



YOUR DRILLING EXPERT



PRODUCT CATALOGUE

www.halco.uk

Our commitment to you

At Halco we pride ourselves on providing exemplary levels of customer service, support and training no matter what your drilling requirements are.

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

Halco is a world class manufacturer of Down The Hole (DTH) drilling equipment with manufacturing locations in The United Kingdom and Australia . Our headquarters are in the North of England, where Halco pioneered the development and distribution of DTH hammers and bits in the 1950's

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

We offer a wide range of specialist products necessary for the rigours of every drilling application.

- Mining
- Quarrying
- Oil and Gas
- Exploration
- Waterwell
- Geotechnical/Civil Engineering

Our team of specialists, together our dedicated dealer network are available to help you select the optimal product for your drilling application and equipment.

To find you nearest Halco dealer contact our sales teams at one of our sales locations shown on the back page of this document.

Further Learning Aids:

- A-Z of DTH Drilling
- DTH Maintenance Manual
- DTH Users Guide
- www.halco.uk

Hammer Selection Guide

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Hammer Selection Guide

Choosing the right hammer is essential to your productivity and operating cost.

All Halco hammers are built to last and manufactured to an exceptional standard. Our hammers provide the outstanding performance and productivity expected by drillers worldwide.

Versatility and variety are key to Halco products and you can be assured that all Halco hammers are suitable for a wide range of rock drilling applications.

All our high performance hammers are built at our state-of-the-art lean manufacturing plant using the highest quality heat treated nickel chrome alloy steels and processes that meet ISO 9001:2008 standards. It is imperative to Halco that every hammer we produce surpasses your expectations and we constantly strive to improve our service and product quality.



Our hammer range includes:

Superior Range

Halco's Superior range are the obvious choice for the Oil & Gas industry where both maximum speed and reliability are expected.

Standard features of the Superior range include diamond enhanced drill bits and a bit catcher system. Variable bypass ports have been added to the top adaptor as well as live air bleed pistons. Together these features give the driller the ability to inject greater volumes of air and drilling additives to increase the uphole velocity required to drill deeper holes.

RC Range

The Halco reverse circulation (RC) product range has been designed to give maximum performance in Exploration and Grade Control applications.

Unlike standard DTH hammers, RC hammers return the rock cuttings back to the surface through the internals of the hammer and drill string.

Geologists worldwide trust Halco RC products to help them explore prospects and identify mineral lithologies.

Dominator Range.

The Dominator range of hammers offer higher performance and are ideally suited for medium to higher air pressures in blast-hole applications.

This design is simple with fewer components, which makes servicing and onsite maintenance easy. With a range of heavy duty models on offer this extends the life of the hammer considerably.

Mach Range

This is a proven hammer which has been around for over 35 years. Designed for all kinds of drilling conditions but excels in overburden drilling due to the high frequency with less blow energy, particularly in unstable ground conditions. This hammer can drill smaller diameters than the standard range and is ideal for civil engineering applications.

GP Range

The GP series offers breakthrough performance across some of the most challenging applications. The robust non ported piston design dramatically improves drilling performance when operating under a column of water.

A built-in choke facility allows the driller to adjust the volume of air through the hammer to optimise cutting evacuation.



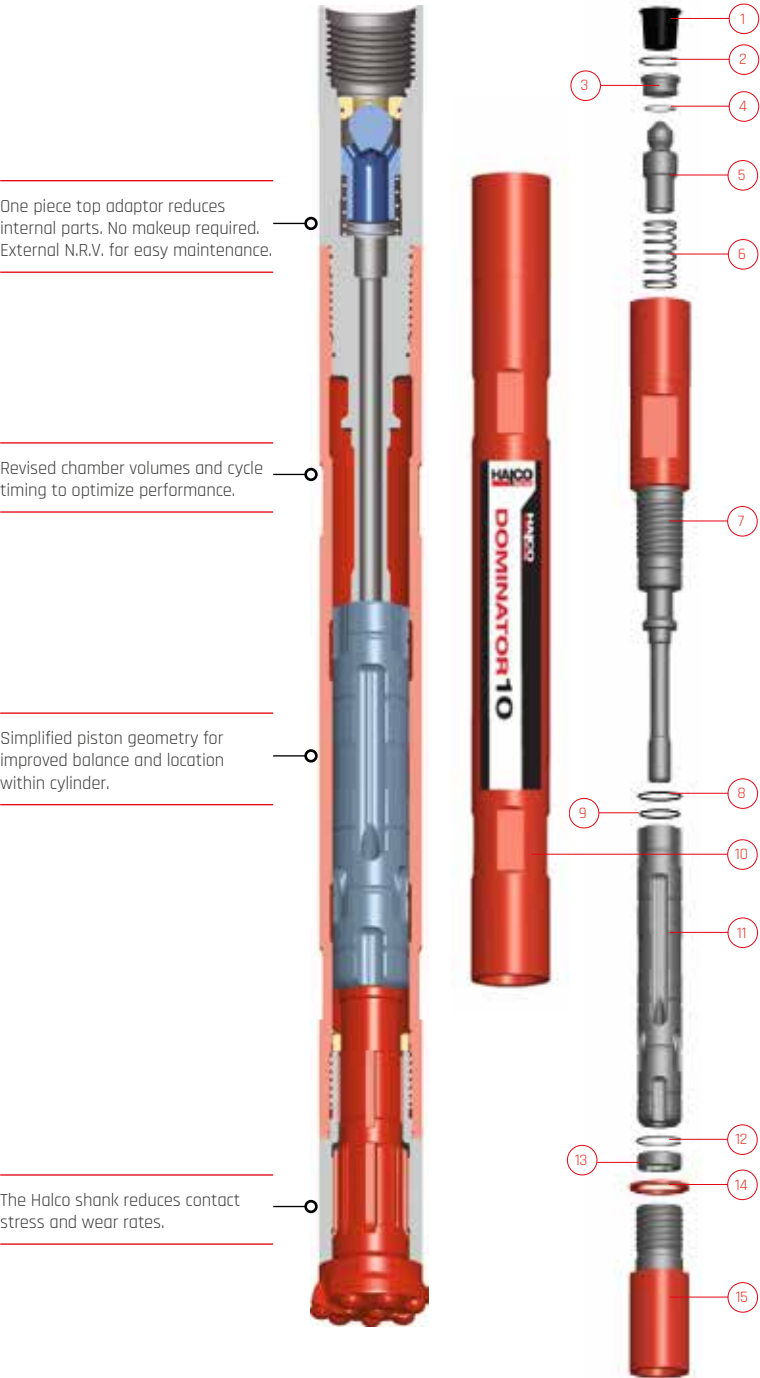
Hammers

1" Dominator 10

DOMINATOR 10

The Dominator 10 is designed for small diameter drilling operations.

The Dominator 10 provides high performance at both low and high pressures. The strong robust design withstands heavy duty applications and includes an N.R.V (Non Return Valve) which is fitted into the hammer to prevent flooding where ground water is present.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
55mm - 64mm 2 1/8 - 2 1/2"	Halco 1	100 - 250 psi (7 - 17 bar)

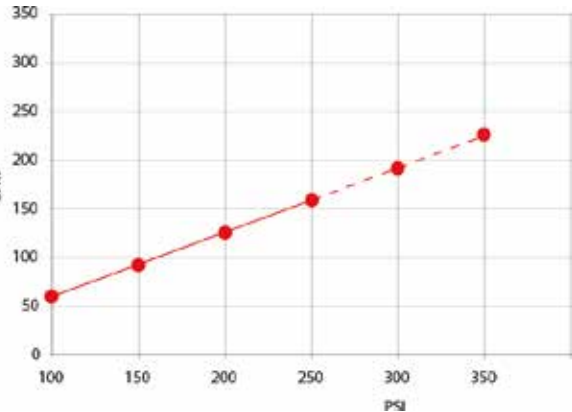
Hammer Overview

Hammer Model	Dominator 10
Part Number	600422
Shank	Halco 1
Thread connection	40mm DIN 405 6 TPI Box
Minimum bit diameter	55 MM
Hammer flat size	38mm (1.5")
Weight	7.0 Kg (15.4 lbs)
Outside diameter	47mm (1 7/8")
Length (shoulder to shoulder)	772mm (30.9")
Maximum weight on bit	120 Kg (264 lbs)

Parts List

Hammer type	Dominator 10	Shank	Halco 1	Part number	600422	Maintenance Kits	
						Service Kit SK31	Repair Kit RK54
Item	Description	Part No.					
1	Thread Protector	200005					
2	Snap Ring	783041	1	1			
3	Non Return Valve Seat	603448		1			
4	O-Ring	768174	1	1			
5	Non Return Valve	603447		1			
6	N.R.V. Spring	760100	1	1			
7	Top Adaptor	603413					
8	O-Ring	768168	1	1			
9	O-Ring	768175	1	1			
10	Cylinder	603410					
11	Piston	603450					
12	Snap Ring	783037	1	1			
13	Bit Retaining Ring	603449		1			
14	Chuck Spacer	603412	1	1			
15	Chuck	603411		1			

Air Consumption



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
70mm - 76mm 2 3/4 - 3"	Halco 2	100 - 250 psi (7 - 17 bar)

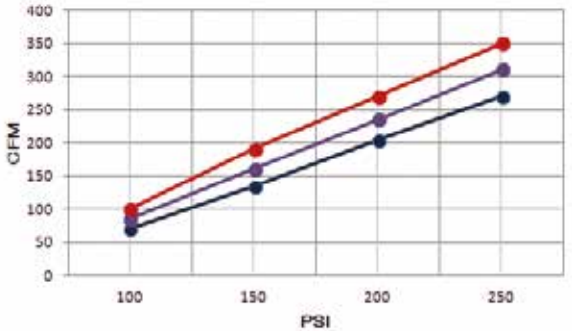
Hammer Overview

Hammer Model	Mach 20
Part Number	600169
Shank	Halco 2
Thread connection	50mm DIN405 6 TPI Box
Minimum bit diameter	70 MM
Hammer flat size	48mm (1.89")
Weight	13.0 Kg (28.6 lbs)
Outside diameter	62mm (2.44")
Length (shoulder to shoulder)	840mm (33.0")
Maximum weight on bit	150 Kg (330 lbs)

Parts List

Hammer type	Mach 20	Shank	Halco 2	Part number	600423	Maintenance Kits	
						Service Kit SK18	Repair Kit SK30
Item	Description	Part No.					
1	Thread Protector	200002					
2	Top Adaptor	602715					
3	Wear-Space (Option)	602726	1	1			
4	Non Return Valve	602727		1			
5	N.R.V. Spring	760111	1	1			
6	N.R.V. Housing	602720					
7	Valve Centraliser	602724	1	1			
8	Valve	602725	1	1			
9	Solid bleed plug -Std	732025	1	1			
	3mm Bleed Plug	602736	1	1			
10	Air Distributor	602719		1			
11	Liner	602717					
12	Cylinder	602714					
13	Piston	602718					
14	Piston Guide Bush	602723					
15	Bottom Spacer	602722		1			
16	Bit Retaining Ring	602721		1			
17	Chuck Lock Ring	602729	1	1			
18	Chuck	602716		1			

Air Consumption



2" Mach 20

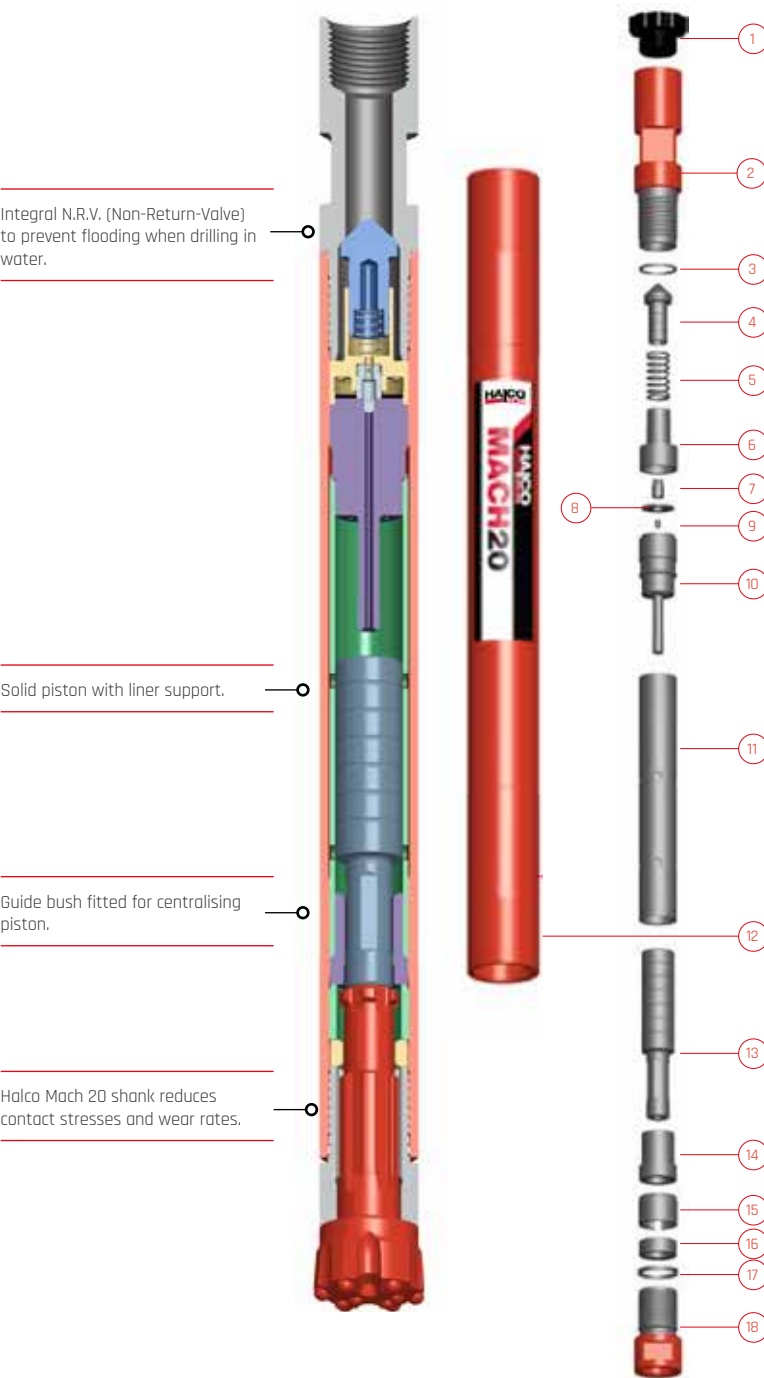
MACH 20

The valved design of the Mach 20 provides high performance at low pressure. A non return valve is fitted to prevent flooding when drilling in water.

The Mach 20 has a strong robust design to withstand heavy duty applications. The Mach 20 is fitted with adjustable chokes to give three levels of air volumes for different drilling conditions. The unique drill bit design for Mach 20 does not use foot valve which reduces the possibility of hammer failure. Mach 20 shank has a long service life and reduces contact stresses and wear rates.

Suitable for operation at air pressures of 100 - 250 psi (7 - 17 bar).

Drilling diameters of 70 - 76mm (2 3/4 - 3").



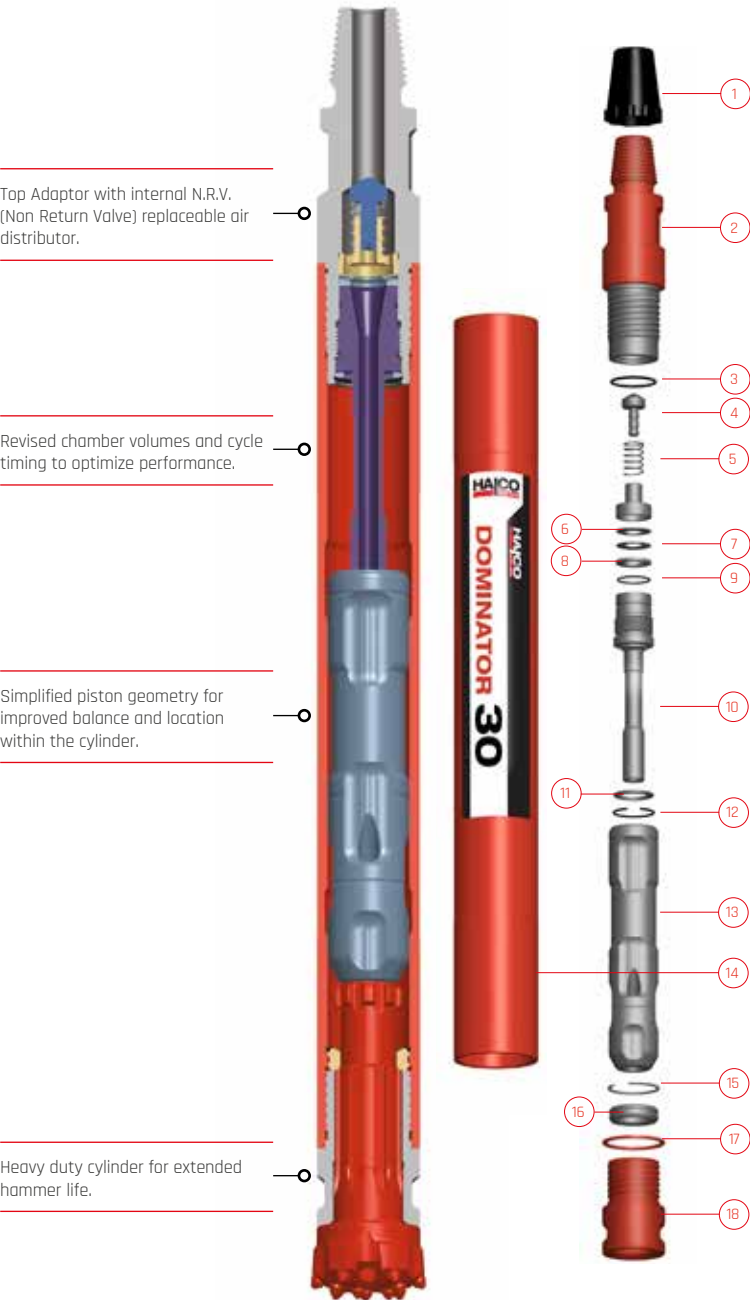
3" Dominator 30

DOMINATOR 30

The Dominator 30 hammer is a high performance hammer for medium to hard rock conditions.

This hammer has no internal liner which allows a larger piston diameter for greater blow energy.

The Dominator 30 has fewer parts than other 3 inch hammers in the market, which allows for easy maintenance and servicing.



AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
90mm - 105mm 3 1/2 - 4 1/8"	I.R.3.5	100 - 362 psi (7 - 25 bar)

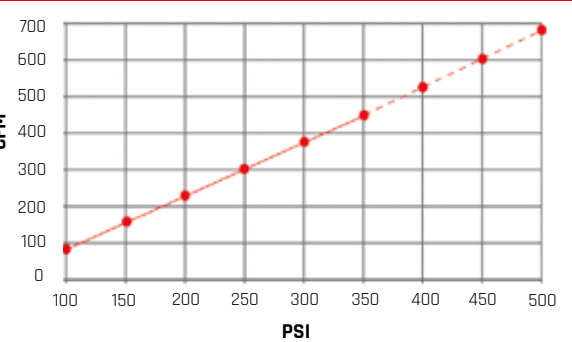
Hammer Overview

Hammer Model	Dominator 30
Part Number	600424
Shank	IR3.5
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	90 MM
Hammer flat size	63mm (2.48")
Weight	23Kg (83.8 lbs)
Outside diameter	81mm (3.35")
Length (shoulder to shoulder)	832mm (32.25")
Minimum weight on bit	150 Kg (330lbs)
Maximum weight on bit	300 Kg (660lbs)

Parts List

Hammer type	Dominator 30	Maintenance Kits	
Shank	IR3.5	Service Kit	Repair Kit
Part number	600424	SK27	RK47
Item	Description	Part No.	
1	Thread Protector	200111	
2	Top Adaptor	602980	
3	O-Ring	768098	1
4	Non Return Valve	602328	1
5	N.R.V. Spring	760100	1
6	N.R.V. Housing	602971	
7	Disk Springs	760094	1
8	Thrust Washer	602972	
9	O-Ring	768033	1
10	Air Distributor	603108	1
11	Washer	602979	
12	Snap Ring	783035	1
13	Piston	603107	
14	Cylinder	602974	
15	Spacer	783036	1
16	Bit Retaining Ring	602976	1
17	Chuck Spacer	602977	1
18	Chuck	602978	1
	Foot Valve	602922	1

Air Consumption



Figures are based on theoretical data

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
95mm - 105mm 3 1/2 - 4 1/8"	MD3.5	100 - 362 psi (7 - 25 bar)

Hammer Overview

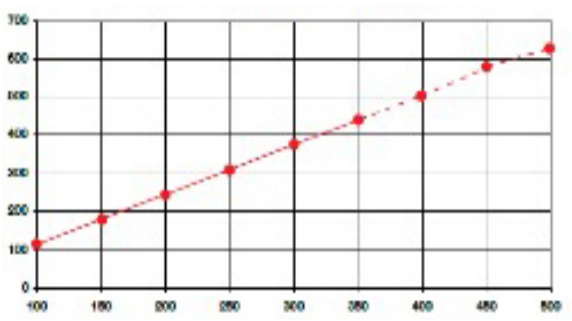
Hammer Model	GP300
Part Number	600393
Shank	MD3.5
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	95 MM
Hammer flat size	64mm (2.520")
Weight	24 Kg (52.91 lbs)
Outside diameter	85mm (3.35")
Length (shoulder to shoulder)	885mm (34.84")
Minimum weight on bit	150 Kg (330lbs)
Maximum weight on bit	300 Kg (660lbs)

Parts List

Hammer type	GP300	Maintenance Kits	
Shank	MD3.5	Service Kit	Repair Kit
Part number	600393	SK64	RK101
Item	Description	Part No.	
1	Thread Protector	200111	
2	Top Adaptor	604371	
3	Choke - Blank	604480	1
	Choke - 1/8"	604481	1
	Choke - 3/16"	604482	1
4	Non Return Valve	604378	1
5	N.R.V. Spring	760154	
6	Make up Shim - 4.9mm	602634	1
	Make up Shim - 5.3mm	602635	1
	Make up Shim - 5.7mm	602636	1
7	Compression Spring	760107	1
8	Air Distributor	604461	
9	O-Ring	768099	1
10	Liner	604459	
11	Cylinder	604458	
12	Piston	604460	
13	Snap Ring	783051	1
14	Retaining Ring band	792040	1
15	Bit Retaining Ring	604457	1
16	Chuck	604456	1
	Foot Valve	602922	1

*Alternative 600394 IR3.5 Shank

Air Consumption



3" GP300

GP300

Dominator 375 hammer gives up to 25% increase in performance compared to Dominator 350 and Dart 350.

This exceptional hammer is simple, robust and has a high penetration rate. The Dominator 375 has an integral N.R.V. (Non-Return-Valve) with an adjustable air bleed system to adjust air volume, this hammer has a liner and solid piston design. This hammer has few internal parts which makes on site servicing easy with minimum tools needed. The MD 3.5 shank drill bit can be fitted for improved service life and heavy duty applications. Suitable for operation at air pressures of 100 - 350 psi (7 - 24 bar). Drilling diameters of 95mm - 115mm (3 1/2 - 4 1/8").



4" Super Dominator 400

SUPER DOMINATOR 400

The Super Dominator 400 is a heavy duty hammer with thicker 98mm (3.8") diameter outer components to provide extra service life in abrasive conditions and is suitable for waterwell drilling.

The Super Dominator 400 is designed for maximum performance at high pressures.

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
108mm - 150mm (4 1/4 - 5 7/8")	DHD340A	100 - 507psi (7 - 35 bar)

Hammer Overview

Hammer Model	SDOM400
Part Number	600258
Shank	DHD340A
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	108 MM
Hammer flat size	65mm (2.56")
Weight	38 Kg (83.8 lbs)
Outside diameter	98mm (3.875")
Length (shoulder to shoulder)	1042mm (41")
Minimum weight on bit	250 Kg (550 lbs)
Maximum weight on bit	500 Kg (1100 lbs)

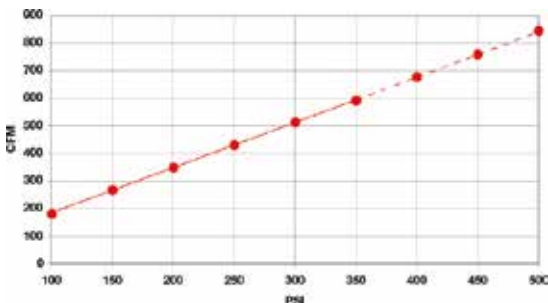
Parts List

Hammer type	SDOM400	Maintenance Kits	
Shank	DHD340A	Service Kit	Repair Kit
Part number	600258	SK45	RK83
Item	Description	Part No.	
1	Thread Protector	200111	
2	Top Adaptor	603215	
3	O-Ring	768040	1
4	Non Return Valve	602633	1
5	N.R.V. Spring	760108	1
6	Make up Shim - 4.9mm	602634	1
	Make up Shim - 5.3mm	602635	1
	Make up Shim - 5.7mm	602636	1
7	Compression Spring	760107	1
8	Cylinder	603384	
9	Air Distributor	603266	
10	O-Ring	768050	1
11	Piston	603383	
12	Snap Ring	783029	1
13	Bit Retaining Ring	603586	1
14	Chuck Spacer	602733	1
15	Chuck	603218	1
	Foot Valve	601773	

Alternative thread connections

Part Number	600229
Thread connection	2 3/8" API Reg Pin Plain Diameter

Air Consumption



Figures are based on theoretical data

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
108mm - 150mm (4 1/4 - 5 7/8")	HALCO 4	100 - 507 psi (1 - 30 bar)

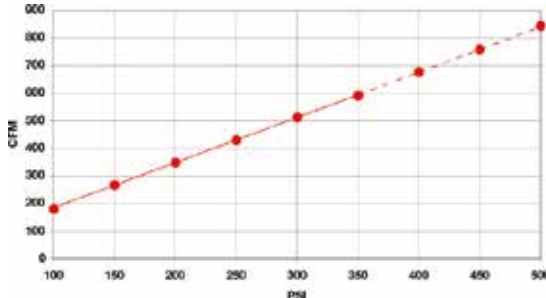
Hammer Overview

Hammer Model	Super Dominator 400
Part Number	600224
Shank	Halco 4
Thread connection	2 3/8" API Reg Pin
Minimum bit diameter	108 mm
Hammer flat size	65 mm (2.560")
Weight	38 Kg (83.77 lbs)
Outside diameter	98 mm (3 7/8")
Length (shoulder to shoulder)	1065 mm (42")
Minimum weight on bit	250 Kg (550 lbs)
Maximum weight on bit	500 Kg (1100 lbs)

Parts List

Hammer type	Super Dominator 400	Maintenance Kits	
Shank	HALCO 4	Service Kit	Repair Kit
Part number	600224	SK30	RK52
Item	Description	Part No.	
1	Thread Protector	200111	
2	Top Adaptor	603215	
3	O-Ring	768040	2
4	N.R.V.	602633	1
5	N.R.V. Spring	760108	2
6	Shim - 4.9mm	602634	1
	Shim 5.3mm	602635	1
	Shim - 5.7mm	602636	1
7	Compression Spring	760107	1
8	Air Distributor	603266	
9	O-Ring	768050	2
10	Cylinder	603390	
11	Piston	603396	
12	Snap Ring	783029	1
13	Containment Band	792037	2
14	Bit Retaining Ring	603793	1
15	Chuck Lock Ring	602733	2
16	Chuck	603273	1
17	End Cap	741019	
	Foot Valve	601641	1

Air Consumption



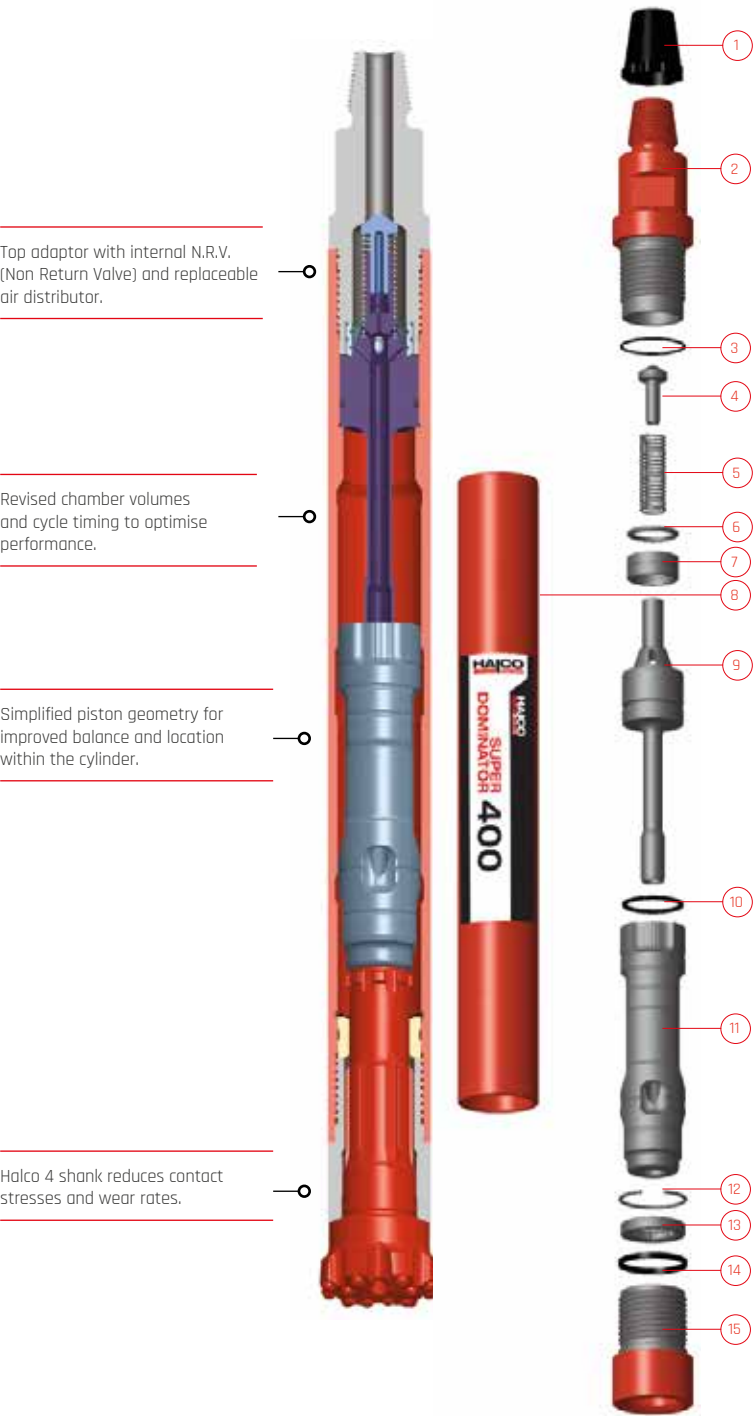
Figures are based on theoretical data

4" Super Dominator 400

SUPER DOMINATOR 400

The Super Dominator 400 is a heavy duty hammer with thicker 98mm (3.8") diameter outer components to provide extra service life in abrasive conditions and is suitable for waterwell drilling.

The Super Dominator 400 is designed for maximum performance at high pressures.

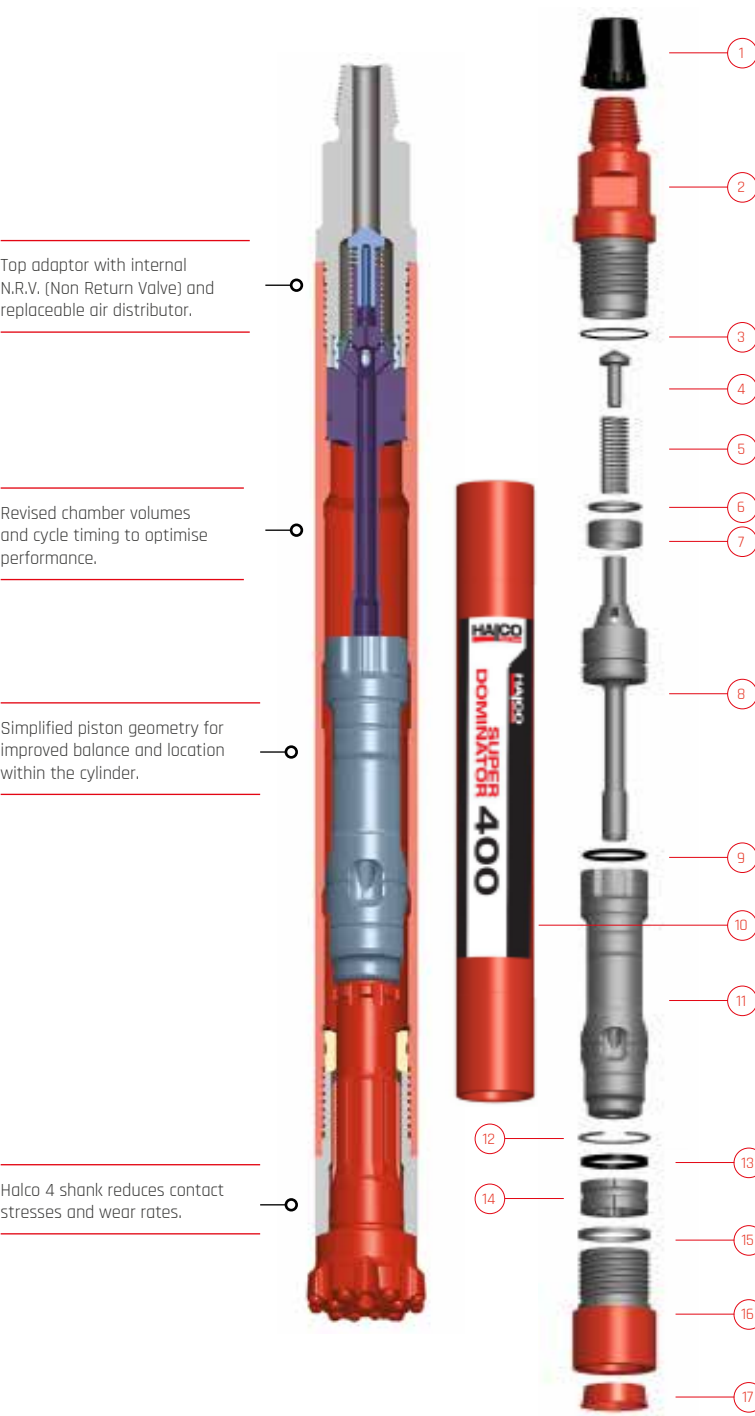


Top adaptor with internal N.R.V. (Non Return Valve) and replaceable air distributor.

Revised chamber volumes and cycle timing to optimise performance.

Simplified piston geometry for improved balance and location within the cylinder.

Halco 4 shank reduces contact stresses and wear rates.



Top adaptor with internal N.R.V. (Non Return Valve) and replaceable air distributor.

Revised chamber volumes and cycle timing to optimise performance.

Simplified piston geometry for improved balance and location within the cylinder.

Halco 4 shank reduces contact stresses and wear rates.

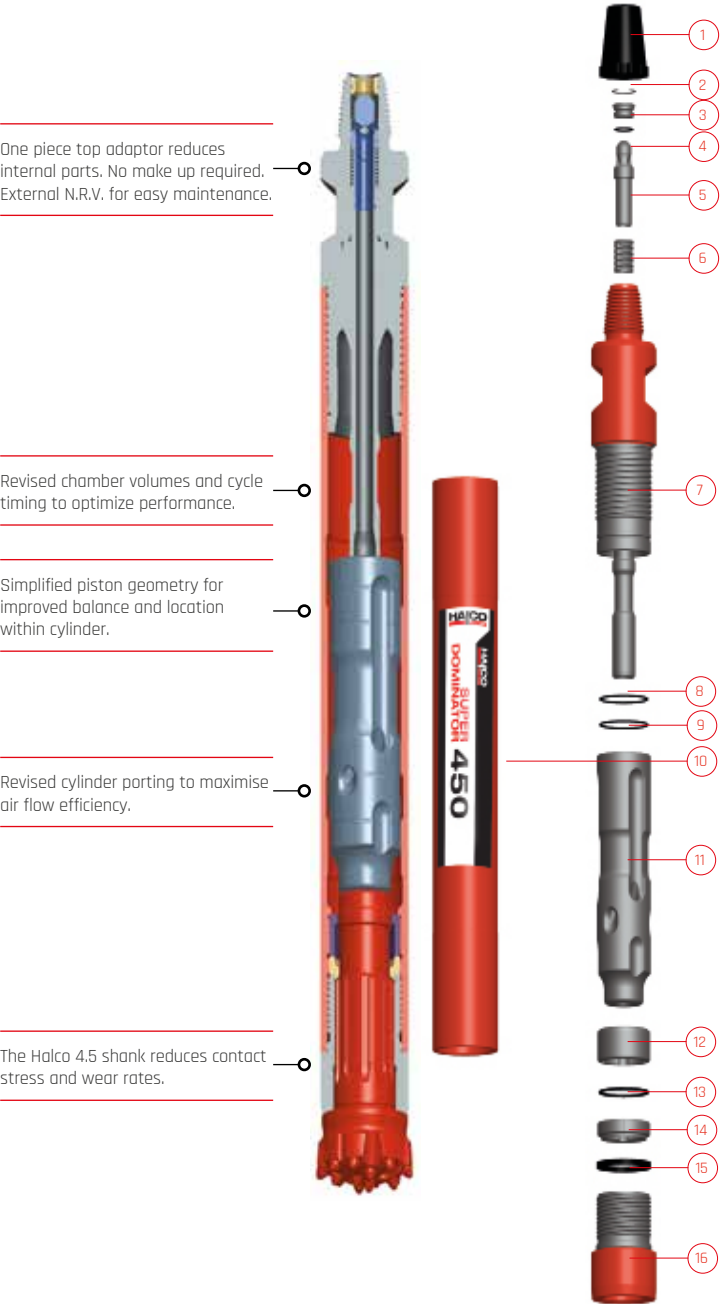
4" Super Dominator 450

SUPER DOMINATOR 450

The Super Dominator 450 has been specifically designed for high production drilling in blast hole applications.

