Rock Hog
Drilling Products

Product Catalog

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Rock Hog DTH Hammers

- Rock Hog's new line of High Performance "HP" DTH hammers were introduced in early 2010. They have been field tested in a variety of drilling applications around the world and have continually proven to be the industry leader. Contact your Rock Hog Sales Representative for further details.

- A valveless pneumatic percussion DTH hammer for drilling in all rock formations.

- DTH hammers are suited for any type of drilling application including, water wells, quarries, open pit and underground mining, construction, blasting, environmental, oil and gas.

- All models incorporate one moving part, the piston, making the hammers very reliable.

- All external parts are hardened to resist wear while all critical internal parts are also hardened for maximum service life.

- The designs also make the hammers easy to maintain and service.

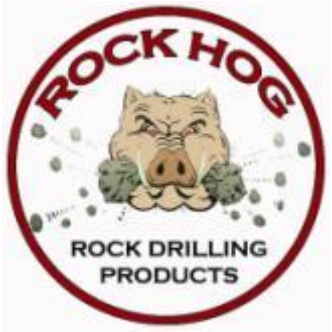
- Available in 4, 4.5, 5, 5.5, 6, 6.5, and 8 inch series

- Available for use with most popular DTH shank bits

- Various models available for different air supplies

- Various drill pipe thread connections available

DTH Hammer Models Available



Below is a list of the current models in production.
Ask your Rock Hog representative about:

+ LV models for use on smaller air supplies
+ optional drill pipe connections
+ backout buttons
+ older DTH hammer models and parts

ROCK HOG DTH HAMMER MODEL No.		Bit Shank Style	Low Volume	Heavy Duty	Regular API Pin-Up Thread Connection
4"	RH4i9	340A			2-3/8
4.5"	RH45R9HP	340A			2-3/8
5"	RH50Q1HP	QL50			3-1/2
	RH50R1HP	350R			
5.5"	RH55Q1HP	QL50			
6"	RH61Q1HP	QL60			3-1/2
*ALL 5 1/2" 6" AND 6 1/2" COME STANDARD WITH (4) BACKOUT BUTTONS					
6.5"	RH65Q1HP	QL60			3-1/2
	RH65QHD1HP	QL60		X	
8"	RH8i3	380			4-1/2
	RH8iLV3		X		
	RH8Q3	QL80			
	RH8QLV3		X		
RC Hammer					
5"	RH5RC11	R50			4-1/2 METZKE
	RH5RC12	R50			4-1/2 REMET
	RH5RC13	R50			4-1/2 MATRIX
	contact your rep for details on this hammer				

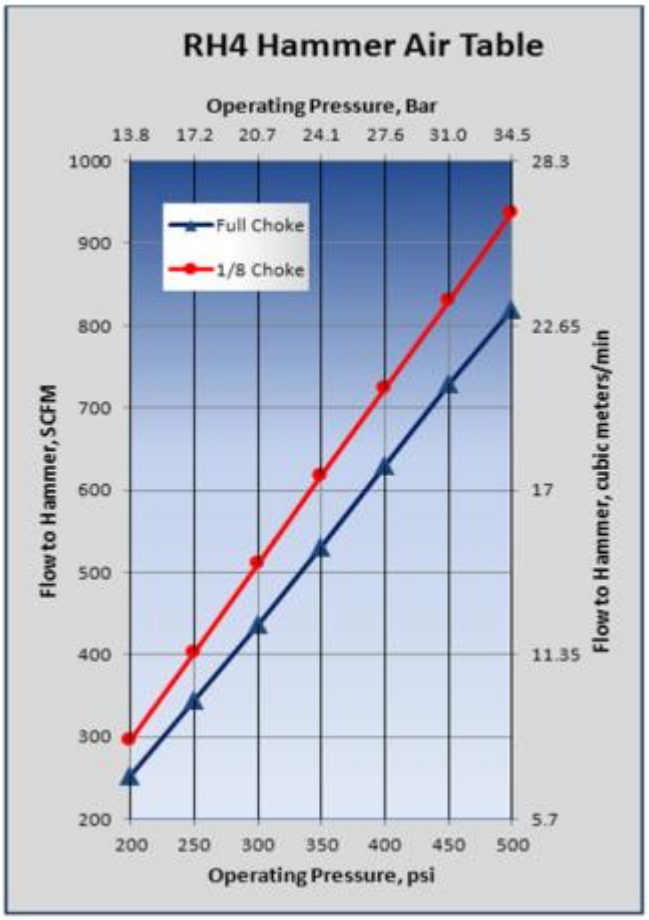
4” DTH Hammer Model

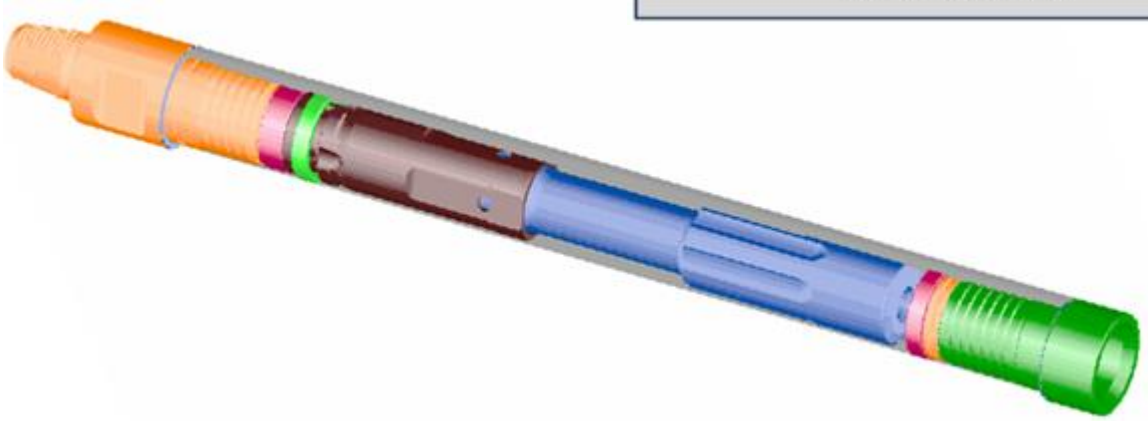
with 2-3/8 Reg API Pin-up connection

RH4i9 – uses the 340A shank DTH bit

This hammer is designed for drilling 4” and larger holes.

	English	Metric
Outside Dia	3.63 in	92.2 mm
Overall Length Without Bit	41.9 in	1064 mm
Operating Length API shoulder to Bit Face	41.9 in	1064 mm
Total Weight	82 lbs	37 kg
Bore Size	2.95 in	75 mm
Piston Weight	20 lbs	9 kg
Drillpipe Connect	2-3/8 Reg API Pin Up others available upon request	
Wrench Flats	2.95 in	75 mm
Hole Size Range	4 in to 5 1/8 in	
	127 mm to 152 mm	
Bit Shank Required	340A	
Minimum Air Volume Required	150 cfm	4.5 cmm
Maximum Operating Pressure	500 psi	34 bar





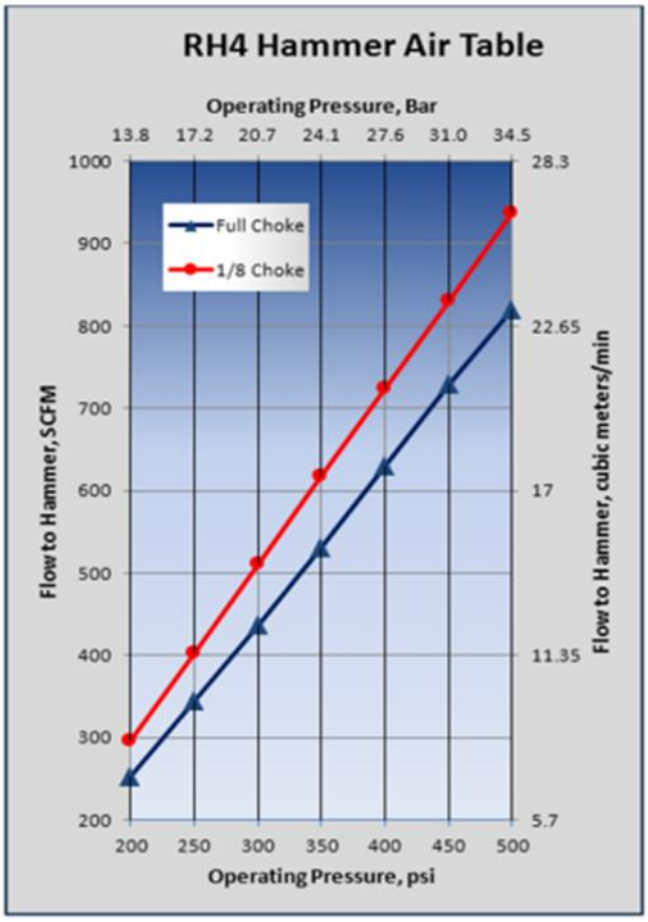
4.5” DTH “HP” Hammer Model

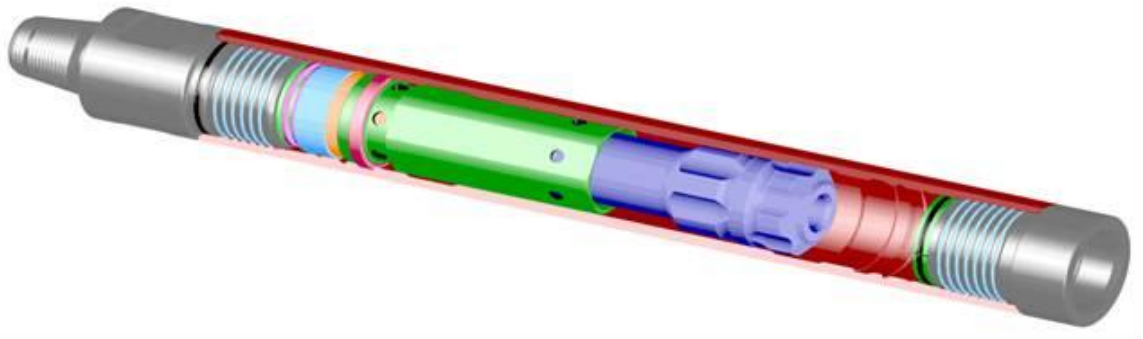
with 2-3/8 Reg API Pin-up connection

RH45R9HP – uses the 340A shank DTH bit

This hammer is designed for drilling 4 1/2” and larger holes.

