YOUR DRILLING EXPERT

HALCO Rock Tools

EXPLORATION & GRADE CONTROL

anzeve

Queremos ayudarte

www.halcorocktools.com

At Halco Rock Tools we pride ourselves on exemplary levels of customer service, support and training to reflect your drilling needs.

Having manufactured drilling consumables for over sixty five years our support team are well placed to provide accurate and timely solutions to optimise your drilling performance.

Halco Rock Tools is a world class manufacturer of Down-The-Hole (DTH) drilling equipment with locations around the globe, and headquartered in the UK. Halco pioneered the development and distribution of DTH hammers in the 1950s.

Produced for more than 65 years, our products continue to be regarded as one of the most reliable and durable available today. This is due to our commitment to exceeding customer needs, design expertise and rigorous product testing in extreme drilling conditions.

The hammers and drill bits in this catalogue are designed to offer optimum drilling performance in Exploration and Pit Grade Control applications. Additional hammers and bits are available for the following applications:

- Mining and Quarrying
- Oil and Gas
- Exploration

We can offer training in hammer and bit selection, service, maintenance and repair. With specialists available at all of our locations, you're never far away from the support you require. Halco's superb team of engineers are only a phone call away.

Further Learning Aids:

- A-Z of DTH Drilling
- DTH Maintenance Manual
- User Guide
- www.halcorocktools.com

INTRODUCING THE NEW RC400 & RC500

Developed for the Exploration market, our 4" and 5" models include a unique bit retention system for reduced downtime in the event of bit shanking. With an integrated hammer and bit design for improved chip removal and extended bit life, plus increased production rates on our previous models, Exploration drillers can now expect to reach greater depths with improved sample cuttings for longer.

KEY FEATURES AND BENEFITS

- Simple design, easy maintenance and improved reliability
- Integrated hammer and bit design for better chip removal and bit life
- Improved safety features
- Unique bit retention system as standard
- Rapidly reaches full operating pressure
- New check valve design
- 2 piece easy loading sample tube
- Solid piston construction reducing stress and improving life

4" RC 400

AT A GLANCE

SIZE
127 - 189mm
(5 - 7 1/2“)

SHANK
Halco
RC400

AIR PRESSURE
300 - 600 psi
(20 - 41 bar)

RC 400

The Halco RC400 has been designed to give maximum performance in Exploration and Grade control applications. The integral adaptor housing allows easy access to the long lasting sample tubes. The enhanced performance stems from a simple robust design that reduces complicated maintenance procedures, providing less down time and greater savings.

The RC400 also features improved flushing characteristics from high velocity air flow directed through the drill bit. A variety of thread connections are available which includes options for both Remet and Metzke. The RC400 is equipped with an integral Drill Bit Catcher system for added peace of mind. It also has a sub adaptor body to suit most dual wall drill pipes.

The design features of the new RC400 combine to give an increase in drilling ROP, an increase in service life, and most importantly, greater sample recovery quality.

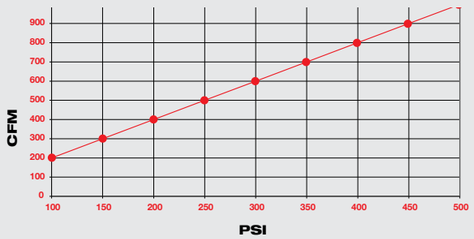
Drill bit diameters of 127 - 136 mm (5” - 5 3/8”).

Collaring bit diameter of 189mm (7 1/2”).

Suitable for operation at air pressures of 300-600 psi.

Note: Warranty may be void if stated operating parameters are not adhered to.

Air Consumption (CFM)