The hammer is robust and has few parts, making it user friendly and reliable. The Super Dominator 450 is fitted with a N.R.V (Non Return Valve) in the top adaptor for a quick, easy inspection and maintenance operation. A fixed air distributor in the top adaptor means the 450 requires no shimming which simplifies servicing. It also has no liner which increases the piston power output.

The Super Dominator 450 utilizes Halco's 12 spline shank which has a simplistic robust geometry combined with increased drive contact area.



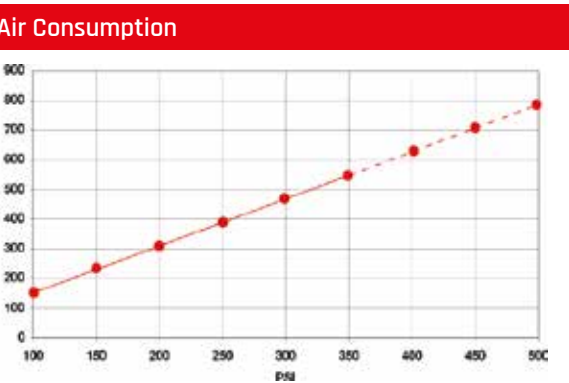
AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
110mm - 140mm 4 5/16 - 5 1/2"	Halco 4.5	100 - 507 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	SDOM450
Part Number	600382
Shank	Halco 4.5
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	110 MM
Hammer flat size	65mm (2.56")
Weight	38.5 Kg (84.7 lbs)
Outside diameter	100.5mm (4.0")
Length (shoulder to shoulder)	914mm (36.0")
Minimum weight on bit	250 Kg (550 lbs)
Maximum weight on bit	500 Kg (1100 lbs)

Parts List				
Hammer type	SDOM400	Maintenance Kits		
Shank	Halco 4.5			
Part number	600382	Service Kit	Repair Kit	
Item	Description	Part No.	SK59	RK93
1	Thread Protector	200111		
2	Snap Ring	783049	1	1
3	N.R.V. Seat	603919		1
4	O-Ring	768187	1	1
5	Non Return Valve	603918		1
6	N.R.V. Spring	760142	1	1
7	Top Adaptor	603946		
8 & 9	O-Ring (2)	768190	2	2
10	Cylinder	604387		
11	Piston	604392		
12	Bit Guide Bush	604314		1
13	O-Ring	768189	1	1
14	Bit Retaining Ring	603948		1
15	Chuck Lock Ring	602733	1	1
16	Chuck	603939		1
	Foot Valve	603951		1

Alternative thread connections	
Part Number	TBA
Thread connection	2 7/8" API Reg Pin



Figures are based on theoretical data

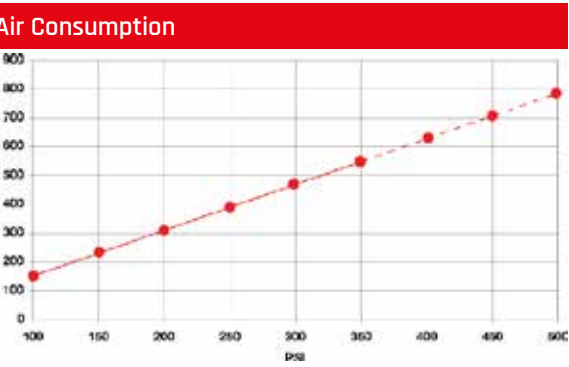
AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
110mm - 140mm 4 5/16 - 5 1/2"	Halco 4.5	100 - 507 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	SDOM450HD
Part Number	600421
Shank	Halco 4.5
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	115MM
Hammer flat size	65mm (2.56")
Weight	42.0 Kg (92.6 lbs)
Outside diameter	103.5mm (4.074")
Length (shoulder to shoulder)	914mm (36.0")
Minimum weight on bit	250 Kg (550 lbs)
Maximum weight on bit	500 Kg (1100 lbs)

Parts List				
Hammer type	Super Dominator 450HD	Maintenance Kits		
Shank	Halco 4.5			
Part number	600421	Service Kit	Repair Kit	
Item	Description	Part No.	SK59	RK141
1	Thread Protector	200111		
2	Snap Ring	783049	2	2
3	N.R.V. Seat	603919		1
4	O-Ring	768187	2	2
5	Non Return Valve	603918		1
6	N.R.V. Spring	760142		2
7	Top Adaptor	600677		
8 & 9	O-Ring (2)	768190	2	2
10	Cylinder	602555		
11	Piston	604392		
12	Guide Bush	604314		1
13	O-Ring	768189	2	2
14	Bit Retaining Ring	603948		1
15	Chuck Lock Ring	602733	2	2
16	Chuck	DP516		1
17	End Cap	741019		
	Foot Valve	603951		2

Alternative thread connections	
Part Number	TBA
Thread connection	2 7/8" API Reg Pin



Figures are based on theoretical data

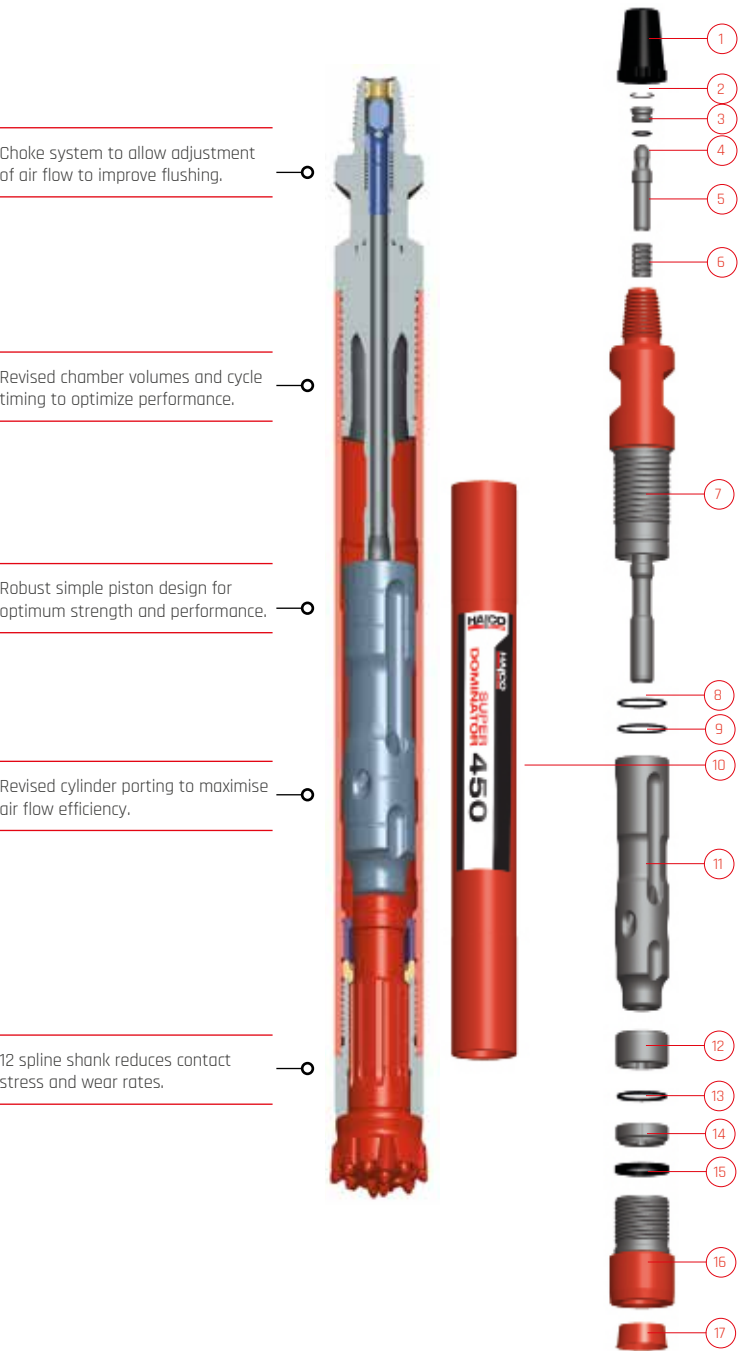
4" Super Dominator 450HD

SUPER DOMINATOR 450HD

The Super Dominator 450HD has been specifically designed to provide more impact for high production drilling in blast hole applications.

The hammer is robust and has few parts, making it user friendly and reliable. The Super Dominator 450HD is fitted with a N.R.V (Non Return Valve) in the top adaptor for a quick, easy inspection and maintenance operation. A fixed air distributor in the top adaptor means the 450HD requires no shimming which simplifies servicing. It also has no liner which increases the piston power output.

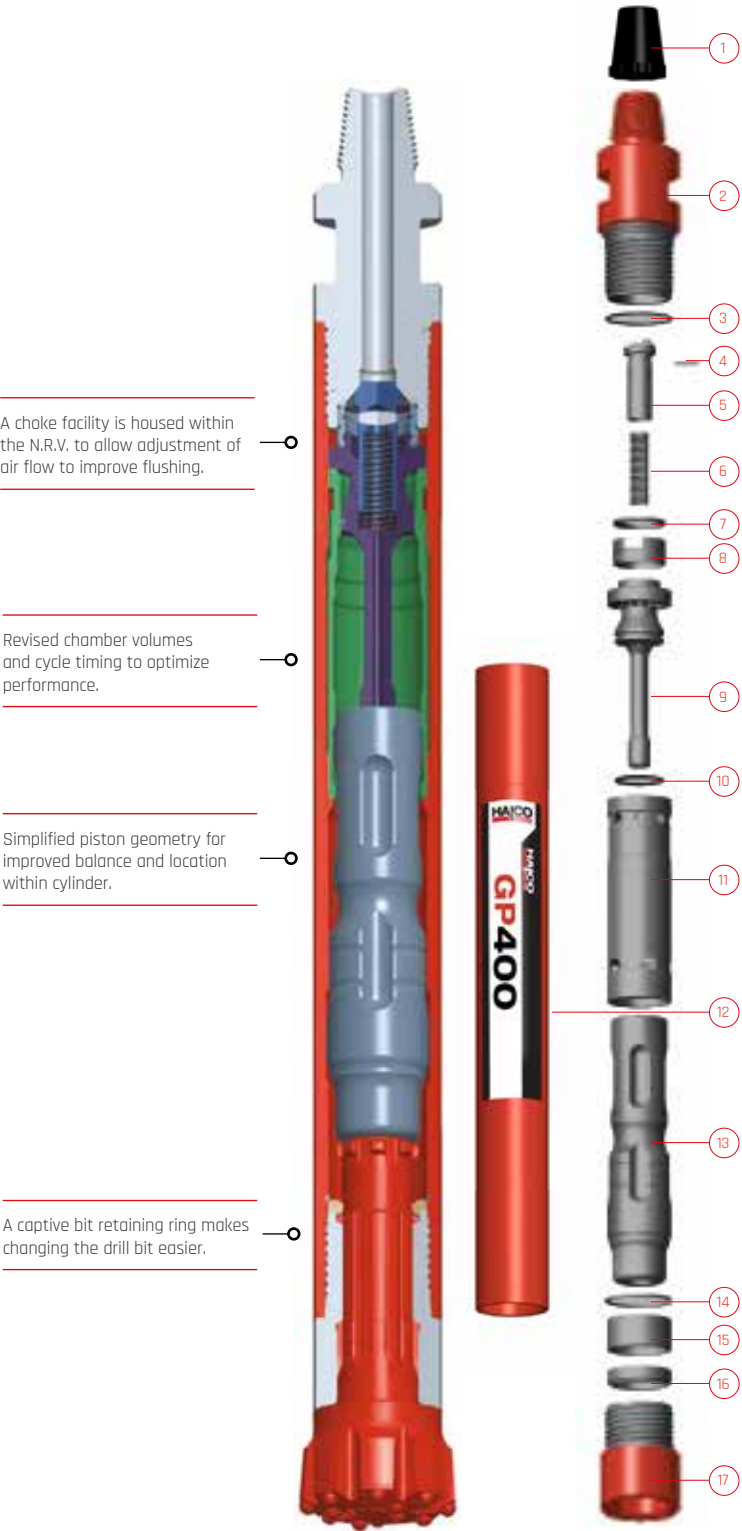
The Super Dominator 450HD utilizes Halco's 12 spline shank which has a simplistic robust geometry combined with increased drive contact area.



4" GP400 - DHD340

GP 400

The GP400 is a high performance hammer which can drill under a head of water, typically suited to Waterwell and Geothermal applications due to its non-ported piston design. It features a choke facility which helps to adjust air flow through the hammer.



A choke facility is housed within the N.R.V. to allow adjustment of air flow to improve flushing.

Revised chamber volumes and cycle timing to optimize performance.

Simplified piston geometry for improved balance and location within cylinder.

A captive bit retaining ring makes changing the drill bit easier.

AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
108mm - 140mm 4 1/4 - 5 1/2"	DHD 340 TD 40	100 - 435 psi (7 - 30 bar)

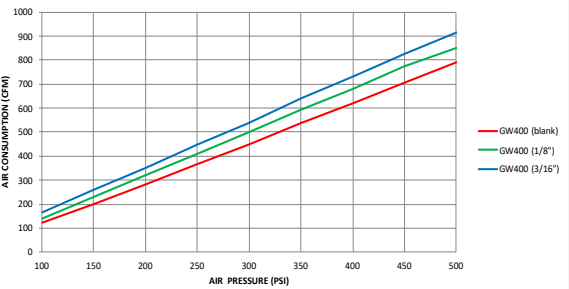
Hammer Overview

Hammer Model	GP400
Part Number	600466
Shank	DHD340
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	108 MM
Hammer flat size	66mm (2.560")
Weight	40 Kg (122.3 lbs)
Outside diameter	98mm (3.858")
Length (shoulder to shoulder)	954mm (37.5")
Minimum weight on bit	250 Kg (550lbs)
Maximum weight on bit	500 Kg (1100lbs)

Parts List

Hammer type		Maintenance Kits	
Shank			
Part number		Service Kit	Repair Kit
Item		SK72	RK123
1	Thread Protector	200111	
2	Top Adaptor	602646	
3	O-Ring	768190	1
4	Choke - Solid	604480	1
	Choke - 1/8"	604481	1
	Choke - 3/16"	604482	1
5	Non Return Valve	604444	1
6	N.R.V. Spring	760079	1
7	Make up Shim - 4.9mm	602634	1
	Make up Shim - 5.3mm	602635	1
	Make up Shim - 5.7mm	602636	1
8	Compression Ring	604994	1
9	Air Distributor	604992	
10	O-Ring	768204	1
11	Liner	604991	
12	Cylinder	604990	
13	Square Snap Ring	604995	
14	Piston	604993	
15	Snap Ring	783029	1
16	Bit Retaining Ring	603255	1
17	Chuck	603932	1
	Foot Valve	601773	1

Air Consumption



Figures are based on theoretical data

AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
110mm - 140mm 4 5/6 - 5 1/2"	Halco 4	100 - 435 psi (7 - 30 bar)

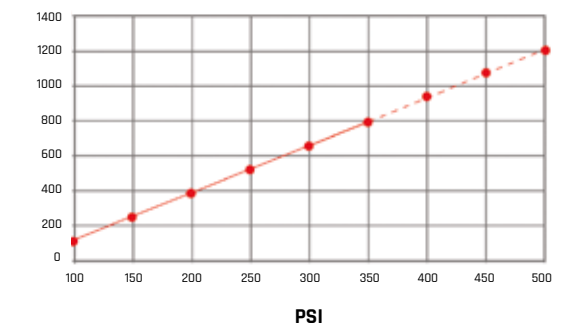
Hammer Overview

Hammer Model	MACH44
Part Number	600070
Shank	Halco 4
Thread connection	2 3/8" API Reg Pin Up
Minimum bit diameter	110 MM
Hammer flat size	65mm (2.560")
Weight	35.3 Kg (77.82 lbs)
Outside diameter	95mm (3.75")
Length (shoulder to shoulder)	1000mm (39.38")
Minimum weight on bit	250 Kg (550lbs)
Maximum weight on bit	500 Kg (1100lbs)

Parts List

Hammer type		Maintenance Kits	
Shank			
Part number		Service Kit	Repair Kit
Item		SK02	RK02
1	Thread Protector	200111	
2	Top Adaptor	601632	
3	O-Ring	768040	1
4	Non Return Valve	602330	1
5	N.R.V. Spring	760084	1
6	N.R.V. Seat	601778	1
7	N.R.V. Finger	601717	
8	Make up Shim 0.5mm	601640	1
	Make up Shim 1.0mm	601720	1
	Make up Shim 1.5mm	601721	1
8	Compression Ring	601635	1
10	O-Ring	768050	1
11	Air Distributor	601868	
12	Cylinder	601865	
13	Snap Ring	783014	1
14	Piston	602456	
15	Snap Ring	783014	1
16	Bit Retaining Ring	601945	1
17	Chuck Spacer	601431	1
18	Chuck	601439	1
	Foot Valve	601641	1

Air Consumption

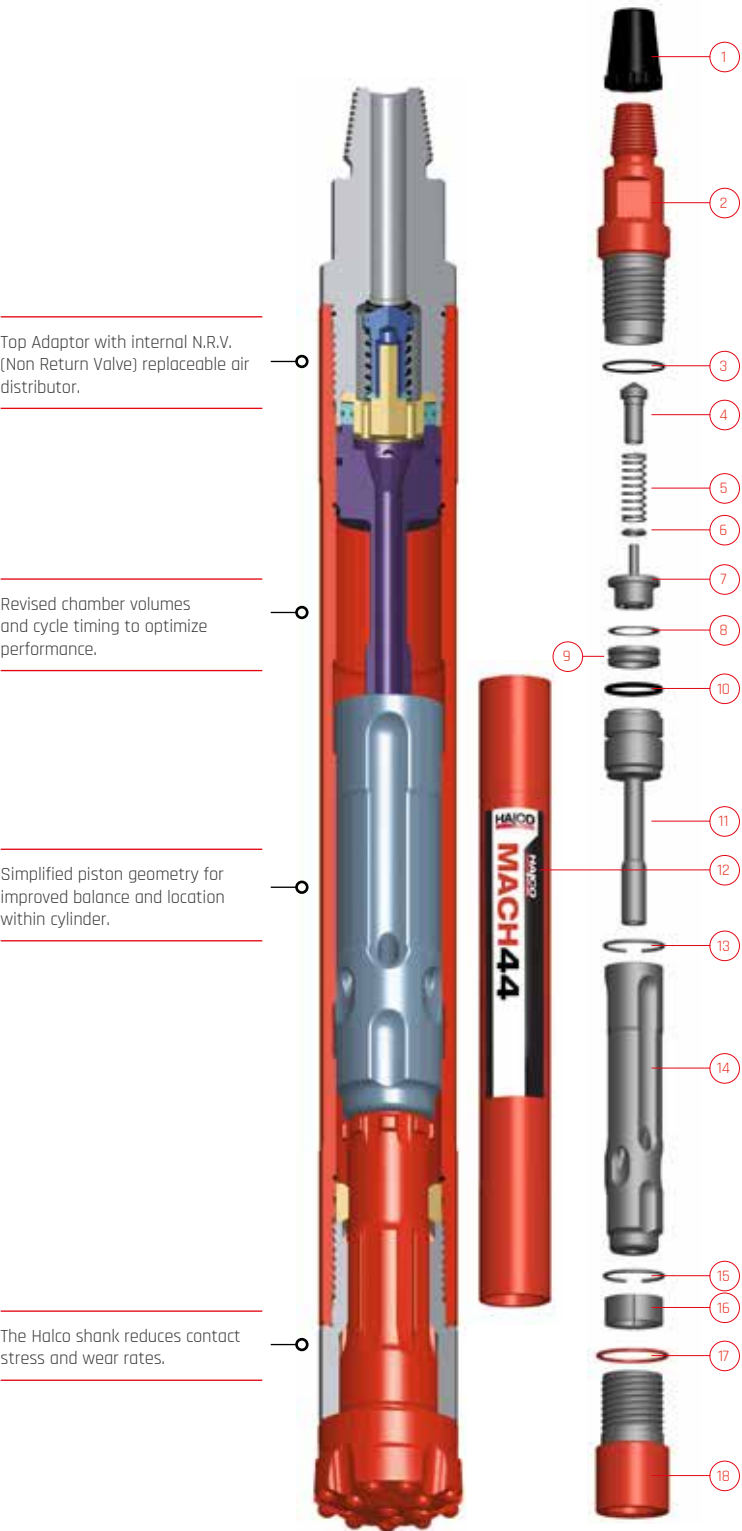


Figures are based on theoretical data

4" Mach 44

MACH 44

The Mach 44 is a general purpose hammer suitable for all rock conditions at a wide range of air pressures. With a proven track record of performance and reliability, the Mach 44 operates at a high frequency which makes it ideal for broken unstable ground conditions.