	English	Metric
Outside Dia	4.00 in	101.6 mm
Overall Length Without Bit	40.7 in	1034 mm
Operating Length API shoulder to Bit Face	40.9 in	1039 mm
Total Weight	112 lbs	50 kg
Bore Size	3.28 in	83.3 mm
Piston Weight	22 lbs	10 kg
Drillpipe Connect	2-3/8 Reg API Pin Up others available upon request	
Wrench Flats	2.95 in	75 mm
Hole Size Range	4 1/2 in to 5 1/8 in	
	114 mm to 152 mm	
Bit Shank Required	340A	
Minimum Air Volume Required	150 cfm	4.5 cmm
Maximum Operating Pressure	500 psi	34 bar





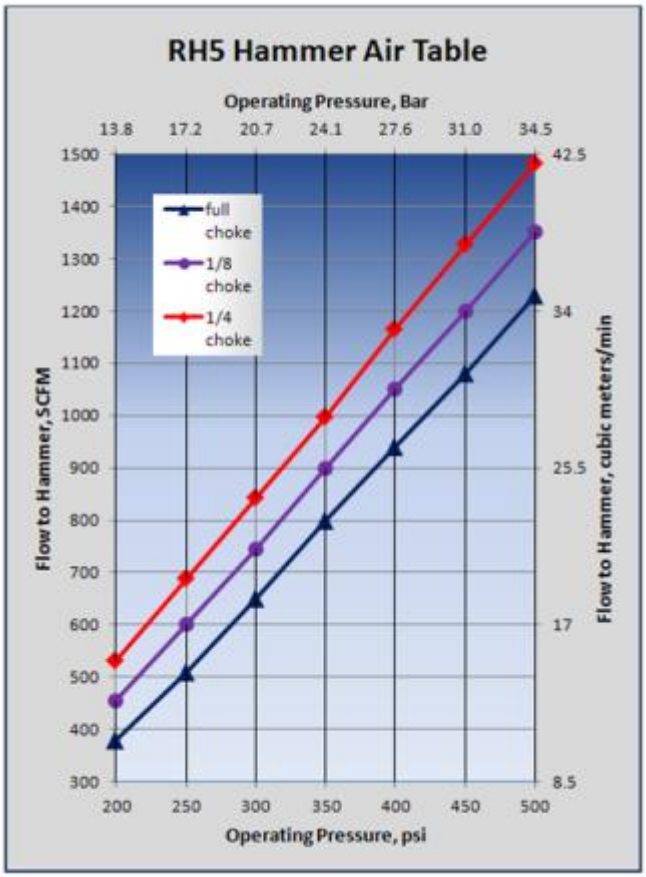
5” DTH “HP” Hammer Models

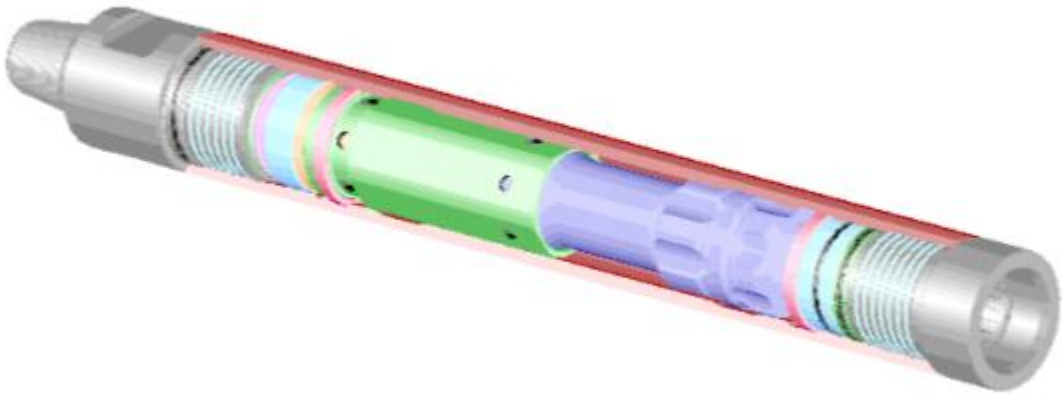
with 3-1/2 Reg API Pin-up connection

RH50Q1HP – uses the QL50 shank DTH bit
RH50R1HP – uses the 350R shank DTH bit

This hammer is designed for drilling 5” and larger holes.

	English	Metric
Outside Dia	4.53 in	115 mm
Overall Length Without Bit		
RH50Q models	47.2 in	1199 mm
RH50R models	48.2 in	1222 mm
Operating Length API shoulder to Bit Face		
RH50Q models	47.1 in	1196 mm
RH50R models	48.1 in	1222 mm
Total Weight	143 lbs	64.8 kg
Bore Size	3.71 in	94.2 mm
Piston Weight	30 lbs	13.6 kg
Drillpipe Connect	3-1/2 Reg API Pin Up others available upon request	
Wrench Flats	3.5 in	88.9 mm
Hole Size Range	5 in to 6 in 127 mm to 152 mm	
Bit Shank Required		
RH50Q models	QL50	
RH50R models	350R	
Minimum Air Volume Required	250 cfm	7 cmm
Maximum Operating Pressure	500 psi	34 bar





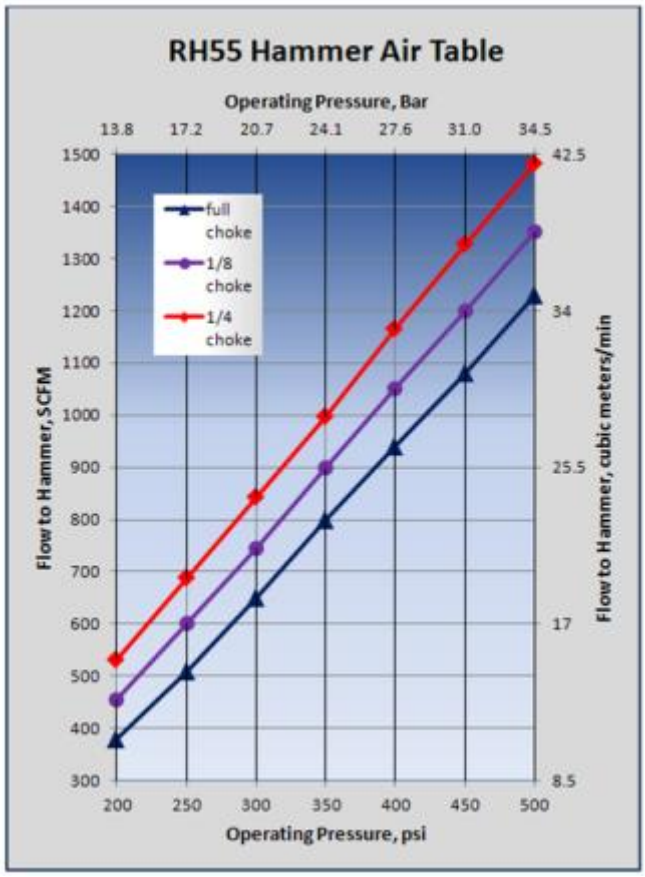
5.5” DTH “HP” Hammer Model

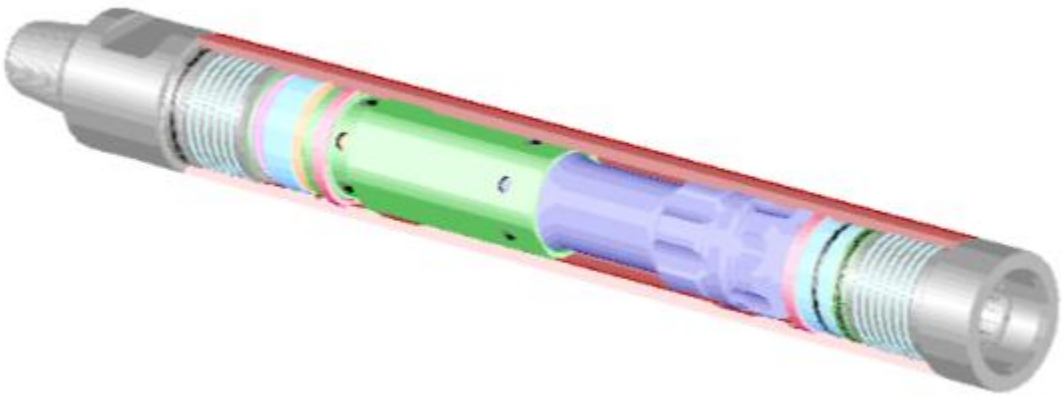
with 3-1/2 Reg API Pin-up connection

RH55Q1HP – uses the QL50 shank DTH bit

This hammer is designed for drilling 5-1/2”and larger holes.

	English	Metric
Outside Dia	5.0 in	127 mm
Overall Length Without Bit	44.7 in	1135 mm
Operating Length API shoulder to Bit Face	44.6 in	1133 mm
Total Weight	148 lbs	67.1 kg
Bore Size	4.1 in	104 mm
Piston Weight	31 lbs	14 kg
Drillpipe Connect	3-1/2 Reg API Pin Up others available upon request	
Wrench Flats	3.5 in	88.9 mm
Hole Size Range	5-1/2 in to 6 in	
	140 mm to 152 mm	
Bit Shank Required	QL50	
Minimum Air Volume Required	250 cfm	7 cmm
Maximum Operating Pressure	500 psi	34 bar





