



**GHD-30PFB**

**DRILL PRESS**

Original:  
GB  
Operating Instructions



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## General safety notes

Milling machines can be dangerous if not used properly. Therefore the appropriate general technical rules as well as the following notes must be observed.



Read and understand the entire instruction manual before attempting assembly or operation.



Keep this operating instruction close by the machine, protected from dirt and humidity, and pass it over to the new owner if you part with the tool.

No changes to the machine maybe made.

Daily inspect the function and existence of the safety appliances before you start the machine.

Do not attempt operation in this case, protect the machine by unplugging the mains cable.

Do not wear gloves while operating this machine. Remove all loose clothing and confine long hair.



Before operation the machine, remove tie, rings, watches, other jewelry, and roll up sleeves above the elbows.

Wear safety shoes; never wear leisure shoes or sandals.

Always wear the approved working outfit:

- Safety goggles
- Ear protection
- Dust protection



Install the machines so that there is sufficient space for safe operation and workpiece handling.

Keep work area well lighted.

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled table surface.

Make sure that the power cord does not impede work and cause people to trip.

Keep the floor around the machine clean and free of scrap material, oil and grease.

Stay alert!

Give your work undivided attention.

Use common sense. Do not operate the machine when you are tired.

Keep an ergonomic body position.

Maintain a balanced stance at all times.

Do not operate the machine under the influence of drugs, alcohol or any medication. Be aware that medication can change your behavior.



Never reach into the machine while it is operating or running down.



Never leave a running machine unattended. Before you leave the workplace switch off the machine.

Keep children and visitors a safe distance from the work area.

Do not operate the electric tool near inflammable liquids or gases.

Observe the fire fighting and fire alert options, for example the fire extinguisher operation and place.

Do not use the machine in a damp environment and do not expose it to rain.

Metal dust is explosive and can also represent a risk to health.

Dust from some tropical woods in particular, and from hardwoods like beech and oak, is classified as a carcinogenic substance.

Always use a suitable dust collection device.

Before machining, remove any nails and other foreign bodies from the workpiece.

Make sure to guide and hold the chisel with both hands safe and tight during machining.

Work only with well sharpen tools.

Machine only stock which is chucked

securely on the machine, always check before switching the machine on.

Provide workpieces with center holes before clamping between centers.

Work large and unbalanced workpieces at low spindle speed only. Workpieces with cracks may not be used.

Remove the chuck key or dowel pins before turning the machine on.

Always close the belt cover.

Specifications regarding the maximum or minimum size of the workpiece must be observed.

Test each set-up by revolving the work by hand to insure it clears the tool rest and bed. Check setup at the lowest speed before you increase to the operating speed.

Do not remove chips and workpiece parts until the machine is at a standstill.

Never stop workpiece with the hand during run out.

Do not attempt to engage the spindle lock pin until the spindle has stopped.

Never take measurement on a rotating workpiece.

Do not stand on the machine.

Connection and repair work on the electrical installation maybe carried out by a qualified electrician only.



Have a damaged or worn power cord replaced immediately.

Make all machine adjustments or maintenance with the machine unplugged from the power source.



# Drill Press

Model: GHD-30PFB

## Operation Manual

**Max. Drilling Diameter: 30mm**

**Series Number:**

## Contents

- 1. Main use and features of the machine**
- 2. Main technical data**
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- 7. Use and operation of the machine**
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- 10. Machine accessories**

**Dear end-user,**

Thank you very much for choosing our products. Please let us have the model of your machine, series number, as well as the name, address and correspondence method of your company in order to facilitate us to let you have a good service.

**Important notice:**

1. Please immediately contact your dealer in case the machine, accessories or documents are not in conformity with those indicated in the packing list after the machine package is opened.
2. Please carefully read this Operation Manual particularly the electric part of this documents before installation, testing and running the machine.
3. Removing grease on the machine (particularly on the column) and checking lubrication oil in each place is well filled . Running the machine without lubrication oil is strictly forbidden. Lubrication of the machine as per the stipulation of this documents is required.
4. Ground wire of the machine shall be well connected. When test running, knurled handle of Feed handle must be pushed at locking handle's position , then the machine feed is manual Feed, otherwise the parts of machine will be destroyed if spindle rotate in mistake. Also push jog button in slow spindle speed to check if direction of spindle revolution is correct.(clockwise)
5. Machine must be stopped if spindle speed or feed rate change is necessary.
6. Please check if cutting tool or work piece is well clamped before machining
7. The red mushroom push button located in front of the spindle box is an emergence push button for emergency purpose and stopped the machine stopped. Familiar with its position and its use are necessary.
8. Professional electric service engineer is required for electric maintenance.
9. When the machine working. The spindle box must be clamped otherwise. It will be hurt operator or the machine destoryed.
10. The machine must be stopped when you need removing away the cutting material around the drill. Moving the cutting material by hand or by hook is definitely forbidden.
11. Correct use and daily maintenance of the machine are required in order to keep machine accuracy and its lifetime in long time.

12. We will much appreciate if you could solve some problems of the machine.

In order to facilitate us for the service, please let us know the details regarding the places and phenomenon of the troubles if you could not solve problems.

**1. Main use and features of the machine:**

GHD series vertical drilling machines are our new products designed and developed by our-self based on our accumulated experience in so many years in this field. It is universal machine which could be widely used for small and middle sizes of work pieces for drilling, spot facing, reaming, tapping and etc. Besides, some machine tool accessories could also be used on this machine. The machines are suitable for the machining workshop, maintenance workshop and production line etc.

**Features:**

- 1.1 Good in appearance, easy in operation, convenience in maintenance and well consideration in safety protection
- 1.2 Two- speed motor is to be used for the main drive system with sufficient driving power but saving energy. Wide spindle speed range is adopted driven by gears.
- 1.3 The spindle features good rigidity and good wear resisting and equipped with tool disassembly and balancing device.
- 1.4 The spindlebox could be turned round the column center line and could be moving up and down following the column.
- 1.5 The worktable could be turned round the column center line or the worktable center line or horizontal shaft centerline by manual and could be moving up and down following the column.
- 1.6 Main operation levers and push buttons could be reached easily that makes you comfortable when you operate the machine.
- 1.7 Spindle feed in mechanical and in manual two modes, there are available in this series machines.
- 1.8 Superior quality material with special treatment for the wear-resisting purpose has been used for transmission parts such as gears, worm and worm shaft, rack, lead screw etc as well as for some key parts like spindle and spindle quill.

1.9 An adjustable safety protection clutch in the spindle feed device is available in order to prevent the machine and tools from damage when overloaded.

1.10 A safety protection guard under the spindle box is available as it is not only prevent coolant splash while cutting but also could observe the machining status.

The guard is interlocked with the spindle, so when the guard is opened, the spindle could not be running until the protection guard keeps his position.

**2. Main technical data:**

2.1 Main technical data

No.	Name of the items	Unit	Data
1	Max. drilling diameter (steel)	mm	30
2	Max. tapping diameter (steel)	mm	M18
3	Distance between spindle center line to the center line of column	mm	260
4	Max. distance between spindle end to the surface of the worktable	mm	685
5	Max. distance between spindle end to the worktable surface of the base	mm	1165
6	Max. stroke of the spindle	mm	130
7	Spindle taper		MT3
8	Number of speed steps of the spindle	Step	12
9	Spindle speed range	r/min	125~3030
10	Feed steps of the spindle	Step	3
11	Feed range of the spindle	mm/r	0.1,0.2,0.3
12	Max. stroke of spindle box	mm	180
13	Max. stroke of worktable and its bracket	mm	500
14	Rotation degree of spindlebox in horizontal axes	degree	$\pm 45^{\circ}$
15	Working area of the worktable (L x W)	mm	420×350
16	Working area of the worktable of the base (L x W)	mm	335×340
17	Numbers and width of the T slots for worktable of base	mm	2-T14、2-T14
18	Diameter of column	mm	$\phi 110$
19	Power and speed of the main motor	kW, rpm	0.85/1.1 1440/2800
20	Power and flow rate of the coolant pump motor	kW, L/min	0.18 / 20
21	Machine dimension (L x W x H)	mm	750×495×2080
22	Net weight of the machine (Net weight)	Kg	

2.2 For the machine appearance and its main technical data, see diagram 1.

### **3. Brief description of the driving system and its structure:**

The machine consists of spindle box, column, machine base, worktable, bracket, electric cabinet, coolant device and machine accessories, total seven component parts. Spindle and revolution is main motion of the machine. During drilling and milling processing, spindle movement along with its axis is a feed motion. Worktable, its bracket and spindle box up and down movement and worktable turn round itself is an auxiliary motion. To those big or higher work piece that could be clamped on the worktable of the base. The worktable and its bracket should turn round the column to a proper area far away from the machining area.

Vertical motor realize machine transmission. A special pump supplies coolant water.

Two operating levers in the front of spindle box could make changes for the spindle speed in 12 steps. Changing either lever position could drive a triple gear and a double gear moving along with axis direction results the speed change. One of levers has an idle position that is for the spindle rotation by manual for loading and unloading of tool cutters as well as for the adjustment of work piece only. Adjustment of the feed rate could be realized by shifting a set of gears controlled by changing a lever position in the right corner of spindle box.

Up and down movement of the worktable, its bracket and spindle box is completed by manual, Adjustment for the required distance of cutter and work piece could also be made by manual.

Please refer to the diagram 2 for the transmission system of the machine.

For the gear, worm and worm shaft, rack and pinion etc, please see table 1.

