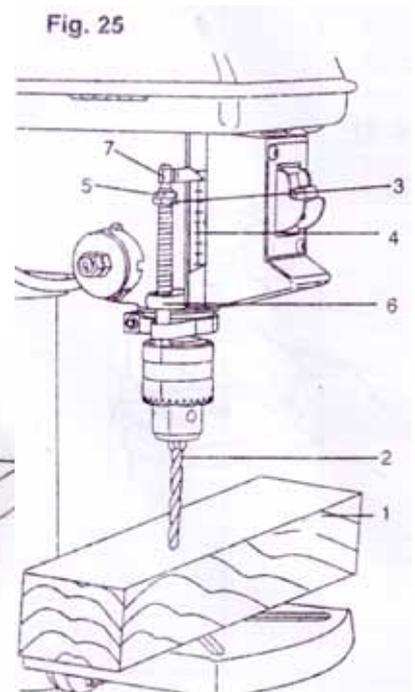
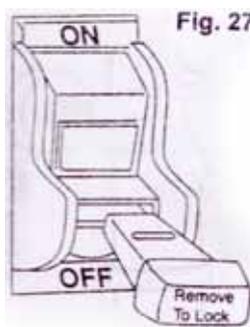
The 3-phase model may be equipped with a forward/reverse switch. Be sure to turn off the main switch before pressing the forward/reverse switch.

An interlock (micro) switch, which will cut off the power when the lockable pulley cover is opened, is equipped with the drill press for double protection from the possible injury caused by the moving parts inside the pulley cover.

1. (6)
2. (3) (6)
3. (7) (3)
4. 가 ( .26)

- 1.
- 2.
3. (1) (2)
4. (3) (4)
- 5.
6. 가 가 ( .27, 28)

- 1.
  2. "ON"
  3. "OFF"
  4. "OFF"
  5. 가 ( .28)
- (1), (NVR)  
/ (2) "O"  
"I" /  
3-phase / /  
( ) 가



Locking the chuck at the desired depth(Fig. 29)

1. Make sure the power source is disconnected.
2. Turn the feed handles until the chuck(1) is at the desired depth. Hold the feed handles at this position.
3. Turn the depth lock nut(2), located under the lug(3), anticlockwise and upwards until it is against the lug.
4. The chuck will now be held at this position when the handles are released.

( . 29)

- 1.
2. (1)
3. (3) (2)
- 4.

Removing the chuck (Fig. 30, 31)  
FOR THE SPINDLE WITHOUT ARBOR

1. Make sure the power source is disconnected.
2. Open the jaws of chuck by turning chuck sleeve clockwise. (when viewed from above)(Fig. 30)
3. Carefully tap the chuck with a mallet in on hand while holding the chuck in another hand to prevent dropping it when released from spindle nose. (Fig. 31)

( . 30, 31)

