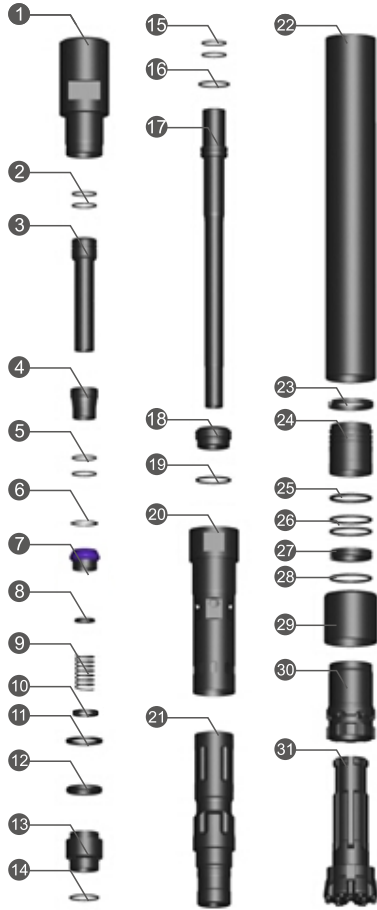




5.5" R.C. Hammers	Item Description	Weight (Kg)	Part Number
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A Top sub Assy Remet 4.5"

1	Top Sub-Remet 4.5"	11.61	BD54-TSUB-R4.5
2	O Ring (Adaptor Tube Remet 4.5") x 2	0.02	BD54-SK-ASCREEN-R4.5
3	Adaptor Tube Remet 4.5"	2.35	BD54-ASCREEN-R4.5
4	Air Screen	0.50	BD54-AIRSCREEN
5	O Ring (Air Screen) x 2	0.02	BD54-SK-AIRSCREEN
6	Stop ring	0.04	BD54-SRING-ASCREEN

B Top sub Assy Metzke 4.5"

1	Top Sub-Metzke 4.5"	11.61	BD54-TSUB-M4.5
2	Adaptor Tube Metzke 4.5"	2.35	BD54-ASCREEN-M4.5
3	Air Screen	0.5	BD54-AIRSCREEN
4	O Ring (Air Screen) x 2	0.02	BD54-SK-AIRSCREEN
5	Stop ring	0.04	BD54-SRING-ASCREEN

Parts List

7	Check Valve/Plunger	0.58	BD54-CVALVE
8	Y Ring (Check Valve)	0.02	BD54-SK-CVALVE
9	Spring	0.12	BD54-SPRING
10	Spring Seat	0.12	BD54-SSEAT
11	Make Up Ring, Steel	0.14	BD54-MUR-STEEL
12	Make Up Ring, Viton	0.06	BD54-MUR-VITON
13	Distributor	1.54	BD54-DIST
14	O Ring (Distributor)	0.02	BD54-SK-DIST
15	O Ring (Sample Tube) x2	0.02	BD54-SK-STUBE1
16	O Ring (Sample Tube) x1	0.02	BD54-SK-STUBE2
17	Sample Tube Lower	6.47	BD54-STUBE
18	Mount Sample Tube	1.00	BD54-STUBE-MOUNT
19	O Ring (Mount Sample Tube)	0.02	BD54-SK-STUBE-M
20	Inner Cylinder	8.54	BD54-ICYL
21	Piston	16.8	BD54-PISTON
22	External Cylinder/Barrel/Piston Case	23.44	BD54-ECYL
23	Piston Retaining Ring	0.2	BD54-PRING
24	Bearing Bush	1.89	BD54-BUSH
25	O Ring (Bearing Bush) x 1	0.02	BD54-SK-BUSH1
26	O Ring (Bearing Bush) x 2	0.02	BD54-SK-BUSH2
27	Bit Stop Ring	0.43	BD54-SRING
28	O Ring (Bit Stop Ring)	0.02	BD54-SK-SRING
29	Shroud (Retaining Option)	2.35	BD54-SHROUD-143/141 or BD54R-SHROUD-136/134
30	Drive Sub (Retaining Option)	4.9	BD54-DSUB or BD54R-DSUB
31	Drill Bit (Retaining Option)	18.33	BD54-143DC or BD54R-143DC
32	Seal Kit (Item 2+4+8+14+15+16+19+25+26+28)	0.3	BD54-SK