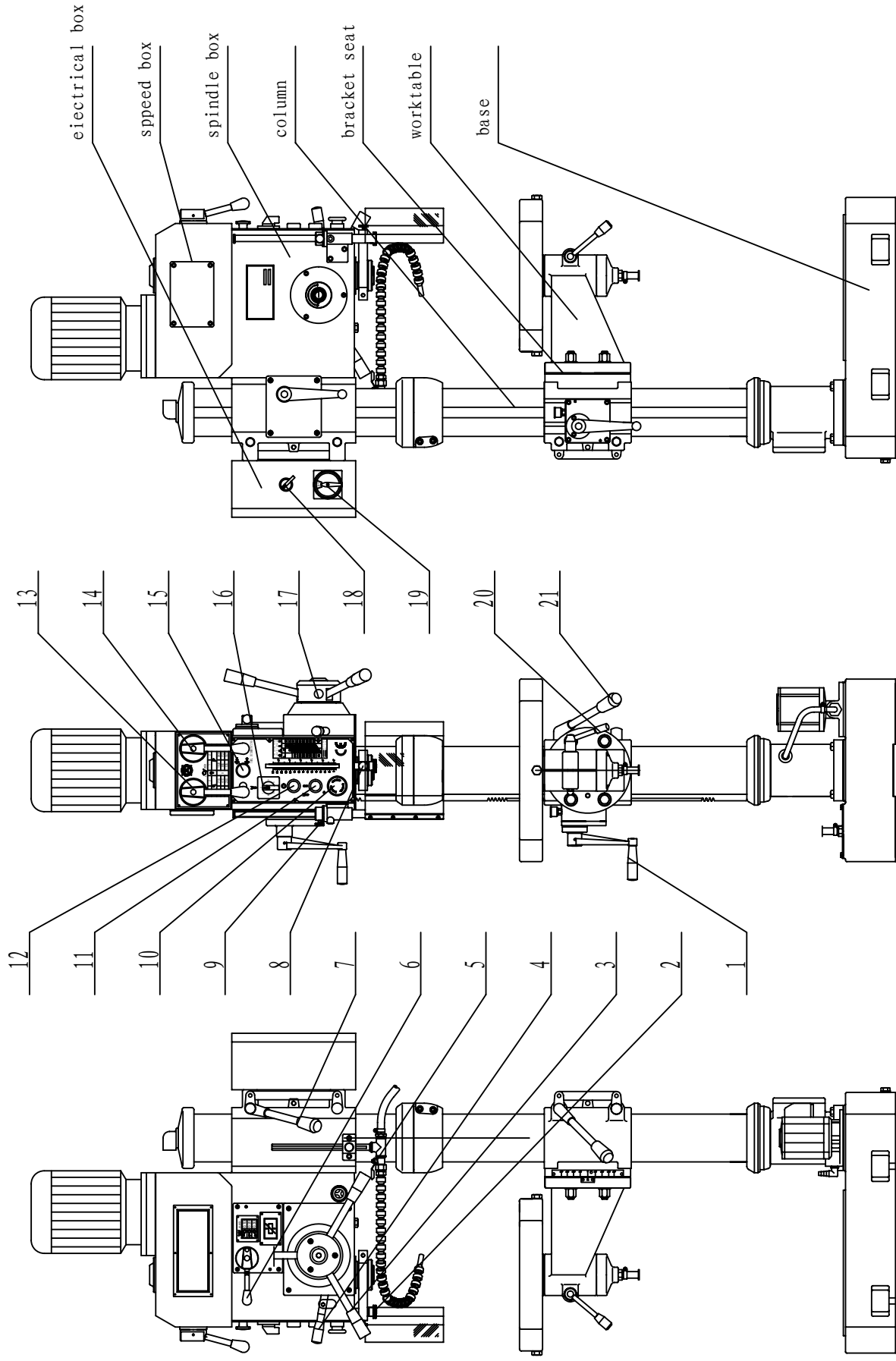
For the details of roller bears to be used on the machine, please refer to the diagram 3 and for a list of roller bears, please refer to the table 2.

### **4. Electrical system**

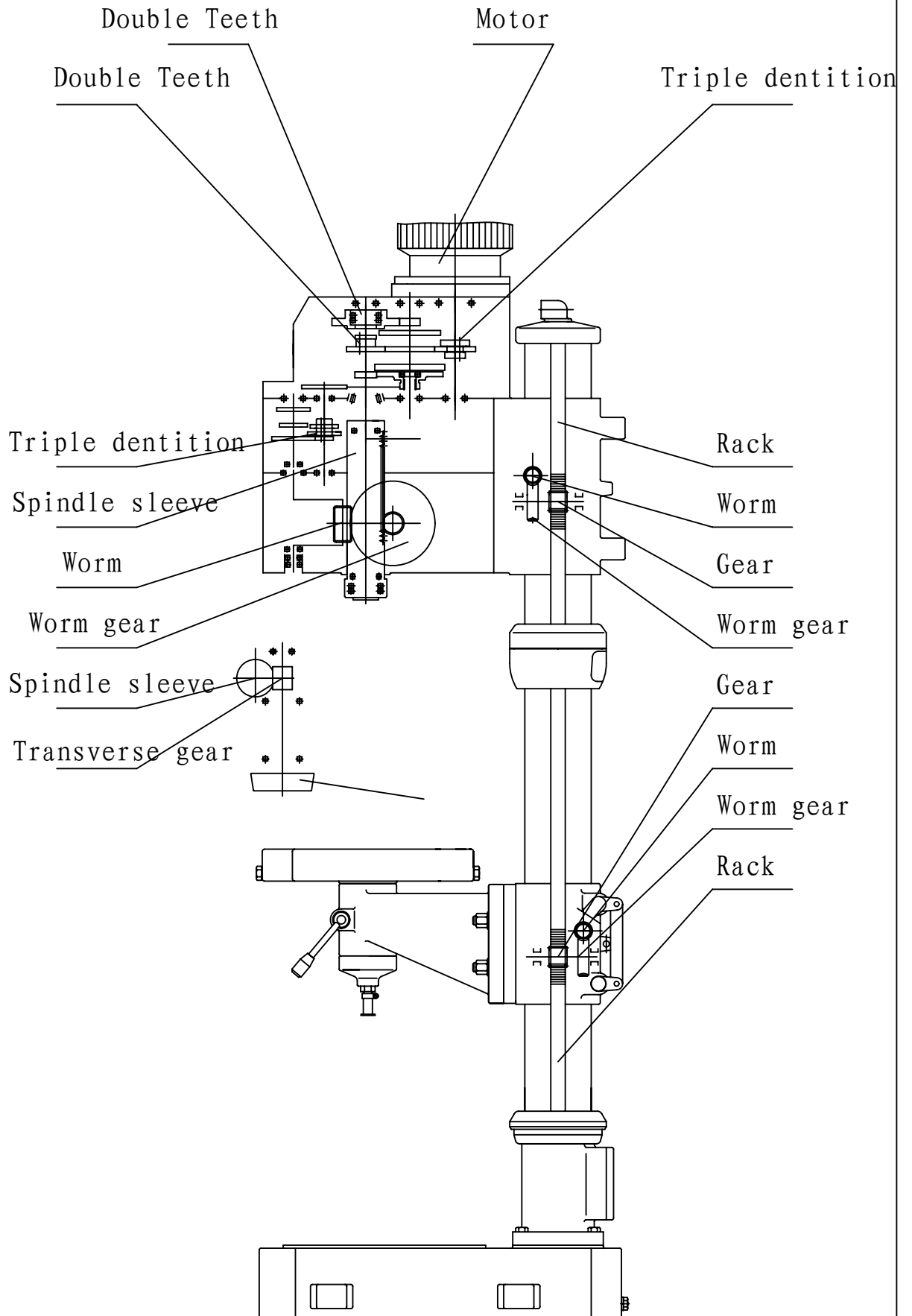
#### **4.1 Brief description**

The machine is suitable for the power supply for 400V/50HZ 3 phase. Special voltage with 60HZ could also be available as per the requirements of the end user.