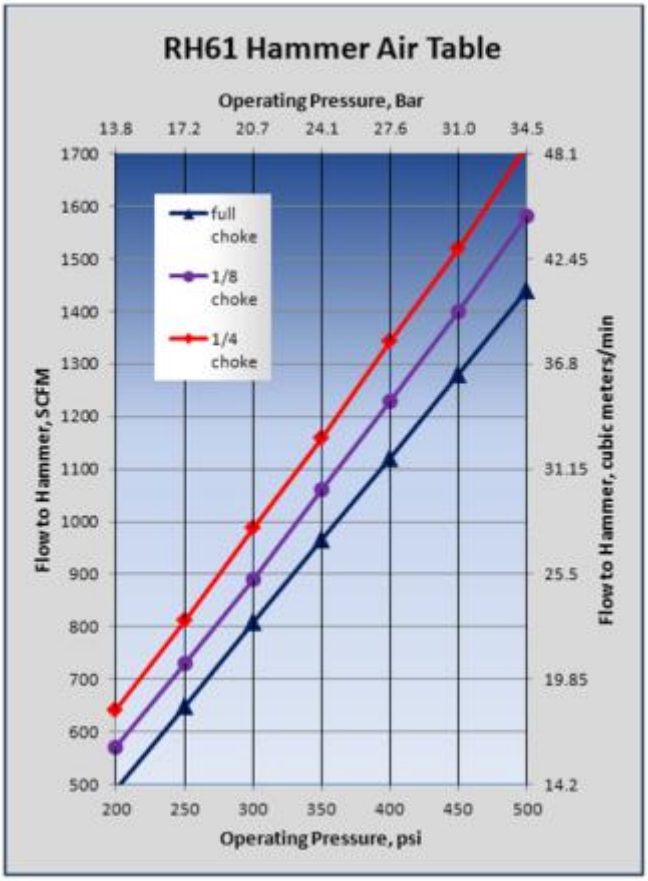
6” DTH “HP” Hammer Model

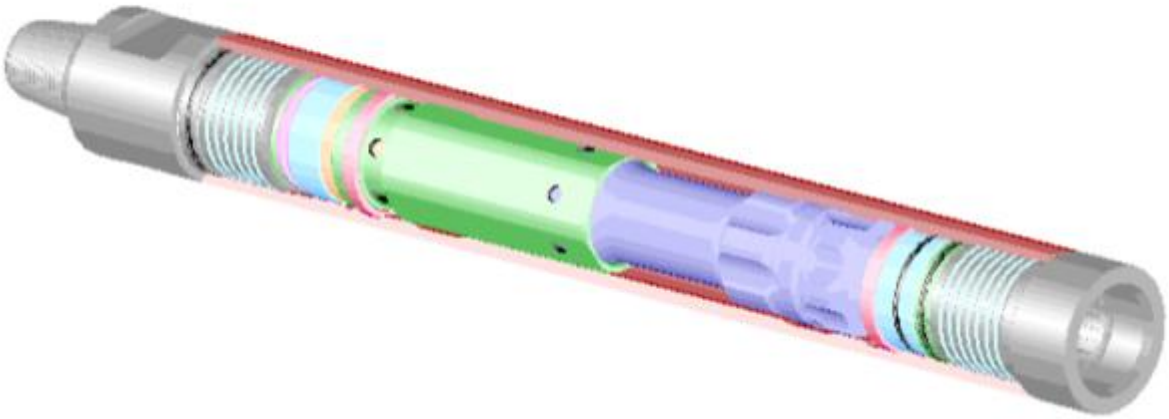
with 3-1/2 Reg API Pin-up connection

RH61Q1HP – uses the QL60 shank DTH bit

This hammer is designed for drilling 6” and larger holes.

	English	Metric
Outside Dia	5.46 in	139 mm
Overall Length Without Bit	48.1 in	1222 mm
Operating Length API shoulder to Bit Face	48.5 in	1232 mm
Total Weight	215 lbs	97.5 kg
Bore Size	4.5 in	102 mm
Piston Weight	43 lbs	19.5 kg
Drillpipe Connect	3-1/2 Reg API Pin Up others available upon request	
Wrench Flats	4 in	102 mm
Hole Size Range	6 in - 7 in	
	152 mm to 178 mm	
Bit Shank Required	QL60	
Minimum Air Volume Required	450 cfm	13 cmm
Maximum Operating Pressure	500 psi	34 bar





6.5” DTH “HP” Hammer Model

with 3-1/2 Reg API Pin-up connection

RH65Q1HP – uses the QL60 shank DTH bit

Also available in Heavy Duty (HD) models

This hammer is designed for drilling 6 1/2” and larger holes.

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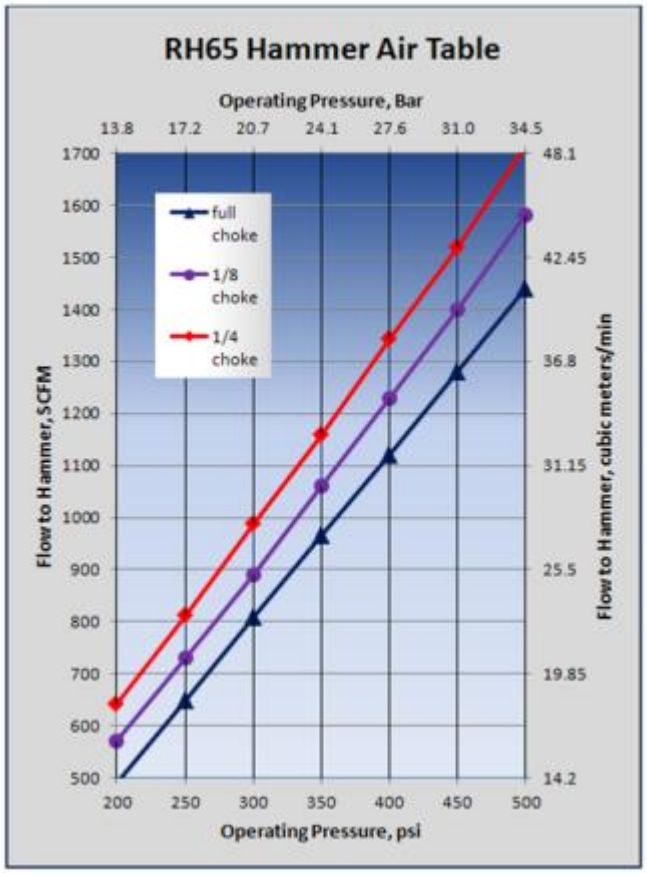
	English	Metric
Outside Dia	5.75 in	146 mm
Overall Length Without Bit	46.8 in	1189 mm
Operating Length API shoulder to Bit Face	47.2 in	1198 mm
Total Weight	251 lbs	113.8 kg
Bore Size	4.75 in	121 mm
Piston Weight	45 lbs	20.4 kg
Drillpipe Connect	3-1/2 Reg API Pin Up others available upon request	
Wrench Flats	4 in	102 mm
Hole Size Range	6-1/2 in to 7 in 165 mm to 178 mm	
Bit Shank Required	QL60	
Minimum Air Volume Required	450 cfm	13 cmm
Maximum Operating Pressure All Models	500 psi	34 bar



8” DTH Hammer Models

with 4-1/2 Reg API Pin-up connection

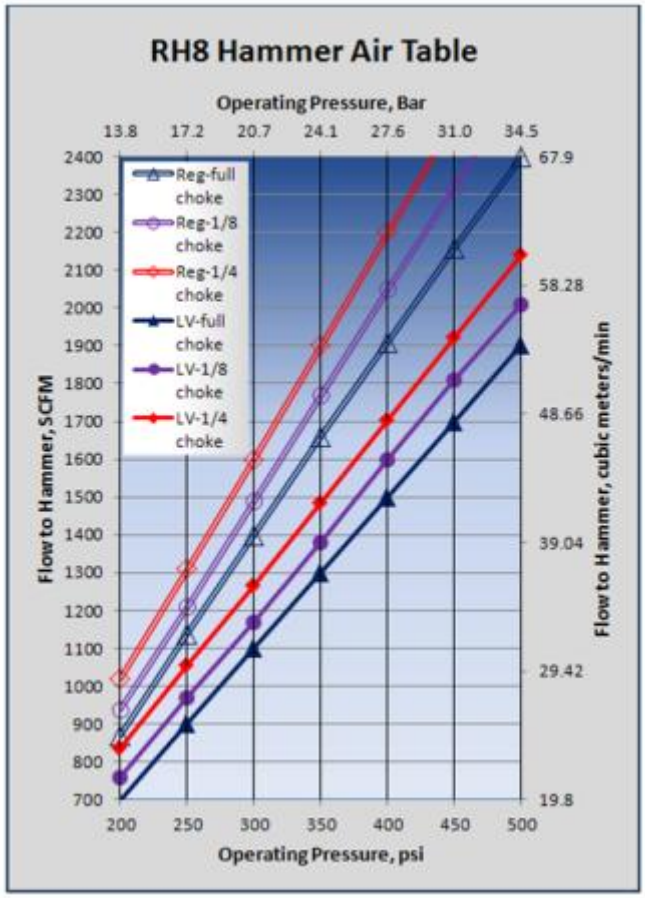
RH8i3 – uses the 380 shank DTH bit

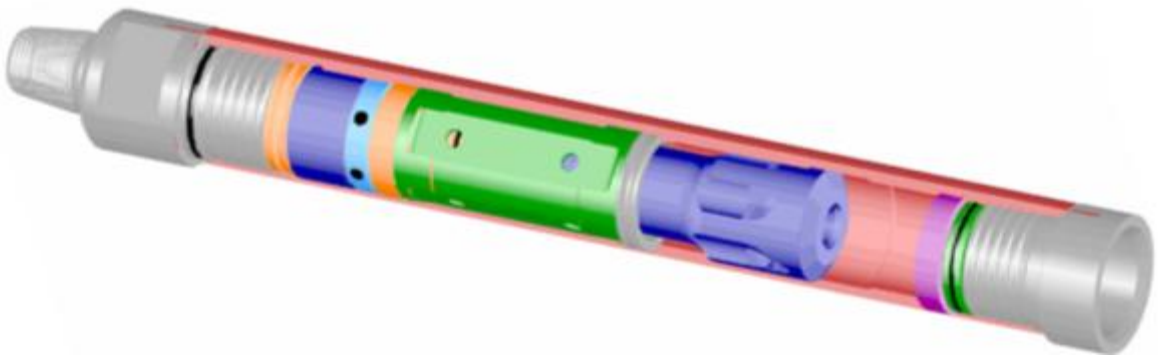
RH8Q3 – uses the QL80 shank DTH bit

Also available in low-air (LV) models

This hammer is designed for drilling 7 7/8” and larger holes.

	English	Metric
Outside Dia	7.10 in	180 mm
Overall Length Without Bit		
RH8i Models	60.7 in	1542 mm
RH8q Models	60.0 in	1524 mm
Operating Length API shoulder to Bit Face		
RH8i Models	60.8 in	1544 mm
RH8q Models	60.1 in	1526 mm
Total Weight	390 lbs	177 kg
Bore Size	5.8 in	148 mm
Piston Weight	82 lbs	37 kg
Drillpipe Connect	4-1/2 Reg API Pin Up others available upon request	
Wrench Flats	5.9 in	150 mm
Hole Size Range All Models	7-7/8 in to 10 in 200 mm to 254 mm	
Bit Shank Required		
RH8i Models	380	
RH8q Models	QL80	
Minimum Air Volume Required		
RH8 Models	900 cfm	26 cmm
RH8LV Models	500 cfm	14 cmm
Maximum Operating Pressure All Models	500 psi	34 bar





Reverse Circulation Hammers

RH5RC11 – 4 ½" Metzke box up thread connection.
RH5RC12 – 4 ½" Remet box up thread connection.
RH5RC13 – 4 ½" Matrix box up thread connection.