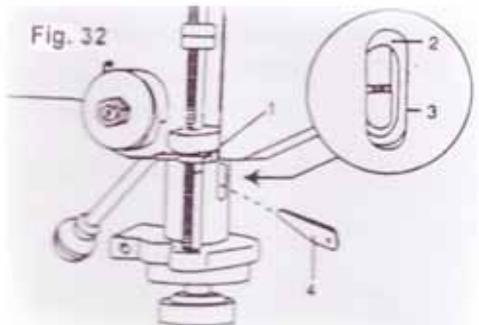
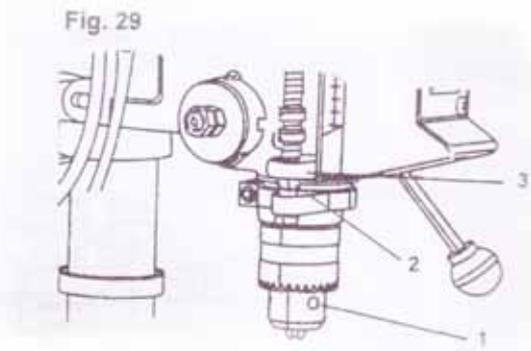
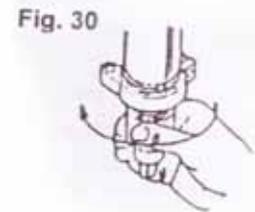
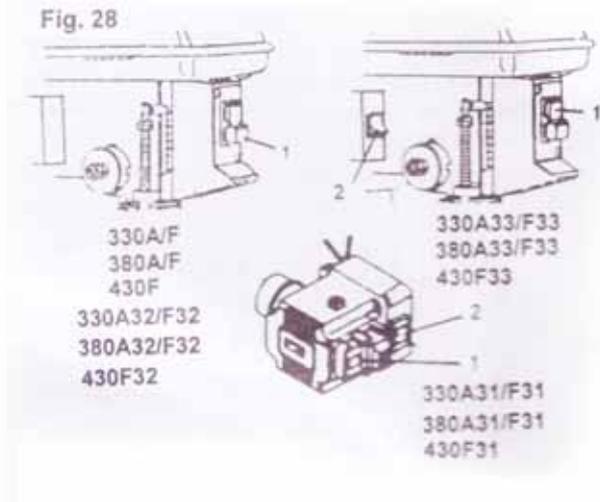
- 1.
2. ( . 30)
3. ( . 31)

FOR THE SPINDLE WITH ARBOR (FIG. 32)

1. Make sure the power source is disconnected.
2. Adjust the depth stop nut(1) to hold the drill at a depth of 75mm. (Refer to "Locking the chuck at the desired depth")
3. Align the key holes(2) & (3) in the spindle and quill by rotating the chuck by hand.
4. Align the key wedge(4) into the key holes(2) & (3).
5. Tap the key wedge(4) lightly with a plastic tipped hammer until the chuck and arbor fall out of the spindle. Please one hand below the chuck to catch it when it falls out.

( . 32)

- 1.
2. 75mm (1)
3. (2) & (3)
4. (2)&(3) (4)
5. 가 (4)



## Changing speeds (Fig. 1)

1. Loosen the locking screw(15) on the pulley cover(1), then open the cover.
2. Loosen the belt tension lock knobs(13) on each side of drill press head. Turn the belt tension handle(25) toward the front to relieve the belt tension.
3. Refer to the speed chart inside the pulley cover and move the belts to correct position for the desired speed.

Note: The recommended speed (in  $\text{min}^{-1}$ ) for various materials are listed below for your reference.

Drill Bit Dia. (mm)	Wood	Aluminum	Plastic	Mild Steel	Stainless Steel	
Ø1	2500	2500	2500	2500	2500	
Ø2					1210	
Ø3					1520/1820	
Ø4					1210	910
Ø5					1520	1070
Ø6					1820	1210/1520
Ø7					2500	1820
Ø8					910	340
Ø9					1070	450
Ø10					1210	540
Ø11	1210 1520 1820 2500	1210 1520 1820 2500	1210 1520 1820 2500	450 490 540 910	300	
Ø12					340	
Ø13					450	
Ø14					490	
Ø15					540	
Ø16					910	
Ø17					910	
Ø18					910	340
Ø19					1070	450
Ø20					450	450
Ø21	910 1070 1210 1520	450 490 540 910	450 490 540 910	340 450 490	450	
Ø22					450	
Ø23					490	
Ø24					540	
Ø25	910	910	910	910	910	

( . 1)

1. (1) (15)
2. (13) (25)
- 3.

## Maintenance

**WARNING!** For your own safety, turn the switch off and remove the plug from the power source outlet before maintaining or lubricating your drill press.

### General Maintenance

Frequent blow out using an air compressor or dust vacuum, any dust that accumulates inside the motor.

A coat of automotive paste wax applied to the table and column will help to keep the surface clean.

