

Part Description	Part Number
	

PERFORMAT is a leading global productivity partner, specializing in rock drilling tools with more than 20 years of experience. We have researched & designed independently and manufactured a range of DTH Hammers and Bits, Drill Pipes, Overburden Casing System, RC Drilling Tools, Top Hammer Drilling Tools, Rotary (Tricone) Bits, and Drill pipes, etc.

PERFORMAT is aiming to be your first choice in rock drilling. We offer our customers full drilling solutions customized to your specific rock conditions and drilling requirements. We focus on reducing running costs and increasing drilling efficiency and effectiveness for drilling partners worldwide. We produce excellent rock drilling tools by using top-grade raw material, utilizing advanced craft technology, and imposing strict quality inspection, which ensures stable quality and excellent performance of products.

PERFORMAT have been operating in more than 90 countries around the world, and have been servicing various applications: Mining, Quarry, Construction, Geothermal, Water well, Anchoring, etc. By collaborating with customers and having strict control over all production processes, we are able to continuously improve our products and tungsten carbide technologies. Leading the drilling work to be more successful.

We constantly strive to exceed customers' expectations while ensuring higher efficiency and productivity.



MISSION

Focus on drilling clients requirement and challenges, and continue to help them reduce drilling costs and create greater productivity. Make the drilling works more successful.

VISION

Aiming to be drillers' first choice

- More efficient
- More durable
- More safe

VALUES



Integrity:

We act honestly, fairly and transparently, treating people with trust, dignity and respect.



Safety:

If we cannot work safely, we'd rather not have products delivered.



Delivery:

Our products are delivered on time with 100% quality inspection.



Efficient:

We make drilling projects more efficient, increase the speed of drilling tools and have an outstanding productivity.



Innovation:

We are constantly innovating to make products more compact and lighter design, handling is easier and safer.



Responsibility:

We manage our impact responsibly on the environment.

For delivery goods, we promise to do the following:



1. Quick quote

Prompt responses to requests for quotation.



2. Professional quotation solution

Our quotation to clearly state that it is based on customer' Standard Purchase Order Terms.



3. Prompt order acknowledgement

i.e. confirmation that your company is in receipt of the purchase order and agrees to provide the requested goods at the specified price by the required date.



4. Timely delivery

i.e. the goods are delivered on or before the required date, or notification is given well in advance that there will be a delay in supplying the goods.



5. Order accuracy

i.e. no under-supplies, over-supplies, damaged, defective, or incorrect goods.



6. Completeness

i.e. the ordered quantity is delivered 100% in full – no part orders or multiple deliveries without prior written agreement.



7. Consignment notes are correctly marked

i.e. consignment notes, packing slips, Data Sheets, etc. and the item delivered is readily identifiable on all documents.



8. Goods are accompanied by all required paperwork

All required paperwork and the item delivered is readily identifiable on all documents;
i.e. consignment notes, packing Data Sheets, etc.



9. Goods are appropriately packaged

Delivery picture is available.



10. Accurate invoicing

i.e. the invoiced quantity and pricing is as per the purchase order line item.



11. Continuously optimize services

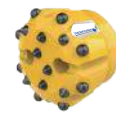
We demonstrate a commitment to responsible sourcing and sustainability improvements within clients supply chains.


01	BR2 DTH HAMMER & BIT
02	BR3 DTH HAMMER & BIT
03	DHD3.5 DTH HAMMER & BIT
04	Mission30 DTH HAMMER & BIT
05	DHD3.5A DTH HAMMER & BIT
06	DHD340 DTH HAMMER & BIT
07	QL40 DTH HAMMER & BIT
08	Mission40 DTH HAMMER & BIT
09	SD4 DTH HAMMER & BIT
10	DHD340A DTH HAMMER & BIT
11	QL40A DTH HAMMER & BIT
12	DHD350 DTH HAMMER & BIT
13	QL50 DTH HAMMER & BIT
14	Mission50 DTH HAMMER & BIT
15	SD5 DTH HAMMER & BIT
16	DHD350A DTH HAMMER & BIT
17	QL50A DTH HAMMER & BIT
18	DHD360 DTH HAMMER & BIT
19	QL60 DTH HAMMER & BIT
20	Mission60 DTH HAMMER & BIT
21	SD6 DTH HAMMER & BIT
22	DHD360A DTH HAMMER & BIT
23	QL60A DTH HAMMER & BIT
24	DHD380 DTH HAMMER & BIT
25	QL80 DTH HAMMER & BIT
26	Mission80 DTH HAMMER & BIT
27	SD8 DTH HAMMER & BIT
28	DHD380A DTH HAMMER & BIT
29	QL80A DTH HAMMER & BIT
30	NUMA100 DTH HAMMER & BIT
31	SD10 DTH HAMMER & BIT
32	NUMA100A DTH HAMMER & BIT
33	NUMA125A DTH HAMMER & BIT
34	SD12 DTH HAMMER & BIT
35	NUMA180 DTH HAMMER & BIT
36	NUMA240 DTH HAMMER & BIT
37	Drill Pipe
38	The Others



Part Description	Part Number
1 Top Sub	LR-BR2-01
2 "O" Ring of Top Sub	LR-BR2-02
3 Check Valve	LR-BR2-03
4 Spring	LR-BR2-04
5 Air Distributor	LR-BR2-05
6 Internal Cylinder	LR-BR2-06
7 Piston	LR-BR2-07
8 External Cylinder	LR-BR2-08
9 Guided Sleeve	LR-BR2-09
10 "O" Ring of Stop Ring	LR-BR2-10
11 Stop Ring	LR-BR2-11
12 Drive Chuck	LR-BR2-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
BR2	RD50 BOX	Φ70-95mm	868mm	15Kg	7-20Bar	5.5	—

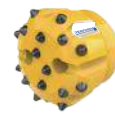
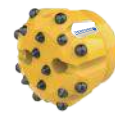


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	76	3	Φ12*6	Φ10*5	/	/	Flat Face	2.3	LR-BR2-76FF
	76	3	Φ13*6	Φ10*2	Φ11*2	/	Convex Face	2.3	LR-BR2-76CV
	80	3 1/7	Φ13*6	Φ10*2	Φ11*3	/	Convex Face	2.4	LR-BR2-80CV
	90	3 1/2	Φ13*6	Φ11*2	Φ11*4	/	Convex Face	2.6	LR-BR2-90CV
	90	3 1/2	Φ13*6	Φ10*6	/	/	Flat Face	2.6	LR-BR2-90FF
	95	3 3/4	Φ12*8	Φ12*4	/	Φ12*2	Concave Face	2.8	LR-BR2-90CC

Part Description	Part Number
1 Top Sub	LR-BR3-01
2 "O" Ring of Top Sub	LR-BR3-02
3 Check Valve	LR-BR3-03
4 Spring	LR-BR3-04
5 Air Distributor	LR-BR3-05
6 Internal Cylinder	LR-BR3-06
7 Piston	LR-BR3-07
8 External Cylinder	LR-BR3-08
9 Guided Sleeve	LR-BR3-09
10 "O" Ring of Stop Ring	LR-BR3-10
11 Stop Ring	LR-BR3-11
12 Drive Chuck	LR-BR3-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
BR2	API 2 3/8" Reg	Φ90-110mm	873mm	25Kg	7-20Bar	5.5	—