Top Adaptor with internal N.R.V. (Non Return Valve) replaceable air distributor.

Revised chamber volumes and cycle timing to optimize performance.

Simplified piston geometry for improved balance and location within cylinder.

The Halco shank reduces contact stress and wear rates.

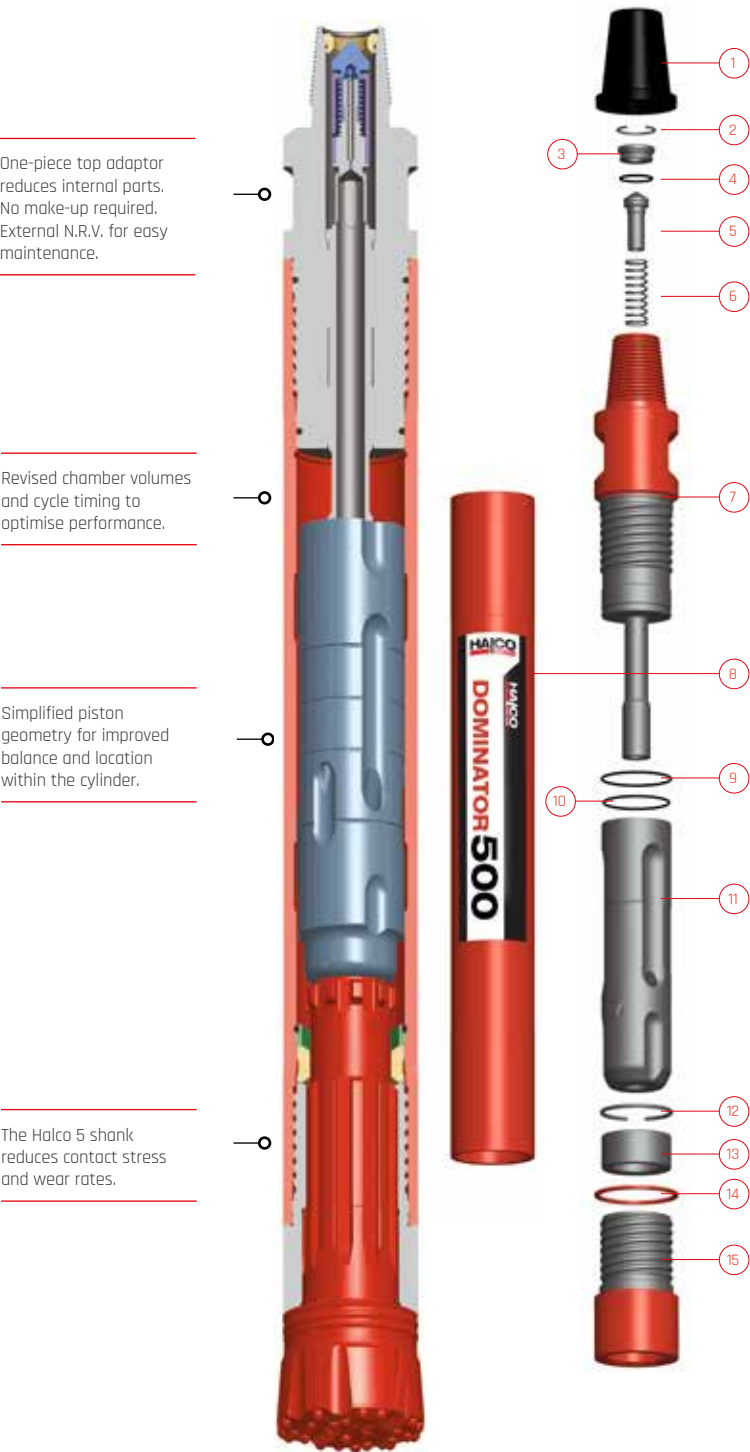
5" Dominator 500

DOMINATOR 500

The Dominator 500 is suitable for drilling at a wide range of air pressures making it a class leader in performance.

The Dominator 500 is ideal for General purpose and Drill & Blast applications. The Dominator 500 has a one-piece top adaptor with N.R.V fitted to eliminate shimming and it has no liner which increases the piston blow energy.

The Dominator 500 uses a few tools for maintenance, making it easy to maintain and service.



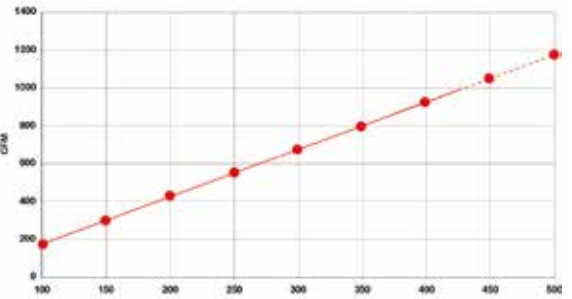
AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
127mm - 165mm 5 - 6 1/2"	Halco 5	100 - 507 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	DOM500
Part Number	600120
Shank	Halco 5
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	127 MM
Hammer flat size	90mm (3.54")
Weight	58.0 Kg (83.8 lbs)
Outside diameter	118mm (4.65")
Length (shoulder to shoulder)	980mm (38.6")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

Parts List		Maintenance Kits	
Hammer type	DOM500	Service Kit	Repair Kit
Shank	HALCO 5	SK72	RK123
Part number	600120		
Item	Description	Part No.	
1	Thread Protector	201701	
2	Snap Ring	783028	1
3	N.R.V. Seat	602703	1
4	O-Ring	768144	1
5	Non Return Valve	602330	1
6	N.R.V. Spring	760084	1
7	Top Adaptor	602704	
8	Cylinder	602457	
9	O-Ring	768091	1
10	O-Ring	768043	1
11	Piston	602459	
12	Snap Ring	783025	1
13	Bit Retaining Ring	602430	1
14	Chuck Spacer	602433	1
15	Chuck	602458	1
	Foot Valve	601843	1

Air Consumption



Figures are based on theoretical data

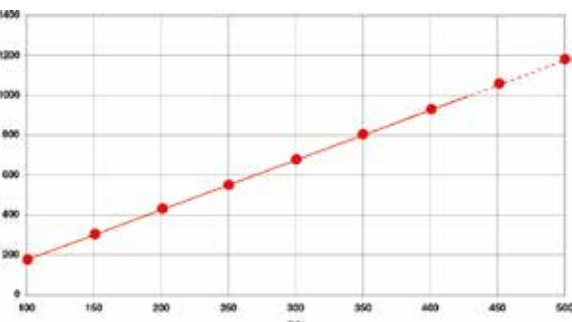
AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
140mm - 165mm 5 1/2 - 6 1/2"	DHD350	100 - 507 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	SDOM500
Part Number	600267
Shank	DHD350
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	140 MM
Hammer flat size	90mm (3.54")
Weight	58.0 Kg (83.8 lbs)
Outside diameter	118mm (4.65")
Length (shoulder to shoulder)	975mm (38.40")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

Parts List		Maintenance Kits	
Hammer type	DOM500	Service Kit	Repair Kit
Shank	DHD350	SK02	RK02
Part number	600267		
Item	Description	Part No.	
1	Thread Protector	201701	
2	Snap Ring	783028	1
3	N.R.V. Seat	603510	1
4	O-Ring	786144	1
5	Non Return Valve	603554	1
6	N.R.V. Spring	760135	1
7	N.R.V. Shield	603652	1
8	Top Adaptor	603513	
9	Cylinder	603368	
10	O-Ring	768091	1
11	O-Ring	768043	1
12	Piston	603369	
13	Snap Ring	783025	1
14	Bit Retaining Ring	602706	1
15	Chuck Lock Ring	603104	1
16	Chuck Spacer	602433	1
17	Chuck	602549	1
	Foot Valve	601902	1

Air Consumption



Figures are based on theoretical data

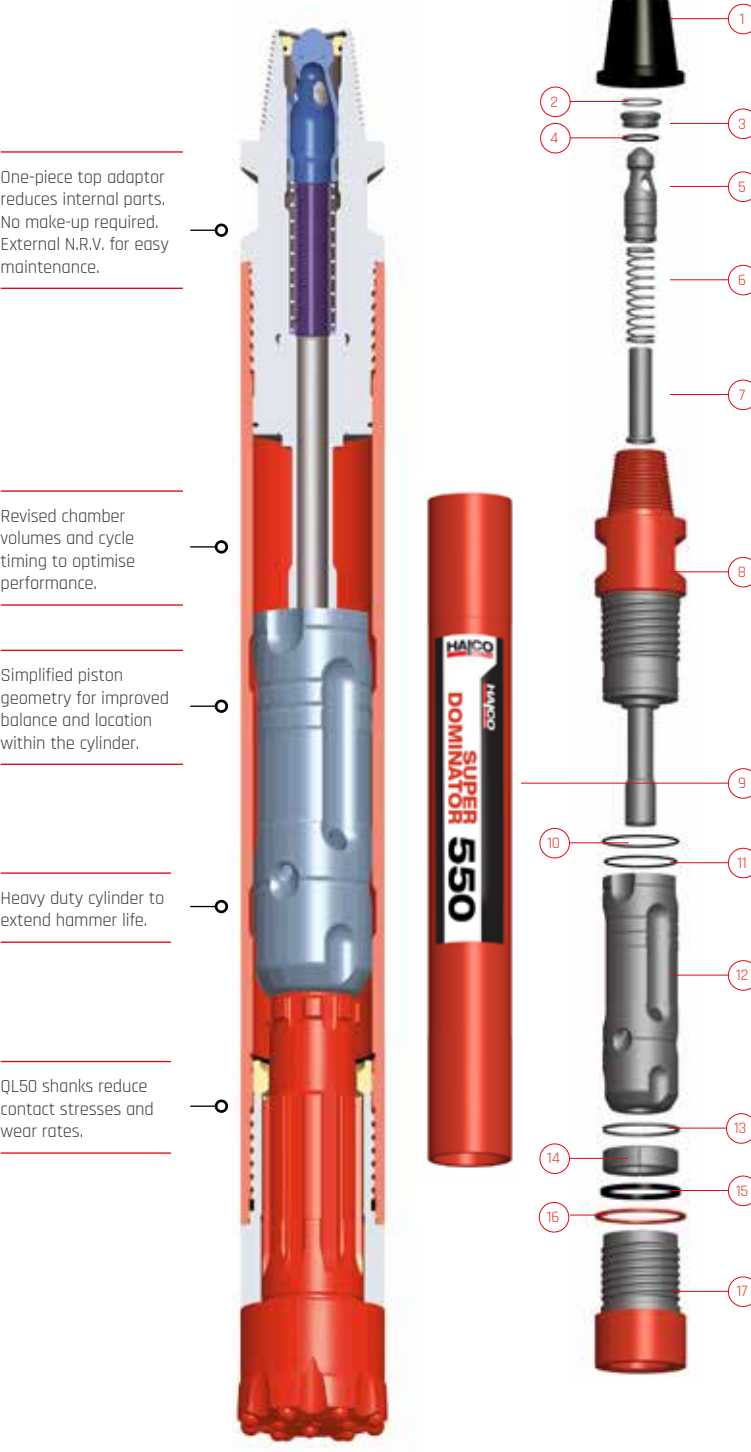
5" Super Dominator 500

SUPER DOMINATOR 500

Super Dominator 500 is a class leader in performance and is suitable for drilling at a wide range of air pressures but excels at high working pressures.

Combining the raw power of the Super Dominator 500 with extended life for abrasive conditions, the Super Dominator 500 has a one piece top adaptor with N.R.V (Non Return Valve) fitted for easy inspection and an integral finger to reduce maintenance and eliminating shimming.

The Super Dominator 500 has no liner which increases the piston blow energy and reduces parts required.



5" Super Dominator 550HD

SUPER DOMINATOR 550HD

Super Dominator 550HD is a class leader in performance and is suitable for drilling at a wide range of air pressures but excels at high working pressures.

Combining the raw power of the Super Dominator 500 with extended life for abrasive conditions, the Super Dominator 550HD has a larger outside diameter, a one piece top adaptor with N.R.V (Non Return Valve) fitted for easy inspection and an integral finger to reduce maintenance and eliminating shimming.

The Super Dominator 550HD has no liner which increases the piston blow energy and reduces parts required.

AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
140mm - 165mm 5 1/2 - 6 1/2"	DHD350	100 - 507 psi (7 - 35 bar)

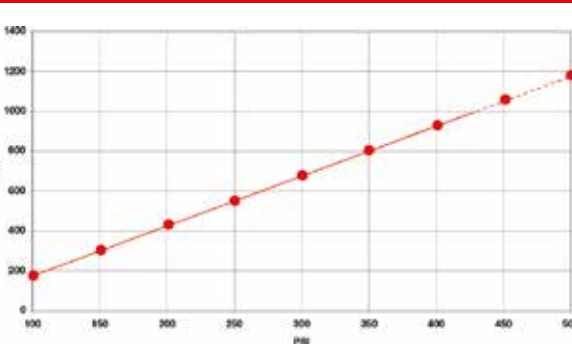
Hammer Overview

Hammer Model	SDOM550HD
Part Number	600293
Shank	DHD350
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	140 MM
Hammer flat size	90mm (3.54")
Weight	67.0 Kg (147.4 lbs)
Outside diameter	124.5mm (4.85")
Length (shoulder to shoulder)	975mm (38.4")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

Parts List

Hammer type	SDOM550HD	Maintenance Kits		
		Service Kit	Repair Kit	
Shank	DHD350			
Part number	600293	SK72	RK123	
Item	Description	Part No.		
1	Thread Protector	201701		
2	Snap Ring	783028	1	1
3	N.R.V. Seat	603510		1
4	O-Ring	786144	1	1
5	Non Return Valve	603554		1
6	N.R.V. Spring	760135	1	1
7	N.R.V. Shield	603652	1	1
8	Top Adaptor	603661		
9	Cylinder	603370		
10	O-Ring	768091	1	1
11	O-Ring	768043	1	1
12	Piston	603369		
13	Snap Ring	783025	1	1
14	Bit Retaining Ring	602706		1
15	Chuck Lock Ring	603104	1	1
16	Chuck Spacer	602863	1	1
17	Chuck	602866		1
	Foot Valve	601902		

Air Consumption



Figures are based on theoretical data

AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
140mm - 165mm 5 1/2 - 6 1/2"	QL50	100 - 507 psi (7 - 35 bar)

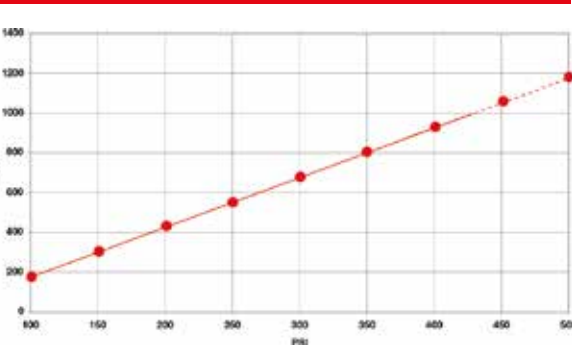
Hammer Overview

Hammer Model	SDOM550HD
Part Number	600294
Shank	QL50
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	140 MM
Hammer flat size	90mm (3.54")
Weight	67.0 Kg (147.4 lbs)
Outside diameter	124.5mm (4.85")
Length (shoulder to shoulder)	955mm (37.6")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

Parts List

Hammer type	SDOM550HD	Maintenance Kits		
		Service Kit	Repair Kit	
Shank	QL50			
Part number	600294	SK02	RK02	
Item	Description	Part No.		
1	Thread Protector	201701		
2	Snap Ring	783028	1	1
3	N.R.V. Seat	603510		1
4	O-Ring	786144	1	1
5	Non Return Valve	603554		1
6	N.R.V. Spring	760135	1	
7	N.R.V. Shield	603652	1	1
8	Top Adaptor	603661		
9	Cylinder	603370		
10	O-Ring	768091	1	1
11	O-Ring	768043	1	1
12	Piston	603524		
13	Snap Ring	783025	1	1
14	O-Ring	768043	1	1
15	Guide Bush	603520		1
16	Bit Retaining Ring	604981		1
17	Chuck Lock Ring	603104	1	1
18	Chuck	604980		1
	Foot Valve	603252		