**WARNING!** To avoid shock or fire hazard, if the power lead is worn or cut in any way, replace it immediately.

#### LUBRICATION

All the drilling machine ball bearings are packed with grease at factory. They required no further lubrication.

Periodically lubricate the gear and rack, table elevation mechanism of the spindle and the rack(teeth) of the quill.

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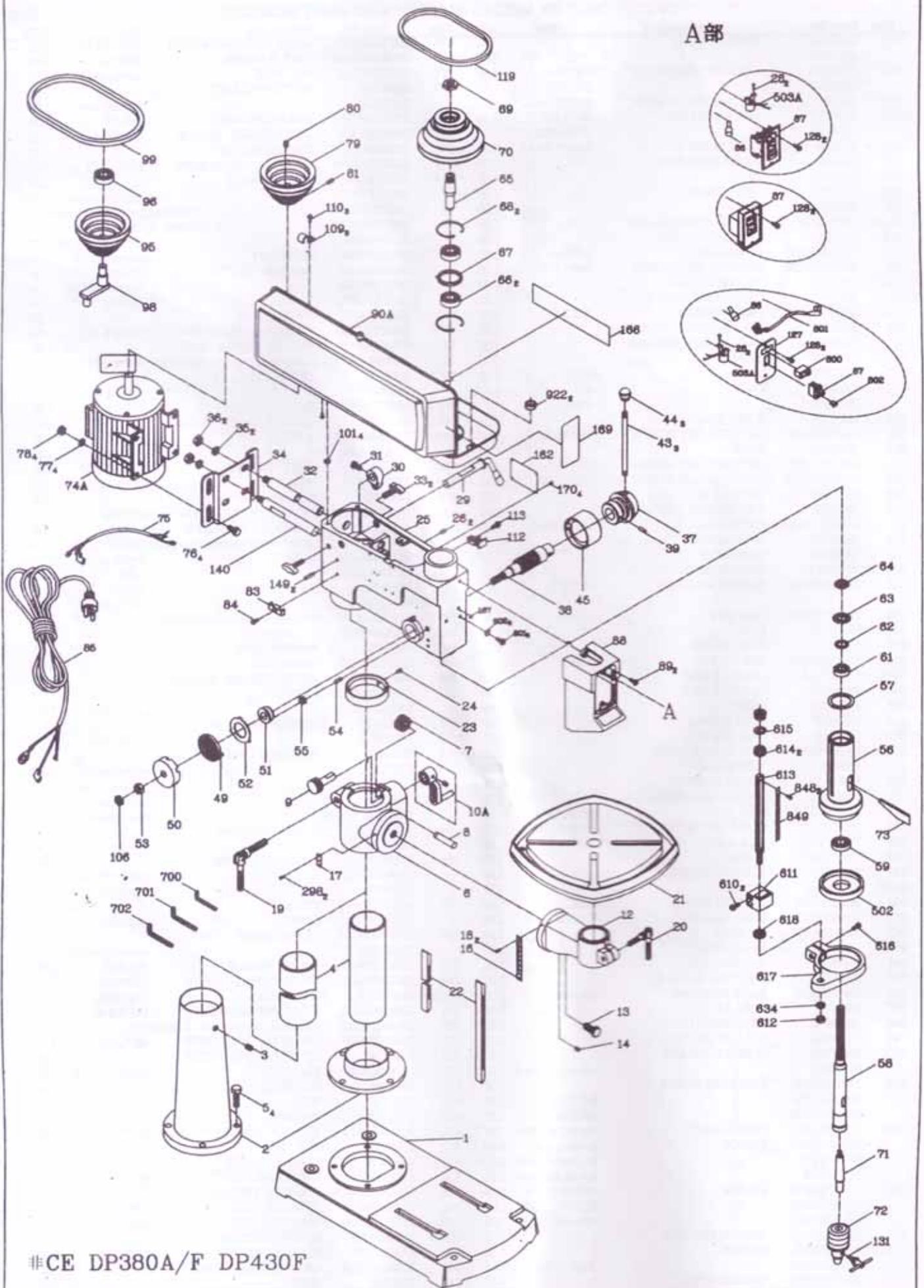
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## Trouble Shooting