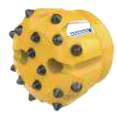
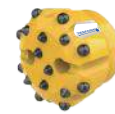


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
90	3 1/2	Φ14*6	Φ12*2	Φ13*2	/	Convex Face	LR-BR3-90CV		
90	3 1/2	Φ14*6	Φ12*4	/	/	Flat Face	LR-BR3-90FF		
95	3 3/4	Φ14*6	Φ13*2	Φ13*2	/	Convex Face	LR-BR3-95CV		
100	3 15/16	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	LR-BR3-100CV		
105	4 1/8	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	LR-BR3-105CV		
105	4 1/8	Φ13*8	Φ12*6	/	/	Flat Face	LR-BR3-105FF		



Part Description	Part Number
1 Top Sub	LR-DHD3.5-01
2 "O" Ring of Top Sub	LR-DHD3.5-02
3 Check Valve	LR-DHD3.5-03
4 Spring	LR-DHD3.5-04
5 Compression Buffer	LR-DHD3.5-05
6 Air Distributor	LR-DHD3.5-06
7 Internal Cylinder	LR-DHD3.5-07
8 Piston	LR-DHD3.5-08
9 External Cylinder	LR-DHD3.5-09
10 "O" Ring of Stop Ring	LR-DHD3.5-10
11 Stop Ring	LR-DHD3.5-11
12 Drive Chuck	LR-DHD3.5-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	External Diameter	Working Pressure	Air Consumption m ³ /min	
							14Bar	24Bar
DHD3.5 IR3.5	API 2 3/8" Reg	Φ90-110mm	930mm	25Kg	Φ82mm	7-25Bar	6.5	13.7

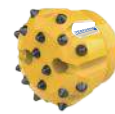
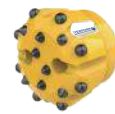


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	90	3 1/2	Φ14*6	Φ12*2	Φ13*2	/	Convex Face	4.5	LR-DHD3.5-90CV
	90	3 1/2	Φ14*6	Φ12*4	/	/	Flat Face	4.5	LR-DHD3.5-90FF
	95	3 3/4	Φ14*6	Φ13*2	Φ13*2	/	Convex Face	4.6	LR-DHD3.5-95CV
	100	3 15/16	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	4.8	LR-DHD3.5-100CV
	105	4 1/8	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	5.0	LR-DHD3.5-105CV
	105	4 1/8	Φ13*8	Φ12*6	/	/	Flat Face	5.0	LR-DHD3.5-105FF

Part Description	Part Number
1 Top Sub	LR-M30-01
2 "O" Ring of Top Sub	LR-M30-02
3 Check Valve	LR-M30-03
4 Spring	LR-M30-04
5 Air Distributor	LR-M30-05
6 Internal Cylinder	LR-M30-06
7 Piston	LR-M30-07
8 External Cylinder	LR-M30-08
9 Guided Sleeve	LR-M30-09
10 "O" Ring of Stop Ring	LR-M30-10
11 Stop Ring	LR-M30-11
12 Drive Chuck	LR-M30-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
Mission30	API 2 3/8" Reg	Φ90-110mm	955mm	23Kg	7-25Bar	5.5	12

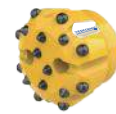


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
90	3 1/2	Φ14*6	Φ12*2	Φ13*2	/	Convex Face	LR-M30-90CV		
90	3 1/2	Φ14*6	Φ12*4	/	/	Flat Face	LR-M30-90FF		
95	3 3/4	Φ14*6	Φ13*2	Φ13*2	/	Convex Face	LR-M30-95CV		
100	3 15/16	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	LR-M30-100CV		
105	4 1/8	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	LR-M30-105CV		
105	4 1/8	Φ13*8	Φ12*6	/	/	Flat Face	LR-M30-105FF		



Part Description	Part Number
1 Top Sub	LR-DHD3.5A-01
2 "O" Ring of Top Sub	LR-DHD3.5A-02
3 Check Valve	LR-DHD3.5A-03
4 Spring	LR-DHD3.5A-04
5 Air Distributor	LR-DHD3.5A-05
6 Internal Cylinder	LR-DHD3.5A-06
7 Piston	LR-DHD3.5A-07
8 External Cylinder	LR-DHD3.5A-08
9 Guided Sleeve	LR-DHD3.5A-09
10 "O" Ring of Stop Ring	LR-DHD3.5A-10
11 Stop Ring	LR-DHD3.5A-11
12 Drive Chuck	LR-DHD3.5A-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD3.5A IR3.5A	API 2 3/8" Reg	Φ90-110mm	888mm	25Kg	7-25Bar	5.5	12

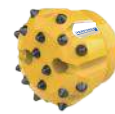
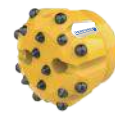


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	90	3 1/2	Φ14*6	Φ12*2	Φ13*2	/	Convex Face	4.5	LR-DHD3.5-90CV
	90	3 1/2	Φ14*6	Φ12*4	/	/	Flat Face	4.5	LR-DHD3.5-90FF
	95	3 3/4	Φ14*6	Φ13*2	Φ13*2	/	Convex Face	4.6	LR-DHD3.5-95CV
	100	3 15/16	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	4.8	LR-DHD3.5-100CV
	105	4 1/8	Φ14*6	Φ13*2	Φ13*3	/	Convex Face	5.0	LR-DHD3.5-105CV
	105	4 1/8	Φ13*8	Φ12*6	/	/	Flat Face	5.0	LR-DHD3.5-105FF

Part Description	Part Number
1 Top Sub	LR-DHD340-01
2 "O" Ring of Top Sub	LR-DHD340-02
3 Check Valve	LR-DHD340-03
4 Spring	LR-DHD340-04
5 Compression Buffer	LR-DHD340-05
6 Air Distributor	LR-DHD340-06
7 Internal Cylinder	LR-DHD340-07
8 Piston	LR-DHD340-08
9 External Cylinder	LR-DHD340-09
10 "O" Ring of Stop Ring	LR-DHD340-10
11 Stop Ring	LR-DHD340-11
12 Drive Chuck	LR-DHD340-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD340 COP44	API 2 3/8" Reg	Φ110-130mm	1032mm	41Kg	10-25Bar	7.4	15



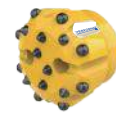
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-1	
115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-2	
115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-3	
125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	8.8	LR-DHD340-125CV	
127	5	Φ14*8	Φ13*7	/	/	Flat Face	8.9	LR-DHD340-127FF	
130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	9.1	LR-DHD340-130FF	