All Use Rock Hog's R50 shank bit

General Description

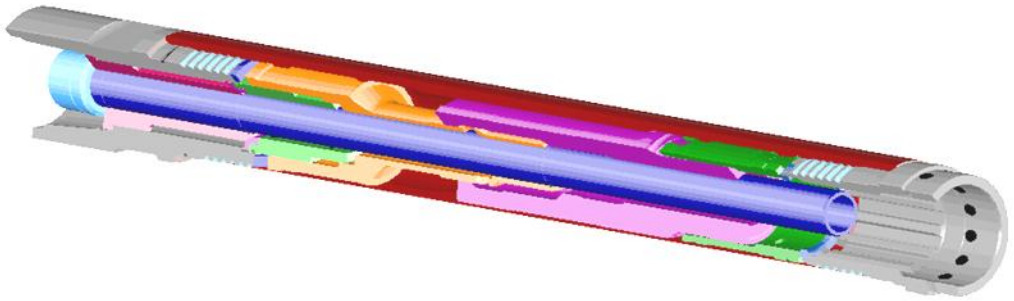
The RH5RC reverse circulation hammer is a valveless pneumatic percussion hammer for drilling in all rock formations. It is designed for exploration drilling of 5 ¼" to 5 ¾" holes. The RH5RC incorporates one moving part, the piston, making the hammer very reliable. The hammer is designed to run with Rock Hog's R50 shank bit.

Features

- 1-piece sample tube that pulls out from the top. The hammer does not need to be disassembled to replace the tube. Just disconnect the drill pipe and pull.
- Sample tube's material and heat treat are designed to give maximum service life.
- Piston cycle produces high penetration rates.
- The wear sleeve is reversible.
- Bit shrouds are easily replaced when changing bits and lock onto and rotate with the chuck.
- The shroud aids in producing an excellent sample with minimal contamination.
- Unique design makes the hammer easy to maintain and service.

Specifications

	English	Metric
Outside Dia	4.73 in	120.1 mm
Overall Length Without Bit	51 in	1295 mm
Total Weight	150 lbs	68 kg
Bore Size	3.87 in	98.3 mm
Piston Weight	28 lbs	12.7 kg
Drillpipe Connect	4-1/2 Remet 4-1/2 Metzke 1/2 Matrix	4-
Wrench Flats	3.95 in	100.3 mm
Hole Size Range	5-1/4 in to 5-3/4 in	
Bit Shank Required	R50	
Minimum Air Volume Required	750 cfm	21 cmm
Recommended Maximum Operating Pressure	500 psi	34.0 bar



ROCK HOG® DTH BITS

Rock Hog has designed and manufactured a complete line of fast penetrating and rock pulverizing down-the-hole bits for the worldwide drilling industry. By combining Rock Hog's aggressive
down-the-hole bits with Rock Hog's down-the-hole hammers, our products have become a price and performance leader for the drilling industry.

Rock Hog bits are suited for any type of drilling application including, water wells, quarries, open pit and underground mining, construction, blasting, environmental, oil and gas.

Features & Benefits

- ✔ Rock Hog engineers have developed proprietary raw material & metal treatment processes for DTH bits that are used in extremely abrasive drilling applications. These new proprietary processes for DTH bits have proven time after time to be the industry leader for extremely abrasive drilling conditions. Contact your Rock Hog Sales Representative for further details.

- ✔ Rock Hog bits are designed, engineered, and manufactured, for superior penetration while mantaining maximum cleaning action at the face of the bit, thus extending the working life of the product.

- ✔ Rock Hog bits are field tested to stringent quality requirements to provide consistent performance results in the field.

- ✔ Rock Hog bits are conditioned by a special manufacturing procedure which establishes a protective cushion on the bits, thus abating cracks which often occur in hi-impact drilling products.

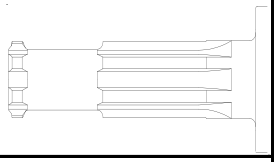
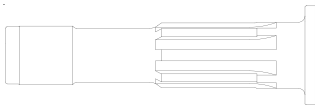
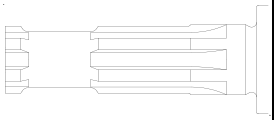
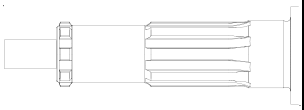
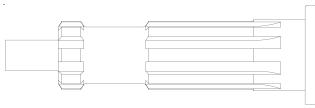
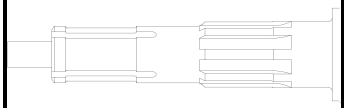
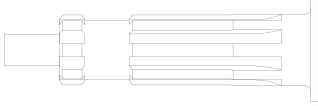
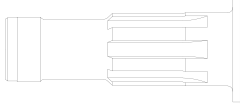
- ✔ Rock Hog bits are manufactured utilizing premium aircraft alloy steels, which provide for the longest possible product life. In addition, premium quality carbide buttons are used in all of our drill bits.

- ✔ Rock Hog bits are processed through multiple precision heat treatments that extend the product life for maximum wear and performance in the toughest drilling conditions.

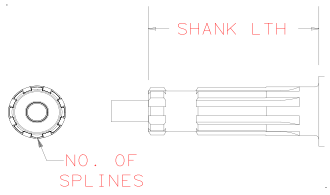
- ✔ The combination of premium steel, quality carbide, exact heat treatments, and state of the art design and manufacturing, yields a superior product capable of performing in the toughest drilling conditions.

Bit Shank Identification

These are the shank styles available and the hammer models the shanks are used with.

SHANK DESIGNATION	RH NO.	Lenght & Splines SEE CHART AT BOTTOM	Hammer Manufacturer & Model Number this Shank is used with.	
Bulroc 2	**BR2** 	Shank LTH: 6.493 No. of Splines: 6	Bulroc 2 Minroc 2	
Cop 32	**C32** 	Shank LTH: 8.455 No. of Splines: 8	Atlas Copco Cop 32	
Bulroc 3	**BR3** 	Shank LTH: 6.493 No. of Splines: 6	Bulroc 3 Boart BH 75 Minroc 3	Klemm KR-3 Bohler LH-78ZD Demag DH 90
Mach 303	**M33** 	Shank LTH: 6.69 No. of Splines: 8	Halco Mach 303	
3.5	**305** 	Shank LTH: 7.118 No. of Splines: 8	Atlas Copco 3.5 Sandvik	
3415/SD4	**341** 	Shank LTH: 10.242 No. of Splines: 8		Boart BH 40 Drillquip T4 Mission 3415/SD4 Halco Mach 44M
340A	**340** 	Shank LTH: 8.243 No. of Splines: 8	**Rock Hog RH4i9 & RH45R9HP** Atlas Copco DHD-340A and DH4 Bulroc Hyper 41 Compair-Holman Vol 400 and 401	Secoroc 44 Numa 4 Atlas Copco Cop 44
Cop42	**C42** 	Shank LTH: 7.420 No. of Splines: 7	Atlas Copco Cop 42	

SHANK DESIGNATION	RH NO.	Length & Splines SEE CHART AT BOTTOM	Hammer Manufacturer & Model Number this Shank is used with.	
QL40	**QL4**	Shank LTH: 11.00 No. of Splines: 10	Atlas Copco QL40	
Mach 40/44	**M44**	Shank LTH: 9.789 No. of Splines: 8	Halco Mach 40/44	
4315/SD5	**431**	Shank LTH: 11.619 No. of Splines: 8	Mission 4315/SD5 Drillquip T354315 & T50	Digger 5 Halco Mach 50M
350R	**350**	Shank LTH: 10.243 No. of Splines: 8	**Rock Hog RH50R1HP** Atlas Copco DHD-350R & DH5 Digger 5 Secoroc 54	Drillquip T 35350 Atlas Copco Cop 54 Compare-Holman VOL 500 Halco Mach 501R
QL50	**QL5**	Shank LTH: 9.427 No. of Splines: 12	**Rock Hog RH50Q1HP & RH55Q1HP** Atlas CopcoQL50	COP 54 GE
MACH 50	**M50**	Shank LTH: 10.450 No. of Splines: 8	Halco Mach 50	
360	**360**	Shank LTH: 12.143 No. of Splines: 8	Digger 6 Mincon 6DH-360 Compare-Holman VOL 600	Atlas Copco DHD-360, SF6, DH6, DHD-160 Secoroc 64 Drillquip T36 Numa 6 Atlas Copco COP64 Mission XL61
QL60	**QL6**	Shank LTH: 9.950 No. of Splines: 12	**Rock Hog RH61Q1HP & RH65Q1HP**	Mincon 6DH, 6DH-LV, 6BH, XP60 Atlas Copco QL60 & TD COP 64 GE

SHANK DESIGNATION	RH NO.	Length & Splines SEE CHART AT BOTTOM	Hammer Manufacturer & Model Number this Shank is used with.	
5315/SD6	**531**	Shank LTH: 12.723 No. of Splines: 8	Mission 5315/SD6 and PD6	Stenvick ADEC-6M Drillquip T3653-15 Digger 6 Halco Mach 60M Bohler LH136
MACH 60	**M60**	Shank LTH: 12.830 No. of Splines: 8	Halco Mach 60	
6315/SD8	**631**	Shank LTH: 12.673 No. of Splines: 8	Mission 6315/SD8 Drillquip T38	Atlas Copco 84LV Secoroc 84LV Halco Mach 80M and 88M Digger 7
380	**380**	Shank LTH: 13.773 No. of Splines: 10	**Rock Hog RH8I3 & RH8ILV3** Atlas Copco DHD-380 Drillquip T38 Digger 8 Mincon 8DH	Numa 8 Atlas Copco Cop 84 Secoroc 84 Halco Mach 80IR and 88IR
QL80	**QL8**	Shank LTH: 13.053 No. of Splines: 16	**Rock Hog RH8Q3 RH8QLV3** Atlas Copco QL80 Mincon MP80	COP 84 GE
		If you do not see the hammer model you are looking for, ask your Rock Hog representative about your specific needs.		