PROBLEM	PROBLEM CAUSE	REMEDY SUGGESTED
Chuck will not stay attached to spindle	Dirt, grease or oil on the tapered inside surface of the chuck or on the spindle's tapered surface	Using household detergent, clean the tapered surfaces of chuck and spindle.
Noisy operation	1. Dry spindle	1. Lubricate spindle.
Drill bit burns	1. Incorrect speed 2. Chips not coming out of the hole 3. Dull drill bit 4. Feeding too slow	1. Change speed. 2. Retract drill bit frequently to remove chips 3. Reshaper the drill bit. 4. Feed faster.
Drill leads off, hole not round	1. Hard grain in wood or lengths of cutting lips and/ or angle not equal. 2. bent drill bit.	1. Reshaper the drill bit correctly. 2. Replace the drill bit.
Drill bit binds in work piece.	1. workpiece pinching drill bit or excessive feed pressure.	1. Support workpiece or clamp it properly.
Excessive drill bit runout or wobble.	1. Bent drill bit. 2. Worn spindle bearings 3. Drill bit not properly installed in the chuck. 4. Chuck not properly installed.	1. Use a straight drill bit. 2. Replace bearings. 3. Install drill bit properly. See Installing the drill bit. 4. Install the chuck properly. See Installing the chuck.
Insufficient torque	1. Speed too high.	1. Reduce the speed.
Speed tolerance exceeds 10%	1. Worn belts.	1. Change belts.
Wood splinters on underside	1. No backup material under workpiece.	1. Use backup material. See Drilling a hole.
No motion when power is on	1. Plug is disconnected. 2. Faulty switch. 3. Belts are not positioned well after replacement. 4. Burn motor	1. Plug in. 2. Change switch. 3. Re-position the belts. 3. Change motor.

PROBLEM	PROBLEM CAUSE	REMEDY SUGGESTED
	1.	1.
가	1. 2. 가 3. 4.	1. 2. 3. 4.
	1. 2.	1. 2.
가	1. 가 가	1.
가	1. 2. 3. 가 4.	1. 2. 3. 4.
	1. 가	1.
10%	1.	1.
	1. 가	1.
	1. 2. 3. 4.	1. 2. 3. 3.