Part Description	Part Number
1 Top Sub	LR-QL40-01
2 "O" Ring of Top Sub	LR-QL40-02
3 Check Valve	LR-QL40-03
4 Spring	LR-QL40-04
5 Compression Buffer	LR-QL40-05
6 Air Distributor	LR-QL40-06
7 Internal Cylinder	LR-QL40-07
8 Piston	LR-QL40-08
9 External Cylinder	LR-QL40-09
10 Guided Sleeve	LR-QL40-10
11 "O" Ring of Stop Ring	LR-QL40-11
12 Stop Ring	LR-QL40-12
13 Drive Chuck	LR-QL40-13

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL40	API 2 3/8" Reg	Φ110-130mm	1103mm	43Kg	10-25Bar	7.4	15

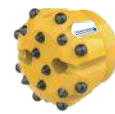


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-1
	115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-2
	115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-3
	125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	10.2	LR-QL40-125CV
	127	5	Φ14*8	Φ13*7	/	/	Flat Face	10.3	LR-QL40-127FF
	130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	10.5	LR-QL40-130FF

Part Description	Part Number
1 Top Sub	LR-M40-01
2 "O" Ring of Top Sub	LR-M40-02
3 Check Valve	LR-M40-03
4 Spring	LR-M40-04
5 Air Distributor	LR-M40-05
6 Internal Cylinder	LR-M40-06
7 Piston	LR-M40-07
8 External Cylinder	LR-M40-08
9 Guided Sleeve	LR-M40-09
10 "O" Ring of Stop Ring	LR-M40-10
11 Stop Ring	LR-M40-11
12 Drive Chuck	LR-M40-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
Mission40	API 2 3/8" Reg	Φ110-130mm	1005mm	40Kg	10-25Bar	7	14.2



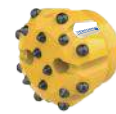
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	8.1	LR-M40-115CV-1	
115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	8.1	LR-M40-115CV-2	
115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	8.1	LR-M40-115CV-3	
125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	8.7	LR-M40-125CV	
127	5	Φ14*8	Φ13*7	/	/	Flat Face	8.8	LR-M40-127FF	
130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	9.0	LR-M40-130FF	





Part Description	Part Number
1 Top Sub	LR-SD4-01
2 "O" Ring of Top Sub	LR-SD4-02
3 Check Valve	LR-SD4-03
4 Spring	LR-SD4-04
5 Compression Buffer	LR-SD4-05
6 Air Distributor	LR-SD4-06
7 Internal Cylinder	LR-SD4-07
8 Piston	LR-SD4-08
9 External Cylinder	LR-SD4-09
10 "O" Ring of Stop Ring	LR-SD4-10
11 Stop Ring	LR-SD4-11
12 Drive Chuck	LR-SD4-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	External Diameter	Working Pressure	Air Consumption m³/min	
							14Bar	24Bar
SD4	API 2 3/8" Reg	Φ110-130mm	1083mm	41Kg	Φ99mm	10-25Bar	7.4	15

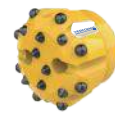


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	9.0	LR-SD4-115CV-1
	115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	9.0	LR-SD4-115CV-2
	115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	9.0	LR-SD4-115CV-3
	125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	9.6	LR-SD4-125CV
	127	5	Φ14*8	Φ13*7	/	/	Flat Face	9.7	LR-SD4-127FF
	130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	9.9	LR-SD4-130FF

Part Description	Part Number
1 Top Sub	LR-DHD340A-01
2 "O" Ring of Top Sub	LR-DHD340A-02
3 Check Valve	LR-DHD340A-03
4 Spring	LR-DHD340A-04
5 Air Distributor	LR-DHD340A-05
6 Internal Cylinder	LR-DHD340A-06
7 Piston	LR-DHD340A-07
8 External Cylinder	LR-DHD340A-08
9 Guided Sleeve	LR-DHD340A-09
10 "O" Ring of Stop Ring	LR-DHD340A-10
11 Stop Ring	LR-DHD340A-11
12 Drive Chuck	LR-DHD340A-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD340A COP44A	API 2 3/8" Reg	Φ110-130mm	927mm	38Kg	10-25Bar	6.5	13.5



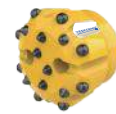
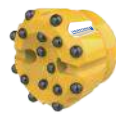
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-1	
115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-2	
115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	8.2	LR-DHD340-115CV-3	
125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	8.8	LR-DHD340-125CV	
127	5	Φ14*8	Φ13*7	/	/	Flat Face	8.9	LR-DHD340-127FF	
130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	9.1	LR-DHD340-130FF	





Part Description	Part Number
1 Top Sub	LR-QL40A-01
2 "O" Ring of Top Sub	LR-QL40A-02
3 Check Valve	LR-QL40A-03
4 Spring	LR-QL40A-04
5 Compression Buffer	LR-QL40A-05
6 Air Distributor	LR-QL40A-06
7 Internal Cylinder	LR-QL40A-07
8 Piston	LR-QL40A-08
9 External Cylinder	LR-QL40A-09
10 Guided Sleeve	LR-QL40A-10
11 "O" Ring of Stop 12 Ring	LR-QL40A-11
12 Stop Ring	LR-QL40A-12
13 Drive Chuck	LR-QL40A-13

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL40A	API 2 3/8" Reg	Φ90-110mm	955mm	23Kg	7-25Bar	7.4	15

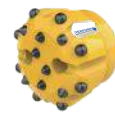


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	115	4 1/2	Φ14*7	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-1
	115	4 1/2	Φ16*7	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-2
	115	4 1/2	Φ14*8	Φ14*2	Φ14*4	/	Convex Face	9.6	LR-QL40-115CV-3
	125	4 15/16	Φ14*8	Φ13*3	Φ14*4	/	Convex Face	10.2	LR-QL40-125CV
	127	5	Φ14*8	Φ13*7	/	/	Flat Face	10.3	LR-QL40127FF
	130	5 1/8	Φ14*8	Φ14*7	/	/	Flat Face	10.5	LR-QL40-130FF

Part Description	Part Number
1 Top Sub	LR-DHD350-01
2 "O" Ring of Top Sub	LR-DHD350-02
3 Check Valve	LR-DHD350-03
4 Spring	LR-DHD350-04
5 Breakout Ring	LR-DHD350-05
6 Compression Buffer	LR-DHD350-06
7 Base Of Compression Buffer	LR-DHD350-07
8 Air Distributor	LR-DHD350-08
9 Internal Cylinder	LR-DHD350-09
10 Piston	LR-DHD350-10
11 External Cylinder	LR-DHD350-11
12 "O" Ring of Stop Ring	LR-DHD350-12
13 Stop Ring	LR-DHD350-13
14 Drive Chuck	LR-DHD350-14



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD350 COP54	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1214mm	77Kg	10-25Bar	12	22.3



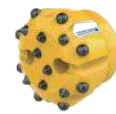
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	15.3	LR-DHD350-140CV	
140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	15.5	LR-DHD350-140FF	
146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	16.1	LR-DHD350-146FF	
146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	16.0	LR-DHD350-146CC	
152	6	Φ18*8	Φ15*8	/	/	Flat Face	16.6	LR-DHD350-152FF	
152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	16.4	LR-DHD350-152CC	