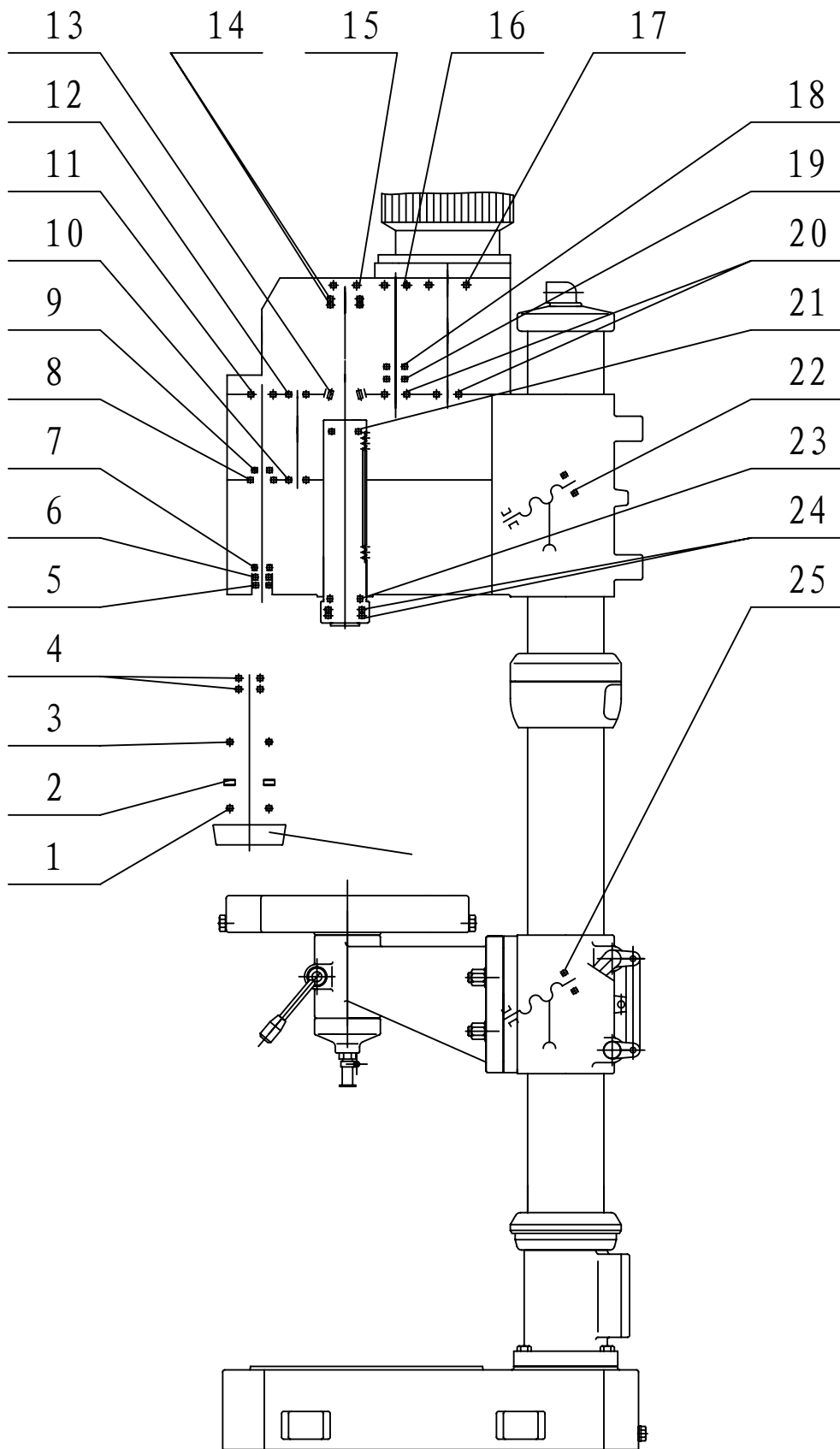




drawing 1. picture of appearance of machine



drawing 2 . picture of transmission

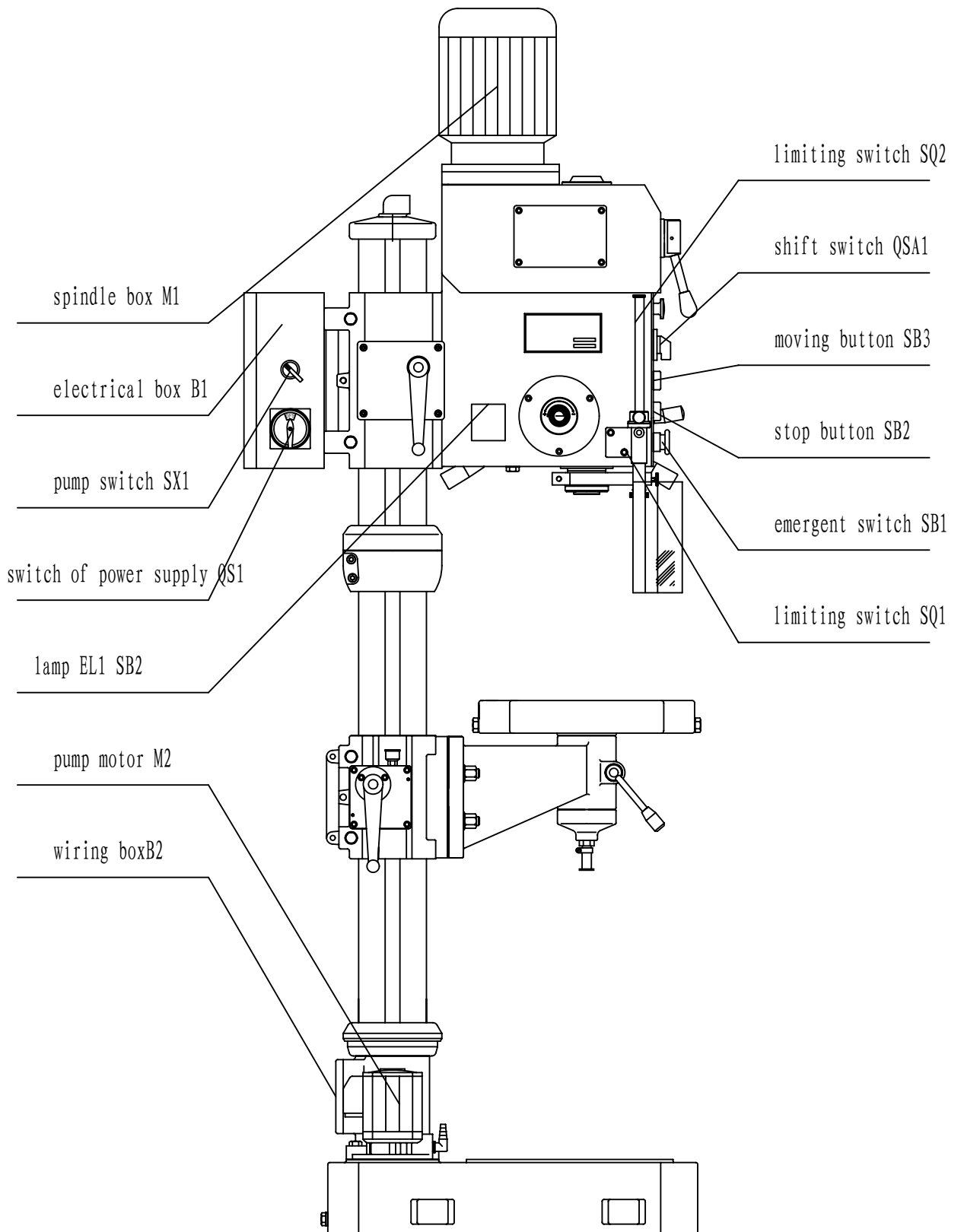


drawing 3 . picture of roll bearing

**Roller bearing table**

Table (2)

No.	Model	Name	Specification	Q'ty	Accuracy
1	180108K; GB276	Deep racing ball bearing	40×68×15	1	
2	AS3552; GB/T4605	Roller bearing	35×52×1	2	
	AXK3552; GB/T4605		35×52×2	1	
3	1180909K; GB276	Deep racing ball bearing	45×68×12	1	
4	36104; GB292	Thrust bearing	20×42×12	2	
5	101; GB276	Deep racing ball bearing	12×28×8	1	
6	8101; GB301	Thrust bearing	12×26×9	1	
7	8102; GB301	Thrust bearing	15×28×9	1	
8	1000905; GB276	Deep racing ball bearing	25×42×9	1	
9	61902; GB/T 276	Deep racing ball bearing	15×28×7	1	
10	50202; GB277	Deep racing ball bearing with stop moving racing outside	15×35×11	1	
11	302; GB276	Deep racing ball bearing	15×42×13	1	
12	202; GB276	Deep racing ball bearing	15×35×11	1	
13	2007106; GB297	Taper roller bearing	30×55×17	1	
14	7000106; GB276	Deep racing ball bearing	30×55×9	2	
15	50204; GB277	Deep racing ball bearing with stop moving racing outside	20×47×14	1	
16	303; GB276	Deep racing ball bearing	17×47×14	1	
17	108; GB276	Deep racing ball bearing	40×68×15	1	
18	7000103; GB276	Deep racing ball bearing	17×35×8	1	
19	1000803; GB276	Deep racing ball bearing	17×26×5	1	
20	50303; GB277	Deep racing ball bearing with stop moving racing outside	17×47×14	2	
21	D1000906; GB276	Deep racing ball bearing	30×47×9	1	D
22	8103; GB301	Thrust bearing	17×30×9	1	
23	8107; GB301	Thrust bearing	35×52×12	1	
24	D7000107; GB276	Deep racing ball bearing	35×62×9	2	D
25	8103; GB301	Thrust bearing	17×30×9	1	



drawing 4. picture of element of machine

total power supply

total switch

spindle box

coolant pump

total direction

lamp

spindle control

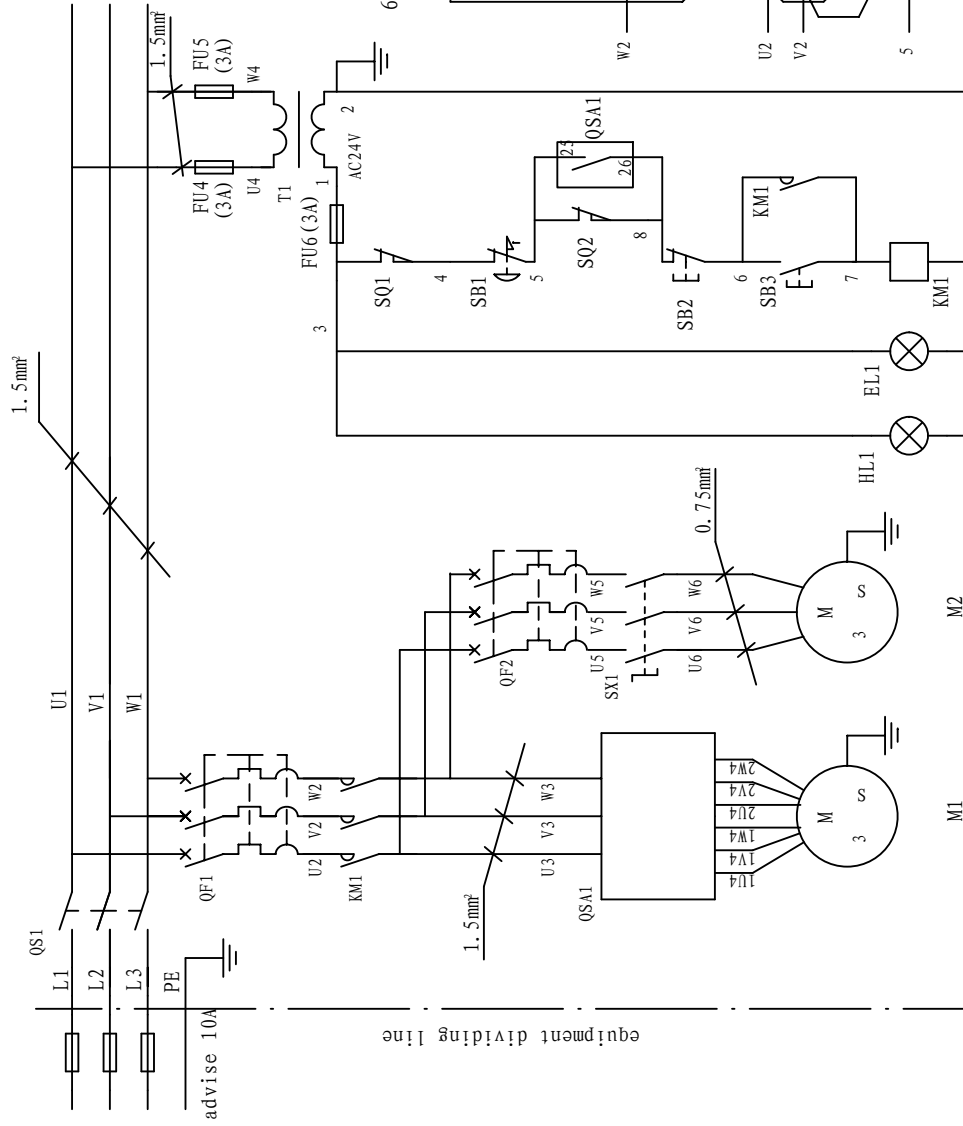
total direction

lamp

spindle control

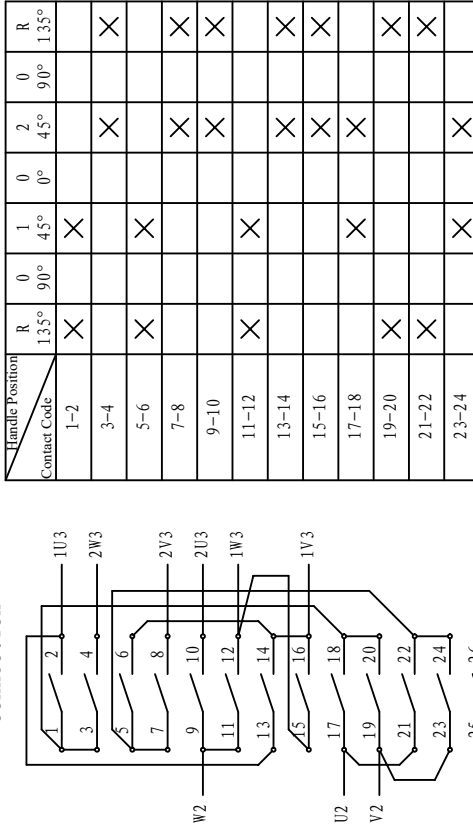
total direction

3 φ AC400V 50HZ



equipment dividing line

6LBB-20A picture of connection



6LBB-20/VI710. 7opening and close of contact

Handle Position	R											
	135°	90°	45°	0°	45°	90°	135°					
Contact Code	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24
	×		×		×		×		×		×	

switch have connected,  
inside connecting:  
1-3, 5-7, 9-11, 14-16, 18-20, 22-24.  
outside connecting:  
17-21, 19-23, 2-13, 3-20, 6-14, 7-24, 12-15.

Attention: The diameter of the line without indicating is 0.75mm<sup>2</sup>.

drawing 5. picture of electrical elements

M1 0.85/1.1kW

M2 0.18kW

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Electric components list:

Table (3)

Code of elements	Name	Specification	Q'ty	Remark
QS1	Instruction switch	JCH13-20	1	
QF1	Breaker	JCM6-25-2.5/4A	1	
QF2	Breaker	JCM6-25-0.4/0.63A	1	
QSA1	Convertiblewitch	3LBB-20 ,V1710.7	1	
KM1	Connector	LC1N1201B5N(AC24V)	1	
SB1	Emergency stop button	LA42J-01/R	1	
SB2	Push button	CP1-10R-01	1	
SB3	Push button	CP1-10G-10	1	
SX1,	Selection switch	LA42XL2-30/B	1	
SQ1	Micro switch	LXP1-020-0A	1	
SQ2	Micro switch	LXW16-16/61C	1	
HL1	Signal lamp	AD17-16,AC24V	1	
T1	transformer	JBK6-63TH ,400/24	1	
EL1	Lamp	25W ,AC24V	1	
SQ3	Door switch	JWM6-11A	1	

#### 4.2 Explanation of the circuit(refer to drawing4、 5)

The spindle of the machine is moving by two-speed motor, it is controled by switch(QSA1) AC contactors(KM1) and so on.