DTH Bit Face Styles

Shown here are Rock Hog's standard face designs. The number of blow holes, flushing grooves and buttons will vary depending on the size and face style of the bit.

Standard options such as larger, extra, or longer gauge buttons are available.

Special face designs are available on a made-to-order basis. Contact your Rock Hog representative for details.

CONCAVE

This is the most common face style used in the market today. The dish type face gives excellent penetration in medium and hard rock formations, while maintaining a straight hole. This face has excellent air flushing characteristics. Concave is the predominate face style for the majority of drilling conditions.

FLAT

The flat face bit, as the name implies, is flat across the bit front. This bit is very aggressive in drilling applications and is suited best for very hard rock and in hard rock with broken formation. Used primarily in blast hole work, the bit tends to lead off in deep holes. Rock Hog flat face bits come with standard face slots to aid in keeping the cutting face clean.

CONVEX

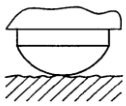
This face has been utilized in very hard drilling formations where the face of the bit tends to be prematurely worn away. The convex style tends to keep the drilling face in tact longer by drilling with the two rows of buttons on the convex face. This face style gives good hole penetration.

KAVEX

This face is a combination of convex / concave. It is recommended for abrasive formations in the hard and very hard range where other bit faces wear away quickly. The kavex is designed to provide improved cleaning of cuttings thus reducing body wear. The concave center helps drill a straight hole.

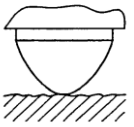
Button Shapes & Grades

DOMED (SPHERICAL or HEMI-SPHERICAL)



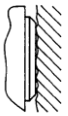
This button is the most common shape utilized in DTH Bits. This type of shape is the strongest and most resistant to breakage. The domed shape provides excellent penetration in medium rock, hard rock, broken hard rock formations, and in all types of drilling. This is the standard button that will be quoted unless specified otherwise.

BALLISTIC



Normally this button is used in less hard consolidated drilling formations. This type of button is very aggressive and drills faster than dome. However, because the ballistic tip protrudes out farther than domed, the ballistic is prone to breakage if used in the wrong formations. Care should be used when drilling with this type of button. Ballistic buttons yield high penetration rates and efficient rock breakage.

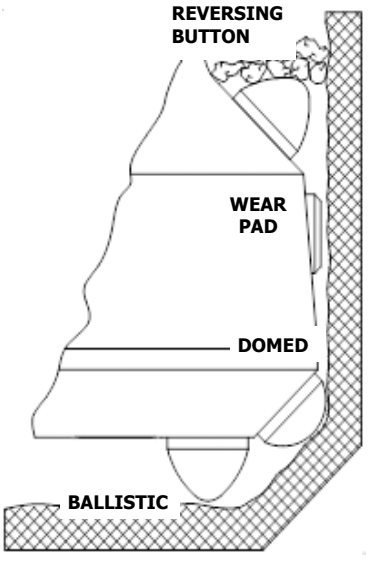
WEAR PAD (FLAT TOP BUTTONS)



Wear Pads are used in conjunction with either of the two types of buttons previously mentioned. These flat top buttons are placed on the bit skirt, behind the gauge row buttons. They are utilized to enhance bit life in areas where extreme body wear has occurred on the bit skirt.

REVERSING BUTTONS

Reversing buttons are often utilized on bits with oversized heads and on standard heads where clearance allows. The reversing buttons are used most often in broken rock formations to allow the bit to drill slowly up and out of the hole, when broken rock has fallen in behind the bit and hammer. Either ballistic or domed buttons can be used and the number of buttons is variable. This concept is also used on the backhead or topsub of the DTH hammer for the same purpose.



CARBIDE SIZE IN ROCK HOG DTH BITS

Rock Hog's engineers have chosen the best all around button size and number of buttons for each size bit. Large carbides tend to last longer, are less likely to have shear failure, and require less frequent sharpening. Smaller carbides tend to drill faster, however the sharpening interval is more frequent and they wear out faster. DTH bits tend to have larger buttons on the gauge row and smaller buttons in the center.

GRADES

Rock Hog uses only carbide grades with excellent resistance to wear and with high toughness properties. Along with our long proven standard grades are Rock Hog's premium grades.

DTH Bit Part No. Breakdown

ENTIRE PART NUMBER
XXXXXXX XXX XXX

HEAD NUMBER | SHANK NUMBER | OPTIONS

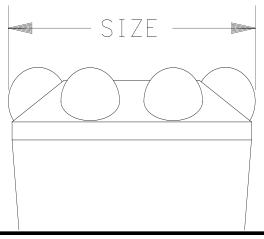
X...X	X	XX	X	XXX	X...X

This Number Defines the Bit Shank

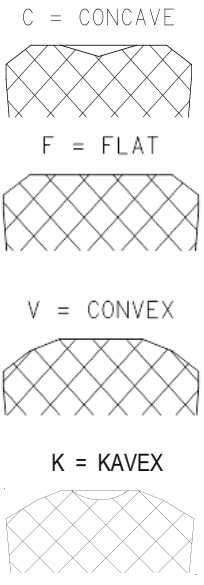
SIZE#
XX XX

2, 3, or 4 Digits that define the Bit's Size in Inches of Gauge:

XX Whole Size	XX Decimal Size
2 = 2″	0 = .000
3 = 3″	1 = .12 (1/8)
4 = 4″	2 = .25(1/4)
5 = 5″	3 = .38(3/8)
6 = 6″	5 = .50(1/2)
7 = 7″	6 = .62(5/8)
8 = 8″	7 = .75(3/4)
9 = 9″	8 = .88(7/8)
10=10″	for all other
11=11″	sizes use
12=12″	2 digits, for example
	16 = .16
	29 = .29
	42 = .42
	67 = .67



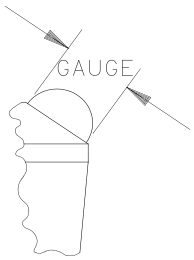
FACE
X



GAUGE
XX

Diameter of the Gauge Buttons In *inches* (mm)

38 = 3/8 (9.5)
44 = 7/16 (11.1)
50 = 1/2 (12.7)
56 = 9/16 (14.5)
62 = 5/8 (15.9)
75 = 3/4 (19.0)



DESIGN
X

There are various designs available for a given face style. Each design is assigned a different number.

Letters Define Optional Features On the Bit:

B = All Ballistic Buttons

F = Ballistic Face Buttons
Domed Gauge Buttons

G = Ballistic Gauge Buttons
Domed Face Buttons

H___= Alternate Compacts/Button Designation (contact your sales rep. for details)

M * = * Domed Rev Buttons

R * = * Ballistic Rev Buttons

W * = * Wear Pads

Note: * = Quantity of Buttons

#Note on head size. If you use head sizes in millimeters (mm) and an equivalent size is not listed in the Product Spec. Tables, divide mm by 25.4 to obtain the head size in inches, then determine the part no. based on the inch size.

Bit Specifications and Ordering
Standard Designs

- Available designs are listed by nominal shank size on the following pages. Any head or shank not listed in the tables is a special order.
- Available in head sizes from 2 ¾" (70mm) to 12 ¼" (311mm) on the shank of your choice.
- Standard heads up to 9" have (2) blow holes and (2) face flushing grooves.
- Size and number of buttons on the head are given in the tables.
- The options shown on page 17 can be applied.
- Rock Hog reserves the right to make changes in specifications, add improvements, or discontinue items without notice or obligation.
- Bits that require a blow tube/ footvalve are supplied with the blow tube installed.

How to Order

Choose the head number & shank number from the tables and any options from page 19

BIT PART NUMBER = *head number shank number options*

Give this number to your Rock Hog representative when ordering.

Special Designs

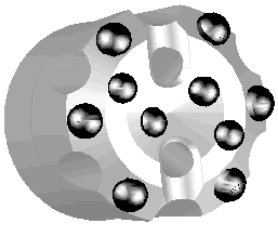
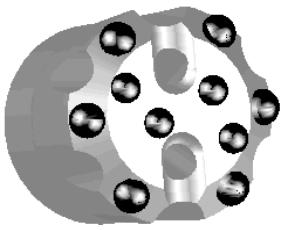
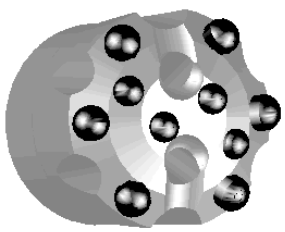
- Any head or shank not listed in the tables
- Any oversize head on a standard shank
- Any additional buttons, blow holes, or scallops
- Must be approved by customer prior to manufacturing
- Are made on an as-ordered basis only
- Have no warranty or a limited warranty
- A minimum order quantity is required
- Require additional manufacturing lead time

To Order Specialty Bits:

Give your Rock Hog representative all the details available for your desired design, and the quantity needed. A part number will be assigned to the design for your future reference.