Part Description	Part Number
1 Top Sub	LR-QL50-01
2 "O" Ring of Top Sub	LR-QL50-02
3 Breakout Ring	LR-QL50-03
4 Check Valve	LR-QL50-04
5 Spring	LR-QL50-05
6 Compression Buffer	LR-QL50-06
7 Air Distributor	LR-QL50-07
8 Internal Cylinder	LR-QL50-08
9 Piston	LR-QL50-09
10 External Cylinder	LR-QL50-10
11 Guided Sleeve	LR-QL50-11
12 "O" Ring of Stop Ring	LR-QL50-12
13 Stop Ring	LR-QL50-13
14 Drive Chuck	LR-QL50-14

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL50 COP54	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1156mm	73Kg	10-25Bar	12	22.3

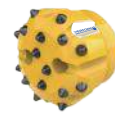
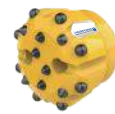


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	15.1	LR-QL50-140CV
	140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	15.3	LR-QL50-140FF
	146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	15.9	LR-QL50-146FF
	146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	15.8	LR-QL50-146CC
	152	6	Φ18*8	Φ15*8	/	/	Flat Face	16.4	LR-QL50-152FF
	152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	16.2	LR-QL50-152CC

Part Description	Part Number
1 Top Sub	LR-M50-01
2 "O" Ring of Top Sub	LR-M50-02
3 Check Valve	LR-M50-03
4 Spring	LR-M50-04
5 Air Distributor	LR-M50-05
6 Internal Cylinder	LR-M50-06
7 Piston	LR-M50-07
8 External Cylinder	LR-M50-08
9 Guided Sleeve	LR-M50-09
10 "O" Ring of Stop Ring	LR-M50-10
11 Stop Ring	LR-M50-11
12 Drive Chuck	LR-M50-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
Mission50	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1106mm	66Kg	10-25Bar	10.8	20.07

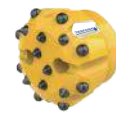


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	LR-M50-140CV		
140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	LR-M50-140FF		
146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	LR-M50-146FF		
146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	LR-M50-146CC		
152	6	Φ18*8	Φ15*8	/	/	Flat Face	LR-M50-152FF		
152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	LR-M50-152CC		



Part Description	Part Number
1 Top Sub	LR-SD5-01
2 "O" Ring of Top Sub	LR-SD5-02
3 Breakout Ring	LR-SD5-03
4 Check Valve	LR-SD5-04
5 Spring	LR-SD5-05
6 Compression Buffer	LR-SD5-06
7 Air Distributor	LR-SD5-07
8 Internal Cylinder	LR-SD5-08
9 Piston	LR-SD5-09
10 External Cylinder	LR-SD5-10
11 "O" Ring of Stop Ring	LR-SD5-11
12 Stop Ring	LR-SD5-12
13 Drive Chuck	LR-SD5-13

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
SD5	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1175mm	73Kg	10-25Bar	12	22.3

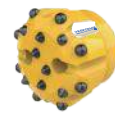


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	15.1	LR-SD5-140CV
	140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	15.3	LR-SD5-140FF
	146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	15.9	LR-SD5-146FF
	146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	15.8	LR-SD5-146CC
	152	6	Φ18*8	Φ15*8	/	/	Flat Face	16.4	LR-SD5-152FF
	152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	16.2	LR-SD5-152CC

Part Description	Part Number
1 Top Sub	LR-DHD350A-01
2 "O" Ring of Top Sub	LR-DHD350A-02
3 Check Valve	LR-DHD350A-03
4 Spring	LR-DHD350A-04
5 Air Distributor	LR-DHD350A-05
6 Internal Cylinder	LR-DHD350A-06
7 Piston	LR-DHD350A-07
8 External Cylinder	LR-DHD350A-08
9 Guided Sleeve	LR-DHD350A-09
10 "O" Ring of Stop Ring	LR-DHD350A-10
11 Stop Ring	LR-DHD350A-11
12 Drive Chuck	LR-DHD350A-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD350A COP54A	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1106mm	66Kg	10-25Bar	10.8	20.1



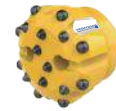
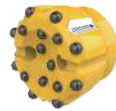
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	15.3	LR-DHD350-140CV	
140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	15.5	LR-DHD350-140FF	
146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	16.1	LR-DHD350-146FF	
146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	16.0	LR-DHD350-146CC	
152	6	Φ18*8	Φ15*8	/	/	Flat Face	16.6	LR-DHD350-152FF	
152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	16.4	LR-DHD350-152CC	





Part Description	Part Number
1 Top Sub	LR-QL50A-01
2 "O" Ring of Top Sub	LR-QL50A-02
3 Check Valve	LR-QL50A-03
4 Spring	LR-QL50A-04
5 Air Distributor	LR-QL50A-05
6 Internal Cylinder	LR-QL50A-06
7 Piston	LR-QL50A-07
8 External Cylinder	LR-QL50A-08
9 Guided Sleeve	LR-QL50A-09
10 "O" Ring of Stop Ring	LR-QL50A-10
11 Stop Ring	LR-QL50A-11
12 Drive Chuck	LR-QL50A-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL50	API 2 3/8" Reg API 3 1/2" Reg	Φ135-152mm	1090mm	67Kg	10-25Bar	10.8	20.1

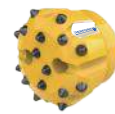
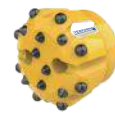


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	140	5 1/2	Φ18*7	Φ14*3	Φ15*4	/	Convex Face	15.1	LR-QL50-140CV
	140	5 1/2	Φ16*8	Φ14*8	/	/	Flat Face	15.3	LR-QL50-140FF
	146	5 3/4	Φ18*8	Φ15*8	/	/	Flat Face	15.9	LR-QL50-146FF
	146	5 3/4	Φ18*8	Φ15*4	/	Φ14*3	Concave Face	15.8	LR-QL50-146CC
	152	6	Φ18*8	Φ15*8	/	/	Flat Face	16.4	LR-QL50-152FF
	152	6	Φ18*8	Φ16*4	/	Φ14*4	Concave Face	16.2	LR-QL50-152CC

Part Description	Part Number
1 Top Sub	LR-DHD360-01
2 "O" Ring of Top Sub	LR-DHD360-02
3 Check Valve	LR-DHD360-03
4 Spring	LR-DHD360-04
5 Compression Buffer	LR-DHD360-05
6 Air Distributor	LR-DHD360-06
7 Internal Cylinder	LR-DHD360-07
8 Piston	LR-DHD360-08
9 External Cylinder	LR-DHD360-09
10 Guided Sleeve	LR-DHD360-10
11 "O" Ring of Stop Ring	LR-DHD360-11
12 Stop Ring	LR-DHD360-12
13 Drive Chuck	LR-DHD360-13