When using the machine, the breaker QF1, fuse FU1,FU2,FU3 which is in the electrical box must be put on, when examining and repairing, it could be put off. The spindle motor and pump motor use breaker and fuses for his protection, and the switch features overload protection, short cut protection and phase break protection. Press the main power switch QS1,the electrical source HL1 light up, it is working now,contrary,work is stopped.

#### 4.3 Machine operation

Put the switch(QSA) at the position which is required (“1” main motor 1440 r/min.”2”main Motor 2880 r/min, “R” the reversion of main motor, “0” machine is stopped).Press the The button SB3,it is working normally. When put the switch (QSA) at “R”,the main motor Stop working.

#### 4.4 Emergency stop operation:

If emergency stop is necessary during operation, press emergency push button SB1 that makes the loss of electric power of the contactor KM1,so the machine is completely stopped .After eliminating the breakdown ,release the lock of the push button then restart the machine.

#### 4.5 Sheet metal guard:

The sheet metal guard of this machine has a safety protection function, when it is opened The spindle can't working, until it is closed when the spindle is working now, it immediately stopped if the sheet metal guard is opened .

#### 4.6 Maintenance of the electric equipment:

Turn off the electric power before maintenance of the electric equipment starts.The electric equipment must keep on clean condition. Therefore, regularly cleaning is necessary. However .liquid such as kerosene, gasoline and detergent etc.is not be allowed for the cleaning. Wave of power supply shall not be over  $\pm 10\%$  required by the electric motor. Maintenance of electric equipment is absolutely important in order to keep machine works well.

**Warning: when the machine connect the electrical source line at beginning, the Switch (QSA1) should be push at “1” or “2” position, then press the button, make the spindle rotate clockwise, otherwise, it will destroy the parts of machine.**



## 5. Lubrication and coolant system:

5.1 There are two types of lubrication in this machine:

- a. Grease
- b. Lubrication by manual filled oil

5.2 Gears in the spindle box are lubricated by grease, it uses NO.3 Lithium industrial grease, for the new machine, washing and grease replacement after six months running. Later, washing and grease replacement once a year is required, in the Feed box, gears are also lubricated by grease of NO.3 industrial Lithium, worm wheel is lubricated by thin grease, oil tool must be inside of the bottom of the spindle box, and it needs to be exchanged once every six months, the machine has oil fill holes, oil lever and oil release hole (bottom side of the base), oil lever shall be a little bit higher than the centerline of the oil window, when you fill lubrication oil: too much oil filling will cause overflowing.

5.3 The machine needs manual oil fill lubrication.

Manual oil fill lubrication place, see diagram (6)

5.4 Coolant system:

A special pump will supply coolant both for tool cutter and for work piece during machining. Coolant liquid is stored in a compartment located at the backside of the machine base. Flow rate of the coolant could be adjusted by a ball valve. Regularly washing for the coolant system is necessary and coolant water shall be exchanged as per actual condition.

## 6 Hoisting and installation:

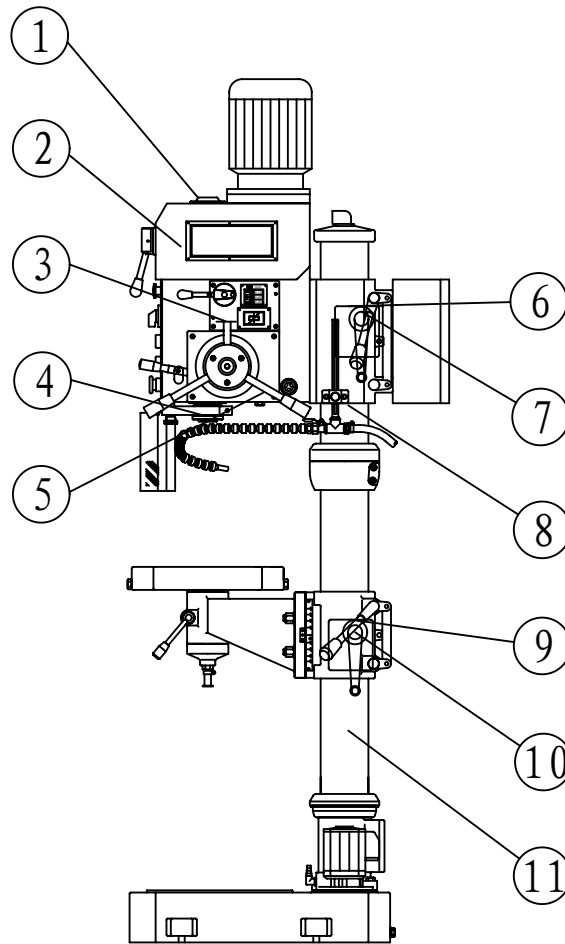
6.1 Hoisting:

The machine is strongly fixed inside of the crate. When hoisting the machine, please pay close attention to the sign outside of the crate (where the wire cable shall be placed and where the gravity center is).

The crate must not be reversed or inclined and must not be strongly stroked when lift up the machine.

Considering small size of the bottom and higher size of the height of the machine package, therefore, moving the machine by roller is forbidden. Lifting by a crane or by forklift is recommended.

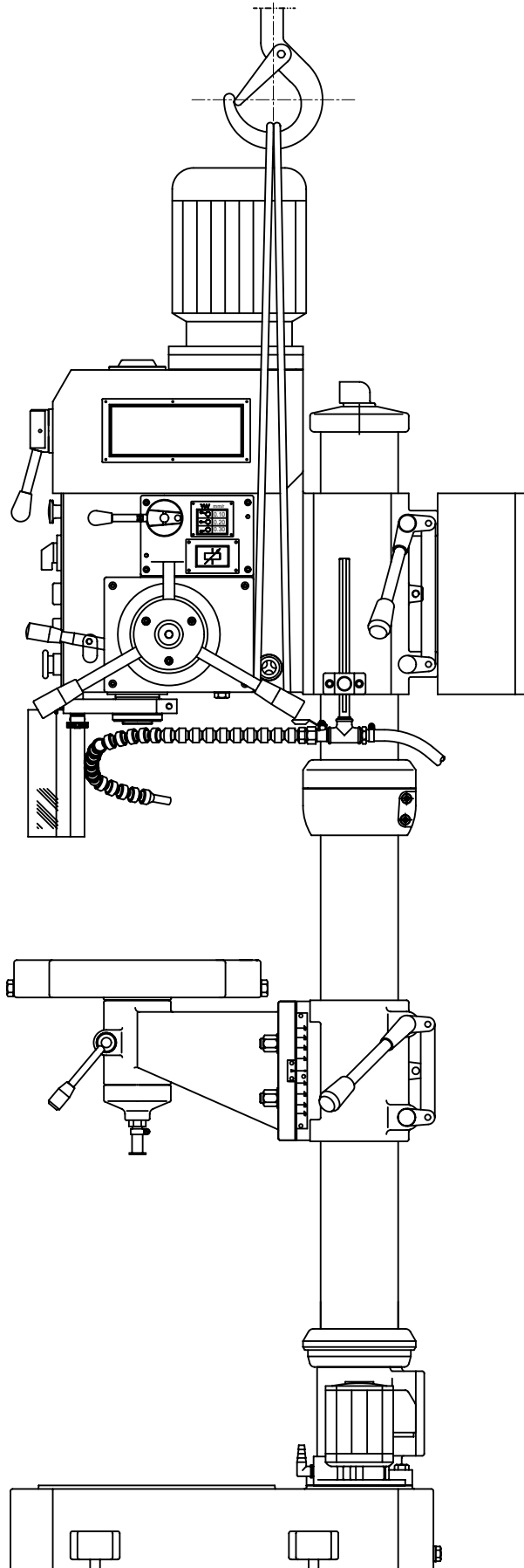
Please refer to the diagram 7 for the machine lifting. A soft pad between machine and wire cable is necessary in order to avoid paint damage of the machine. Lifting must be slow at beginning to see if the gravity center is correct.