A部



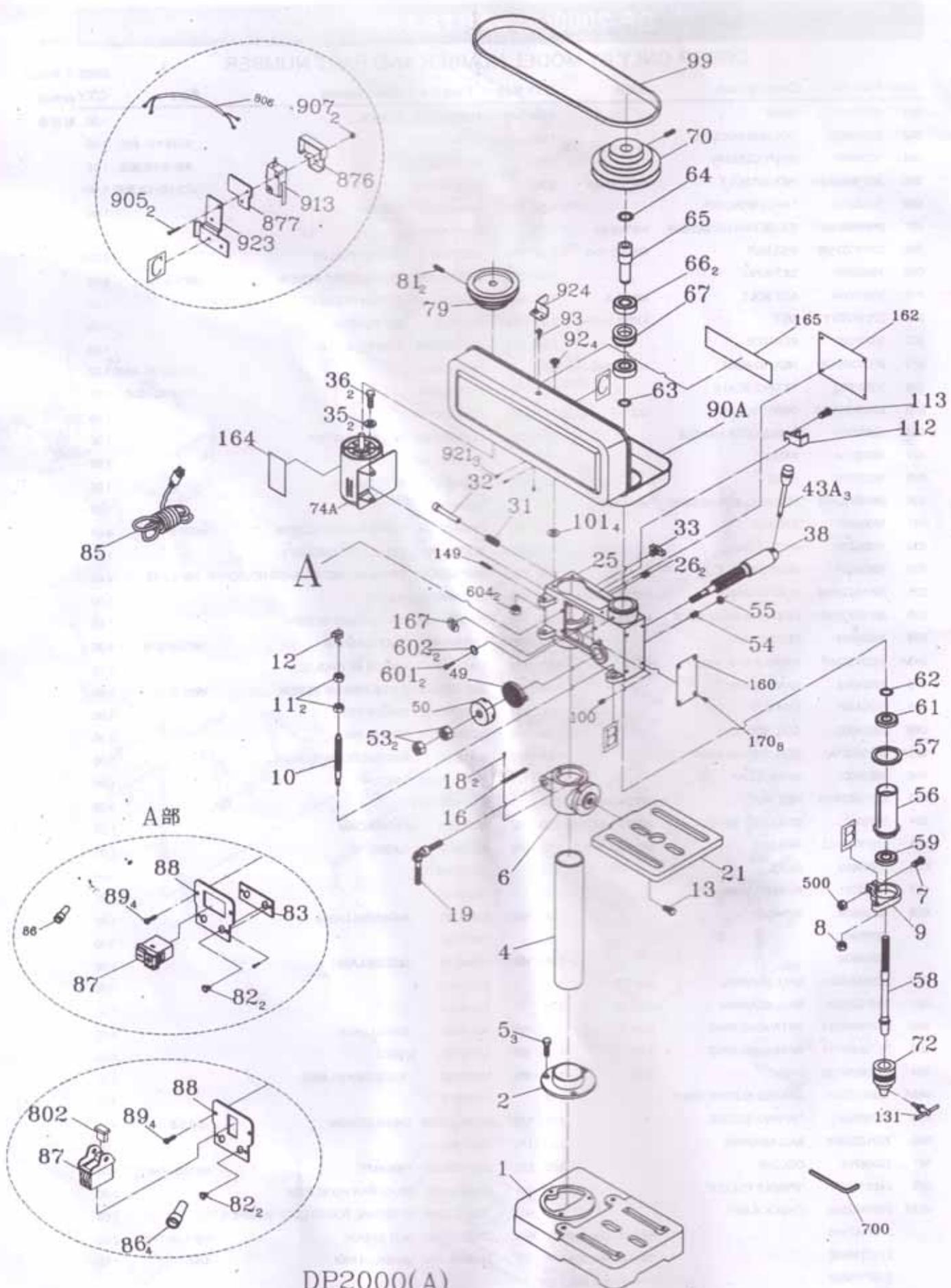
# DP-2000(A) PARTS LIST

knova

ORDER ONLY BY MODEL NUMBER AND PART NUMBER

0500 哥倫比亞

Key	Part No.	Description	Size	QTY	Key	Part No.	Description	Size	QTY	註西發
001	10200131	BASE		1.00	072	2135CTQ2142	CHUCK		1.00	耐昇發
002	10200202	COLUMN HOLDER		1.00		2135CTQ132		RJ33-13L 鋸粉	1.00	
004	10200407	BODY COLUMN		1.00		2135CTQ216		RB16-13L 螺絲	1.00	
005	2601BBDA90	HEX HD BOLT	M8*1.25-25	3.00		2135CTQ105		JT2-1/2-13L 螺絲	1.00	
006	10200603	TABLE BRACKET		1.00	074A	8015B20204	MOTOR		1.00	
007	2668BBDA27	CR.RE PAN HD SCREW	M5*0.8-20	1.00		8015A10209			1.00	
008	2701FZD106	HEX NUT	M6*1.0 T=5	1.00	079	10207906	MOTOR PULLEY		1.00	
009	10200907	SET RING		1.00	081	2603BBLA38	HEX SOC.SET SCREW	M8*1.0-10	2.00	
010	10201004	SET BOLT	M10*1.5	1.00	082	2801ABHA03	STRAIN RELIEF		2.00	
011	2701FZD111	NUT	M10*1.5 T=4	2.00	083	10208303	SET PLATE		1.00	
012	10201202	POINTER		1.00	085	2807BB02H2	POWER CABLE		1.00	
013	2601QBDS81	HEX HD BOLT	1/2*12UNC-7/8	1.00		2807AG04K8		18AWG*3C-2000	1.00	
016	10201602	TILTING SCALE		1.00		2807BB02HL		0.75*3C-2000	1.00	
018	2658MZDU36	DRIVE SCREW	Φ2.3-5	2.00	086	2805U5HN16			1.00	
019	10602001	TABLE LOCK HANDLE		1.00	087	2898D07G06	ROCKER SWITCH		1.00	
021	10202104	TABLE		1.00		2850FW5U72			1.00	
025	10202514	HEAD		1.00	088	10208813	SWITCH BOX		1.00	
026	2603BBLA52	HEX SOC. SER SCREW	M8*1.25-8	2.00		10208814			1.00	
031	10303101	SPRING		1.00	089	2668BZDA24	CR.RE PAN HD SCREW	M5*0.8-12	4.00	
032	10203215	MOTOR BAR		1.00	090A	10209005A1	PULLEY COVER ASSY		1.00	
033	10604201	SHIFTER BOLT		1.00	092	2641BZDA39	CR.RE ROUND WASHER HD SCREW	M6*1.0-12	4.00	
035	2501NZDN32	FLAT WASHER	3/8*29/32-5/64	2.00	099	2572ARK260	V-BELT		1.00	
036	2601BZDA90	HEXAGON HEAD BOLT	M8*1.25-25	2.00	100	2603BBLA52	HEX SOC.SET SCREW		1.00	