Technical Data

Length(Less bit)	Weigth(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1294mm	84.5kg	φ130	BD54	Φ136-Φ150	4.5 " Remet 4.5 " Metzke
Working Pressure	Impact rate at 2.4Mpa	Recommended rotation speed	Air Consumption		
			200-500(PSI)		
1.5-3.5Mpa	35HZ	25-40r/min	300-1200(CFM)		

RECOMMENDED SAFETY PROCEDURES

The mining industry continues to demand even higher levels of safety and productivity. In order to meet these requirements, we work continuously to develop even safer products, and to produce comprehensive manuals enabling for safer and effective use of our products.



IT'S ALL ABOUT EVERYONE'S HEALTH

Helping you to ensure a safer workplace and healthier workforce is of the utmost importance to us. The well-being of any person coming into contact with our equipment is paramount. Therefore, we strive to identify and assess potential risk factors that could threaten the health of you and your employees.

All of the products in this catalogue are designed to meet safety requirements.

DRESS RIGHT FROM HEAD TO TOE

You must wear appropriate personal protective equipment (PPE) at all times. This is what we strongly recommend, to help avoid injury:

- Safety helmet
- Hearing protection
- Safety glasses
- Protective high visibility clothing
- Respiratory protection
- Safety boots
- Any site-specific PPE as required

BE AWARE OF ALL SAFETY PROCEDURES

We ask that you start by obeying all instructions given. Never work under an unsupported roof or close to potential pinch point locations. Beware of the potential hazards of a loose roof and ribs, and scale down roof and ribs prior to bolting. It is important to bolt early in the mining process – as soon as is safely and practically possible.

Safe work procedures should incorporate inspection before the machine operates, and also through regular monitoring based upon mining conditions, safety and hazard management systems. Workers should be provided with safety information, instruction and training on transportation, installation, operational care and disposal of drilling tools.

MAKE A RISK ANALYSIS BEFORE YOU START

Pay attention to safety when planning all of your work. Before you start, always take your time to go through all operations. Identify any potential risks and take appropriate measures to avoid them. If necessary, seek expert advice on how to help minimize risks. Finally, make sure that you have the right resources to perform all tasks in the safest manner possible.

Please check www.safeworkaustralia.gov.au for more information.

Reverse Circulation Service Guide

When breaking a Hammer down, avoid placing breakout tools in the mid section of the cylinder (barrel). Recommended breakout points are 130mm from each end of cylinder. Wrap around chain type breakouts are recommended. (See diagram). When holding bits for breakout, use a secure plate or pot to grab the bit head, but never on the gauge row buttons.

This information is included with every Hammer purchase.



DO NOT APPLY HEAT OR DIRECT IMPACT TO HAMMER WHEN CRACKING JOINTS AS THIS TYPICALLY DAMAGES THE HAMMER.