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD360 COP64	API 3 1/2" Reg	Φ165-190mm	1263mm	113Kg	10-25Bar	15.8	27.5



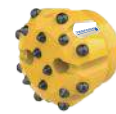
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	24.6	LR-DHD360-1-DHD360FF	
165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	24.4	LR-DHD360-1-DHD360CV	
165	5 1/2	Φ18*8	Φ16*4	/	Φ15*4	Concave Face	24.1	LR-DHD360-1-DHD360CC	
171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.8	LR-DHD360-171CC	
178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	25.4	LR-DHD360-178CC	
190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	26.9	LR-DHD360-190CC	





Part Description	Part Number
1 Top Sub	LR-QL60-01
2 "O" Ring of Top Sub	LR-QL60-02
3 Check Valve	LR-QL60-03
4 Spring	LR-QL60-04
5 Compression Buffer	LR-QL60-05
6 Air Distributor	LR-QL60-06
7 Internal Cylinder	LR-QL60-07
8 Piston	LR-QL60-08
9 External Cylinder	LR-QL60-09
10 Guided Sleeve	LR-QL60-10
11 "O" Ring of Stop Ring	LR-QL60-11
12 Stop Ring	LR-QL60-12
13 Drive Chuck	LR-QL60-13

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL60 COP64	API 3 1/2" Reg	Φ165-190mm	1212mm	95Kg	10-25Bar	15.8	27.5

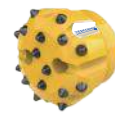
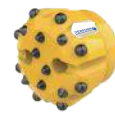


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	23.8	LR-QL60-165FF
	165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	23.6	LR-QL60-165CV
	165	5 1/2	Φ18*8	Φ16*4	/	Φ15*4	Concave Face	23.3	LR-QL60-165CC
	171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.0	LR-QL60-171CC
	178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.6	LR-QL60-178CC
	190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	26.1	LR-QL60-190CC

Part Description	Part Number
1 Top Sub	LR-M60-01
2 "O" Ring of Top Sub	LR-M60-02
3 Check Valve	LR-M60-03
4 Spring	LR-M60-04
5 Air Distributor	LR-M60-05
6 Internal Cylinder	LR-M60-06
7 Piston	LR-M60-07
8 External Cylinder	LR-M60-08
9 Guided Sleeve	LR-M60-09
10 "O" Ring of Stop Ring	LR-M60-10
11 Stop Ring	LR-M60-11
12 Drive Chuck	LR-M60-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
Mission60	API 3 1/2" Reg	Φ165-190mm	1161mm	104Kg	10-25Bar	14.22	24.75



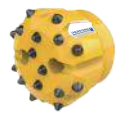
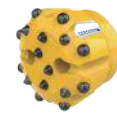
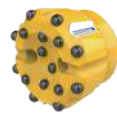
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	21.6	LR-M60-165FF	
165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	21.4	LR-M60-165CV	
165	5 1/2	Φ18*8	Φ16*6	/	Φ15*4	Concave Face	21.1	LR-M60-165CC	
171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	21.8	LR-M60-171CC	
178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	22.4	LR-M60-178CC	
190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	23.9	LR-M60-190CC	





Part Description	Part Number
1 Top Sub	LR-SD6-01
2 "O" Ring of Top Sub	LR-SD6-02
3 Check Valve	LR-SD6-03
4 Spring	LR-SD6-04
5 Compression Buffer	LR-SD6-05
6 Air Distributor	LR-SD6-06
7 Internal Cylinder	LR-SD6-07
8 Piston	LR-SD6-08
9 External Cylinder	LR-SD6-09
10 Guided Sleeve	LR-SD6-10
11 "O" Ring of Stop Ring	LR-SD6-11
12 Stop Ring	LR-SD6-12
13 Drive Chuck	LR-SD6-13

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
SD6	API 3 1/2" Reg	Φ152-190mm	1261mm	100Kg	10-25Bar	15.8	27.5

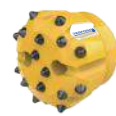
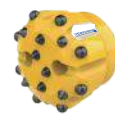


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	26.3	LR-SD6-165FF
	165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	26.1	LR-SD6-165CV
	165	5 1/2	Φ18*8	Φ16*4	/	Φ15*4	Concave Face	25.8	LR-SD6-165CC
	171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	26.5	LR-SD6-171CC
	178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	27.1	LR-SD6-178CC
	190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	28.6	LR-SD6-190CC

Part Description	Part Number
1 Top Sub	LR-DHD360A-01
2 "O" Ring of Top Sub	LR-DHD360A-02
3 Check Valve	LR-DHD360A-03
4 Spring	LR-DHD360A-04
5 Air Distributor	LR-DHD360A-05
6 Internal Cylinder	LR-DHD360A-06
7 Piston	LR-DHD360A-07
8 External Cylinder	LR-DHD360A-08
9 Guided Sleeve	LR-DHD360A-09
10 "O" Ring of Stop Ring	LR-DHD360A-10
11 Stop Ring	LR-DHD360A-11
12 Drive Chuck	LR-DHD360A-12



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD360A COP64A	API 3 1/2" Reg	Φ165-190mm	1238mm	112Kg	10-25Bar	14.22	24.8



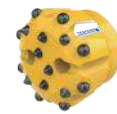
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	24.6	LR-DHD360-165FF	
165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	24.4	LR-DHD360-165CV	
165	5 1/2	Φ18*8	Φ16*4	/	Φ15*4	Concave Face	24.1	LR-DHD360-165CC	
171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.8	LR-DHD360-171CC	
178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	25.4	LR-DHD360-178CC	
190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	26.9	LR-DHD360-190CC	





Part Description	Part Number
1 Top Sub	LR-QL60A-01
2 "O" Ring of Top Sub	LR-QL60A-02
3 Check Valve	LR-QL60A-03
4 Spring	LR-QL60A-04
5 Air Distributor	LR-QL60A-05
6 Internal Cylinder	LR-QL60A-06
7 Piston	LR-QL60A-07
8 External Cylinder	LR-QL60A-08
9 Guided Sleeve	LR-QL60A-09
10 "O" Ring of Stop Ring	LR-QL60A-10
11 Stop Ring	LR-QL60A-11
12 Drive Chuck	LR-QL60A-12

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL60A	API 3 1/2" Reg	Φ165-190mm	1183mm	92Kg	10-25Bar	14.22	24.75

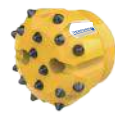
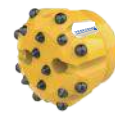


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	165	5 1/2	Φ18*8	Φ16*8	/	/	Flat Face	23.8	LR-QL60-165FF
	165	5 1/2	Φ18*8	Φ16*4	Φ16*4	/	Convex Face	23.6	LR-QL60-165CV
	165	5 1/2	Φ18*8	Φ16*4	/	Φ15*4	Concave Face	23.3	LR-QL60-165CC
	171	6 3/4	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.0	LR-QL60-171CC
	178	7	Φ18*8	Φ16*6	/	Φ16*4	Concave Face	24.6	LR-QL60-178CC
	190	7 1/2	Φ18*10	Φ16*8	/	Φ16*5	Concave Face	26.1	LR-QL60-190CC

