





T:86-571-82563775

F:86-571-82563765

www.bycongrp.com

Email:info@bycongrp.com

Add:#2 Building,No.58 Xiangshan Road, Xiaoshan District, Hangzhou 311200 China

DIAMOND CORE DRILL STANDS
MAINTENANCE MANUAL
(Rev.20241015-A1.0)

CATALOGUE

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LIMITED WARRANTY

1. Warranty period

1.1 The length of warranty is 12 months from date of original purchase.

2. Parts or components covered by this warranty

2.1 Carriage, stand base, gear rack and gear shaft etc. All of these damaged parts should not be caused by user.

2.2 Column, tensioners and locating wheels, needles etc. All these normal wearing parts are not covered.

3. This limited warranty does not include the following

3.1 Product purchased date beyond the warranty period.

3.2 Product with no specific BYCON warranty card or valid invoice.

3.3 Operating methods other than those indicated in the Instruction Manual.

3.4 Product manufactured neither by BYCON group nor authorized manufacturers.

3.5 Unauthorized alteration.

3.6 Damage caused by force majeure factors such as earthquakes, typhoons, floods and fires.

3.7 Natural wear and tear (natural fading of painted or plated surfaces, sheet peeling and other natural deterioration).

3.8 Exposure of product to chemical agents or other corrosive environments.

3.9 Model listed on invoice or on Product Registration doesn't match with the actual product, or product with defaced or altered serial number.

3.10 All damaged parts that are caused by user.

3.11 Product purchased thru illegal distribution channel.

4. Before Obtain Warranty Service, Please Follow

4.1 Read and refer to Instruction Manual before use.

4.2 Check all moving and clamping parts before use.

4.3 Keep the periodic maintenance procedure in Maintenance Schedule.

4.4 Shorten the maintenance period after consecutive use of product.

4.5 When purchasing, make sure it is a genuine BYCON product, parts or accessories.

MAINTENANCE

1.1 There is a 4-wheel alignment in the front and 4 eccentric tensioners in the back inside of the carriage. The contact face of the column and the carriage would wear as time passes by, and the carriage would wobble. When it occurs, tighten the 4 eccentric tensioners. However, if the 4-wheel alignment is worn out, replace all 4 of them to ensure the mesh of the gear shaft and the rack.

1.2 Pay attention to the attrition rate mentioned above, replace the wheels and or tensioners first if necessary. If still can't solve the problem, replace the column.

1.3 Always check the drill stand first, repair it if necessary, before operating a stand drilling.

1.4 When perform a check, it is always your top priority to make sure all clamping and moving parts of the stand functioning perfectly.

1.5 Never drill beyond maximum diameter with stand drilling. Otherwise, it may lead to stand malfunction and result in operator injury.

