

# 6"

# SUPERIOR 600

## AT A GLANCE



**SIZE**  
159 - 241mm  
(6 1/8" - 9 1/2")



**SHANK**  
QL 60

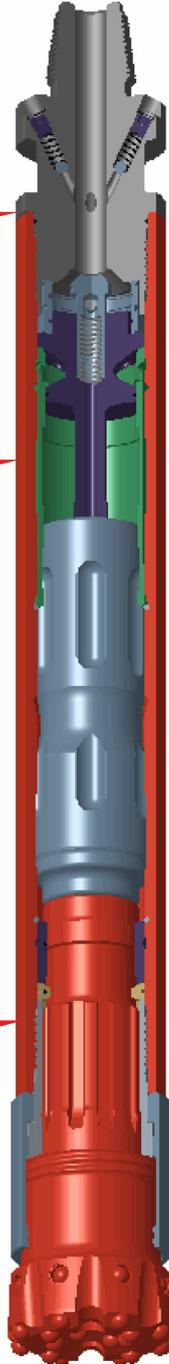


**AIR PRESSURE**  
100 - 435 psi  
(7 - 30 bar)

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 600

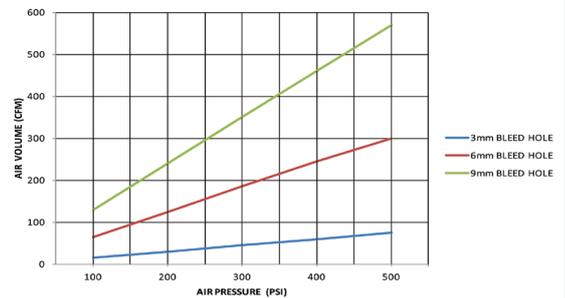
The Superior 600 is the smallest hammer in our Superior Hammer range but it packs a punch. It is typically suited to the air pressures and time and money saving efficiencies of the Oil & Gas industry.

In hard rock formations, air drilling provides an ROP that is up to five times faster than drilling with conventional fluids.

Design features include a jetted back head, a live air bleed piston and a bit catcher system and diamond enhanced inserts.

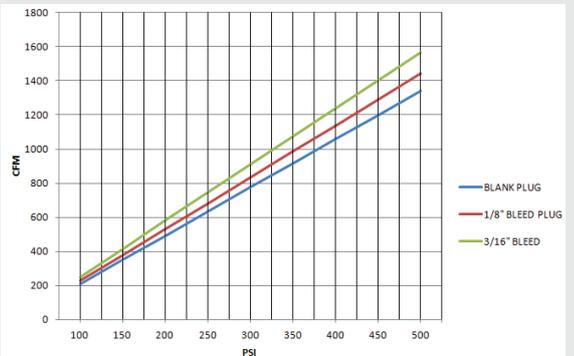
### Air Consumption

#### Bypass Top Adaptor



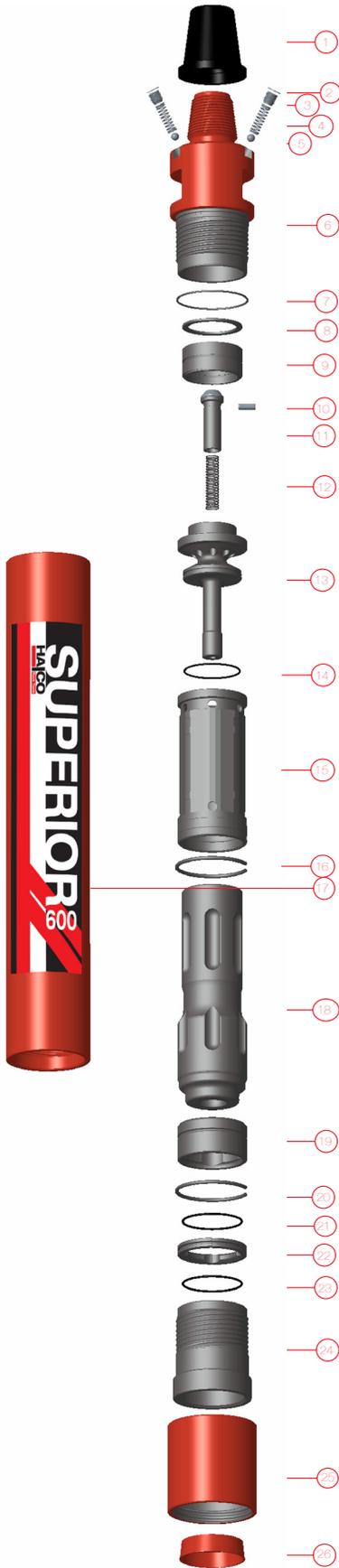
Note: The air volumes quoted above are based upon one bleed plug.

### Hammer



All figures are based on theoretical data.

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## Hammer Overview

Hammer Type	Superior 600
Top Thread	3 1/2" API Reg Pin
Flat Hammer Size	101mm (3.976")
Weight	86 Kg
Outside Diameter	140mm (5.512")
Make Up Length	1035.15mm (40.754")
Recommended Minimum Thrust	500 Kg (1100 lbs)
Recommended Maximum Thrust	1500 Kg (3300 lbs)

## Parts List

Hammer Type	Superior 600	Maintenance Kits		
Shank	QL 60	Service Kit	Repair Kit	Life Kit
Model Number	600431	SK87	RK144	LK08
Item	Description			
1	Thread Protector	-	-	-
2	Circlip	-	3	-
3	Bleed Plugs	-	3	-
4	Bypass Spring	-	3	-
5	Ball Bearing	-	3	-
6	Top Adaptor	-	-	1
7	O'Ring	2	2	-
8	Shim (4mm/5mm/6mm/7mm)	-	1	-
9	Ringfeder	-	-	-
10	Bleed Plug (Blank, 1/8", 3/16")	1	1	-
11	N.R.V.	-	1	-
12	N.R.V. Spring	-	1	-
13	Air Distributor	-	-	-
14	O'Ring	2	2	-
15	Liner	-	-	-
16	Snap Ring	1	1	-
17	Cylinder	-	-	1
18	Piston	-	-	1
19	Guide Bush	-	-	-
20	Snap Ring	1	1	-
21	O'Ring	2	2	-
22	Bit Retaining Ring	-	1	-
23	O'Ring	2	2	-
24	Chuck	-	1	-
25	Shroud	-	-	-
26	End Cap	-	-	-

## Drill Bits

Part Number	Diameter mm	Diameter Inch	Face Design	Type	Buttons Qty / Dia	Over Size	Weight (Kg)
653520	159	6 1/4"	Concave	Diamond	24 x 18mm		25
653528	159	6 1/4"	Concave	Diamond Gauge	8 x 18mm Carbide, 16 x 18mm		25
653536	200	7 7/8"	Concave	Diamond	30 x 18mm	Y	35
653537	200	7 7/8"	Concave	Diamond Gauge	10x18mm Carbide, 20x 18mm	Y	38

Additional drill bit configurations are available upon request.