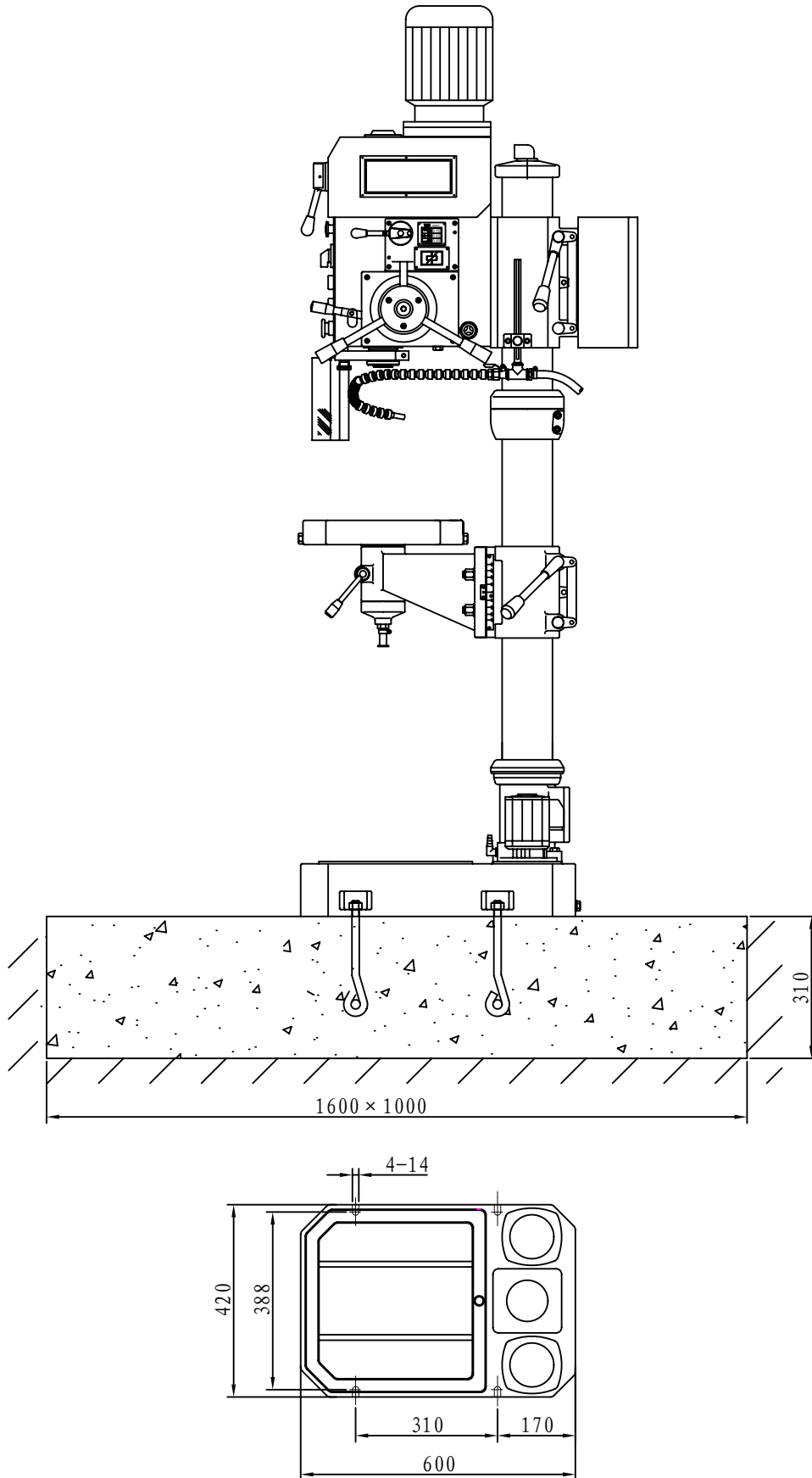
drawing 6 . picture of lubrication

### Chart of lubrication position

No.of lubrication position	lubrication position	lubrication period	Grease designation
1	Bearing on the main spindle box	add oil every three months	ZL-3 lithium base grease
2	main drive gear	Once every six months	
3	feed gear	add oil every three months	
4	surface of spindle quill	Once every shift	ISO VG33 machinery oil
5	feed wheel	Once every three months	
6	Spindle box lifting and worm support	Once every shift	
7	spindle box lifting mechanism	Once every shift	
8	Column surface	Once every shift	
9	bracket lifting mechanism	Once every shift	
10	bracket lifting worm support	Once every shift	
11	Column surface	Once every shift	



drawing 7. picture of hoisting



drawing 8. foundation of installation of machine

## 6.2 Installation:

Working area of the machine shall be the size when the spindle box rounds its column in one cycle. Its diameter is about  $\varnothing 2000\text{mm}$ . Further more, space for the work pieces, toolbox, and machine accessories as well as operating and maintenance space must be considered.

The machine should be placed on a solid ground. No foundation construction is required if ground of workshop is solid enough. However, we suggest that you'd better to make a foundation as per the attached drawing 8 and shall consider some space for foundation screw bolts use.

When the foundation is completely dry, the machine could be laid down on the adjustable pad. Concrete could be filled when screw bolts are placed. Fastening screw bolts after concrete is completely dry. Leveling the machine first, required tolerance should not be over 0.04/1000 both in horizontal and cross plane. Checking all items of the accuracy as per the table sheet of the certificate. Accuracy value for each checked item must not be over the required value.

## 6.3 Preparation before machine running:

A strict checking, testing and try cutting of the machine have been made before machine delivery. No adjustment of the machine itself is necessary. Before machine running, clean all surfaces of the machine first by using cloth with kerosene or gasoline, checking all lubrication points then turn the main switch of the machine to the "on" position, running the machine with middle or slow speed and checking all revolution direction is correct, operating levers are in a correct position, checking machine noise and working temperature are all ok. The machine should be running for a certain period of time, then it could be used if no any un-normal condition happened.

## 7 Use and operation of the machine:

7.1 For the operating levers, handles, electric switches and buttons, please refer to the diagram 1 and diagram 4..

### 7.2 Mounting and dismounting of tool cutters:

The machine equipped with a tool dismounting device to be controlled by a nob ( 15 ). Push forward the nob ( 15 ) to the spindle box direction when tool mounting is required. As for dismounting tool cutters, pull out the nob ( 15), hold the tool cutter by left hand, meanwhile, turn the feed lever ( 3 ) by right hand, then the spindle quill goes up rapidly, the tool cutter will fall down until tool taper shank strokes the shaft of spindle.

In case too tight mesh between tool shank and spindle taper and the tool cutter could not fall down after several strokes, then you have to use the normal way by using a taper wedge to dismounting the tool cutter.

**Warning: The nob (15) must not be pulled out while tool mounting or machine Running, otherwise, the spindle will goes up quickly which results tool cutter falls down. It is really dangerous.**

### 7.3 Changes for the spindle speed and feed rate:

Spindle speed change could be made by moving the two levers ( 13 ) and (14 ) located in the front of the spindle box. Relations between spindle speed revolution and levers position is indicated at the speed change label.

As mounting or dismounting tool cutter or adjustment of work piece needs spindle rotation by manual, therefore, the lever in the right side position shall be in the “idle” position, so spindle rotation could be easily obtained.

Changes of the feed rate could be realized by using the lever ( 6 ) in the upper right side position of the spindle box.

### 7.4 Selection and operation of the spindle feed:

There are two types of spindle feed selections for your choice as per the requirement of your machining:

**Manual feed:** At the right side of the spindle box, there are three feed levers ( 3 ) with two positions, push one of any three feed levers to the left side position and turn it, The spindle will move down if turned the lever in counter clockwise direction. The spindle will move up if turned the lever in clockwise direction

**Auto feed:** Push the feed lever ( 3 ) to the right side position, the lever ( 4 ) will be automatically lift up, spindle auto feed could be realized as per your prior feed selection. Suppose you want to stop the feed, you could simply push down the lever ( 4 ) until a click sound is heard, then the lever (3 ) will be returned to the left side position automatically and feed of spindle stopped.

### 7.5 Cutting depth control:

For the batch production, you need control cutting depth. A scale in front of spindle box could meet your requirements. Loosening knurled screw ( 8 ) by turning nob ( 2 ), moving the scale to the required depth, then fastening the knurled screw( 8 ). Now the machining depth could be controlled.

### 7.6 Tapping

Turn the feed lever ( 3 ) and let the tap approaches the work piece ( The lever should be in the left manual feed position. The knurled nob ( 17 ) should be pushed into the lock position in order to prevent unexpected engagement with auto feed ) a proper manpower force (based on the size of screw) shall be exerted in order to let the tap comes into the hole.. The spindle will be rotated in reverse when the screw depth is reached. Promptly turn the feed lever( 16 ) when the screw depth is reached, the spindle rotates in reversion ,push the tap out of work piece with a little force and, then once tapping operation finished.

## 8 Machine adjustment:

### 8.1 Spindle balance force adjustment:

Balance of spindle is realized through a springiness from a coil spring device located at the left side of the spindle box. Balance force shall be adjusted to the point that the spindle together with its tool shall not go down itself when spindle stops. (go up a little bit shall be much better).

Over springiness or less needs adjustment. Simply loosening the screw on the cover of spring box, turn the spring box cover, the spring could be either fastening or loosening. Fastening screw on the cover if the balance force is ok

### 8.2 Adjustment for the feed safety clutch:

Feed safety clutch is mounted on upper side of the worm shaft. If too much feed resisting force is occurred, the feed safety clutch will be automatically slipped (sound “Ka” will be heard) in order to protect machine driving system not to be damaged. Clutch appearance could be seen when opening the cover below the feed change label. Using a tool to turn a slotted nut in clockwise, this will increase the feed resisting force, meanwhile, the counter clockwise will reduce the feed resisting force. The max. feed resisting force of this machine is 5000N, Over feed resisting force will cause un-safety, be sure to lock it by screw bolt or nut after adjustment.

**9 Machine use and maintenance:**

- 9.1 Before running the machine, carefully read the Operation Manual first, fully understand the structure of the machine and its performance and needs to familiar with locations for all levers and buttons.
- 9.2 Lubrication of the machine is very important. Daily lubrication work as per the requirements of the operation manual is necessary. Otherwise transmission parts and bearings will be damaged.
- 9.3 Max. spindle torque of this machine is 70 Nm. Max. feed resisting force in the driving system is 5000 N. Over permitted cutting feed range is not allowed. High spindle speed with big cutting feed is not good to the machine.
- 9.4 As standard drill with 118 degree angle features big cutting force but quick wear-out, so diameter and roughness of holes is not so ideal after drilling, therefore, regrinding its edges particularly for the big diameter drills is necessary. It is better to use two different angles for the machining of cast iron material (Second angle could be 70°).
- 9.5 Spot facer with three edges is proffered for the spot facing machining, using a normal drill for spot facing job will cause vibration. However, it will have a better result for the spot facing machining if reducing the rear angle of the normal drill with two different angles and going down the cutting speed and feed rate.
- 9.6 Temperature of motor will be increased so quickly when tapping due to frequently Motor direction be changed. Therefore, rapid and continuous tapping shall be avoided. Max. eight times per minutes of tapping is recommended. The machine shall be stopped for cooling if the motor is too hot.
- 9.7 Please turn off the coolant valve when mounting and dismounting tools, clamping or adjusting work piece or measuring work piece, as coolant is not necessary during this period. Stop coolant pump if these job takes more than ten minutes.
- 9.8 As gears are to be used for spindle and feed system, so it is not allowed to change spindle speed or change cutting feed rate when machine running, otherwise it will damage gears, shafts or relevant parts.





# Drill Press

Model: GHD-30PFB

## Certificate of Inspection

**Max. Drilling Diameter: 30mm**

**Series Number:**

**We certified that the machine has been inspected and all items of the machine are in conformity With Q/320684FNC01-2006 standard. Delivery is permitted.**

Director of the company:

Date:

Director of quality inspection department:

Date:

Precision Inspection Record

Geometrical Precision Test:

No.	Item	Brief Drawing	Precision	
			Allowance (mm)	Actual Test
G1	Parallelism of the base surface		0.06 at any tested Length of 300 (flat or concave)	
G2	Parallelism of the work table surface		0.04 at any tested Length of 300 (flat or concave)	
G3	surface runout of worktable		D=300 0.04	

Precision Inspection Record

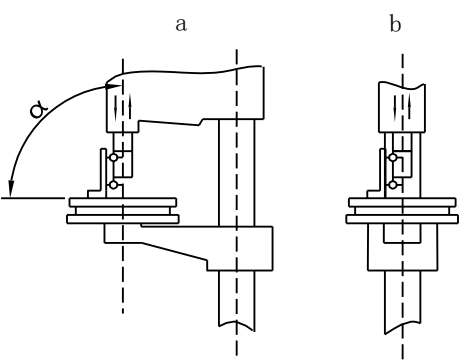
Germetrical Precision Test:

No.	Item	Brief Drawing	Precision	
			Allowance (mm)	Actual Test
G4	Spindle bore axis runout a) Close to spindle surface b) at a distance of L to spindle surface		L=200 a) 0.02 b) 0.035	
G5	Perpendicularity of the spindle axis to work table surface		a) 0.1/300* (a ≤ 90°) b) 0.06/300*	
G6	Perpendicularity of the spindle axis to Base plate table surface		a) 0.10/300* (a ≤ 90°) b) 0.10/300*	

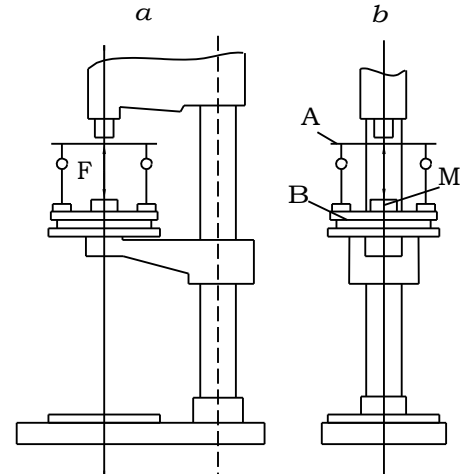
Distance between two contacts of indicator probe