MAINTENANCE SCHEDULE

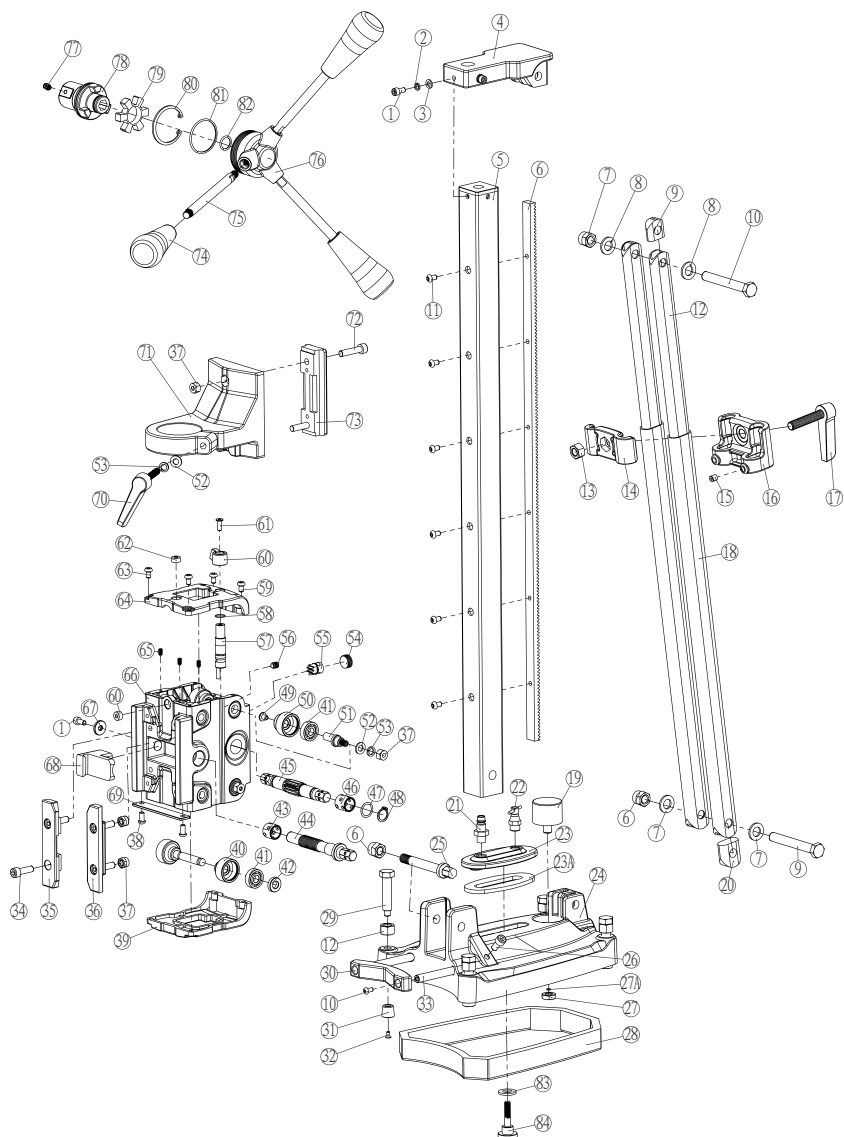
Maintenance Parts	Every time before use	The first month or after 25 working hours	The third month or after reaches 50 working hours	Every year or after reaches 200 working hours
Carriage lever lock	√	√	√	√
Tensioners and wheels	-	√	√	√
Column	-	-	-	√
Gear shaft and gears	-	-	-	√
All clamping parts and threads	√	√	√	√
Angle lock clamp	√	√	√	√
Gear rack	√	√	√	√
Welding position on the base	-	√	√	√

TROUBLE SHOOTING

Fault	Cause	Solution
1.Carriage wobbles	Tensioners wear	Tighten the 4 eccentric tensioners
2.Gear shaft jamming	4-wheel alignment wears	Replace all 4 of them
3. Gear shaft runout on the rack	The lever lock deforms or the welding seam comes off	Replace the lever lock
4. Carriage lever lock can't lock on the rack	The lever lock deforms or the welding seam comes off	Replace the lever lock
5.After replacing all tensioners and aligning wheels, the carriage moving is still unreliable	The Column is worn out	Replace the column
6.The drill stand malfunctioning when drill in 45°	When tighten the angle clamp bolt, the torqueforce of the nut is over-reached	Replace the angle lock clamp on top of the back support
7.The drill motor malfunctioning when using the 60mm clamp bracket	Reaches the maximum diameter or drill hole deviation	Replace the ø60mm clamp bracket
8.Wobble on the welding position of the base	Crack on the welding position	Re-welding or replace the stand's base