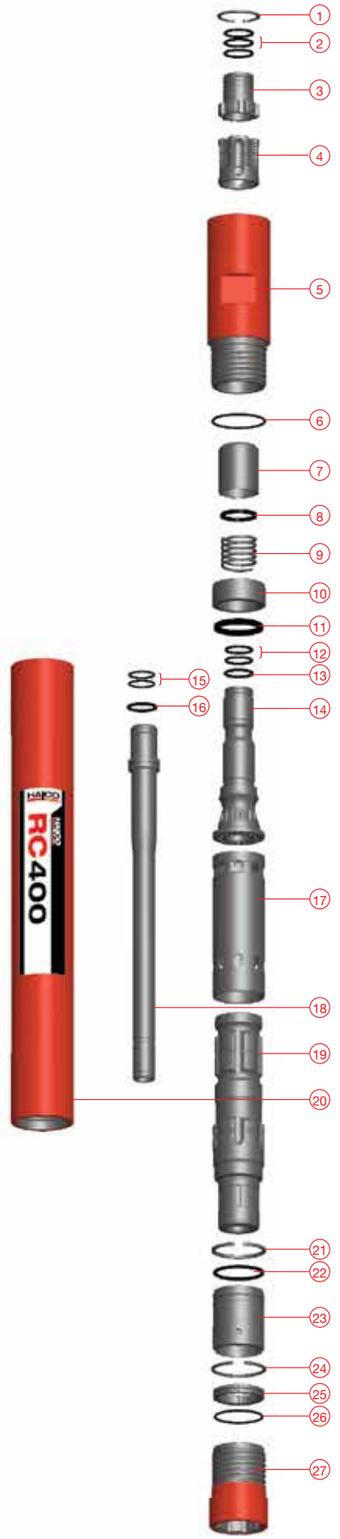


Figures are based on theoretical data

Available Shanks
Halco RC400

Available Bits
127mm (5”)
130mm (5 1/8”)
133mm (5 1/4”)
136mm (5 3/8”)

Collaring Bit
189mm (7 1/2”)



Hammer Overview

Hammer Type	RC400		
Part Number	**600405**	**600407**	**600415**
Shank	Halco RC400	Halco RC400	Halco RC400
Top Thread	Remet 4 "	Metzke 4"	Metzke 4.5"
Weight	77 kg	77 kg	77 kg
Outside Diameter	121 mm (4.764")	121 mm (4.764")	121 mm (4.764")
Make Up Length	1306 mm (51.417")	1306 mm (51.417 ")	1306 mm (51.417 ")

Parts List

Hammer Type		RC400		
Shank		**Remet 4"**	**Metzke 4"**	**Metzke 4.5"**
Model Number		**600405**	**600407**	**600415**
Item	**Description**	**Part Number**	**Part Number**	**Part Number**
1	Circlip	777048	777048	777048
2	‘O’ Ring	747120	N/A	N/A
3	Tube Connector	604798	604804	604814
4	Air Filter	604476	604476	604476
5	Top Adaptor	604598	604608	604812
6	‘O’ Ring	768045	768045	768045
7	NRV Cone	604479	604479	604479
8	NRV Seal	748106	748106	748106
9	NRV Spring	760155	760155	760155
10	Compression Spacer	604800	604800	604800
11	Compression Ring	604799	604799	604799
12	‘O’ Ring	768217	768217	768217
13	‘O’ Ring	747120	747120	747120
14	Upper Sample Tube	604599	604599	604599
15	‘O’ Ring	768213	768213	768213
16	Sample Tube Seal	768148	768148	768148
17	Liner	604596	604596	604596
18	Lower Sample Tube	604597	604597	604597
19	Piston	604595	604595	604595
20	Cylinder	604594	604594	604594
21	Square Snap Ring	604801	604801	604801
22	‘O’ Ring	768212	768212	768212
23	Guide Bush	604657	604657	604657
24	Round Snap Ring	783061	783061	783061
25	‘O’ Ring	768043	768043	768043
26	Bit Retaining Rings	604656	604656	604656
27	Shroud	SEE BELOW	SEE BELOW	SEE BELOW
28	Chuck	604655	604655	604655
SK	Service Kit	SK73	SK73	SK73
RK	Repair Kit	RK124	RK124	RK124

Drill Bits

Part	Diameter		Face	Buttons		Weight
Number	**Mm**	**Inch**	**Design**	**Type**	**Qty/dia**	**(kg)**
Halco RC400 - Extra Flushing Design						
653469	127	5	Drop Centre	Domed	12 x 16 mm / 2 x 13 mm	14.1
653470	130	5 1/8	Drop Centre	Domed	12 x 16 mm / 2 x 13 mm	14.1
653471	133	5 1/4	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	14.3
653472	136	5 3/8	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	14.3
653486	189	7 1/2	Drop Centre	Domed	16 x 16 mm / 10 x 13 mm	36.5
Halco RC400 - Heavy Duty Design						
653558	127	5	Drop Centre	Domed	14 x 16 mm / 2 x 13 mm	14.2
653559	130	5 1/8	Drop Centre	Domed	14 x 16 mm / 2 x 13 mm	14.2
653560	133	5 1/4	Drop Centre	Domed	14 x 16 mm / 4 x 13 mm	14.4
653561	136	5 3/8	Drop Centre	Domed	14 x 16 mm / 4 x 13 mm	14.4