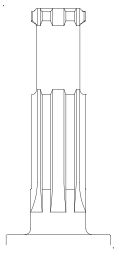
BIT WEIGHT = head weight + shank weight

2-inch Series Bits

Head Number Table												
Head				**Concave**			**Flat**			**Convex**		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face
2 3/4	70	3	1.4	27C441	(6) 7/16	(4) 3/8	27F441	(6) 7/16	(4) 3/8	27V441	(6) 7/16	(4) 3/8
2 7/8	73	3	1.4	28C441	(6) 7/16	(4) 3/8	28F441	(6) 7/16	(4) 3/8	28V441	(6) 7/16	(4) 3/8
3	76	3	1.4	30C441	(8) 7/16	(6) 3/8	30F441	(8) 7/16	(6) 3/8	30V441	(8) 7/16	(6) 3/8
3 1/4	83	3	1.4	32C441	(8) 7/16	(6) 3/8	32F441	(8) 7/16	(6) 3/8	32V441	(8) 7/16	(6) 3/8
3 1/2	89	4	1.8	35C441	(8) 7/16	(6) 7/16	35F441	(8) 7/16	(6) 7/16	35V441	(8) 7/16	(6) 7/16

Shank Number

Shank Number → **BR2**

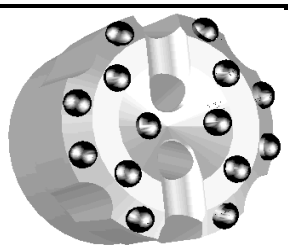
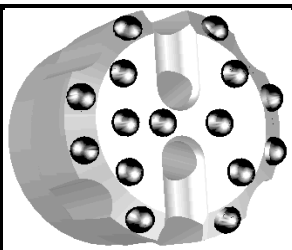
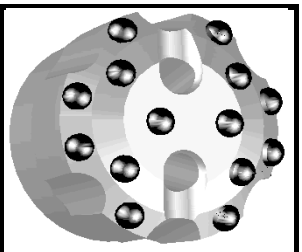


Shank Description → **Bullroc-2**

Shank Weight → **2.6 lbs**

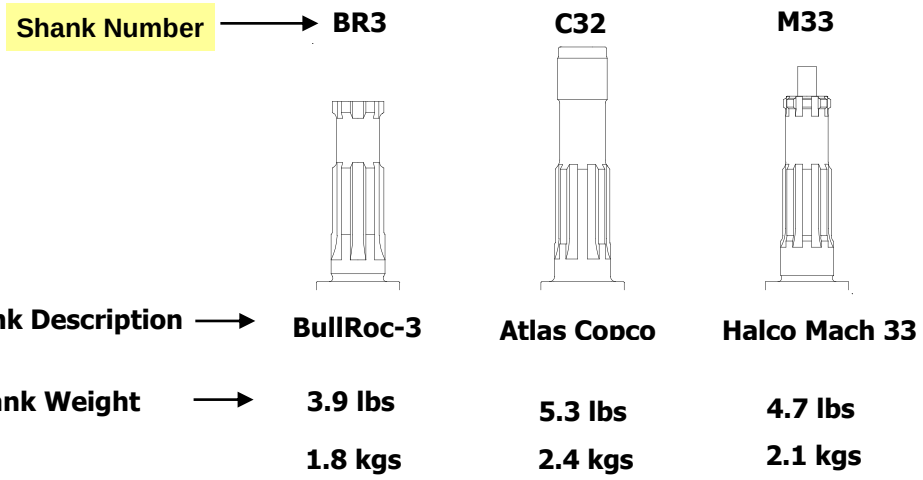
1.2 kgs

3-inch Series Bits

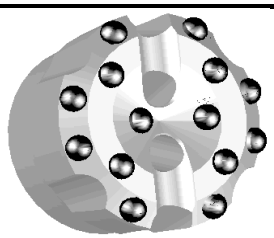
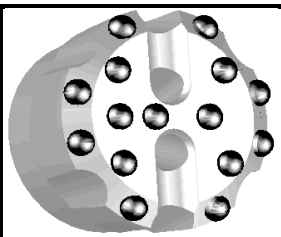
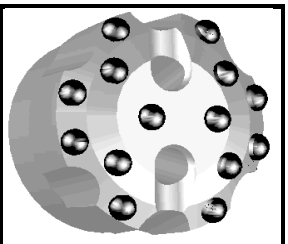
Head Number Table			

Head				Concave			Flat			Convex		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face
3 1/2	89	3.9	1.8	35C441	(8) 7/16	(6) 7/16	35F441	(8) 7/16	(6) 7/16	35V441	(8) 7/16	(6) 7/16
3 5/8	92	4	1.8	36C441	(8) 7/16	(6) 7/16	36F441	(8) 7/16	(6) 7/16	36V441	(8) 7/16	(6) 7/16
3 3/4	95	4	1.8	37C441	(8) 7/16	(6) 7/16	37F441	(8) 7/16	(6) 7/16	37V441	(8) 7/16	(6) 7/16
3 7/8	98	4	1.8	38C441	(8) 7/16	(6) 7/16	38F441	(8) 7/16	(6) 7/16	38V441	(8) 7/16	(6) 7/16
4	102	5	2.3	40C441	(8) 7/16	(7) 7/16	40F441	(8) 7/16	(7) 7/16	40V441	(8) 7/16	(7) 7/16

Shank Number

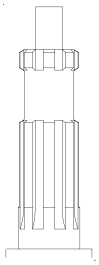


3 1/2 –inch Series Bits

Head Number Table												
Head				**Concave**			**Flat**			**Convex**		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face
3 1/2	89	5.5	2.5	35C441	(8) 7/16	(6) 7/16	35F441	(8) 7/16	(6) 7/16	35V441	(8) 7/16	(6) 7/16
3 3/4	95	5.9	2.7	37C441	(8) 7/16	(6) 7/16	37F441	(8) 7/16	(6) 7/16	37V441	(8) 7/16	(6) 7/16
3 7/8	98	6	2.7	38C441	(8) 7/16	(6) 7/16	38F441	(8) 7/16	(6) 7/16	38V441	(8) 7/16	(6) 7/16
4	102	6	2.7	40C563	(8) 9/16	(6) 1/2	40F563	(8) 9/16	(6) 1/2	40F563	(8) 9/16	(6) 1/2
4 1/8	105	7	3.2	41C563	(8) 9/16	(6) 1/2	41F563	(8) 9/16	(6) 1/2	41V563	(8) 9/16	(6) 1/2
4 1/4	108	9	4.1	42C563	(8) 9/16	(6) 1/2	42F563	(8) 9/16	(6) 1/2	42V563	(8) 9/16	(6) 1/2

Shank Number

Shank Number → **305**

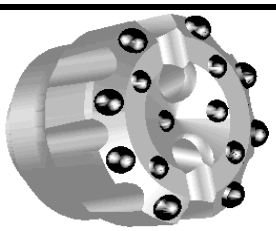
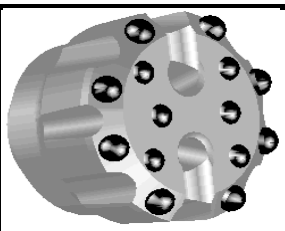
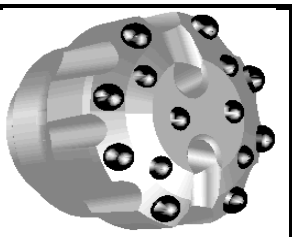


Shank Description → **IR 3.5**

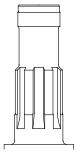
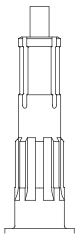
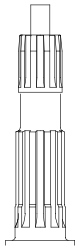
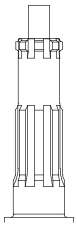
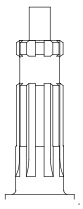
Shank Weight → **4.7 lbs**

2.1 kgs

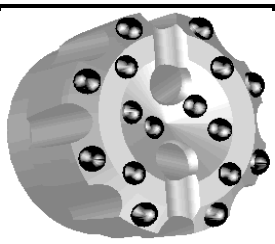
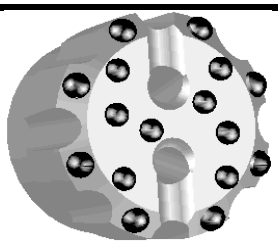
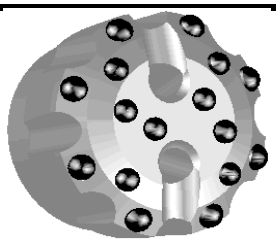
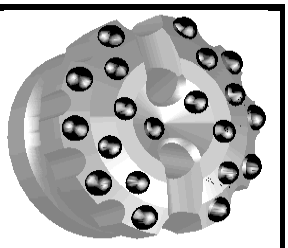
4-inch Series Bits

Head Number Table												
Head				**Concave**			**Flat**			**Convex**		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face
4	102	9	4.1	40C563	(8) 9/16	(6) 1/2	40F563	(8) 9/16	(6) 1/2	40V563	(8) 9/16	(6) 1/2
4 1/8	105	9.1	4.1	41C563	(8) 9/16	(6) 1/2	41F563	(8) 9/16	(6) 1/2	41V563	(8) 9/16	(6) 1/2
4 1/4	108	9.6	4.3	42C563	(8) 9/16	(6) 1/2	42F563	(8) 9/16	(6) 1/2	42V563	(8) 9/16	(6) 1/2
4 1/2	114	10.1	4.6	45C563	(8) 9/16	(6) 1/2	45F563	(8) 9/16	(6) 1/2	45V563	(8) 9/16	(6) 1/2
4 3/4	121	10.4	4.7	47C563	(8) 9/16	(7) 1/2	47F563	(8) 9/16	(7) 1/2	47V563	(8) 9/16	(7) 1/2
5	127	11.2	5.1	50C621	(8) 5/8	(7) 9/16	50F621	(8) 5/8	(7) 9/16	50V621	(8) 5/8	(7) 9/16
5 1/8	130	11.7	5.3	51C621	(8) 5/8	(7) 9/16	51F621	(8) 5/8	(7) 9/16	50V621	(8) 5/8	(7) 9/16

Shank Number

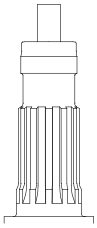
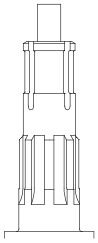
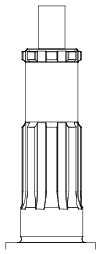
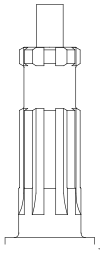
Shank Number →	C42	3415/SD4	QL4	M44	340
					
Shank Description →	**Atlas Copco**	**Mission**	**IR QL40**	**Halco Mach-44**	**IR 340**
Shank Weight →	**7.7 lbs**	**10.8 lbs**	**12.0 lbs**	**10.6 lbs**	**8.2 lbs**
	3.5 kgs	**4.9 kgs**	**5.4 kgs**	**4.8 kgs**	**3.7 kgs**