Part Description	Part Number
1 Top Sub	LR-DHD380-01
2 "O" Ring of Top Sub	LR-DHD380-02
3 Breakout Ring of Top Sub	LR-DHD380-03
4 Check Valve	LR-DHD380-04
5 Spring	LR-DHD380-05
6 Compression Buffer	LR-DHD380-06
7 Air Distributor	LR-DHD380-07
8 Internal Cylinder	LR-DHD380-08
9 Piston	LR-DHD380-09
10 External Cylinder	LR-DHD380-10
11 "O" Ring of Stop Ring	LR-DHD380-11
12 Stop Ring	LR-DHD380-12
13 Drive Chuck	LR-DHD380-13



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
DHD380 COP84	API 4 1/2" Reg	Φ195-254mm	1492mm	188Kg	10-25Bar	14Bar	24Bar
						20.75	43.6

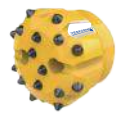
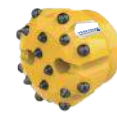
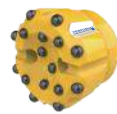


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	LR-DHD380-203CC		
216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-DHD380-216CC		
219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-DHD380-219CC		
229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-DHD380-229CC		
235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-DHD380-235CC		
245	9 5/8	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	LR-DHD380-245CC		



Part Description	Part Number
1 Top Sub	LR-QL80-01
2 "O" Ring of Top Sub	LR-QL80-02
3 Breakout Ring of Top Sub	LR-QL80-03
4 Check Valve	LR-QL80-04
5 Spring	LR-QL80-05
6 Compression Buffer	LR-QL80-06
7 Air Distributor	LR-QL80-07
8 Internal Cylinder	LR-QL80-08
9 Piston	LR-QL80-09
10 External Cylinder	LR-QL80-10
11 Guided Sleeve	LR-QL80-11
12 "O" Ring of Stop Ring	LR-QL80-12
13 Stop Ring	LR-QL80-13
14 Breakout Ring of Drive Chuck	LR-QL80-14
15 Drive Chuck	LR-QL80-15

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL80	API 4 1/2" Reg	Φ195-254mm	1471mm	203Kg	10-25Bar	20.7	43.6

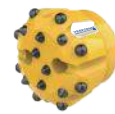


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	50.1	LR-QL80-203CC
	216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	54.3	LR-QL80-216CC
	219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	54.8	LR-QL80-219CC
	229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	56.4	LR-QL80-229CC
	235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	57.4	LR-QL80-235CC
	245	9 2/3	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	61.5	LR-QL80-245CC

Part Description	Part Number
1 Top Sub	LR-M80-01
2 "O" Ring of Top Sub	LR-M80-02
3 Breakout Ring of Top Sub	LR-M80-03
4 Check Valve	LR-M80-04
5 Spring	LR-M80-05
6 Compression Buffer	LR-M80-06
7 Air Distributor	LR-M80-07
8 Internal Cylinder	LR-M80-08
9 Piston	LR-M80-09
10 External Cylinder	LR-M80-10
11 Guided Sleeve	LR-M80-11
12 Retaining Ring	LR-M80-12
13 "O" Ring of Drive Chuck	LR-M80-13
14 Stop Ring	LR-M80-14
15 Breakout Ring of Stop Ring	LR-M80-15
16 Drive Chuck	LR-M80-16



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
Mission80	API 4 1/2" Reg	Φ195-254mm	1345mm	186Kg	10-25Bar	16.60	34.88

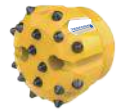
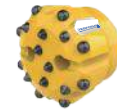
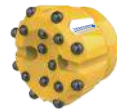


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	LR-M80-203CC		
216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-M80-216CC		
219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-M80-219CC		
229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-M80-229CC		
235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-M80-235CC		
245	9 5/8	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	LR-M80-245CC		



Part Description	Part Number
1 Top Sub	LR-SD8-01
2 "O" Ring of Top Sub	LR-SD8-02
3 Breakout Ring of Top Sub	LR-SD8-03
4 Check Valve	LR-SD8-04
5 Spring	LR-SD8-05
6 Compression Buffer	LR-SD8-06
7 Air Distributor	LR-SD8-07
8 Internal Cylinder	LR-SD8-08
9 Piston	LR-SD8-09
10 External Cylinder	LR-SD8-10
11 "O" Ring of Stop Ring	LR-SD8-11
12 Stop Ring	LR-SD8-12
13 Guided Sleeve	LR-SD8-13
14 Drive Chuck	LR-SD8-14

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
SD8	API 4 1/2" Reg	Φ195-254mm	1463mm	192Kg	10-25Bar	20.75	43.6

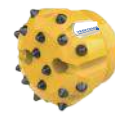
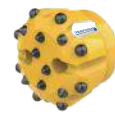


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	40.1	LR-SD8-203CC
	216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	44.3	LR-SD8-216CC
	219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	44.8	LR-SD8-219CC
	229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	46.4	LR-SD8-229CC
	235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	47.4	LR-SD8-235CC
	245	9 2/3	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	51.5	LR-SD8-245CC

Part Description	Part Number
1 Top Sub	LR-DHD380A-01
2 "O" Ring of Top Sub	LR-DHD380A-02
3 Breakout Ring of Top Sub	LR-DHD380A-03
4 Check Valve	LR-DHD380A-04
5 Spring	LR-DHD380A-05
6 Air Distributor	LR-DHD380A-06
7 Internal Cylinder	LR-DHD380A-07
8 Piston	LR-DHD380A-08
9 External Cylinder	LR-DHD380A-09
10 Guided Sleeve	LR-DHD380A-10
11 "O" Ring of Stop Ring	LR-DHD380A-11
12 Stop Ring	LR-DHD380A-12
13 Breakout Ring of Drive Chuck	LR-DHD380A-13
14 Drive Chuck	LR-DHD380A-14



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
DHD380A COP84A	API 4 1/2" Reg	Φ195-254mm	1359mm	187Kg	10-25Bar	18.67	39.24

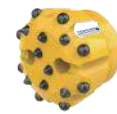


Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	LR-DHD380-203CC		
216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-DHD380-216CC		
219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	LR-DHD380-219CC		
229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-DHD380-229CC		
235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	LR-DHD380-235CC		
245	9 5/8	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	LR-DHD380-245CC		



Part Description	Part Number
1 Top Sub	LR-QL80A-01
2 "O" Ring of Top Sub	LR-QL80A-02
3 Breakout Ring of Top Sub	LR-QL80A-03
4 Check Valve	LR-QL80A-04
5 Spring	LR-QL80A-05
6 Air Distributor	LR-QL80A-06
7 Internal Cylinder	LR-QL80A-07
8 Piston	LR-QL80A-08
9 External Cylinder	LR-QL80A-09
10 Guided Sleeve	LR-QL80A-10
11 "O" Ring of Stop Ring	LR-QL80A-11
12 Stop Ring	LR-QL80A-12
13 Breakout Ring of Drive Chuck	LR-QL80A-13
14 Drive Chuck	LR-QL80A-14