038	10203804	FEED SHAFT		1.00	101	2501NNVN11	FLAT WASHER	1/4*3/4-3/16	4.00	
043A	10204302A1	HANDLE BAR ASSY		1ST	112	10511201	CHUCK KEY HOLDER		1.00	
043	10204302	HANDLE BAR		3.00	113	2641BBDA39	CR.RE PAN HD SCREW	M6*1.0-12	1.00	
044	10204401	GRIPE		3.00	131	2136BB0506	CHUCK KEY		1.00	
049	10204902	COIL SPRING		1.00	149	2536MBE606	SPRING PIN		1.00	
050A	10205001A1	COIL SPRING ASSY		1ST	150	10415063	INSTRUCTIONS MANUAL		1.00	
050	10205001	SPRING CAP		1.00	151	1002A195030	CARTON		1.00	
053	2701QZD609	HEX NUT	3/8*24UNF T=8	2.00		1002A1950104			1.00	
054	10205405	QUILL SET SCREW	M8*1.25-14 T=6	1.00	152	10010A19	STYROFOAM		1.00	
055	2701FZD113	HEX NUT	M8*1.25 T=6.5	1.00	160	10216976	LABEL		1.00	
056	10205603	QUILL		1.00		1021604B			1.00	
057	10305701	RUBBER WASHER		1.00		1020604A			1.00	
058	10205808	SPINDLE		1.00	162	10216280	WARNING LABEL		1.00	
	10205807			1.00		10816290			1.00	
	10205809			1.00	164	82041272	MOTOR LABEL		1.00	
059	2001ZZ6201	BALL BEARING	6201ZZ	1.00		8203A181			1.00	
061	2001ZZ6201	BALL BEARING	6201ZZ	1.00		10216496			1.00	
062	2570BBN111	RETAINING RING	A-11	1.00	165	10216520	SPEED LABEL		1.00	
063	2570BBN117	RETAINING RING	A-17	1.00	167	10216715	LABEL		1.00	
064	2570BBN122	C-RING	A-22	1.00	169	10616302	TRADE-MARK LABEL		1.00	
065A	10206522A1	DRIVING SLEEVE ASSY		1.00		10216975			1.00	
065	10206522	DRIVING SLEEVE		1.00	170	2658MZDU36	DRIVE SCREW	Φ2.3-5	8.00	
066	2001ZZ6203	BALL BEARING		2.00	176	10217604			1.00	
067	10306701	COLLAR		1.00	500	2701FZD105	HEX NUT	M5*0.8 T=4	1.00	
070	10207025	SPINDLE PULLEY		1.00	601	2668BZDA23	CR.RE PAN HD SCREW		2.00	
072A	2137142506	CHUCK & KEY		1.00	602	2504MZC005	EXTERNAL TOOTH LOCK WASHER		2.00	
	2137142506		RJ33-13L 螺絲 普通	504		2705FZD108	NUT CHUCK	M8*1.25 T=8	2.00	
	2137216506		RB16-13L 螺絲 普通	1.00	700	2138MBL704	WRENCH HEX	4-64	1.00	
	2137105506		JT2-1/2-13L 螺絲 普通	1.00						