Precision Inspection Record

Geometrical Precision Test:

No.	Item	Brief Drawing	Precision	
			Allowance (mm)	Actual Test
G7	Perpendicularity of the vertical movement of spindle sleeve to work table surface		a.0.1/300 ( $a \leq 90^\circ$ ) b.0.1/300	

Work Accuracy:

P1	The change of Perpendicularity of spindle axis to work table surface under the axial force.		F=5000N 2/1000	
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# Drill Press

Model: GHD-30PFB

## Packing list

**Max. Drilling Diameter: 30mm**

**Series Number:**

Packing list	Total	1
	page	1

**Case No.: 1/1**

**Dimension ( L ×W × H):**                    ×                    ×                    **CM**

**Gross weight:**

**Net weight:**

No.	Name	Specification and marks	Q'ty	Remark
1	Machine		1 piece	
2	Drill check with lever	1-13: GB6087	1 piece	
3	Drill check adaptor		1 piece	
4	Tool shank adaptor	3-2: JB3477	1 piece	
		3-1: JB3477	1 piece	
5	Taper wedge for shank	Wedge 1: JB3482	1 piece	
6	Double end wrench	21x24; GB4388	1 piece	
7	Fuse	Ø5×20 3A	2 pieces	
8	Operation manual		1 piece	
	Quality certificate		1 piece	
	Packing list		1 piece	

Inspector of the packing:

Date:



# Drill Press

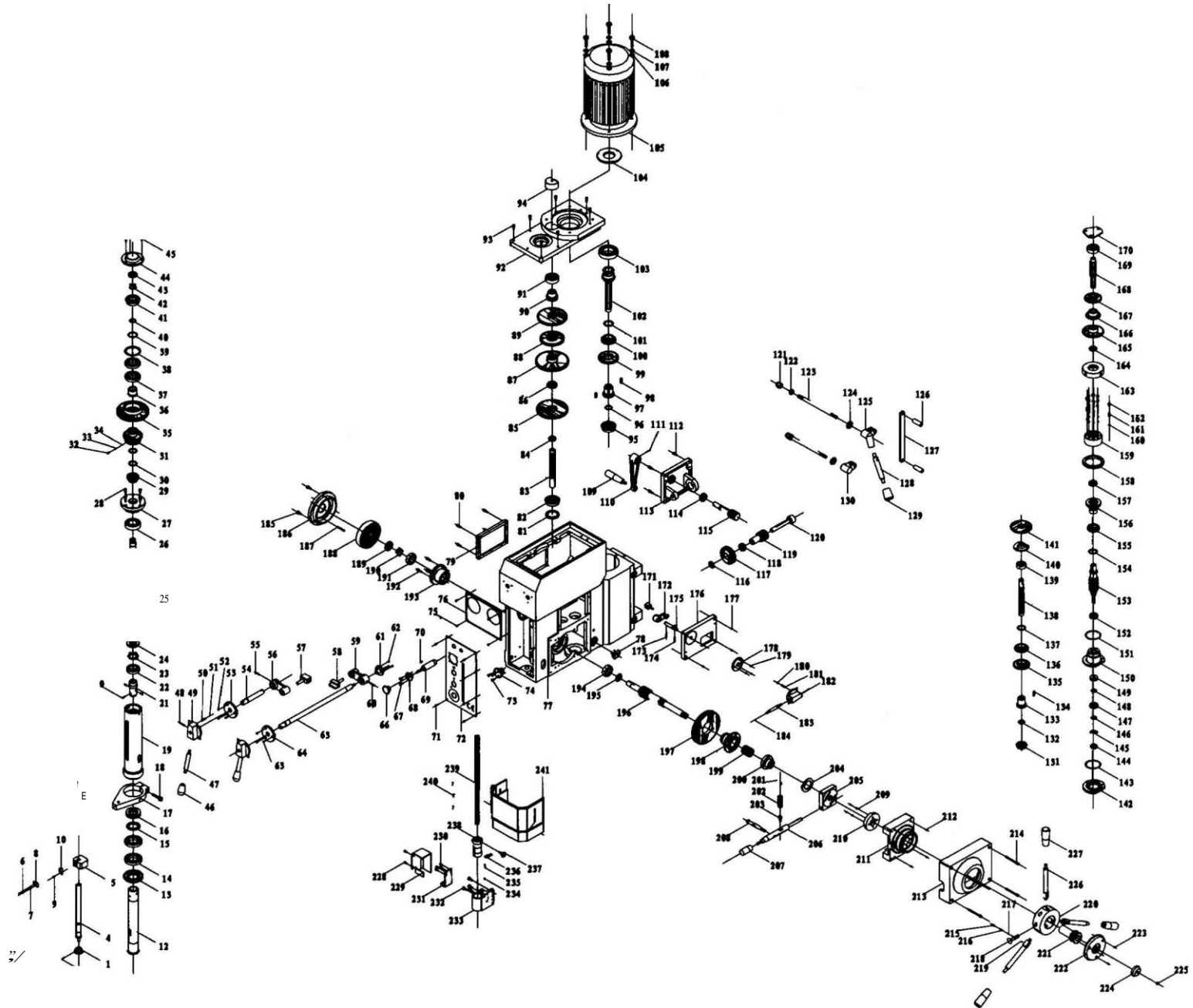
Model: GHD-30PFB

Ancillary page of Operation Manual

**Max. Drilling Diameter: 30mm**

**Series Number:**

Parts Breakdown For GHD-30PFB Drill Press  
Drawing (1)



**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Description</b>	<b>Size</b>	<b>Qty.</b>
1	GHD30PFB-1001	Knurled knob		1
2	GHD30PFB-1002	Cup head pin	3x20	1
3	GHD30PFB-1003	Knurled screw bolt		1
4	GHD30PFB-1004	Scaled bolt		1
5	GHD30PFB-1005	Scaled nut		1
6	GHD30PFB-1006	Cross recess pan head screw		2
7	GHD30PFB-1007	Washer		2
8	GHD30PFB-1008	Scaled indicator sheet		1
9	GHD30PFB-1009	Slotted cheese-head screw		1
10	GHD30PFB-1010	Support for the indicator		1
11	GHD30PFB-1011	Limit block		1
12	GHD30PFB-1012	Main spindle		1
13	GHD30PFB-1013	Bearing cover		1
14	GHD30PFB-1014	Bearing		2
15	GHD30PFB-1015	Washer		1
16	GHD30PFB-1016	Bearing		1
17	GHD30PFB-1017G	Scale clamper		1
18	GHD30PFB-1018	Hexagon socket cap screws		1
19	GHD30PFB-1019	Spindle quill		1
20	GHD30PFB-1020	Taper pin with internal thread		1
21	GHD30PFB-1021	Spline sleeve		1
22	GHD30PFB-1022	Bearing		1
23	GHD30PFB-1023	Washer		1
24	GHD30PFB-1024	Nut		1
25	GHD30PFB-1025	Transmission shaft		1
26	GHD30PFB-1026	Bearing		1
27	GHD30PFB-1027	Bearing seat		1
28	GHD30PFB-1028	Hexagon socket head cap screws	M6x16	4
29	GHD30PFB-1029	Feed gear		1
30	GHD30PFB-1030	External circlip		2
31	GHD30PFB-1031	Gear		1
32	GHD30PFB-1032	Slotted flat end set screws		2
33	GHD30PFB-1033	Cylindrical coil compression spring	0.8x4x12	2
34	GHD30PFB-1034	Steel ball	5	2
35	GHD30PFB-1035	Gear		1
36	GHD30PFB-1036	Bushing		1
37	GHD30PFB-1037	Bearing		2
38	GHD30PFB-1038	Circlip for hole	55	1
39	GHD30PFB-1039	Circlip for hole	30	1
40	GHD30PFB-1040	Circlip for hole	20	1
41	GHD30PFB-1041	Bearing		1
42	GHD30PFB-1042	Washer	18	1
43	GHD30PFB-1043	Nut	M18 X 1.5	1
44	GHD30PFB-1044	Cover		1
45	GHD30PFB-1045	Slotted cheese-head screw	M4x10	3
46	GHD30PFB-1046	Knob		2
47	GHD30PFB-1047	Lever		2
48	GHD30PFB-1048	Taper pin	4x26	1
49	GHD30PFB-1049	Lever seat		2

**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Description</b>	<b>Size</b>	<b>Qty.</b>
50	GHD30PFB-1050	Cylindrical coil compressionm spring	1.4x6x22	2
51	GHD30PFB-1051	Steel ball	8	2
52	GHD30PFB-1052	Slotted cheese-head screw	M5x12	3
53	GHD30PFB-1053	Position Washer		1
54	GHD30PFB-1054	Short fort shaft		1
55	GHD30PFB-1055	Taper pin with internal thread	6x30	1
56	GHD30PFB-1056	Lever		1
57	GHD30PFB-1057	Front fork		1
58	GHD30PFB-1058	Rear fork		1
59	GHD30PFB-1059	Lever		1
60	GHD30PFB-1060	Taper pins with internal thread	6X30	1
61	GHD30PFB-1061	Shaft sleeve		1
62	GHD30PFB-1062	Slotted cheese-head screw	M4x12	3
63	GHD30PFB-1063	Long fork shaft		1
64	GHD30PFB-1064	Position Washer		1
65	GHD30PFB-1065	Slotted cheese-head screw	M5x12	3
66	GHD30PFB-1066	Knurled handle	M8X32	1
67	GHD30PFB-1067	Screw	M3X6	2
68	GHD30PFB-1068	Bushing		1
69	GHD30PFB-1069	Positioning shaft		1
70	GHD30PFB-1070	Key		1
71	GHD30PFB-1071	Cross recess pan head screw	Cr. D M4x8	7
72	GHD30PFB-1072	Label		1
73	GHD30PFB-1073	Slotted countersunk flat head screw	M5X10	3
74	GHD30PFB-1074	Block		1
75	GHD30PFB-1075	Slotted countersunk flat head screw	Cr. D M3x6	4
76	GHD30PFB-1076	Speed label		1
77	GHD30PFB-1077G	Spindle box		1
78	GHD30PFB-1078	Oil cup	(20) M27x1.5	1
79	GHD30PFB-1079G	Cover		1
80	GHD30PFB-1080	Hexagon scocket head cap screw	M5x12	4
81	GHD30PFB-1081	Cover		2
82	GHD30PFB-1082	Bearing	50303	1
83	GHD30PFB-1083	Spline shaft		1
84	GHD30PFB-1084	Bearing	1180803K	1
85	GHD30PFB-1085	Feed gear		1
86	GHD30PFB-1086	Bearing	7000103	1
87	GHD30PFB-1087	Gear		1
88	GHD30PFB-1088	Gear		1
89	GHD30PFB-1089	Gear		1
90	GHD30PFB-1090	Gear		1
91	GHD30PFB-1091	Bearing	303	1
92	GHD30PFB-1092G	Cover		1
93	GHD30PFB-1093	Hexagon socket head cap screw	M6x25	1
94	GHD30PFB-1094	Bearing cover		1
95	GHD30PFB-1095	Bearing	50303	1
96	GHD30PFB-1096	External circlip	22	1
97	GHD30PFB-1097	Gear		1
98	GHD30PFB-1098	Key	8h9X5X22	1