Shroud

Outside Diameter	Part Number
125 mm	604602
128 mm	604603
131 mm	604604
134 mm	604605
187 mm	601423

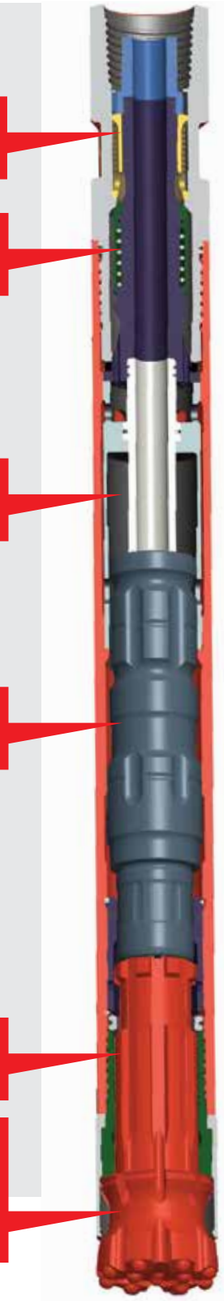
5" RC 500

AT A GLANCE

SIZE
137 - 189mm
(5 3/8 - 7 1/2“)

SHANK
Halco
RC500

AIR PRESSURE
300 - 600 psi
(20 - 41 bar)



Top loading filter to prevent debris entering the hammer

NRV to prevent hammer from flooding

Easy sample tube removal

Piston + Liner configuration for optimal air flow

8 spline bit shank gives large drive area and reduces contact stresses

Bit Catcher to prevent loss of bit head if failure occurs and seals the hole for sample recovery

RC 500

The Halco RC500 has been designed to give maximum performance in Exploration and Grade control applications. The integral adaptor housing allows easy access to the long lasting sample tubes. The enhanced performance stems from a simple robust design that reduces complicated maintenance procedures, providing less down time and greater savings.

The RC500 also features improved flushing characteristics from high velocity air flow directed through the drill bit. A variety of thread connections are available which includes options for both Remet and Metzke. The RC500 is equipped with an integral Drill Bit Catcher system for added peace of mind. It also has a sub adaptor body to suit most dual wall drill pipes.

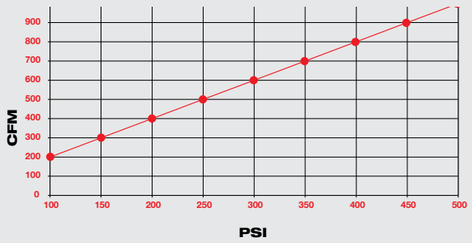
The design features of the new RC500 combine to give an increase in drilling ROP, an increase in service life, and most importantly, greater sample recovery quality.

Drill bit diameters of 137 - 146 mm (5 3/8” - 7 1/2”).

Collaring bit diameter of 189mm (7 1/2”).

Suitable for operation at air pressures of 300-600 psi.

Air Consumption (CFM)

