

# 8"

# SUPERIOR 800

## AT A GLANCE



**SIZE**  
200 - 311mm  
(7 7/8" - 14 1/4")



**SHANK**  
DHD 380



**AIR PRESSURE**  
100 - 507psi  
(7 - 35 bar)

Variable bypass porting has been added to the top adaptor

A variable live air bleed to allow greater additives to increase up-hole velocity.

The Bit Catcher System has a specially designed chuck and drill bit arrangement.



## SUPERIOR 800

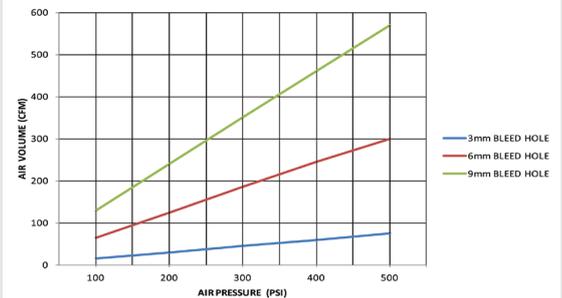
The Superior 800 has been designed for high performance drilling in hard to medium rock conditions.

Research shows that Air Drilling can help achieve lower drilling costs, faster drill rig installation, an increased rate of penetration (ROP) with a ROP up to 5 times faster than mud, reduced hole deviation and effective pressure control through lost circulation zones.

Design features include a jetted back head, a variable air bleed piston and a bit catcher system to ensure your bits are not lost down the hole and diamond enhanced inserts.

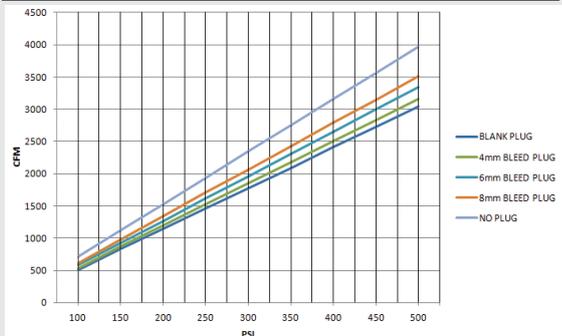
### Air Consumption

#### Bypass Top Adaptor



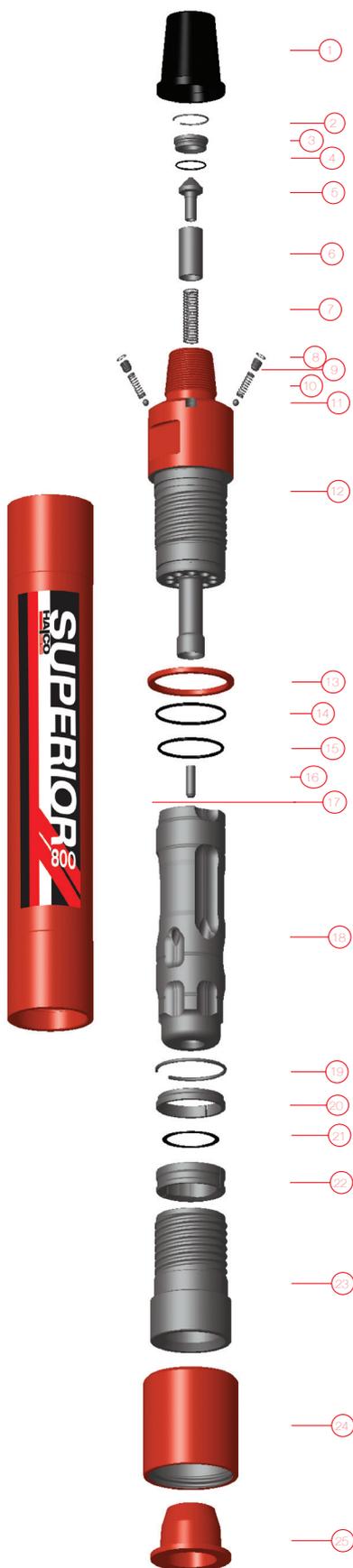
Note: The air volumes quoted above are based upon one bleed plug.

### Hammer



Figures are based on theoretical data

**UNITED KINGDOM**  
Halco Rock Tools Limited  
Armytage Road, Brighouse  
West Yorkshire  
Tel: +44 (0)1422 399900  
[www.halcorocktools.com](http://www.halcorocktools.com)



## Hammer Overview

Hammer Type	Superior 800
Top Thread	4 1/2" API Reg Pin
Flat Hammer Size	156mm (6.142")
Weight	177 Kg
Outside Diameter	182mm (7.165")
Make Up Length	1263mm (49.724")
Recommended Minimum Thrust	500 Kg (1100 lbs)
Recommended Maximum Thrust	2000 Kg (4400 lbs)

## Parts List

Hammer Type	Superior 800	Maintenance Kits		
Shank	DHD 380	Service Kit	Repair Kit	Life Kit
Model Number	600432	SK89	RK146	LK10
Item	Description			
1	Thread Protector	-	-	-
2	Snap Ring	1	1	-
3	N.R.V. Seat	-	1	-
4	O'Ring	2	2	-
5	N.R.V	-	1	-
6	N.R.V. Cover	-	1	-
7	N.R.V. Spring	-	1	-
8	Circlip	-	4	-
9	Bleed Plugs	-	4	-
10	Bypass Spring	-	4	-
11	Ball Bearing	-	4	-
12	Top Adaptor	-	-	1
13	Spacer	-	1	-
14	O'Ring	2	2	-
15	O'Ring	2	2	-
16	Bleed Plug	-	1	-
17	Cylinder	-	-	1
18	Piston	-	-	1
19	Snap Ring	1	1	-
20	Guide Bush	-	-	-
21	O'Ring	2	2	-
22	Bit Retaining Ring	-	1	-
23	Chuck	-	1	-
24	Shroud	-	-	-
25	End Cap	-	-	-

## Drill Bits

Part Number	Diameter	Face	Design	Type	Buttons Qty / Dia	Over Size	Weight (Kg)
DHD380							
653507	8 3/4	Concave	Diamond		24x 18mm / 15x 22.2mm		65
653513	8 3/4	Concave	Diamond Gauge		24x 18mm / 15x 22.2mm		65
653548	8 3/4	Convex	Diamond		26x 18mm / 15x 22.2mm		65
653551	8 3/4	Convex	Diamond Gauge		26x 18mm / 15x 22.2mm		65
653549	8 1/2	Convex	Diamond Gauge		23x 18mm / 12x 22.2mm		65
653533	8 7/8	Concave	Diamond Gauge		24x 18mm / 15x 22.2mm		65
653489	9 7/8	Concave	Carbide		34x 18mm / 12x 16mm		69.8
653483	10	Concave	Carbide		34X 18mm / 12x 16mm	Y	70.6

Additional drill bit configurations are available upon request.