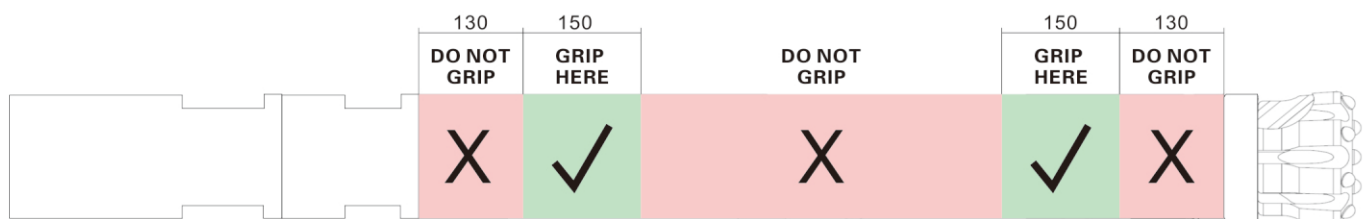


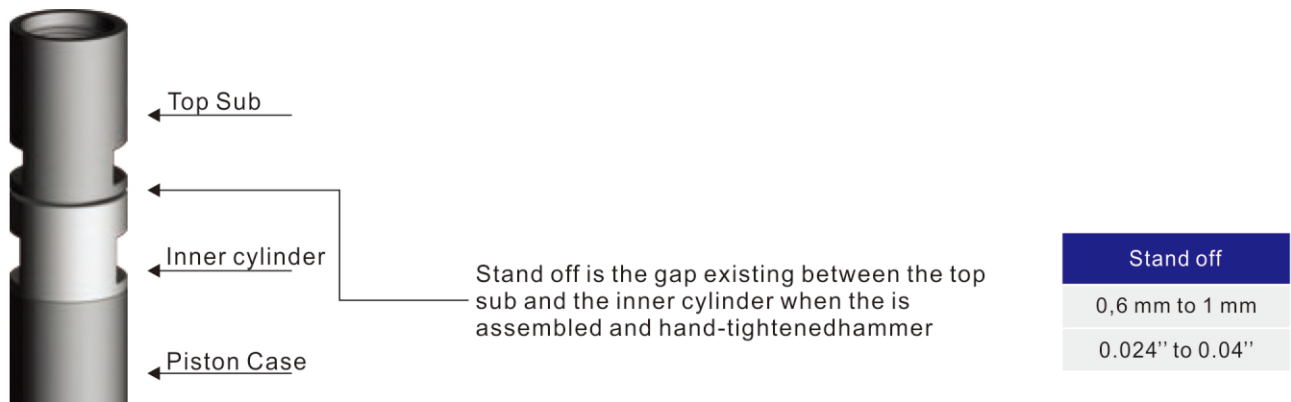
Figure1:Gripping Locations For BD DRILL Reverse Circulation Hammer

Lubrication

Correct lubrication is critical to the performance and longevity of the hammer.

Recommends:

- Oil Grade: SAE 320 Hammer Oil for most operating conditions
- Rate: 2 liter/hour minimum via an automatic feeder
- Double the rate when injecting fluids such as water, foam & polymers
- Clean and relubricate the hammer each day after use to prevent corrosion and premature failure





SPECIFICATIONS

Hammer	BD531	RC3.5	BD004			BD542			BD543			BD545		BD040				BD52		BD54		A67
Top sub thread	R3"	R3"	R3.5"	R4"	M4"	R3.5"	R4"	M4"	R4"	M4"	M4.5	R4.5	M4"	R4"	M4.5"	R4.5"	M4.5"	R4.5"	M4.5"	R4.5	M4.5"	
Package case size	(L)1100 (W)110 (H)120	(L)1230 (W)120 (H)150	(L)1300 (W)150 (H)180			(L)1230 (W)140 (H)170			(L)1260 (W)150 (H)180			(L)1300 (W)150 (H)180				(L)1300 (W)160 (H)190		(L)1300 (W)160 (H)190		(L)1330 (W)160 (H)190		
Recommended bit size, mm	86-100	100-110	111-125			113-133			123-140			127-140				133-143		136-146		136-146		
Bit shank	RE531	RC3.5	RE004			RE542			RE543			RE545		RE040				PR52		PR54		BD67
External diameter, mm (mm)	81	94	107			109.5			116			117.5		121				120.5		130		132
Length excl. thread, mm (Less bit)	1069	1184	1252			1191			1261			1210				1227		1294		1200		
Hammer weight, kg (Less bit)	29	44	52			57			63			65		53.8	47.5	69.4	69.4	68.5		84.5		81.8
Piston weight, kg	4.8	8.3	10.5			11.6			11.6			13.5		13.6				14.3		16.8		17
Wrench flat, mm	No Wrench Flat	(L)82 (W)40	(L)90 (W)45	(L)90 (W)50	(L)90 (W)50	(L)95 (W)45	(L)95 (W)45	(L)95 (W)50	(L)95 (W)45	(L)95 (W)50	(L)102 (W)50	(L)102 (W)50	(L)94 (W)50	(L)94 (W)50	(L)94 (W)50	(L)94 (W)50	(L)94 (W)50	(L)94 (W)50	(L)100 (W)50	(L)100 (W)50	(L)95 (W)51	

Drilling conditions and project specifications may require larger air package to be used

AIR CONSUMPTION/OPERATING PRESSURE