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
QL80A	API 4 1/2" Reg	Φ195-254mm	1330mm	182Kg	10-25Bar	18.67	29.24

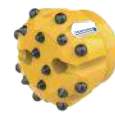


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	203	8	Φ18*10	Φ18*8	/	Φ16*5	Concave Face	50.1	LR-QL80-203CC
	216	8 1/2	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	54.3	LR-QL80-216CC
	219	8 5/8	Φ18*10	Φ18*8	/	Φ16*6	Concave Face	54.8	LR-QL80-219CC
	229	9	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	56.4	LR-QL80-229CC
	235	9 1/4	Φ18*12	Φ16*12	/	Φ16*7	Concave Face	57.4	LR-QL80-235CC
	245	9 2/3	Φ19*12	Φ16*12	/	Φ16*8	Concave Face	61.5	LR-QL80-245CC

Part Description	Part Number
1 Top Sub	LR-N100-01
2 "O" Ring of Top Sub	LR-N100-02
3 Breakout Ring of Top Sub	LR-N100-03
4 Check Valve	LR-N100-04
5 Spring	LR-N100-05
6 Air Distributor	LR-N100-06
7 Internal Cylinder	LR-N100-07
8 Piston	LR-N100-08
9 External Cylinder	LR-N100-09
10 Retaining Ring	LR-N100-10
11 "O" Ring of Stop Ring	LR-N100-11
12 Stop Ring	LR-N100-12
13 Breakout Ring of Stop Ring	LR-N100-13
14 Drive Chuck	LR-N100-14



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
NUMA100	API 4 1/2" Reg API 5 1/2" Reg	Φ254-305mm	1441mm	308Kg	10-25Bar	24.75	50.94



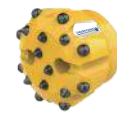
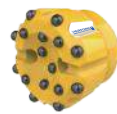
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
254	10	Φ19*12	Φ16*12	Φ18*8	Φ16*6	Concave Face	88.4	LR-N100-254CC	
275	10 5/6	Φ19*12	Φ16*12	Φ18*8	Φ16*8	Concave Face	92.5	LR-N100-275CC	
305	12	Φ19*15	Φ18*15	Φ18*12	Φ16*9	Concave Face	105.0	LR-N100-305CC	





Part Description	Part Number
1 Top Sub	LR-SD10-01
2 "O" Ring of Top Sub	LR-SD10-02
3 Breakout Ring of Top Sub	LR-SD10-03
4 Check Valve	LR-SD10-04
5 Spring	LR-SD10-05
6 Air Distributor	LR-SD10-06
7 Internal Cylinder	LR-SD10-07
8 Piston	LR-SD10-08
9 External Cylinder	LR-SD10-09
10 Retaining Ring	LR-SD10-10
11 "O" Ring of Stop Ring	LR-SD10-11
12 Stop Ring	LR-SD10-12
13 Guided Sleeve	LR-SD10-13
14 Breakout Ring of Stop Ring	LR-SD10-14
15 Drive Chuck	LR-SD10-15

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
SD10	API 4 1/2" Reg API 5 1/2" Reg	Φ254-305mm	1413mm	303Kg	10-25Bar	26.72	55.0

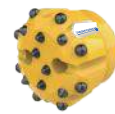


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	254	10	Φ19*12	Φ16*12	/	Φ18*8	Concave Face	82.1	LR-SD10-254CC
	275	10 5/6	Φ19*12	Φ16*12	/	Φ18*8	Concave Face	86.2	LR-SD8-275CC
	305	12	Φ19*15	Φ18*15	/	Φ18*12	Concave Face	98.7	LR-SD8-305CC

Part Description	Part Number
1 Top Sub	LR-N100A-01
2 "O" Ring of Top Sub	LR-N100A-02
3 Breakout Ring of Top Sub	LR-N100A-03
4 Check Valve	LR-N100A-04
5 Spring	LR-N100A-05
6 Air Distributor	LR-N100A-06
7 Internal Cylinder	LR-N100A-07
8 Piston	LR-N100A-08
9 External Cylinder	LR-N100A-09
10 Retaining Ring	LR-N100A-10
11 Guided Sleeve	LR-N100A-11
12 "O" Ring of Stop Ring	LR-N100A-12
13 Stop Ring	LR-N100A-13
14 Breakout Ring of Stop Ring	LR-N100A-14
15 Drive Chuck	LR-N100A-15



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
NUMA100A	API 4 1/2" Reg API 5 1/2" Reg	Φ254-305mm	1536mm	308Kg	10-25Bar	24.75	50.94



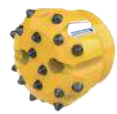
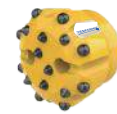
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
254	10	Φ19*12	Φ16*12	Φ18*8	Φ16*6	Concave Face	88.4	LR-N100-254CC	
275	10 5/6	Φ19*12	Φ16*12	Φ18*8	Φ16*8	Concave Face	92.5	LR-N100-275CC	
305	12	Φ19*15	Φ18*15	Φ18*12	Φ16*9	Concave Face	105.0	LR-N100-305CC	





Part Description	Part Number
1 Top Sub	LR-N125A-01
2 "O" Ring of Top Sub	LR-N125A-02
3 Breakout Ring of Top Sub	LR-N125A-03
4 Check Valve	LR-N125A-04
5 Spring	LR-N125A-05
6 Air Distributor	LR-N125A-06
7 Internal Cylinder	LR-N125A-07
8 Piston	LR-N125A-08
9 External Cylinder	LR-N125A-09
10 Guided Sleeve	LR-N125A-10
11 "O" Ring of Stop Ring	LR-N125A-11
12 Stop Ring	LR-N125A-12
13 Breakout Ring of Stop Ring	LR-N125A-13
14 Retainer	LR-N125A-14
15 Drive Chuck	LR-N125A-15

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
NUMA125A	API 6 5/8" Reg	Φ305-455mm	1956mm	578Kg	10-25Bar	32.94	54.54

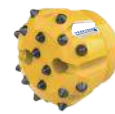
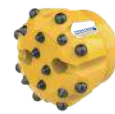


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	305	12	Φ18*27	Φ18*15	/	Φ16*11	Concave Face	182.0	LR-N125-305CC
	315	12 2/5	Φ18*27	Φ18*15	/	Φ16*12	Concave Face	206.0	LR-N125-315CC
	325	12 4/5	Φ18*27	Φ18*15	/	Φ16*15	Concave Face	209.0	LR-N125-325CC
	350	13 7/9	Φ18*27	Φ18*24	/	Φ16*12	Concave Face	228.0	LR-N125-350CC