**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Description</b>	<b>Size</b>	<b>Qty.</b>
99	GHD30PFB-1099	Gear		1
100	GHD30PFB-1100	Gear		1
101	GHD30PFB-1101	External circlip	30	1
102	GHD30PFB-1102	Spline shaft		1
103	GHD30PFB-1103	Bearing	108	1
104	GHD30PFB-1104	Bearing cover		1
105	GHD30PFB-1105	Motor	LYD90S-4/2	1
106	GHD30PFB-1106	Washer	10	4
107	GHD30PFB-1107	Washer	10	4
108	GHD30PFB-1108	Hexagonal head bolt	M10X25	4
109	GHD30PFB-1109	Hand quill for turning	M10x80	1
110	GHD30PFB-1110G	Up and down handle for bracket		1
111	GHD30PFB-1111	Pin	4x35	1
112	GHD30PFB-1112	Hexagonal head bolt	M6x16	4
113	GHD30PFB-1113G	Up and down seat		1
114	GHD30PFB-1114	Thrusting bearing	8103	1
115	GHD30PFB-1115	Up and down worm wheel		1
116	GHD30PFB-1116	Washer		1
117	GHD30PFB-1117	Up and down worm wheel for spindle box		1
118	GHD30PFB-1118	Sleeve		1
119	GHD30PFB-1119	Gear		1
120	GHD30PFB-1120	Shaft		1
121	GHD30PFB-1121	Cover type nut	M12	2
122	GHD30PFB-1122	Thin nut	M12	2
123	GHD30PFB-1123	Double end bolt		2
124	GHD30PFB-1124	Washer		2
125	GHD30PFB-1125	Connecting lever for hand seat		1
126	GHD30PFB-1126	Pin	8m6X8	2
127	GHD30PFB-1127	Connecting block bracket		1
128	GHD30PFB-1128	Hand lever	M12x80	1
129	GHD30PFB-1129	Lever quill	M12 X40	1
130	GHD30PFB-1130G	Nut for clamping board		1
131	GHD30PFB-1131	Bearing	50202	1
132	GHD30PFB-1132	External circlip	20	1
133	GHD30PFB-1133	Feed gear		1
134	GHD30PFB-1134	Key	4h9x4x22	1
135	GHD30PFB-1135	Feed gear		1
136	GHD30PFB-1136	Feed gear		1
137	GHD30PFB-1137	External circlip	26	1
138	GHD30PFB-1138	Spline shaft (III)		1
139	GHD30PFB-1139	Bearing	202	1
140	GHD30PFB-1140	Bearing cover		1
141	GHD30PFB-1141	Feed gear		1
142	GHD30PFB-1142	Cover		1
143	GHD30PFB-1143	Washer	47X2.65	1
144	GHD30PFB-1144	Nut	M10x1	1
145	GHD30PFB-1145	Washer	10	1
146	GHD30PFB-1146	Washer		1
147	GHD30PFB-1147	Bearing	101	1

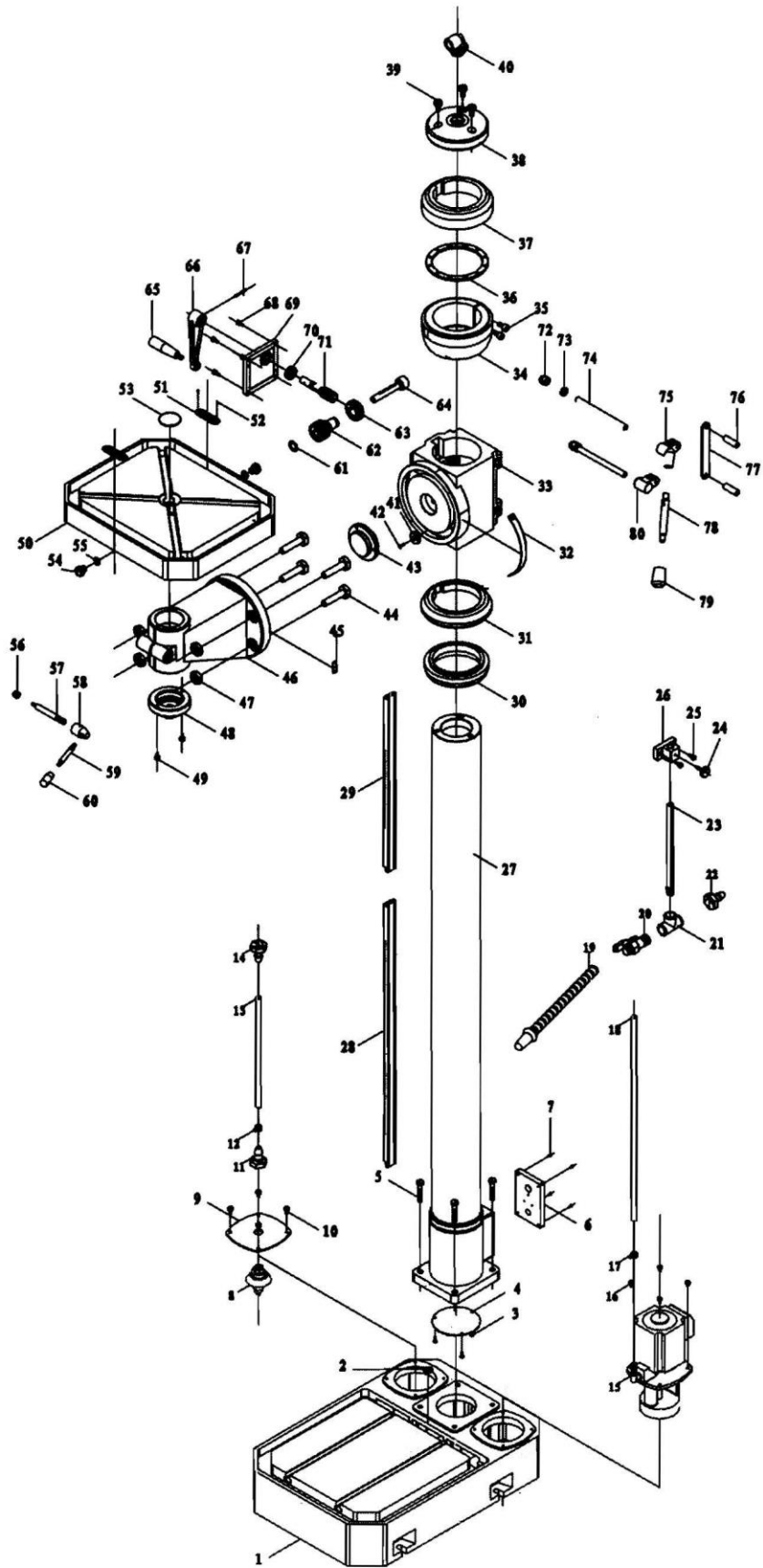
**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Description</b>	<b>Size</b>	<b>Qty.</b>
148	GHD30PFB-1148	Washer		1
149	GHD30PFB-1149	Bearing	8101	1
150	GHD30PFB-1150	Bearing seat		1
151	GHD30PFB-1151	Washer	47x2.65	1
152	GHD30PFB-1152	Bearing	8102	1
153	GHD30PFB-1153	Worm shaft		1
154	GHD30PFB-1154	External circlip	25	1
155	GHD30PFB-1155	Bearing	1000905	1
156	GHD30PFB-1156	Clutch seat		1
157	GHD30PFB-1157	Bearing	1180902K	1
158	GHD30PFB-1158	Nut		1
159	GHD30PFB-1159	Overload protection sleeve		1
160	GHD30PFB-1160	Steel ball	8	8
161	GHD30PFB-1161	Cylindrical coil compression spring	1x6x20	8
162	GHD30PFB-1162	Pin		8
163	GHD30PFB-1163	Nut		1
164	GHD30PFB-1164	Washer for adjusting		1
165	GHD30PFB-1165	Feed gear		1
166	GHD30PFB-1166	Feed gear		1
167	GHD30PFB-1167	Feed gear		1
168	GHD30PFB-1168	Spline shaft (IV)		1
169	GHD30PFB-1169	Bearing		1
170	GHD30PFB-1170	Bearing Cover		1
171	GHD30PFB-1171	Fork		1
172	GHD30PFB-1-172	Connection block		1
173	GHD30PFB-1173	Pin	4x24	1
174	GHD30PFB-1174	Pin	4x20	1
175	GHD30PFB-1175	Shaft		1
176	GHD30PFB-1176G	Side cover		1
177	GHD30PFB-1177	Hexagon socket head cap screw		4
178	GHD30PFB-1178	Positioning board		1
179	GHD30PFB-1179	Slotted countersunk flat head screw		1
180	GHD30PFB-1180	Steel ball	8	1
181	GHD30PFB-1181	Cylindrical coil compression spring	1.4x6x22	1
182	GHD30PFB-1182	Lever seat		1
183	GHD30PFB-1183	Hand lever		1
184	GHD30PFB-1184	Knob		1
185	GHD30PFB-1185	Slotted cheese-head screw	M5x16	3
186	GHD30PFB-1186G	Spring box cover		1
187	GHD30PFB-1187	Pin		1
188	GHD30PFB-1188	Coil spring		1
189	GHD30PFB-1189	Nut	M20x1.5	1
190	GHD30PFB-1190	Washer	20	1
191	GHD30PFB-1191	Bearing	36104	1
192	GHD30PFB-1192	Hexagon socket head cap screw	M5X16	3
193	GHD30PFB-1193	Bearing cover		1
194	GHD30PFB-1194	Bearing		1
195	GHD30PFB-1195	Washer		1
196	GHD30PFB-1196	Cross shaft		1