EXPLODED VIEW

Model: DBS-162



PARTS LIST

Model: DBS-162

No.	Part Name	Qty	No.	Part Name	Qty
1	Hexagon socket cheese head screws M6X12 zinc plated GB- 10, 9	4	42	Positioning wheel outer spacer DBS- 162	4
2	Spring pad $\phi 6$ galvanized	3	43	Graphite copper bushing 15" 20" 20	1
3	Flat mat $\phi 6 \times \phi 10 \times 1$	3	44	Threaded locking shaft DBS- 162	1
4	Guide rail cover DBS- 162	1	45	Spindle M1. 5X11T	1
5	Guide rail L=850 mm (39. 5/ 39. 5" 900mm)	1	46	Graphite copper bushing 16" 20" 20	2
6	Rack M1. 5x754. 5=L45# zinc plated	1	47	Wave shim $\phi 16 \times \phi 21 \times 0.3$	2
7	Locknut M12 zinc plated GB- 8	3	48	Shaft retaining ring $\phi 16$	2
8	Flat pad $\phi 12 \times \phi 20 \times 1$	4	49	Hexagon socket head cap screws M6X8	4
9	1530 flat oval aluminum tube support core	2	50	Eccentric Wheel DBS- 162/ 352 General Purpose	4
10	Hexagon socket head cap screw M12x90 zinc plated GB- 10, 9	2	51	Eccentric shaft DBS- 162	4
11	Semicircular head screw M6" 8	8	52	Flat pad $\phi 15 \times \phi 8.6 \times 1$	5
12	Flat oval aluminum tube diagonal brace 15x30x570	2	53	Spring pad $\phi 8$ stainless steel	5
13	Hexagon nuts M12 zinc plated GB-8	5	54	Plug M18X1. 5	1
14	Clamping cover with diagonal support	1	55	Assembly locking teeth DBS- 162/ 352	1
15	Flat head set screw M8X8 stainless steel	2	56	Ball screw M8X10	1
16	Clamping seat for inclined support	1	57	Locking tooth spindle DBS- 162	1
17	Handle screw M12x40	1	58	O-ring $\phi 14 \times 1.0$	1
18	Flat oval aluminum tube diagonal brace 21x36x585	2	59	Hexagon socket head cap screws M6x12 zinc plated GB- 10, 9	4
19	pressure gauge	1	60	Hexagon socket head cap screws M6X10 zinc plated GB- 10, 9	4
20	2136 flat oval aluminum tube support core	2	61	Knob DBS- 162/ 352	1
21	Euro Style Male Pagoda Connector LSQ- 25- 02PM	1	62	Hexagon socket head cap screws M5X14	1
22	Exhaust fitting 1/4 male brass brasschrome plated	1	63	Bubble level $\phi 12 \times 6$	2
23	Chassis top cover DBS- 162	1	64	Assembly cover DBS- 162	1
23A	Foam Pad for Base Cover DBS-162	1	65	Tip-tail stop screw M5x10	6
24	Base DBS- 162	1	66	Assembly Shell DBS- 162	1
25	Lower fixing bolts for guide rails DBS- 162	1	67	Threaded locking shaft spacer	1
26	Hexagon socket head cap screws M8X16 zincplated GB- 8, 8	2	68	Threaded locking block	1
27A	O-ring $\phi 6 \times 1.0$ Black	1	69	Dovetail stopper DBS- 162	1
27	G1/ 8 = 1 minute nut	1	70	Handle screw M8X55	1
28	Seal 12x30x770mm Foam	1	71	$\phi 60$ collet holder DBS- 162	1
29	Hexagon socket head cap screw zinc plated GB- 10, 9 Machined to fit feet M12x55 padded	4	72	Hexagon socket head cap screws M8X35 zinc plated GB- 10, 9	2
30	Drill Auxiliary Block	1	73	Pin Clamping Block	1
31	Foot mats DBS- 162/ 352	4	74	Overmolded handle M10x80 black	3
32	Cup head screws M4X8 stainless steel	4	75	Joystick connecting rod	3
33	Drill auxiliary tube L=156	2	76	Female Plug Housing for Rocker	1
34	Cylindrical head screws M8x25 zinc plated GB- 8, 8	4	77	Bead locating screws M6X10 stainless steel	3
35	left wedge	1	78	male plug	1
36	right wedge	1	79	Rubber Plum Cushion T50	1
37	Locknut M8 GB- 8 zinc plated	10	80	Hole retaining ring $\phi 50$	1
38	Hexagon socket head cap screws M5x10 zinc plated GB- 8, 8	2	81	O-ring $\phi 44 \times 1.9$ Black	1
39	Assembly Lower Cover DBS- 162	1	82	O-ring $\phi 23 \times 2$ Black	1
40	Positioning Wheel DBS- 162	4	83	M16 large spacer	1
41	Deep groove ball bearings 6000- 2RZ	8	84	Base Locking Screws	1

PRODUCT REGISTRATION

Product Registration

As for technical data, please refer to the name plate on the machine.

- 1.Fill in the blanks with Product Model, Serial No., and Date of Purchase
- 2.Fill in the blanks with Parts Name and No., Spec. if purchasing spare parts
- 3.Fill in the blank with details when consulting technical issues

Product Model: _____

Serial No.: _____

Date of Purchase: _____

Parts Name & No.: _____

Spec.: _____

Technical Issue: _____

Defective Component: _____

Sales or Distributor Info: _____



WARRANTY CARD

Date of Maintenance: _____

Usage Time: _____

Fault: _____

Solution and Result: _____

Return and/or Exchange Info: _____

Engineer Signature and Date: _____

User Signature and Date: _____