5-inch Series Bits

Head Number Table				

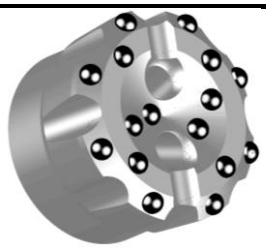
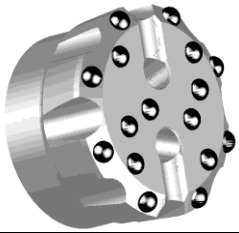
Head				Concave			Flat			Convex			Kavex		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face		gage	face
5	127	17	7.7	50C621	(8) 5/8	(7) 9/16	50F621	(8) 5/8	(7) 9/16	50V621	(8) 5/8	(7) 9/16	---		
5 1/8	130	17	7.7	51C621	(8) 5/8	(7) 9/16	51F621	(8) 5/8	(7) 9/16	51V621	(8) 5/8	(7) 9/16	---		
5 1/4	133	17.2	7.8	52C621	(8) 5/8	(8) 9/16	52F621	(8) 5/8	(8) 9/16	52V621	(8) 5/8	(8) 9/16	---		
5 1/2	140	18.5	8.4	55C621	(8) 5/8	(8) 9/16	55F521	(8) 5/8	(8) 9/16	55V621	(8) 5/8	(8) 9/16	---		
5 3/4	146	19.2	8.7	57C621	(8) 5/8	(8) 9/16	57F621	(8) 5/8	(8) 9/16	57V621	(8) 5/8	(8) 9/16	57K622	(10) 5/8	(10) 9/16
5 7/8	149	19.2	8.7	58C621	(8) 5/8	(8) 9/16	58F621	(8) 5/8	(8) 9/16	58V621	(8) 5/8	(8) 9/16	58K622	(10) 5/8	(10) 9/16
6	152	19.7	8.9	60C621	(8) 5/8	(8) 5/8	60F621	(8) 5/8	(8) 5/8	60V621	(8) 5/8	(8) 5/8	60K622	(10) 5/8	(10) 9/16

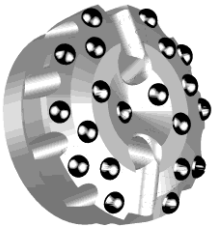
Shank Number

Shank Number →	QL5	4315/SD5	M50	350
				
Shank Description →	IR QL50	Mission	Halco Mach-50	IR 350
Shank Weight →	17.9 lbs 8.1 kgs	15.7 lbs 7.1 kgs	18.3 lbs 8.3 kgs	17.5 lbs 7.9 kgs

6-inch Series Bits

Head Number Table

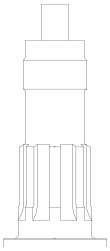
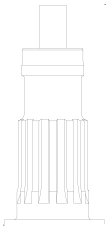
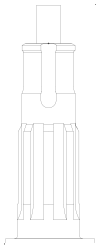
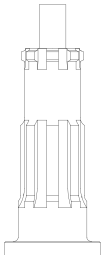





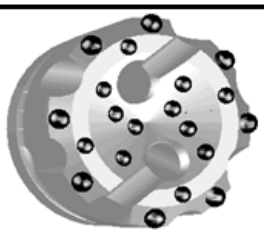
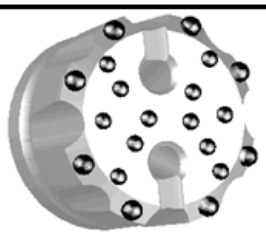
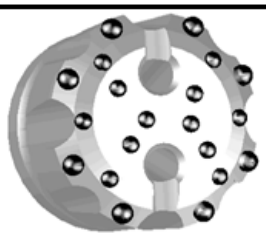
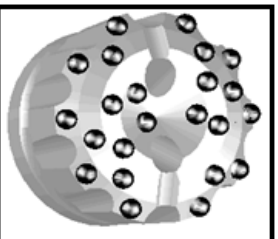
Head				Concave			Flat			Convex			Kavex		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face		gage	face
6	153	24.9	11.3	60C621	(8) 5/8	(8) 5/8	60F621	(8) 5/8	(8) 5/8	60V621	(8) 5/8	(8) 5/8	60K622	(10) 5/8	(10) 5/8
6 1/8	156	26.7	12.1	61C621	(8) 5/8	(8) 5/8	61F621	(8) 5/8	(8) 5/8	61V621	(8) 5/8	(8) 5/8	61K622	(10) 5/8	(10) 5/8
6 1/4	159	27.9	12.6	62C621	(8) 5/8	(8) 5/8	62F621	(8) 5/8	(8) 5/8	62V621	(8) 5/8	(8) 5/8	62K622	(10) 5/8	(10) 5/8
6 1/2	165	28.4	12.9	65C621	(8) 5/8	(8) 5/8	65F621	(8) 5/8	(9) 5/8	65V621	(8) 5/8	(9) 5/8	65K622	(10) 5/8	(10) 5/8
6 3/4	171	29	13.1	67C621	(8) 5/8	(9) 5/8	67F621	(8) 5/8	(9) 5/8	67V621	(8) 5/8	(9) 5/8	67K622	(10) 5/8	(12) 5/8
7	178	32.1	14.5	70C621	(8) 5/8	(9) 5/8	70F621	(8) 5/8	(9) 5/8	70V621	(8) 5/8	(9) 5/8	70K622	(10) 5/8	(12) 5/8
7 1/2	191	40	18.1	75C621	(10) 5/8	(14) 5/8	75F621	(10) 5/8	(14) 5/8	75V621	(10) 5/8	(14) 5/8	75K622	(12) 5/8	(14) 5/8
8	203	43.2	19.6	80C621	(10) 5/8	(16) 5/8	80F621	(10) 5/8	(16) 5/8	80V621	(10) 5/8	(16) 5/8	80K622	(12) 5/8	(16) 5/8
8 1/2	216	45	20.4	85C621	(10) 5/8	(18) 5/8	85F621	(10) 5/8	(18) 5/8	85V621	(10) 5/8	(18) 5/8	85K622	(12) 5/8	(22) 5/8
8 5/8	219	47	21.3	86C621	(10) 5/8	(18) 5/8	86F621	(10) 5/8	(18) 5/8	86V621	(10) 5/8	(18) 5/8	86K622	(12) 5/8	(22) 5/8
8 3/4	222	48.8	22.1	87C621	(10) 5/8	(18) 5/8	87F621	(10) 5/8	(18) 5/8	87V621	(10) 5/8	(18) 5/8	87K622	(12) 5/8	(22) 5/8
8 7/8	225	50	22.7	88C621	(10) 5/8	(18) 5/8	88F621	(10) 5/8	(18) 5/8	88v621	(10) 5/8	(18) 5/8	88K622	(12) 5/8	(22) 5/8
9	229	51	23.1	90C621	(10) 5/8	(20) 5/8	90F621	(10) 5/8	(18) 5/8	90V621	(10) 5/8	(20) 5/8	90K622	(12) 5/8	(24) 5/8
9 1/4	235	54	24.5	92C621	(10) 5/8	(22) 5/8	92F621	(10) 5/8	(18) 5/8	92V621	(10) 5/8	(20) 5/8	92K622	(12) 5/8	(24) 5/8
9 1/2	241	56	25.4	95C621	(12) 5/8	(22) 5/8	95F621	(12) 5/8	(24) 5/8	95V621	(12) 5/8	(22) 5/8	95K622	(14) 5/8	(28) 5/8
10	254	64	29.0	100C621	(12) 5/8	(26) 5/8	100F621	(12) 5/8	(26) 5/8	100V621	(12) 5/8	(22) 5/8	100K622	(14) 5/8	(28) 5/8

Note: There is no warranty for shank failures on heads over 7".

Shank Number

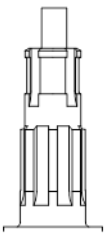
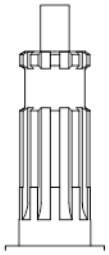
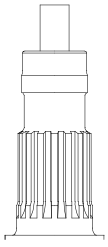
Shank Number →	360	QL6	5315/SD6	M60
				
Shank Description →	IR 360	IR QL60	Mission	Halco Mach-60
Shank Weight →	27.6 lbs 12.5 kgs	25.4 lbs 11.5 kgs	33.4 lbs 15.1 kgs	27.8 lbs 12.6 kgs

8-inch Series Bits, Heads up to 11”

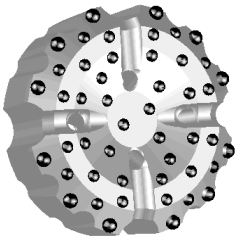
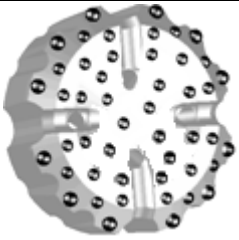
Head Number Table															
Head				**Concave**			**Flat**			**Convex**			**Kavex**		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face		gage	face
7 5/8	194	53	24.0	76C751	(8) 3/4	(12) 5/8	76F751	(8) 3/4	(12) 5/8	76V751	(8) 3/4	(12) 5/8	76K752	(10) 3/4	(12) 3/4
7 7/8	200	54	24.5	78C751	(8) 3/4	(12) 5/8	78F751	(8) 3/4	(12) 5/8	78V751	(8) 3/4	(12) 5/8	78K752	(10) 3/4	(13) 3/4
8	203	57.2	25.9	80C751	(8) 3/4	(12) 5/8	80F751	(8) 3/4	(12) 5/8	80V751	(8) 3/4	(12) 5/8	80K752	(10) 3/4	(13) 3/4
8 1/4	210	58	26.3	82C751	(8) 3/4	(12) 5/8	82F751	(8) 3/4	(12) 5/8	82V751	(8) 3/4	(12) 5/8	82K752	(10) 3/4	(13) 3/4
8 1/2	216	61.5	27.9	85C751	(8) 3/4	(14) 5/8	85F751	(8) 3/4	(14) 5/8	85V751	(8) 3/4	(14) 5/8	85K752	(10) 3/4	(13) 3/4
8 5/8	219	62	28.1	86C751	(8) 3/4	(14) 5/8	86F751	(8) 3/4	(14) 5/8	86V751	(8) 3/4	(14) 5/8	86K752	(10) 3/4	(14) 3/4
8 3/4	222	62.5	28.3	87C751	(8) 3/4	(14) 5/8	87F751	(8) 3/4	(14) 5/8	87V751	(8) 3/4	(14) 5/8	87K752	(10) 3/4	(14) 3/4
8 7/8	225	63	28.5	88C751	(8) 3/4	(14) 5/8	88F751	(8) 3/4	(14) 5/8	88V751	(8) 3/4	(14) 5/8	88K752	(10) 3/4	(14) 3/4
9	229	67.1	30.4	90C751	(10) 3/4	(16) 5/8	90F751	(10) 3/4	(16) 5/8	90V751	(10) 3/4	(16) 5/8	90K752	(12) 3/4	(16) 3/4
9 1/2	241	74	33.5	95C751	(10) 3/4	(20) 5/8	95F751	(10) 3/4	(20) 5/8	95V751	(10) 3/4	(20) 5/8	95K752	(12) 3/4	(16) 3/4
9 3/4	248	79	35.8	97C751	(10) 3/4	(20) 5/8	97F751	(10) 3/4	(20) 5/8	97V751	(10) 3/4	(20) 5/8	97K752	(12) 3/4	(16) 3/4
9 7/8	251	82	37.1	98C751	(10) 3/4	(20) 5/8	98F751	(10) 3/4	(20) 5/8	98V751	(10) 3/4	(20) 5/8	98K752	(12) 3/4	(17) 3/4
10	254	93.5	42.4	100C751	(10) 3/4	(20) 5/8	100F751	(10) 3/4	(20) 5/8	100V751	(10) 3/4	(20) 5/8	100K752	(12) 3/4	(17) 3/4
10 1/2	267	81.1	36.7	105C751	(12) 3/4	(24) 5/8	105F751	(12) 3/4	(24) 5/8	105V751	(12) 3/4	(24) 5/8	105K752	(14) 3/4	(18) 3/4
11	279	86.4	39.1	110C751	(12) 3/4	(24) 5/8	110F751	(12) 3/4	(24) 5/8	110V751	(12) 3/4	(24) 5/8	110K752	(14) 3/4	(18) 3/4

Note: There is no warranty for shank failures on heads over 10”.