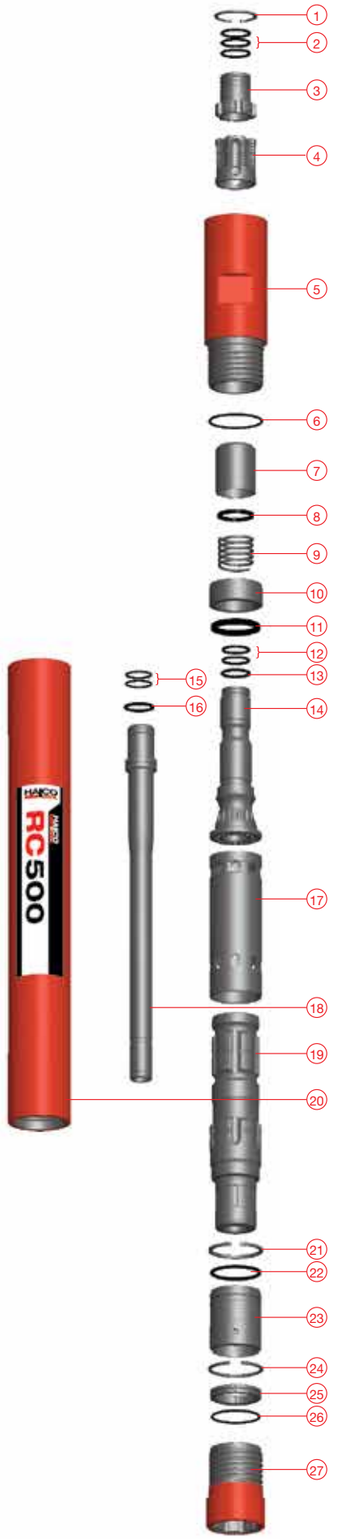


Figures are based on theoretical data

Available Shanks
Halco RC500

Available Bits
137mm (5 3/8”)
140mm (5 1/2”)
143mm (5 5/8”)
146mm (5 3/4”)

Collaring Bit
189mm (7 1/2”)



Hammer Overview

Hammer Type	RC500	
Part Number	**600409**	**600410**
Shank	Halco RC500	Halco RC500
Top Thread	Remet 4.5"	Metzke 4.5"
Weight	89 kg	89 kg
Outside Diameter	132 mm (5.196")	132 mm (5.196")
Make Up Length	1388 mm (54.645")	1388 mm (54.645 ")

Parts List

Hammer Type		RC500				
Shank		**Remet 4.5"**	**Metzke 4.5"**	**SK**	**RK**	**CK**
Model Number		**600409**	**600410**	**Contents**		
Item	**Description**	**Part Number**	**Part Number**	**Quantities**		
1	Circlip	777049	777049	-	1	-
2	‘O’ Ring	768215	N/A	3	-	-
3	Tube Connector	604807	604808	-	-	1
4	Air Filter	604622	604622	-	-	-
5	Top Adaptor	604616	604617	-	-	-
6	‘O’ Ring	768196	768196	1	1	-
7	NRV Cone	604545	604545	-	-	-
8	NRV Seal	748104	748104	1	1	-
9	NRV Spring	760157	760157	-	1	-
10	Compression Spacer	604811	604811	-	-	-
11	Compression Ring	604810	604810	1	1	-
12	‘O’ Ring	768218	768218	2	2	2
13	‘O’ Ring	768215	768215	1	1	1
14	Upper Sample Tube	604618	604618	-	-	1
15	‘O’ Ring	768214	768214	2	2	10
16	Sample Tube Seal	768210	768210	1	1	5
17	Liner	604614	604614	-	-	-
18	Lower Sample Tube	604615	604615	-	-	5
19	Piston	604665	604665	-	-	-
20	Cylinder	604611	604611	-	-	-
21	Square Snap Ring	604313	604313	-	1	-
22	‘O’ Ring	768055	768055	1	1	-
23	Guide Bush	604660	604660	-	-	-
24	Round Snap Ring	783062	783062	1	1	-
25	‘O’ Ring	768091	768091	1	1	-
26	Bit Retaining Rings	604659	604659	-	1	-
27	Shroud	SEE BELOW	SEE BELOW			
28	Chuck	604658	604658	-	1	-
SK	Service Kit	SK75	SK75			
RK	Repair Kit	RK126	RK126			
CK	Consumer Kit	CK04	CK05			

Drill Bits

Part	Diameter		Face		Buttons	Weight
Number	**Mm**	**Inch**	**Design**	**Type**	**Qty/dia**	**(kg)**
Halco RC500						
653554	137	5 3/8	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	27.4
653555	140	5 1/2	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	27.6
653556	143	5 5/8	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	27.8
653557	146	5 3/4	Drop Centre	Domed	12 x 16 mm / 4 x 13 mm	28.0
653487	189	7 1/2	Drop Centre	Domed	16 x 16 mm / 10 x 13 mm	40.0

Shroud

Outside Diameter	Part Number
135 mm	604624
138 mm	604625
141 mm	604626
144 mm	604627
187 mm	601425

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Halco Rock Tools
Quality Management System
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Certificate No: LRQ 0850659

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