Air Consumption



Figures are based on theoretical data

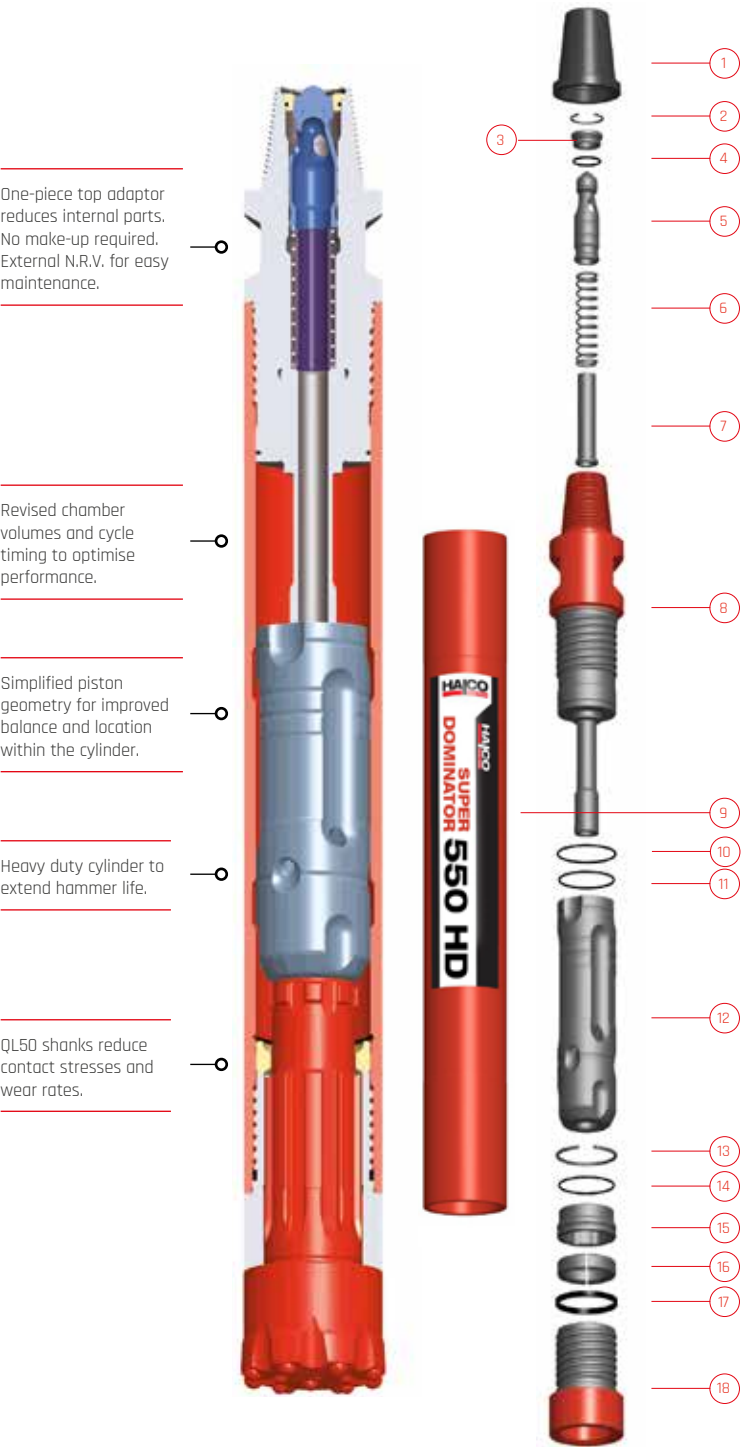
5" Super Dominator 550HD

SUPER DOMINATOR 550HD

Super Dominator 550HD is a class leader in performance and is suitable for drilling at a wide range of air pressures but excels at high working pressures.

Combining the raw power of the Super Dominator 500 with extended life for abrasive conditions, the Super Dominator 550HD has a larger outside diameter, a one piece top adaptor with N.R.V (Non Return Valve) fitted for easy inspection and an integral finger to reduce maintenance and eliminating shimming.

The Super Dominator 550HD has no liner which increases the piston blow energy and reduces parts required.



One-piece top adaptor reduces internal parts. No make-up required. External N.R.V. for easy maintenance.

Revised chamber volumes and cycle timing to optimise performance.

Simplified piston geometry for improved balance and location within the cylinder.

Heavy duty cylinder to extend hammer life.

QL50 shanks reduce contact stresses and wear rates.

5" GP500 - DHD350

GP500

The GP500 is a high performance hammer which can drill under a head of water, typically suited to Waterwell and Geothermal applications due to its non-ported piston design.

It features a choke facility which helps to adjust air flow through the hammer.

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
140mm - 165mm 5 1/2 - 6 1/2"	DHD350	100 - 435 psi (7 - 30 bar)

Hammer Overview

Hammer Model	GP500
Part Number	600426
Shank	DHD350
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	140 MM
Hammer flat size	66mm (64.750")
Weight	60 Kg (132.3 lbs)
Outside diameter	126mm (4.96")
Length (shoulder to shoulder)	1074mm (42.3")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

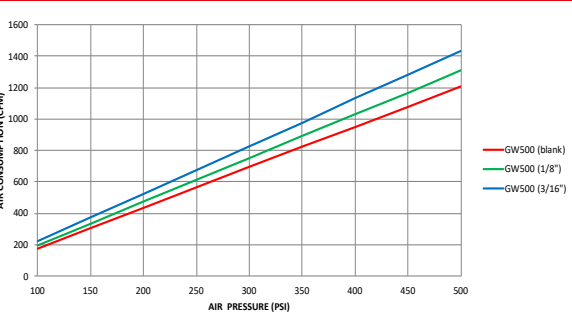
Parts List

Hammer type		Maintenance Kits	
Shank		Service Kit	Repair Kit
Part number		SK83	RK138
Item	Description	Part No.	
1	Thread Protector	201701	
2	Top Adaptor	604558	
3	Choke - Blank	604480	1 1
	Choke - 1/8"	604481	1 1
	Choke - 3/16"	604482	1 1
4	Non Return Valve	604444	
5	N.R.V. Spring	760079	1 1
6	Make up Shim - 4.5mm	604446	
	Make up Shim - 5.0mm	604447	1
	Make up Shim - 5.5mm	604448	1
7	Compression Spring	760109	
8	Air Distributor	604442	
9	O-Ring	768202	1 1
10	Liner	604932	
11	Square Snap Ring	604937	1 1
12	Cylinder	604931	
13	Piston	604439	
14	Snap Ring	783054	1 1
15	Bit Retainer Ring	604689	
16	Chuck	604688	1
	Foot Valve	601902	1

Alternative thread connections

Part Number	600429
Thread connection	2 3/8" API Reg Pin Up

Air Consumption



Figures are based on theoretical data

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
140mm - 165mm 5 1/2 - 6 1/2"	QL50	100 - 435 psi (7 - 30 bar)

Hammer Overview

Hammer Model	GP500
Part Number	600448
Shank	QL50
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	130 MM
Hammer flat size	90mm (3.543")
Weight	60 Kg (132.3 lbs)
Outside diameter	126mm (4.96")
Length (shoulder to shoulder)	1053mm (41.456")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

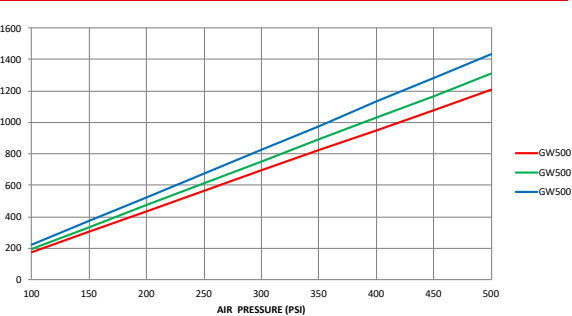
Parts List

Hammer type		Maintenance Kits	
Shank		Service Kit	Repair Kit
Part number		SK83	RK158
Item	Description	Part No.	
1	Thread Protector	201701	
2	Top Adaptor	604558	
3	Choke - Blank	604480	1 1
	Choke - 1/8"	604481	1 1
	Choke - 3/16"	604482	1 1
4	Non Return Valve	604444	
5	N.R.V. Spring	760079	1 1
6	Make up Shim - 4.5mm	604446	
	Make up Shim - 5.0mm	604447	1
	Make up Shim - 5.5mm	604448	1
7	Compression Spring	760109	
8	Air Distributor	604442	
9	O-Ring	768202	1 1
10	Liner	604932	
11	Square Snap Ring	604937	1 1
12	Cylinder	604931	
13	Piston	604936	
14	Snap Ring	783054	1 1
15	Guide Bush	604935	
16	O-Ring	768043	1 1
17	Bit Retaining Ring	604933	
18	Chuck Lock ring	604949	
19	Chuck	604934	
	Foot Valve	603252	1

Alternative thread connections

Part Number	600429
Thread connection	2 3/8" API Reg Pin Up

Air Consumption



5" GP500 - QL50

GP500 - QL50

The GP500 high performance hammer drills under a head of water typically suited to Waterwell and Geothermal applications due to its non-ported piston design.

It features a choke facility which helps to adjust air flow through the hammer.

Choke system to allow adjustment of air flow to improve flushing.

Optimised drive chamber capacities to maximise hammer performance.

Robust piston design for optimum strength and performance.

A captive bit retaining ring makes changing the drill bit easier.

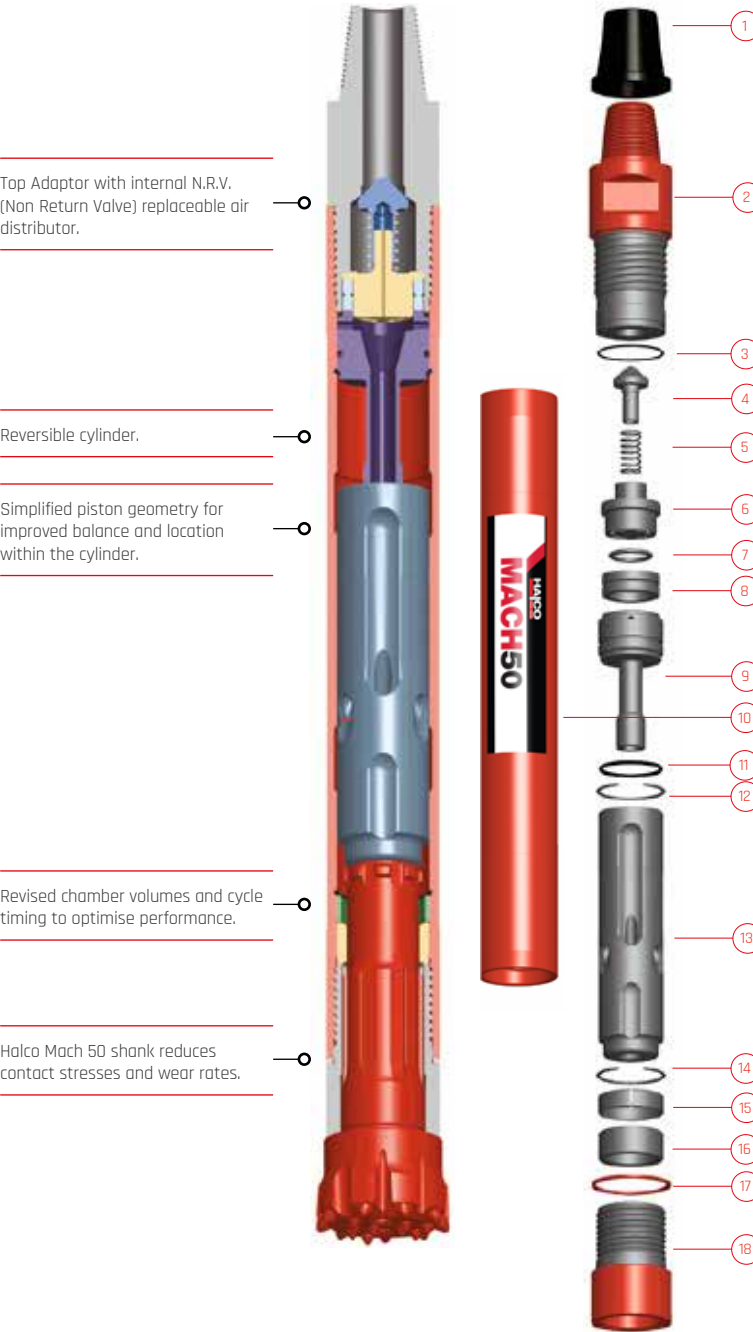
5" Mach 50

MACH 50

The Mach 50 is a general purpose hammer suitable for all rock conditions at a wide range of air pressures.

With a proven track record of performance and reliability, the Mach 50 operates at a high frequency which makes it ideal for broken unstable ground conditions.

The hammer is fitted with a reversible cylinder to prolong the service life, it also requires only a few tools to service and maintain.

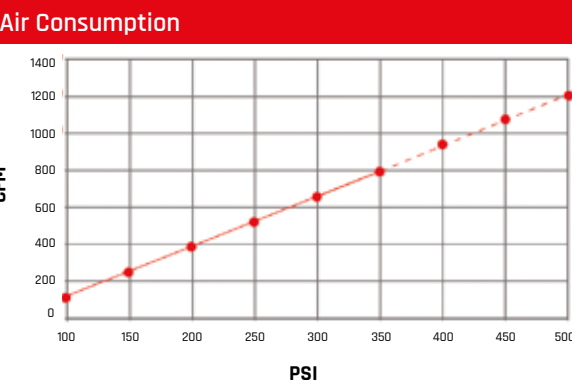


AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
127mm - 165mm 5" - 6 1/2"	HALCO 5	100 - 435 psi (7 - 30 bar)

Hammer Overview	
Hammer Model	MACH 50
Part Number	600046
Shank	Halco 5
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	127MM
Hammer flat size	90mm (3.54")
Weight	54 Kg (119.0 lbs)
Outside diameter	114mm (4.5")
Length (shoulder to shoulder)	1012mm (40")
Minimum weight on bit	400 Kg (900 lbs)
Maximum weight on bit	900 Kg (1980 lbs)

Parts List					
Hammer type	GP500	Maintenance Kits			
Shank	Halco 5				
Part number	600046				
Item	Description	Part No.	Service Kit SK03	Repair Kit RK04	
1	Thread Protector	201701			
2	Top Adaptor	601698			
3	O-Ring	768043	1	1	
4	Non Return Valve	602285		1	
5	N.R.V. Spring	760084	1	1	
6	N.R.V. Finger	601702			
7	Make up Shim 0.5mm	601706	1	1	
	Make up Shim 1MM	601795	1	1	
	Make up Shim 1.5MM	601796	1	1	
8	Make up Ring	601700	1	1	
9	Air Distributor	601699			
10	Cylinder	601694			
11	O-Ring	768101	1	1	
12	Snap Ring	783013		1	
13	Piston	601695			
14	Snap Ring	783103	1		
15	Spacer	601705		1	
16	Bit Retaining Ring	602117		1	
17	Chuck Spacer	601603	1	1	
18	Chuck	601602		1	
	Foot Valve	601843		1	

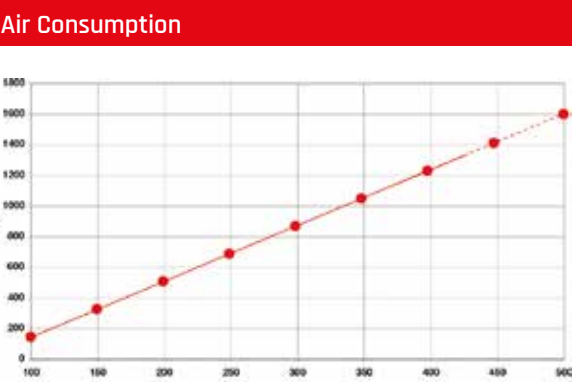


AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
152mm - 241mm 6" - 9 1/2"	DHD 360	100 - 500 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	S00M600
Part Number	600272
Shank	DHD360
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	152 MM
Hammer flat size	101mm (4.0")
Weight	100 Kg (220 lbs)
Outside diameter	140.0mm (5.51")
Length (shoulder to shoulder)	1139mm (44.8")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List					
Hammer type	S00M600	Maintenance Kits			
Shank	DHD360				
Part number	600272				
Item	Description	Part No.	Service Kit	Repair Kit	
1	Thread Protector	201701			
2	Snap Ring	783050	1	1	
3	N.R.V. Seat	603872		1	
4	O-Ring	768112	1	1	
5	Non Return Valve	603554		1	
6	N.R.V. Spring	760135	1	1	
7	N.R.V. Shield	603652		1	
8	Top Adaptor	603506			
9	O-Ring	768140	1	1	
10	O-Ring	768055	1	1	
11	Cylinder	603584			
12	Piston	602891			
13	Snap Ring	783017	1	1	
14	O-Ring	747105	1	1	
15	Bit Guide Bush	602239		1	
16	Bit Retaining Ring	603749		1	
17	O-Ring	747105	1	1	
18	Chuck Spacer	601942	1	1	
19	Chuck	602495		1	
	Foot Valve	601595		1	



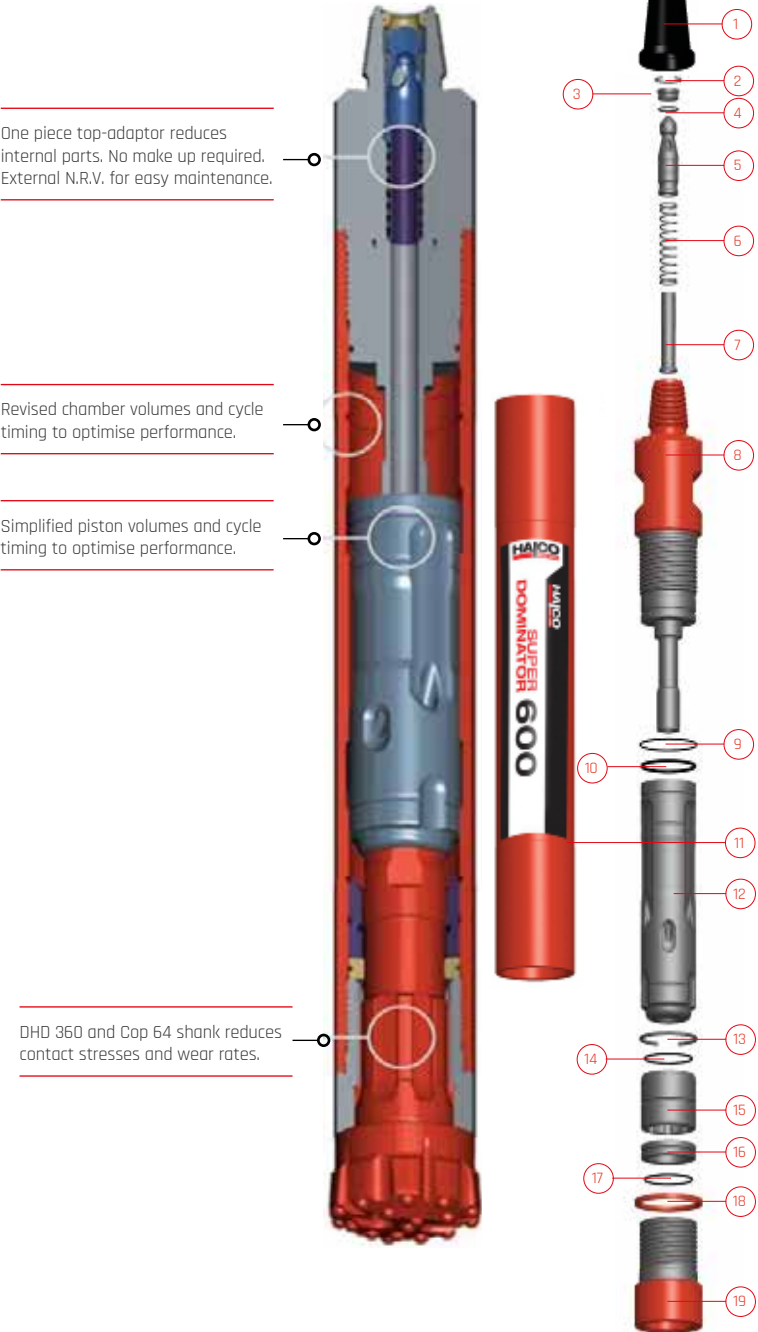
6" Super Dominator 600

SUPER DOMINATOR 600

The Super Dominator 600 is one of the fastest 6" hammers specifically designed for high production drilling in blast-hole applications.