**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Description</b>	<b>Size</b>	<b>Qty.</b>
197	GHD30PFB-1197	Worm shaft		1
198	GHD30PFB-1198	Connector		1
199	GHD30PFB-1199	Cylindrical coil compression spring	2.5X30X48	1
200	GHD30PFB-1200	Gear cover		1
201	GHD30PFB-1201	Screw		1
202	GHD30PFB-1202	Cylindrical coil compressionm spring	1.6x1.6x61.5	1
203	GHD30PFB-1203	Rivet		1
204	GHD30PFB-1204	Bearing	AXK3552	1
205	GHD30PFB-1205	Block		1
206	GHD30PFB-1206	Lever		1
207	GHD30PFB-1207	Knob	M10x50	1
208	GHD30PFB-1208	Lever		1
209	GHD30PFB-1209	Hexagon socket head cap screw	M5x12	4
210	GHD30PFB-1210	Fixed convex surface		1
211	GHD30PFB-1211	Cross shaft support		1
212	GHD30PFB-1212	Hexagon socket cap screw	M6X40	4
213	GHD30PFB-1213G	Side cover		1
214	GHD30PFB-1214	Hexagon socket cap screw	M6x55	4
215	GHD30PFB-1215	Slotted flat end set screw	M6x6	1
216	GHD30PFB-1216	Cylindrical coil compressionm spring		1
217	GHD30PFB-1217	Steel ball		1
218	GHD30PFB-1218	Pin		1
219	GHD30PFB-1219	Screw	M4x12	1
220	GHD30PFB-1220	Lever seat		1
221	GHD30PFB-1221	Moving sleeve		1
222	GHD30PFB-1222	Lever seat cover		1
223	GHD30PFB-1223	Hexagon socket cap screw	M6x16	3
224	GHD30PFB-1224	Cover		1
225	GHD30PFB-1225	Slotted cheese-head screw	M6x16	1
226	GHD30PFB-1226	Lever		3
227	GHD30PFB-1227	Knob		3
228	GHD30PFB-1228	Slotted cheese-head screw	M4X30	2
229	GHD30PFB-1229	Cover		1
230	GHD30PFB-1230	Slotted cheese-head screw	M4X8	4
231	GHD30PFB-1231	Plate		1
232	GHD30PFB-1232	Slotted countersunk flat head screw	M5X12	4
233	GHD30PFB-1233	Holder		1
234	GHD30PFB-1234	Steel ball	6	1
235	GHD30PFB-1235	Pin		1
236	GHD30PFB-1236	Lever		1
237	GHD30PFB-1237	Screw		1
238	GHD30PFB-1238	Sleeve		1
239	GHD30PFB-1239	Bar		1
240	GHD30PFB-1240	Slotted cheese-head screw		3
241	GHD30PFB-1241	Guard		1

Parts Breakdown For GHD-30PFB Drill Press  
Drawing (2)





### Part List for GHD-30PFB DRILL PRESS

No.	Part no.	Description	Size	Qty.
1	GHD30PFB-2001G	Base		1
2	GHD30PFB-2002	Drainage plate		1
3	GHD30PFB-2003	Slotted countersunk flat head screw	M3X6	4
4	GHD30PFB-2004	Cover		1
5	GHD30PFB-2005	Hexagon head bolt	M12x40	4
6	GHD30PFB-2006G	Cover		1
7	GHD30PFB-2007	Slotted cheese head screw	M4x16	4
8	GHD30PFB-2008	Water strainer	G1/2"	1
9	GHD30PFB-2009	Cover board		1
10	GHD30PFB-2010	Slotted cheese head screw	M6x10	4
11	GHD30PFB-2011	Pipe joint	12.5(G1/2")	1
12	GHD30PFB-2012	Hose clamp		1
13	GHD30PFB-2013	Reinforced nylon	Φ12.5x1500	1
14	GHD30PFB-2014	Pipe joint	12.5 (G3/8")	1
15	GHD30PFB-2015	Coolant pump (Same GHD-25-2-06)	0.18kW	1
16	GHD30PFB-2016	Slotted cheese head screw	M6x25	1
17	GHD30PFB-2017	Hose clamp		2
18	GHD30PFB-2018	Reinforced nylon	Φ10x1500	1
19	GHD30PFB-2019	Plastic cooling pipe	L=400	1
20	GHD30PFB-2020	Brass ball valve	G3/8"	1
21	GHD30PFB-2021	Tee joint	G3/8"	1
22	GHD30PFB-2022	Pipe joint	10 (G3/8")	1
23	GHD30PFB-2023	Bracket		1
24	GHD30PFB-2024	Knurled screw		1
25	GHD30PFB-2025	Hexagon socket head cap screw	M6x14	2
26	GHD30PFB-2026	Bearing frame		1
27	GHD30PFB-2027G	Column		1
28	GHD30PFB-2028	Up and down rack for worktable and its		1
29	GHD30PFB-2029	Up and down rack for spindle box		1
30	GHD30PFB-2030G	Thrusting sleeve		1
31	GHD30PFB-2031	Stop ring (below)		1
32	GHD30PFB-2032	Plate		1
33	GHD30PFB-2033G	Lifting device		1
34	GHD30PFB-2034G	Clamping ring		1
35	GHD30PFB-2035	Hexagon socket head cap screw	M8x30	1
36	GHD30PFB-2036	Rolling ring		1
37	GHD30PFB-2037	Stop ring (above)		1
38	GHD30PFB-2038G	Coping of column		1
39	GHD30PFB-2039	Slotted cheese head screw	M10x12	1
40	GHD30PFB-2040G	Elbow bend		1
41	GHD30PFB-2041	Block		1
42	GHD30PFB-2042	Slotted cheese head screw	M5x12	1
43	GHD30PFB-2043	Positioning shaft		1
44	GHD30PFB-2044	T type screw bolt		4
45	GHD30PFB-2045	Label		1
46	GHD30PFB-2046G	Device for bracket		1
47	GHD30PFB-2047	Hexagon thick nut	M14	4
48	GHD30PFB-2048G	Rind		1
49	GHD30PFB-2049	Slotted cheese head screw	M5x20	2

**Part List for GHD-30PFB DRILL PRESS**

<b>No.</b>	<b>Part no.</b>	<b>Descirption</b>	<b>Size</b>	<b>Qty.</b>
50	GHD30PFB-2050G	Worktable tray		1
51	GHD30PFB-2051	Drainage plate		2
52	GHD30PFB-2052	Cross recess head screw	Cr.DM3x6	4
53	GHD30PFB-2053	Cover		1
54	GHD30PFB-2054	Outside hexagonal oil plug	M14x1.5	2
55	GHD30PFB-2055	Washer	14	2
56	GHD30PFB-2056	Cover type nut	M8	1
57	GHD30PFB-2057	Double end bolt		1
58	GHD30PFB-2058	Lever seat	M12x25	1
59	GHD30PFB-2059	Hand lever	M8x65	1
60	GHD30PFB-2060	Long hand quill	M8x40	1
61	GHD30PFB-2061	Washer		1
62	GHD30PFB-2062	Gear		1
63	GHD30PFB-2063	Tilted gear		1
64	GHD30PFB-2064	Shaft		1
65	GHD30PFB-2065	Lever for turning	M10x80	1
66	GHD30PFB-2066G	Lever for bracket		1
67	GHD30PFB-2067	Taper pin	4x35	1
68	GHD30PFB-2068	Hexagon socket head cap screw	M5x16	4
69	GHD30PFB-2069G	Sider cover		1
70	GHD30PFB-2070	Thrusting bearing	8103	1
71	GHD30PFB-2071	Warm shaft		1
72	GHD30PFB-2072	Cover type nut	M12	2
73	GHD30PFB-2073	Thin nut	M12	2
74	GHD30PFB-2074	Double end bolt		2
75	GHD30PFB-2075G	Up and down rack		1
76	GHD30PFB-2-076	Pin	8m6X24	2
77	GHD30PFB-2077	Connecting board for bracket		1
78	GHD30PFB-2078	Hand lever	M12x80	1
79	GHD30PFB-2079	Long lever quill	M12X40	1
80	GHD30PFB-2080G	Nut for clamping board		1
	GHD30PFB-2081G	Electric box		1
	GHD30PFB-2082	Liquidometer (not show)		1

### Standard Accessories List for GHD-30PFB Drill Press

No.	Part no.	Description	Size	Qty.
1	GHD30PFB-ACC01	Key for drill chuck		1
2	GHD30PFB-ACC02	Drill chuck	1-13mm B16	1
3	GHD30PFB-ACC03	Taper wedge for flat shape quill		1
4	GHD30PFB-ACC04	Fuse	3A	2
5	GHD30PFB-ACC05	Double wrench	21X24	1
6	GHD30PFB-ACC06	Adapter	MT3-1	1
7	GHD30PFB-ACC07	Adapter	MT3-2	1
8	GHD30PFB-ACC08	Adapter	MT3-B16	1



## GB - ENGLISH

### Environmental protection

Protect the environment.

Your appliance contains valuable materials which can be recovered or recycled. Please leave it at a specialized institution.



This symbol indicates separate collection for electrical and electronic equipment required under the WEEE Directive (Directive 2012/19/EC) and is effective only within the European Union.

## DE - DEUTSCH

### Umweltschutz

Schützen Sie die Umwelt!

Ihr Gerät enthält mehrere unterschiedliche, wiederverwertbare Werkstoffe.  
Bitte entsorgen Sie es nur an einer spezialisierten Entsorgungsstelle.



Dieses Symbol verweist auf die getrennte Sammlung von Elektro- und Elektronikgeräten, gemäß Forderung der WEEE-Richtlinie (2012/19/EU). Diese Richtlinie ist nur innerhalb der Europäischen Union wirksam.

## FR - FRANCE

### Protection de l'environnement

Protégez l'environnement !

Votre appareil comprend plusieurs matières premières différentes et recyclables. Pour éliminer l'appareil usagé, veuillez l'apporter dans un centre spécialisé de recyclage des appareils électriques.



Ce symbole indique une collecte séparée des équipements électriques et électroniques conformément à la directive DEEE (2012/19/UE). Cette directive n'est efficace que dans l'Union européenne.



## **Warranty / Garantie**

JPW Tool Group Hong Kong Limited guarantees that the supplied product(s) is/are free from material defects and manufacturing faults.

This warranty does not cover any defects which are caused, either directly or indirectly, by incorrect use, carelessness, damage due to accidents, repairs or inadequate maintenance or cleaning as well as normal wear and tear.

Further details on warranty (e.g. warranty period) can be found in the General Terms and Conditions (GTC) that are an integral part of the contract.

These GTC may be viewed on the website of your dealer or sent to you upon request.

JPW Tool Group Hong Kong Limited reserves the right to make changes to the product and accessories at any time.

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JPW Tool Group Hong Kong Limited garantiert, dass das/die von ihr gelieferte/n Produkt/e frei von Material- und Herstellungsfehlern ist.

Diese Garantie deckt keinerlei Mängel, Schäden und Fehler ab, die - direkt oder indirekt - durch falsche oder nicht sachgemäße Verwendung, Fahrlässigkeit, Unfallschäden, Reparaturen oder unzureichende Wartungs- oder Reinigungsarbeiten sowie durch natürliche Abnutzung durch den Gebrauch verursacht werden.

Weitere Einzelheiten zur Garantie können den allgemeinen Geschäftsbedingungen (AGB) entnommen werden.

Diese können Ihnen auf Wunsch per Post oder Mail zugesendet werden.

JPW Tool Group Hong Kong Limited behält sich das Recht vor, jederzeit Änderungen am Produkt und am Zubehör vorzunehmen.

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JPW Tool Group Hong Kong Limited garantit que le/les produit(s) fourni(s) est/sont exempt(s) de défauts matériels et de défauts de fabrication.

Cette garantie ne couvre pas les défauts, dommages et défaillances causés, directement ou indirectement, par l'utilisation incorrecte ou inadéquate, la négligence, les dommages accidentels, la réparation, la maintenance ou le nettoyage incorrects et l'usure normale.

Vous pouvez trouver de plus amples détails sur la garantie dans les conditions générales (CG).

Les CG peuvent être envoyées sur demande par poste ou par e-mail.

JPW Tool Group Hong Kong Limited se réserve le droit d'effectuer des changements sur le produit et les accessoires à tout moment.



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