DP2000(A)

## SPECIFICATIONS

Model No.	Motor (Optional)	Chuck Capacity	Spindle Taper	Drilling capacity	Spindle travel	Distance from spindle to column	Speeds	Weight
30A	1/8Hp, 1/8Hp, 1/4Hp 120V,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	18Kg
30AS 30A-T	1/8Hp, 1/4Hp 120V,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	18Kg
DP200AS	220W,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	20Kg
DP200A	1/6Hp,220W 120V,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	20Kg
DP2000	1/6Hp,1/4Hp, 1/8Hp 120V,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	20Kg
DP2000A	220W,220~240V/50~60Hz	13mm	JT 2 1/2, JT33, JT6	13mm	50mm	102mm	5	20Kg
DP250A	340W,220~240V/50~60Hz	13mm 16mm	JT 2 1/2, JT33, JT6	16mm	50mm	177mm	5	23Kg
DP10	1/4Hp, 1/6Hp 120V,220~240V/50~60Hz	13mm 16mm	JT 2 1/2, JT33, JT6	16mm	50mm	127mm	5	38Kg
DP255A (PLUS)	250W, 220~240V/50~60Hz	13mm 16mm	JT 2 1/2, JT33, JT6	16mm	60mm	127mm	5	38Kg
DP255A (LUXUS)	250W, 220~240V/50~60Hz	13mm 16mm	JT 2 1/2, JT33, JT6	16mm	60mm	127mm	12	40Kg
DP13A	1/3HP, 1/4Hp 120V,220~240V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	20mm	85mm	168.5mm	12	63Kg
DP330A	600W 220~240V,380~400V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	20mm	85mm	168.5mm	12	63Kg
DP13F	1/3HP, 1/4Hp 120V,220~240V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	20mm	85mm	168.5mm	12	70Kg
DP330F	600W 220~240V,380~400V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	20mm	85mm	168.5mm	12	70Kg
DP15A	1/2HP, 1/3Hp 120V,220~240V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	22mm	85mm	190.5mm	12	75.5Kg
DP380A	600W, 750W 220~240V/380~400V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	22mm	85mm	190.5mm	12	75.5Kg
DP15F	1/2HP, 1/3Hp 120V,220~240V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	22mm	85mm	190.5mm	12	78Kg
DP380F	600W, 750W 220~240V/380~400V/50~60Hz	16mm	MT2 X JT3, MT2 X JT6, MT2 X B16, JT33	22mm	85mm	190.5mm	12	78Kg
DP17F	3/4HP, 1/2Hp, 1/3Hp 120V,220~240V/50~60Hz	16mm	MT2 X JT3, MT3 X JT3, MT2 X B16, MT3 X B16	25mm	82.5mm	215mm	12	84Kg
DP430F	600W, 850W,230V~/400V,3~	16mm	MT2 X JT3, MT3 X JT3, MT2 X B16, MT3 X B16	25mm	82.5mm	215mm	12	84Kg