The Super Dominator 600 is a reduced weight hammer with waterwell drilling capabilities. The unique one piece top-adaptor with N.V.R. (Non-Return-Valve) makes it easy to maintain and service the hammer.

Super Dominator 600 requires only few tools to service and maintain the hammer. Suitable for operation at air pressures of 100 - 500psi (7 - 35bar). Drilling diameters of 152mm - 241mm (6 1/8 - 9 1/2").



6" Super Dominator 650HD Snub

SUPER DOMINATOR 650HD SNUB

The Super Dominator 650 HD combines the raw power of the Super Dominator 600 with the extended hammer life in abrasive conditions due to its heavy duty and reversible cylinder.

The unique one piece top adaptor with N.R.V (Non Return Valve) makes it easy to maintain and service.

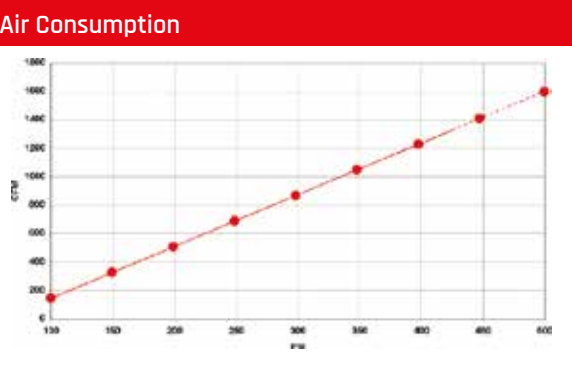
Super Dominator 650 requires only a few simple tools to service and maintain the hammer.

AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
165mm - 220mm 6 1/2" - 8 5/8"	QL60	100 - 500 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	SDOM650HD Snub
Part Number	600467
Shank	QL60
Thread connection	3 1/2" API Reg Pin with carbides
Minimum bit diameter	165 MM
Hammer flat size	101mm (4.0")
Weight	100 Kg (220 lbs)
Outside diameter	146mm (5.478")
Length (shoulder to shoulder)	1043mm (41.1")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List				
Hammer type	SDOM650HD Snub		Maintenance Kits	
Shank	QL60		Service Kit	Repair Kit
Part number	600467		SK03	RK04
Item	Description	Part No.		
1	Thread Protector	201701		
2	Snap Ring	783050	1	1
3	N.R.V. Seat	603872		1
4	O-Ring	768112	1	1
5	Non Return Valve	603554		1
6	N.R.V. Spring	760135	1	1
7	N.R.V. Shield	603652		1
8	Top Adaptor	603806		
9	O-Ring	747105	1	1
10	O-Ring	768140	1	1
11	Cylinder	605004		
12	Piston	605003		
13	Snap Ring	783017	1	1
14	O-Ring	747105	1	1
15	Bit Guide Bush	605005		1
16	Bit Retaining Ring	603866		
17	Chuck Spacer	601928		1
18	Chuck	604122		1
	Foot Valve	602852		1

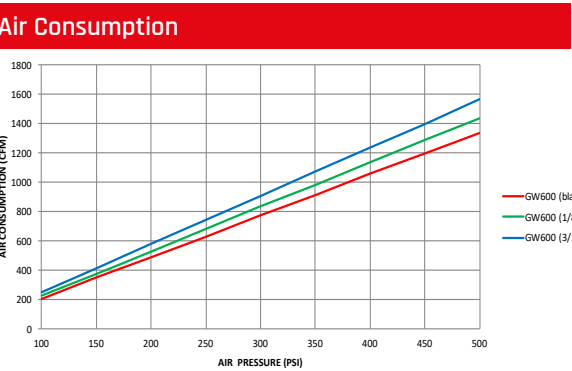


AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
152mm - 203mm 6 1/8" - 8"	QL60 DHD 360	100 - 500 psi (7 - 35 bar)

Hammer Overview	
Hammer Model	GP600
Part Number	600427
Shank	QL60
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	152 MM
Hammer flat size	101mm (3.976")
Weight	86 Kg (192 lbs)
Outside diameter	140mm (5.51")
Length (shoulder to shoulder)	1035mm (40.7")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List			
Hammer type	GP600	Maintenance Kits	
Shank	QL60	Service Kit	Repair Kit
Part number	600427	SK68	RK105
Item	Description	Part No.	
1	Thread Protector	201701	
2	Top Adaptor	604521	
3	O-Ring	768140	1
4	Shim - 4MM	601946	1
	Shim - 5MM	601947	1
	Shim - 6MM	601948	1
	Shim - 7MM	601949	1
5	Compression Ring	760096	1
6	Choke Plug - Blank	604480	1
	Choke 1/8"	604481	1
	Choke 3/16"	604482	1
7	Non Return Valve	604444	1
8	N.R.V. Spring	760079	1
9	Air Distributor	604514	
10	O-Ring	768043	1
11	Liner	604930	
12	Square Snap Ring	604929	1
13	Cylinder	604517	
14	Piston	604520	
15	Snap Ring	783056	1
16	Guide Bush	604518	1
17	O-Ring	747105	1
18	Bit Retaining Ring	604693	1
19	Chuck	604692	1
	Foot Valve	602852	1



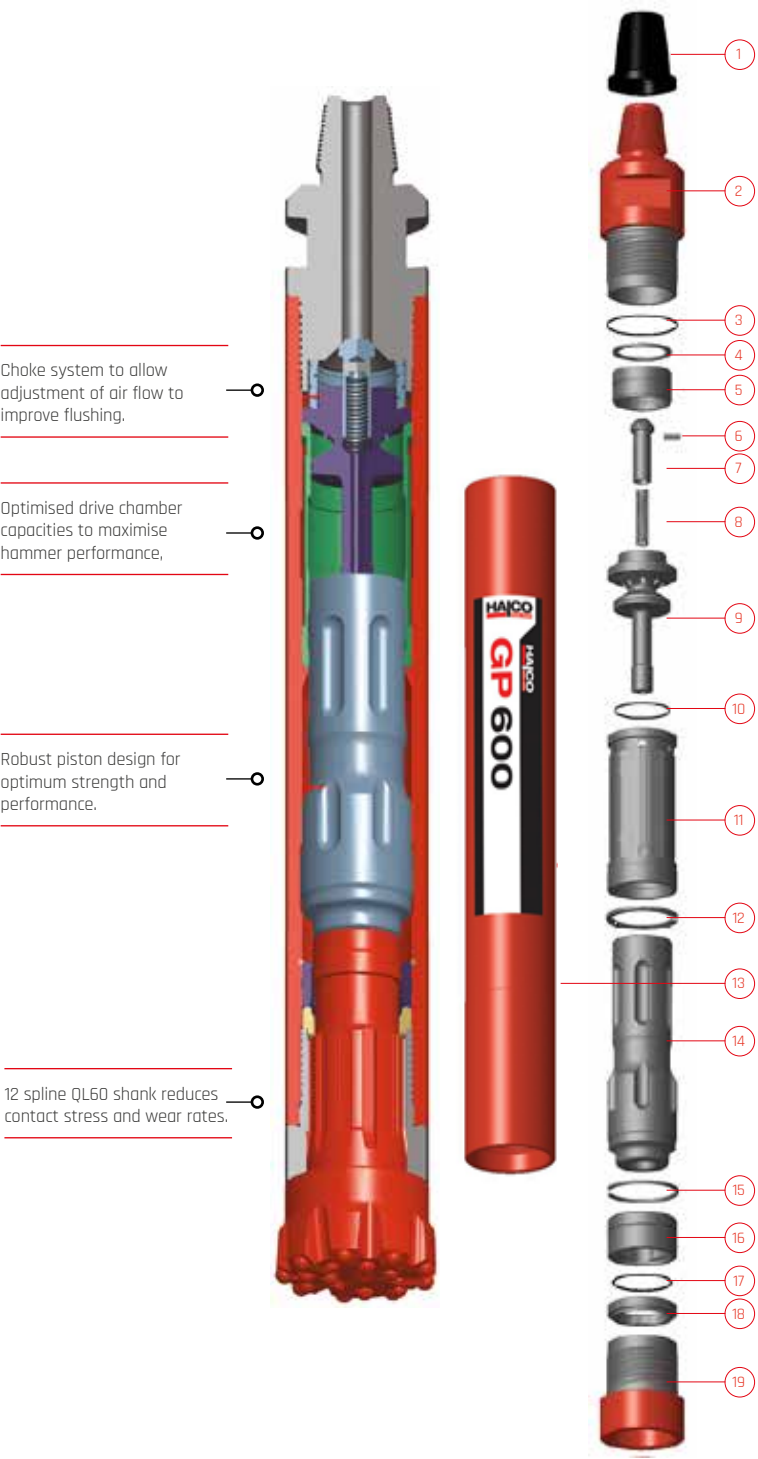
Figures are based on theoretical data

6" GP600

GP 600

The GP600 is a high performance hammer which can drill under a head of water, typically suited to Waterwell and Geothermal applications due to its non-ported piston design.

It features a choke facility which helps to adjust air flow through the hammer.



Choke system to allow adjustment of air flow to improve flushing.

Optimised drive chamber capacities to maximise hammer performance.

Robust piston design for optimum strength and performance.

12 spline QL60 shank reduces contact stress and wear rates.

One piece top adaptor reduces internal parts. No make-up required.

Revised reversible chamber volumes and cycle timing to optimise performance.

Simplified piston geometry for improved balance and location within cylinder.

Reversible cylinder.

The QL 60 shank reduces contact stresses and wear rates.

6" GP600 - QL60HD

GP600HD - QL60HD

The GP600 is a high performance hammer which can drill under a head of water, so it is typically suitable for Waterwell and Geothermal applications due to its robust non-ported piston design. A choke facility helps to adjust air flow through the hammer.

AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
156mm - 203mm 6 1/8" - 8"	QL60	100 - 500 psi (7 - 35 bar)

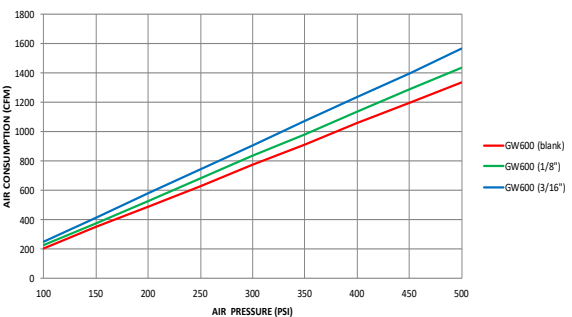
Hammer Overview

Hammer Model	GP600HD
Part Number	600480
Shank	QL60
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	156 MM
Hammer flat size	101mm (3.976")
Weight	86 Kg (189.2 lbs)
Outside diameter	146mm (5.75")
Length (shoulder to shoulder)	1035mm (40.7")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List

Hammer type	Shank	Part number	Description	Part No.	Maintenance Kits	
					Service Kit	Repair Kit
GP600HD	QL60	600480			SK84	RK156
Item						
1			Thread Protector	201701		
2			Top Adaptor	604562		
3			O-Ring	768140	1	
4			SHIM 4MM	601946		1
			Make up Shim - 5mm	601947		1
			Make up Shim - 6mm	601948		1
			Make up Shim - 7mm	601949		1
5			Compression Ring	760096		1
6			Choke - Solid	604480	1	1
			Choke - 1/8"	604481	1	1
			Choke - 3/16"	604482	1	1
7			Non Return Valve	604444		1
8			N.R.V. Spring	760079	1	1
9			Air Distributor	604514		
10			O-Ring	768043	1	
11			Liner	604930		
12			Square Snap Ring	604929		1
13			Cylinder	605023		
14			Piston	604520		
15			Snap Ring	783056	1	
16			Guide Bush	604518		
17			O-Ring	747105		1
18			Bit Retaining Ring	604693		1
19			Chuck	605022		1
			Foot Valve			

Air Consumption



AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
156mm - 203mm 6 1/8" - 8"	DHD360	100 - 500 psi (7 - 35 bar)

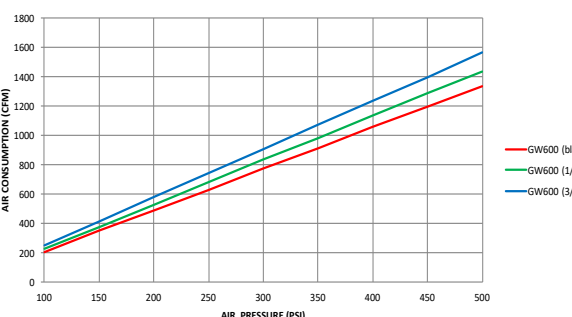
Hammer Overview

Hammer Model	GP600HD
Part Number	600449
Shank	DHD360
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	156 MM
Hammer flat size	101mm (3.976")
Weight	86 Kg (189 lbs)
Outside diameter	144.75mm
Length (shoulder to shoulder)	1035mm (40.7")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List

Hammer type	Shank	Part number	Description	Part No.	Maintenance Kits	
					Service Kit	Repair Kit
GP600HD	DHD360	600449			SK68	
Item						
1			Thread Protector	201701		
2			Top Adaptor	604562		
3			O-Ring	768140	1	1
4			Shim 4MM	601946		1
			Shim 5MM	601947		1
			Shim 6MM	601948		1
			Shim 7MM	601949		1
5			Compression Ring	760096		1
6			Choke Plug-Blank	604480	1	1
			Choke - 1/8"	604481	1	1
			Choke - 3/16"	604482	1	1
7			N.R.V.	604444		1
5			N.R.V Spring	760079	1	1
8			Air Distributor	604514		
10			O-Ring	768043	1	1
11			Liner	604930		
12			Square Snap Ring	604929	1	1
13			Cylinder	604938		
14			Piston	604942		
15			Snap Ring	783056		1
16			Guide Bush	604941	1	1
17			O-Ring	747105	1	1
15			Bit Retaining Ring	604940		1
17			Chuck	604939		1
			Foot Valve	601595		1

Air Consumption



6" GP600HD - DHD360

GP600HD - DHD360

The GP600 is a high performance hammer which can drill under a head of water, so it is typically suitable for Waterwell and Geothermal applications due to its robust non-ported piston design. A choke facility helps to adjust air flow through the hammer.

Choke system to allow adjustment of air flow to improve flushing.

Optimised drive chamber capacities to maximise hammer performance.

Robust piston design for optimum strength and performance.

8 spline DHD360 shank reduces contact stress and wear rates.

Choke system to allow adjustment of air flow to improve flushing.

Optimised drive chamber capacities to maximise hammer performance.

Robust piston design for optimum strength and performance.

12 spline QL60 shank reduces contact stress and wear rates.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
152mm - 203mm 6 1/8 - 8"	HALCO 6	100 - 435 psi (7 - 30 bar)

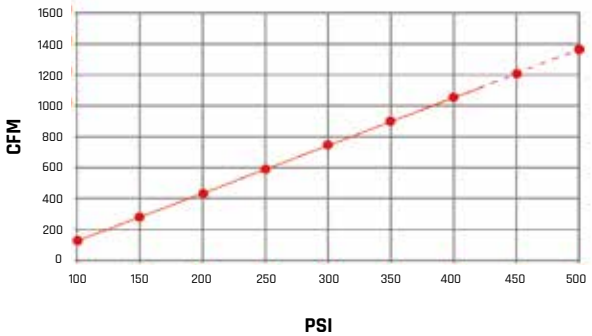
Hammer Overview

Hammer Model	MACH 60
Part Number	600035
Shank	Halco 6
Thread connection	3 1/2" API Reg Pin Up
Minimum bit diameter	152 MM
Hammer flat size	90mm (3.54")
Weight	89 Kg (196.2 lbs)
Outside diameter	138mm (5.43")
Length (shoulder to shoulder)	1095mm (3.54")
Minimum weight on bit	500 Kg (1100 lbs)
Maximum weight on bit	1500 Kg (3300 lbs)

Parts List

Hammer type			Maintenance Kits	
Shank			Halco 6	
Part number			Service Kit	Repair Kit
Item			SK07	RK10
1	Thread Protector	201701		
2	Top Adaptor	601555		
3	Non Return Valve	601560		1
4	N.R.V. Spring	760079	1	1
5	N.R.V. Housing	601558		
6	Compression Ring	601562	1	1
7	Make up Shim 0.5mm	601590	1	1
	Make up Shim 1.0mm	601797	1	1
	Make up Shim 1.5mm	601798	1	1
8	Air Distributor	601557		
10	O-Ring	768130	1	1
11	Snap Ring	783012	1	
12	Cylinder	601553		
13	Piston	601554		
14	Snap Ring	783012	1	1
15	Bottom Spacer	601571		1
16	Bit Retaining Ring	601573		1
	O-Ring	747105	1	1
17	Chuck Spacer	601563	1	1
18	Chuck	601556		1
	Foot Valve	601570		1

Air Consumption



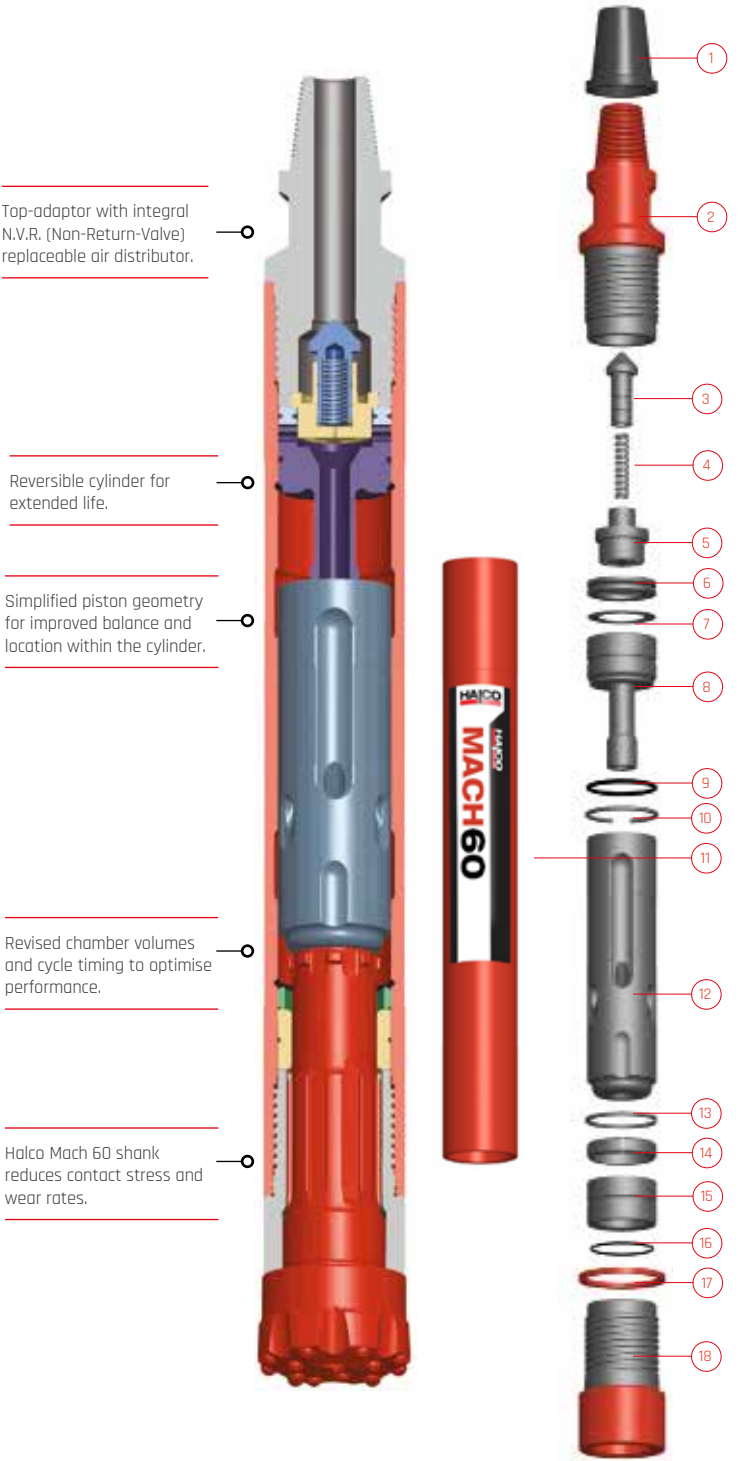
6" Mach 60

MACH 60

The Mach 60 is a general purpose hammer suitable for all rock conditions at a wide range of air pressures.