Shank Number

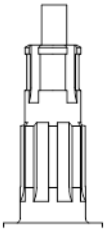
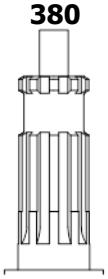
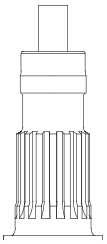
Shank Number →	6315/SD8	380	QL8
			
Shank Description →	**Mission**	**IR 380**	**IR QL80**
Shank Weight →	**46.1 lbs**	**55.4 lbs**	**61.8 lbs**
	20.9 kgs	**25.1 kgs**	**28.0 kgs**

8-inch Series Bits, 11 ¼" to 12 ¼" Heads

Head Number Table															
Head				**Concave**			**Flat**			**Convex**			**Kavex**		
Diameter		Weight		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size		Head Number	Button (qty) & size	
inch	mm	lbs	kgs		gage	face		gage	face		gage	face		gage	face
11 1/4	286	93	42.1	112C751	(12) 3/4	(34) 5/8	112F751	(12) 3/4	(34) 5/8						
11 1/2	292	96	43.5	115C751	(12) 3/4	(36) 5/8	115F751	(12) 3/4	(34) 5/8	---			---		
11 3/4	298	98	44.4	117C751	(12) 3/4	(36) 5/8	117F751	(12) 3/4	(36) 5/8	---			---		
11 7/8	302	100	45.3	118C751	(12) 3/4	(36) 5/8	118F751	(12) 3/4	(36) 5/8	---			---		
12	305	103	46.7	120C751	(12) 3/4	(36) 5/8	120F751	(12) 3/4	(36) 5/8	---			---		
12 1/4	311	106	48.0	122C751	(12) 3/4	(36) 5/8	122F751	(12) 3/4	(36) 5/8	---			---		

Note: There is no warranty for shank failures on heads over 10".

Shank Number

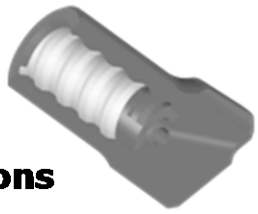
Shank Number →	6315/SD8	380	QL8
			
Shank Description →	**Mission**	**IR 380**	**IR QL80**
Shank Weight →	**46.1 lbs** **20.9 kgs**	**55.4 lbs** **25.1 kgs**	**61.8 lbs** **28.0 kgs**

Threaded Button Bits

Rock Hog Drilling Products is proud to introduce its new "HARDLINE" series of threaded button bits for 2010. The "HARDLINE" series is produced using proprietary manufacturing processes that are exclusive to Rock Hog. Actual field test results of Rock Hog's new "HARDLINE" series of threaded button bits have proven yet again that when the drilling gets tough, Rock Hog has the answer.

Head Sizes

Thread Connections



Ballistic Top Buttons

Premium Grade Carbide

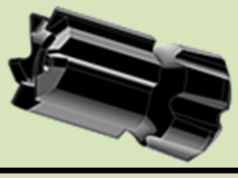
Head Diameter		DropCenter			Flat			Thd Size	Bit Weight		Thd Size	Bit Weight		Thd Size	Bit Weight		Option	Option	Option	extra lbs		
		Head Number	Button (qty) & size		Head Number	Button (qty) & size																
inch	mm		gage	face		gage	face		lbs	kgs		lbs	kgs		lbs	kgs				T38	T45	T51
2 1/2	63	25D441	(5) 7/16	(3) 3/8 (1) 5/16	25F441	(5) 7/16	(4) 3/8	T38	3	1.4							B	H1	RT	1		
3	76	30D50N1	(6) 1/2	(4) 7/16	30F50N1	(6) 1/2	(4) 7/16	T38	6	2.7	T45	7	3.2							1	1	
3 1/2	89	35D50N1	(6) 1/2	(3) 1/2 (2) 7/16	35F50N1	(6) 1/2	(4) 1/2	T38	7	3.2	T45	8	3.6	T51	9	4.1				1	15	2
4	102	40D563	(6) 9/16	(3) 1/2 (2) 7/16	40F563	(6) 9/16	(5) 1/2				T45	10	4.5	T51	11	5.0					2	3
4 1/2	114	45D563	(6) 9/16	(3) 9/16 (2) 1/2	45F563	(6) 9/16	(5) 9/16				T45	13	5.9	T51	14	6.3					2	5
5	127	50D563	(8) 9/16	(4) 9/16 (2) 1/2	50F563	(8) 9/16	(7) 9/16							T51	16	7.2						6

How to Order: Choose the head number, thd size, and any options from the table. If no options are called out the bit is supplied w ith domed top, standard grade carbide buttons all over.

Bit Part Number = *Head Number* *Thd Size* *Options*

Example: The Part No. for a 2-1/2" flat with a T45 thread and premium grade buttons is 25F441T45H1

Retrack Skirt



Note: the RT bit increases in weight by the amount listed above

*Note on Rock Hog's HARDLINE Series:
Currently only 3" and 3-1/2" bits with a standard skirt are supplied using our new HARDLINE manufacturing process. All other bits are supplied using our long proven standard manufacturing process.

LIMITED WARRANTY POLICY

I. WARRANTY

Rock Hog Drilling Products, Inc. warrants each new product made by it to be free from defects in material and workmanship for 180 days from the date of initial sale, (initial sale date to be the invoice date of the product from the manufacturer) and agrees only to repairs, replace, or give credit toward, at its own expense, the product found to be defective in material or workmanship, provided manufacturer is notified in writing of such defect or defects within the 180 day warranty period. At no time will any cash refund be remitted to resolve a warranty claim. Defects caused by improper use or application shall not be considered defects within the scope of the foregoing warranty. If any repairs, alterations, or modifications are made to the product the manufacturer shall be relieved of responsibility for fulfillment of this warranty. If improper use, lack of lubrication, or lack of or improper maintenance are made on or used with the products, the manufacturer shall also be relieved of responsibility for fulfillment of this warranty.

II. DISCLAIMER

Under no circumstances shall manufacturer be liable for any consequential or special damage which any person, firm, corporation, or other entity may suffer or claim to suffer or incur or claim to incur as a result of any defect in the product or in any correction or alteration thereof made or furnished by the manufacturer or others. "Consequential" or "Special" damages as used herein includes but is not limited to costs of transportation, lost sales, lost profits, lost income, increased overhead labor and material costs, and costs of manufacturing variances and operational inefficiencies.

III. MAXIMUM LIABILITY

The maximum liability of the manufacturer under the exclusive warranty set forth herein shall be the amount paid to Rock Hog Drilling Products, Inc. by the customers, for the component specified.

IV. ENTIRE LIABILITY

This warranty constitutes manufacturer's entire warranty. Manufacturer expressly disclaims any other warranties of any kind whatsoever as to the product furnished hereunder, including but not limited to express or implied warranties as to merchantability, fitness for particular purposes sold, description or quality of the product furnished here under.

V. WARRANTY PROCEDURE

WARRANTY CLAIMS WILL BE RESOLVED WHEN:

1. Detailed photographs, which must include the product serial number, are returned to Rock Hog with the product part number, date purchased, and the information required under item #2 as follows. (Note: All products where a warranty claim is pending are required to be kept by the distributor until Rock Hog makes a full disposition of the claim. Rock Hog reserves the option to have the product returned to the manufacturer in the event the photographs are inconclusive in resolving the claim.)
2. The distributor is to advise Rock Hog of the problem with the product including the footage the product drilled, air pressure, rock type, and drilling location. On bits the diameter over the gage row must be given along with the width across the flats on the gage row buttons. In addition the distributor is requested to supply other pertinent information useful in analyzing the claim.
3. Rock Hog will issue a credit of up to a maximum of the amount paid to Rock Hog for the product. Rock Hog reserves the right of final determination of any credit to be issued.
4. Where the customer's account is past due with the manufacturer, all warranty claim evaluations and or adjustments will be withheld until the customer's account is current. Once the customer's account is current, normal warranty procedures will resume.

LIMITED WARRANTY POLICY (cont.)

VI. PRODUCTS NOT WARRANTED

1. The limited warranty policy applies to our standard line of products as shown in our most current product catalog.

2. Hammer parts warranted are:

    a. Back Heads
    b. Air Distributors
    c. Wear Sleeves
    d. Cylinders
    e. Chucks
    f. Pistons
    g. Bearings

All other hammer parts are consider disposable and are not warranted.

3. DTH Drill Bits with oversize heads, per the following are not covered by warranty.
    a. DTH Bits over 4.00" Head Diameter on a 3" Series Shank
    b. DTH Bits over 5.00" Head Diameter on a 4" Series Shank
    c. DTH Bits over 6.00" Head Diameter on a 5" Series Shank
    d. DTH Bits over 7.00" Head Diameter on a 6" Series Shank
    e. DTH Bits over 10.00" Head Diameter on a 8" Series Shank

4. Manufacturer does not warranty carbide breakage of "Ballistic" style buttons. Additionally, manufacturer will not warranty any damage caused by this breakage. "Ballistic" style button bits have an aggressive drilling nature and are not suited for all drilling conditions.

5. Manufacturer does not warranty standard catalog items where defects are caused by improper use or where repairs, alterations, or modifications, are made to the product. In addition the manufacturer does not warranty defects caused by improper use, unsafe practices, lack of lubrication, or lack of or improper maintenance on any standard catalog item.

DTH Bits
DTH Hammers
Threaded Button Bits

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