Part Description	Part Number
1 Top Sub	LR-SD12-01
2 "O" Ring of Top Sub	LR-SD12-02
3 Breakout Ring of Top Sub	LR-SD12-03
4 Check Valve	LR-SD12-04
5 Spring	LR-SD12-05
6 Air Distributor	LR-SD12-06
7 Internal Cylinder	LR-SD12-07
8 Piston	LR-SD12-08
9 External Cylinder	LR-SD12-09
10 Retaining Ring	LR-SD12-10
11 "O" Ring of Stop Ring	LR-SD12-11
12 Stop Ring	LR-SD12-12
13 Guided Sleeve	LR-SD12-13
14 Breakout Ring of Stop Ring	LR-SD12-14
15 Drive Chuck	LR-SD12-15



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
SD12	API 6 5/8" Reg	Φ305-445mm	1680mm	526Kg	10-25Bar	36.6	60.60



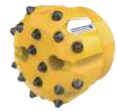
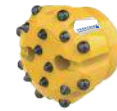
Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
305	12	Φ18*27	Φ18*15	/	Φ16*11	Concave Face	105.0	LR-SD12-305CC	
315	12 2/5	Φ18*27	Φ18*15	/	Φ16*12	Concave Face	129.0	LR-SD12-315CC	
325	12 4/5	Φ18*27	Φ18*15	/	Φ16*15	Concave Face	132.0	LR-SD12-325CC	
350	13 7/9	Φ18*27	Φ18*24	/	Φ16*12	Concave Face	151.0	LR-SD12-350CC	





Part Description	Part Number
1 "O" Ring of Top Sub I	LR-N180-01
2 Top Sub	LR-N180-02
3 "O" Ring of Top Sub II	LR-N180-03
4 Breakout Ring of Top Sub	LR-N180-04
5 Check Valve	LR-N180-05
6 Spring	LR-N180-06
7 Breakout Ring of Compression Buffer	LR-N180-07
8 Compression Buffer	LR-N180-08
9 Air Distributor	LR-N180-09
10 "O" Ring of Air Distributor	LR-N180-10
11 Internal Cylinder	LR-N180-11
12 Piston	LR-N180-12
13 External Cylinder	LR-N180-13
14 Guided Sleeve	LR-N180-14
15 Retaining Ring	LR-N180-15
16 "O" Ring of Stop Ring	LR-N180-16
17 Stop Ring	LR-N180-17
18 Breakout Ring of Stop Ring	LR-N180-18
19 Drive Chuck	LR-N180-19

Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
						14Bar	24Bar
NUMA180	API 7 5/8" Reg Customized by client is available	Φ450-600mm	2373mm	1551Kg	10-25Bar	61.12	105.6

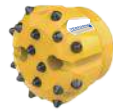
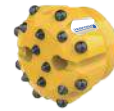


Product Pictures	Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight (KG)	Part Number
	mm	Inch		Flat Face	Convex Face	Concave Face	Face Type		
	480	18 8/9	Φ20*40	Φ18*28	Φ18*12	Φ18*26	Concave Face	415.0	LR-N180-480CC
	530	20 7/8	Φ20*44	Φ18*44	Φ18*12	Φ18*28	Concave Face	464.0	LR-N180-530CC
	600	23 5/8	Φ20*44	Φ18*52	Φ18*24	Φ18*28	Concave Face	542.0	LR-N180-600CC

Part Description	Part Number
1 Top Sub	LR-N240-01
2 "O" Ring of Top Sub	LR-N240-02
3 Breakout Ring of Top Sub	LR-N240-03
4 Top Sub Pin	LR-N240-04
5 Check Valve	LR-N240-05
6 Spring	LR-N240-06
7 Check Valve Sleeve	LR-N240-07
8 Nylon Base Plate	LR-N240-08
9 Plunger	LR-N240-09
10 AD Tube	LR-N240-10
11 Piston	LR-N240-11
12 External Cylinder	LR-N240-12
13 Guided Sleeve	LR-N240-13
14 Retaining Ring	LR-N240-14
15 "O" Ring of Stop Ring	LR-N240-15
16 Stop Ring	LR-N240-16
17 Breakout Ring of Stop Ring	LR-N240-17
18 Retainer pin	LR-N240-18
19 Retainer	LR-N240-19
20 Drive Chuck	LR-N240-20
21 Nylon Base Plate	LR-N240-21



Bit Shank	Connection Thread	Hole Range	Length	Weight	Working Pressure	Air Consumption m ³ /min	
NUMA240	API 8 5/8" Reg Customized by client is available	Φ550-750mm	2175mm	2300Kg	10-25Bar	14Bar 70.0	24Bar 120.0



Diameter		Gauge Buttons (mm)	Front Buttons(mm)				Weight(KG)	Part Number	Product Pictures
mm	Inch		Flat Face	Convex Face	Concave Face	Face Type			
600	23 5/8	Φ20*44	Φ18*52	Φ18*24	Φ18*28	Concave Face	862.0	LR-N240-600CC	
660	26	Φ20*44	Φ19*64	Φ20*24	Φ28*37	Concave Face	939.0	LR-N240-660CC	
720	28 1/3	Φ20*44	Φ19*84	Φ20*24	Φ18*37	Concave Face	1047.0	LR-N240-720CC	





No.	API REG
1	2 3/8" API REG
2	2 7/8" API REG
3	3 1/2" API REG
4	4 1/2" API REG
5	5 1/2" API REG
6	6 5/8" API REG

No.	NC/API IF	
1	NC23	
2	NC26	2 3/8" API IF
3	NC31	2 7/8" API IF
4	NC35	
5	NC38	3 1/2" API IF
6	NC40	4" API IF
7	NC46	
8	NC50	4 1/2" API IF

No.	BECO
1	3" BECO
2	3 1/2" BECO
3	4" BECO
4	4 1/2" BECO
5	5 1/4" BECO
6	6" BECO
7	8" BECO
8	10" BECO

Diameter (mm)	Wall Thickness (mm)	Length (mm)	Thread	
76	4-8mm	1000-6000	2 3/8" API REG	2 3/8" API IF NC26
89	4-10mm	1000-9000	2 3/8" API REG	2 3/8" API IF NC26
102	8-10mm	1000-9000	2 7/8" API REG/3 1/2" API REG	2 7/8" API IF NC31
114	6-12mm	1500-9000	2 7/8" API REG/3 1/2" API REG	2 7/8" API IF NC31/NC35
127	9-12mm	1500-9000	3 1/2" API REG	3 1/2" API IF NC38
140	8-19mm	3000-9000	4 1/2" API REG or 4 IF	4" API IF NC46
152	12-19mm	3000-9000	4 1/2" API REG or 4 IF	thread types are available upon request
159	12-19mm	3000-9000	4 1/2" API REG or 4 IF	thread types are available upon request
178	12-19mm	3000-9000	5 1/2" API FH	thread types are available upon request
194	12-19mm	3000-9000	6 5/8" API FH	thread types are available upon request

Breakout Bench



Electric Grinding Machine



Back Hammer



Grinding Cup



Adapter