With a proven track record of performance and reliability, the Mach 50 operates at a high frequency which makes it ideal for broken unstable ground conditions.

The hammer is fitted with a reversible cylinder to prolong the service life, it also requires only a few tools to service and maintain.

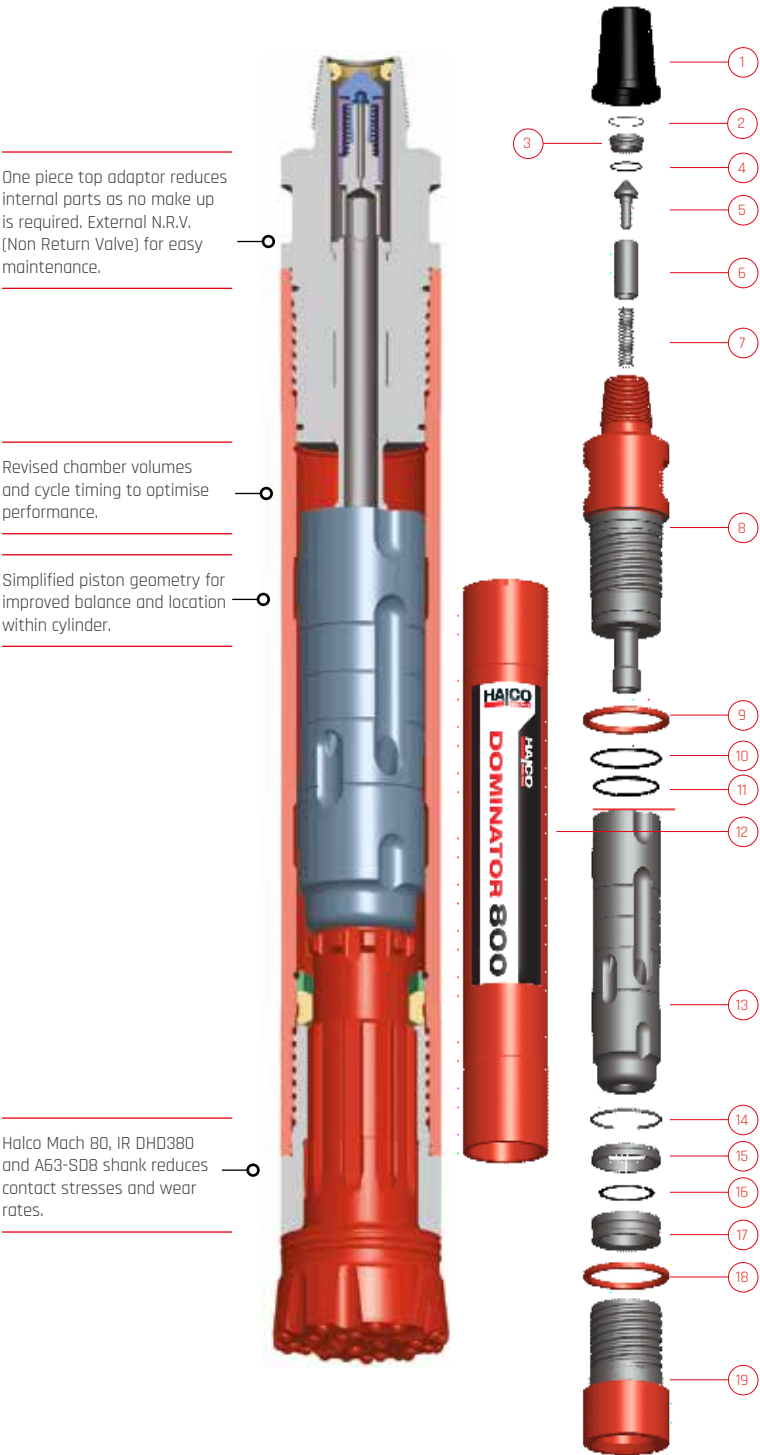


8" Dominator 800

DOMINATOR 800

The Dominator 800 is a general purpose hammer suitable for a wide range of air pressures.

A low to mid range air volume hammer with a one piece top adaptor. The Dominator 800 has a unique air distributor finger which is integral with the top adaptor and requires no shimming which simplifies servicing.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
200mm - 311mm 7 7/8 - 12 1/4"	DHD 380	100 - 500 psi (7 - 35 bar)

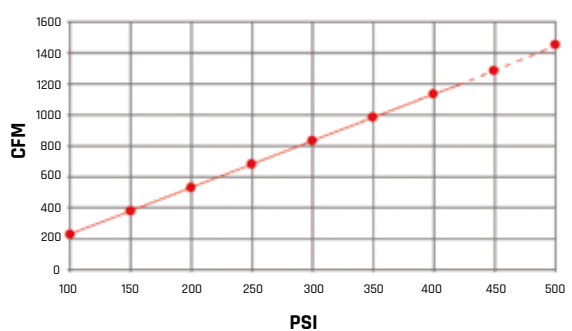
Hammer Overview

Hammer Model	DOM800
Part Number	600309
Shank	DHD380
Thread connection	4 1/2" API Reg Pin
Minimum bit diameter	200 MM
Hammer flat size	156mm (6.142")
Weight	181 Kg (399.03 lbs)
Outside diameter	182mm (7.165")
Length (shoulder to shoulder)	1254mm (49.37")
Minimum weight on bit	800 Kg (1760 lbs)
Maximum weight on bit	2000 Kg (4400 lbs)

Parts List

Hammer type	DOM800	Maintenance Kits	
		Service Kit	Repair Kit
Shank	DHD380		
Part number	600309		
Item	Description	Part No.	
1	Thread Protector	207295	
2	Snap Ring	783034	1
3	N.R.V. Seat	602887	1
4	O-Ring	768150	1
5	Non Return Valve	602285	1
6	Spring Cover	603696	1
7	N.R.V. Spring	760108	1
8	Top Adaptor	603607	
9	Spacer	603576	
10	O-Ring	768103	1
11	O-Ring	768145	1
12	Cylinder	603687	
13	Piston	603755	
14	Snap Ring	783015	1
15	Spacer	602840	1
16	Containment Band	603549	1
17	Bit Retaining Ring	603043	1
18	Chuck Spacer	603576	1
19	Chuck	603495	1
	Foot Valve	601819	1

Air Consumption



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
200mm - 311mm 7 7/8 - 12 1/4"	QL80	100 - 500 psi (7 - 35 bar)

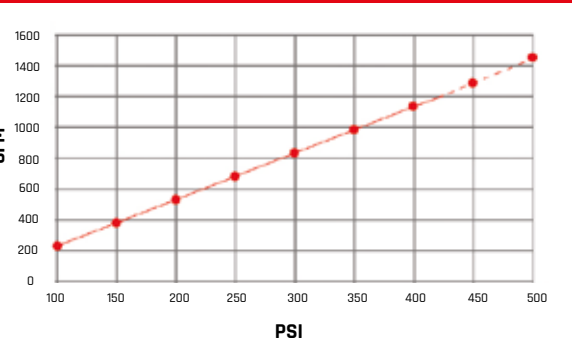
Hammer Overview

Hammer Model	DOM800
Part Number	600374
Shank	QL80
Thread connection	4 1/2" API Reg Pin
Minimum bit diameter	200 MM
Hammer flat size	156mm (6.14")
Weight	180 Kg (396.8 lbs)
Outside diameter	182mm (7.165")
Length (shoulder to shoulder)	1180mm (46.4")
Minimum weight on bit	800 Kg (1760 lbs)
Maximum weight on bit	2000 Kg (4400 lbs)

Parts List

Hammer type	DOM800	Maintenance Kits	
		Service Kit	Repair Kit
Shank	QL80		
Part number	600374		
Item	Description	Part No.	
1	Thread Protector	207295	
2	Snap Ring	783034	1
3	N.R.V. Seat	602887	1
4	O-Ring	768150	1
5	Non Return Valve	602285	1
6	N.R.V. Shield	603696	
7	N.R.V. Spring	760108	1
8	Top Adaptor	603607	
9	Spacer	603576	
10	O-Ring	768103	1
11	O-Ring	768145	1
12	Cylinder	604344	
13	Piston	604343	
14	Snap Ring	783015	1
15	O-Ring	768151	1
16	Guide Bush	604346	1
17	Bit Retaining Ring	604347	1
18	Chuck Spacer	603576	1
19	Chuck	604345	1
	Foot Valve	603334	1

Air Consumption

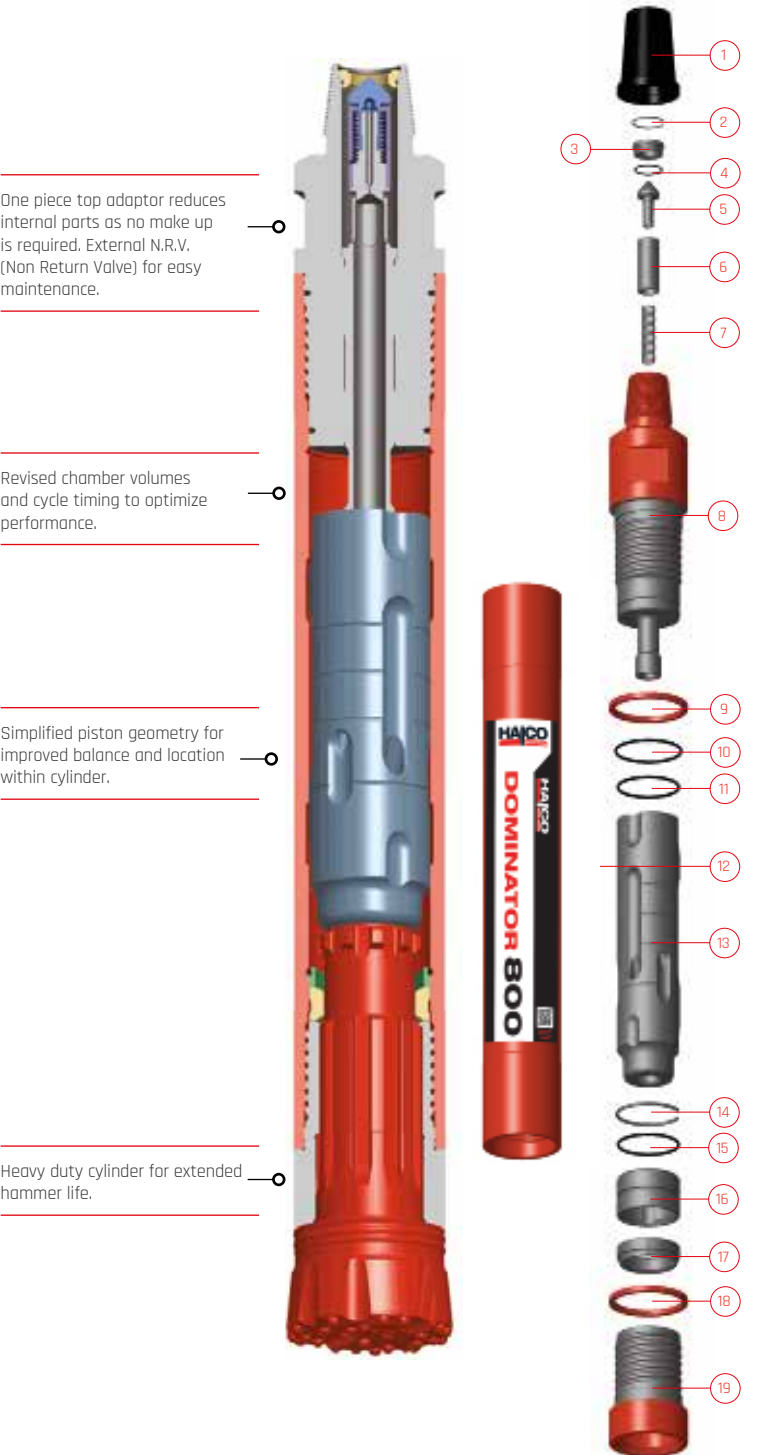


8" Dominator 800

DOMINATOR 800

The Dominator 800 is a general purpose hammer suitable for a wide range of air pressures.

A low to mid range air volume hammer with a one piece top adaptor. The Dominator 800 has a unique air distributor finger which is integral with the top adaptor and reduces requirements for shimming.

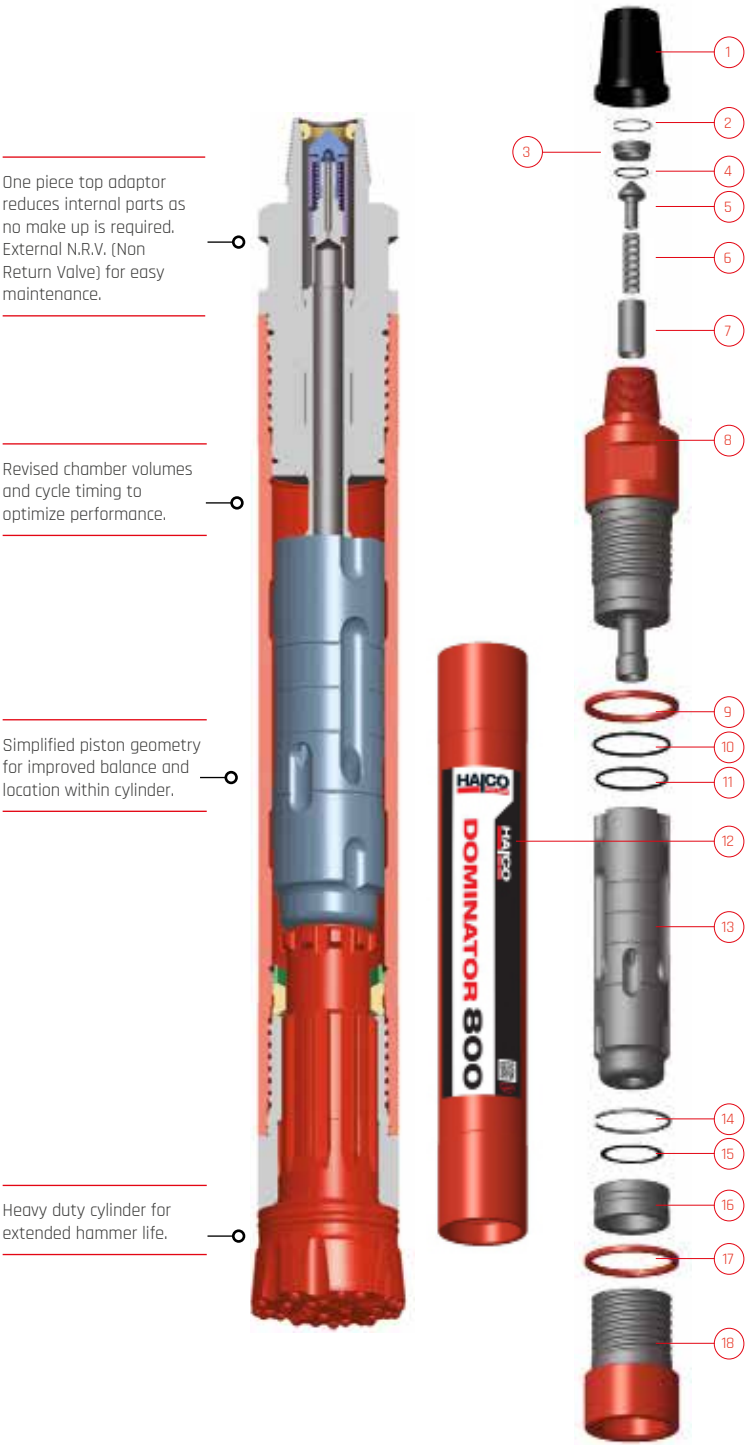


8" Dominator 800

DOMINATOR 800

The Dominator 800 is a general purpose hammer suitable for a wide range of air pressures.

A low to mid range air volume hammer with a one piece top adaptor. The Dominator 800 has a unique air distributor finger which is integral with the top adaptor and reduces requirements for shimming.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
200mm - 311mm 7 7/8 - 12 1/4"	HALCO 8	100 - 500 psi (7 - 35 bar)

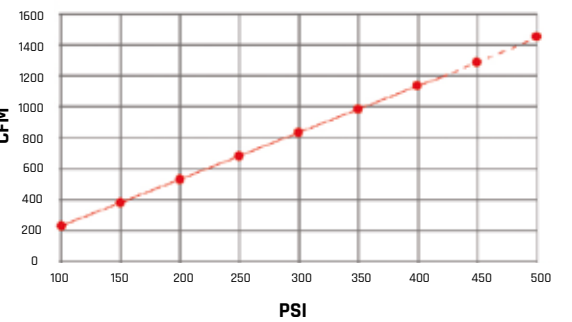
Hammer Overview

Hammer Model	DOM800
Part Number	600310
Shank	Halco 8
Thread connection	4 1/2" API Reg Pin
Minimum bit diameter	200 MM
Hammer flat size	156mm (6.14")
Weight	175 Kg (385.8 lbs)
Outside diameter	182mm (7.165")
Length (shoulder to shoulder)	1254mm (49.4")
Minimum weight on bit	800 Kg (1760 lbs)
Maximum weight on bit	2000 Kg (4400 lbs)

Parts List

Hammer type	DOM800	Part number	Maintenance Kits	
			Service Kit SK25	Repair Kit RK78
Shank	Halco 8	600310		
Item	Description	Part No.		
1	Thread Protector	207295		
2	Snap Ring	783034	1	1
3	N.R.V. Seat	602887		1
4	O-Ring	768150	1	1
5	Non Return Valve	602285		1
6	N.R.V. Shield	603696		1
7	N.R.V. Spring	760108	1	1
8	Top Adaptor	603607		
9	Spacer	603576		
10	O-Ring	768103	1	1
11	O-Ring	768145	1	1
12	Cylinder	603687		
13	Piston	603754		
14	Snap Ring	783015	1	
15	Retaining Ring Band	603549		1
16	Bit Retaining Ring	601677		1
17	Chuck Spacer	603576	1	1
18	Chuck	603685		1
	Foot Valve	601675		1

Air Consumption



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
222mm - 270mm 8 3/4 - 10 5/8"	QL80	100 - 500 psi (7 - 35 bar)

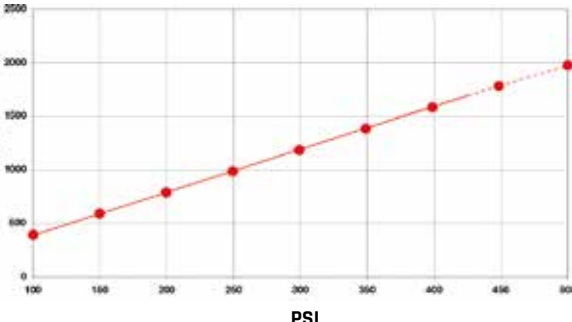
Hammer Overview

Hammer Model	DOM850
Part Number	600245
Shank	QL80
Thread connection	4 1/2" API Reg Pin
Minimum bit diameter	222 MM
Hammer flat size	125mm (6.14")
Weight	180 Kg (396.8 lbs)
Outside diameter	192mm (7.6")
Length (shoulder to shoulder)	1281mm (50.4")
Minimum weight on bit	800 Kg (1760 lbs)
Maximum weight on bit	2000 Kg (4400 lbs)

Parts List

Hammer type	DOM850	Part number	Maintenance Kits	
			Service Kit SK32	Repair Kit RK55
Shank	QL80	600245		
Item	Description	Part No.		
1	Thread Protector	207295		
2	Snap Ring	783034	1	1
3	N.R.V. Seat	602887		
4	O-Ring	768150	1	1
5	Non Return Valve	602285	1	1
6	N.R.V. Cover	603696		1
7	N.R.V. Spring	760108		1
8	Top Adaptor	603353		
9	Spacer	603358		1
10	O-Ring	768169	1	1
11	Cylinder	603347		
12	Piston	603349		
13	Snap Ring	783039	1	1
14	O-Ring	768169	1	1
15	Bit Guide Bush	603360		1
16	Bit Retaining Ring	603359		1
17	Chuck Spacer	603358	1	1
18	Chuck	603357		1
	Foot Valve	603334		1

Air Consumption



Figures are based on theoretical data

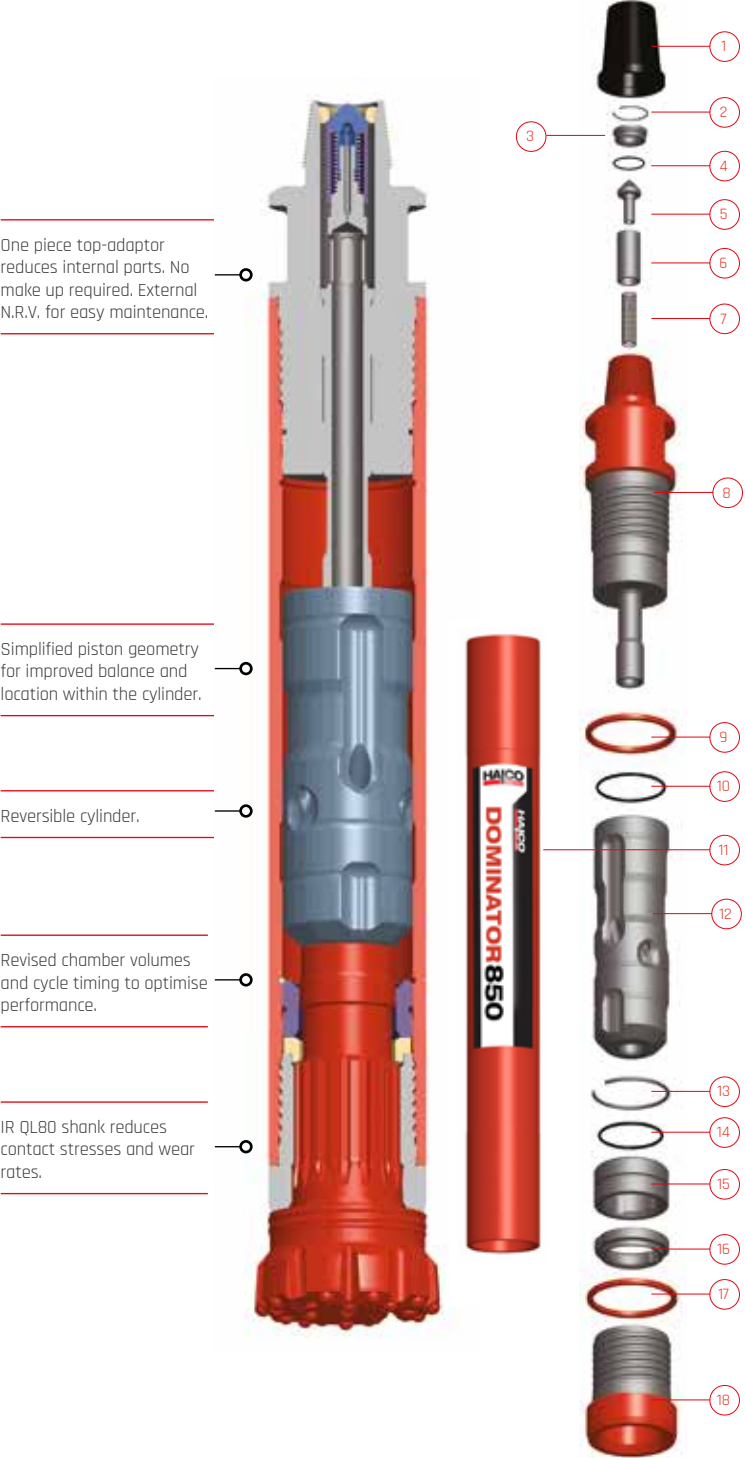
8" Dominator 850

DOMINATOR 850

The Dominator 850 has been designed for high performance drilling in hard to medium rock formations, particularly mining applications.

Its class leading performance has been achieved with a larger piston and valveless air cycle providing 50% increase in stroke.

The Dominator 850 has a reversible cylinder for prolonged hammer life and benefits from a one piece top adaptor with N.R.V (Non Return Valve), this makes it easier to maintain and service the hammer.

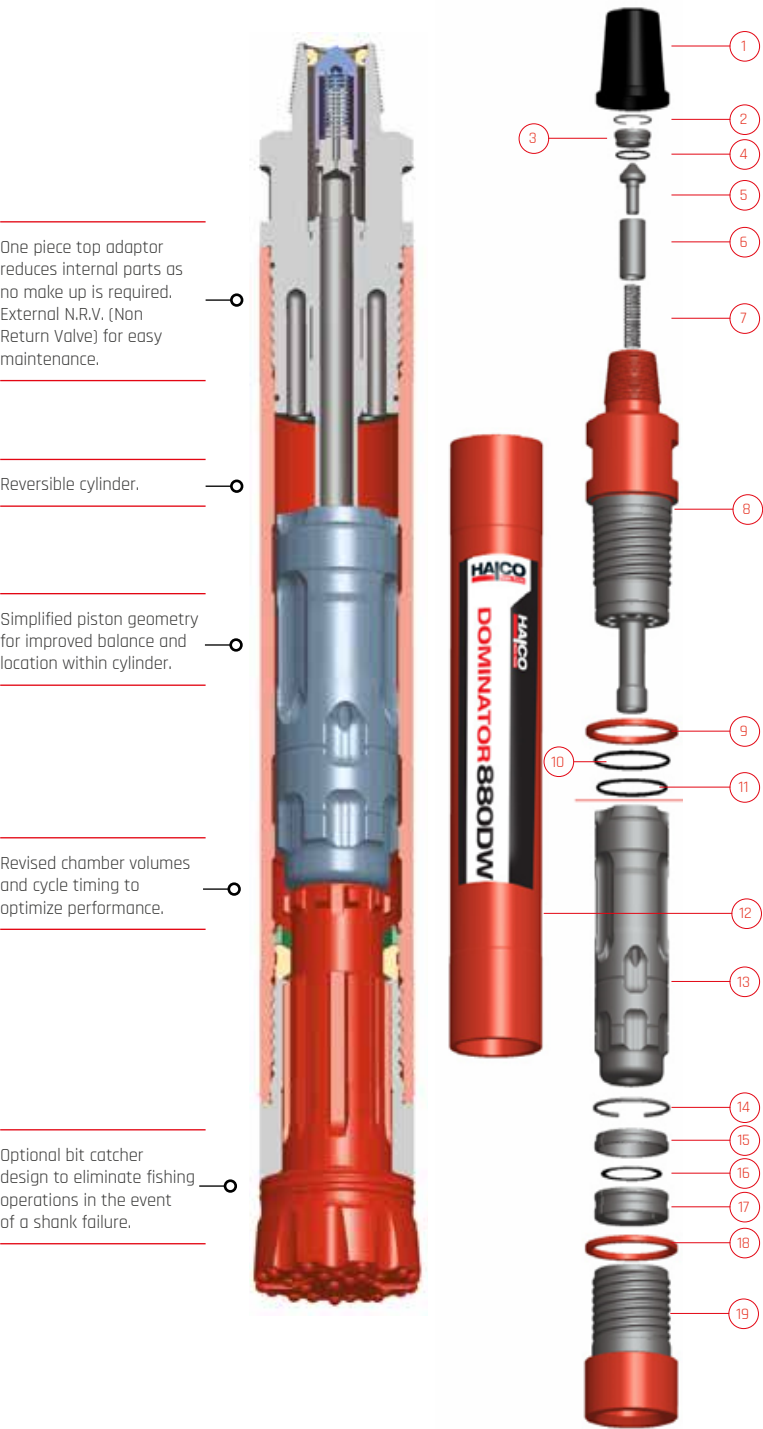


8" Dominator 880 DW

DOMINATOR 880 DW

The Dominator 880 Deep Well hammer has been specifically designed for drilling deep holes under a head of water.

The wide body diameter of the Dominator 880 DW allows for an increased piston weight and improved performance.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
200mm - 311mm 7 7/8 - 12 1/4"	DHD 380	100 - 507 psi (7 - 35 bar)

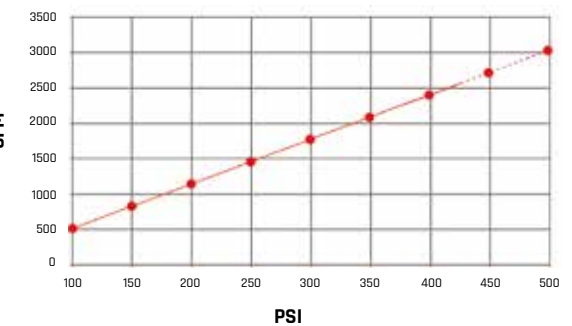
Hammer Overview

Hammer Model	DOMINATOR 880 DW
Part Number	600261
Shank	DHD 380
Thread connection	4 1/2" API Reg Pin
Minimum bit diameter	200 MM
Hammer flat size	156 mm (6.142")
Weight	177 KG (390.21 lbs)
Outside diameter	182 mm (7.165")
Length (shoulder to shoulder)	1263 mm (49.724")
Minimum weight on bit	800 Kg (1760 lbs)
Maximum weight on bit	2000 Kg (4400 lbs)

Parts List

Hammer type	DOMINATOR 880 DW		Maintenance Kits	
Shank	DHD 380		Service Kit SK25	Repair Kit RK64
Part number	600261			
Item	Description	Part No.		
1	Thread Protector	207295		
2	Snap Ring	783034	1	1
3	N.R.V. Seat	602887		
4	O-Ring	768150	1	1
5	Non Return Valve	602285		1
6	N.R.V. Cover	603696		1
7	N.R.V. Spring	760108		1
8	Top Adaptor	603498		
9	Spacer	603576		1
10	O-Ring	768103	1	1
11	O-Ring	768145	1	1
12	Cylinder	603496		
13	Piston	602743		
14	Snap Ring	783015	1	1
15	Spacer	602840	1	1
16	Containment Band	603549		1
17	Bit Retaining Ring	603043		1
18	Chuck Spacer	603576		1
19	Chuck	603495		1
	Foot Valve	601819		1

Air Consumption



Figures are based on theoretical data

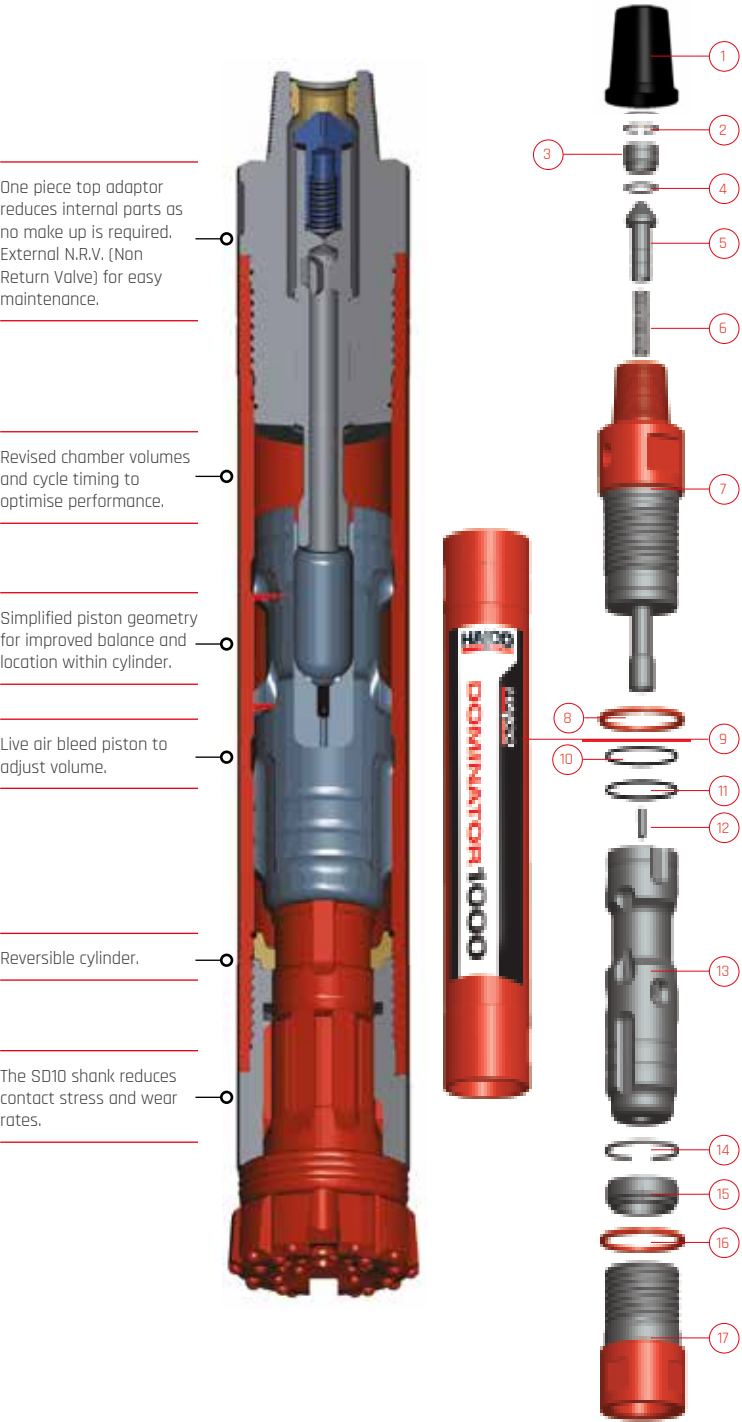
10" Dominator 1000

DOMINATOR 1000

The Dominator 1000 incorporates a unique piston design for high performance and reliability especially in Waterwell applications.

This hammer is suitable for a wide range of air pressures. Though its optimum performance is reached at air pressures of 200psi (14 bar) and above. It has been designed with the heaviest piston in its class, (weighing in at 87.6 kg) to provide excellence performance. To assist with maintenance, it has a captive bit ring and a reversible cylinder thus prolonging its life and ultimately reducing costs.

The Dominator 1000 benefits from a one piece top adaptor with N.R.V (Non Return Valve), this makes it easier to maintain and service the hammer.

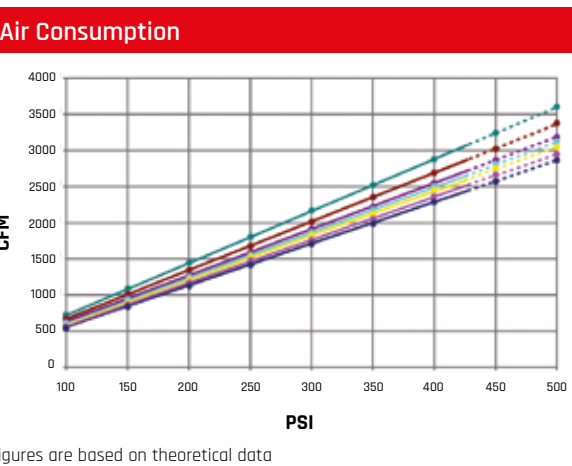


AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
254mm - 381mm 10 - 15"	SD10	100 - 435 psi (7 - 30 bar)

Hammer Overview	
Hammer Model	DOM1000
Part Number	600248
Shank	SD10
Thread connection	6 5/8" API Reg Pin
Minimum bit diameter	254 MM
Hammer flat size	200mm (7.875")
Weight	367 Kg (809 lbs)
Outside diameter	230mm (9.06")
Length (shoulder to shoulder)	1390mm (54.7")
Minimum weight on bit	1500 Kg (3400 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List				
Hammer type	DOM1000	Maintenance Kits		
Shank	SD10			
Part number	600248	Service Kit SK29	Repair Kit RK50	
Item	Description	Part No.		
1	Thread Protector	200112		
2	Circlip	777001	1	1
3	N.R.V. Seat	602286		1
4	O-Ring	768133	1	1
5	Non Return Valve	602288		1
6	N.R.V. Spring	760055	1	1
7	Top Adaptor	603429		
8	Spacer	603432		
9	Cylinder	603434		
10 & 11	O-Ring	768172	2	1
12	Bleed Plug - Blank	602499		
	Bleed Plug - 3mm	602500		
	Bleed Plug - 4mm	602501		
	Bleed Plug - 5mm	602502		
	Bleed Plug - 6mm	602503		
	Bleed Plug - 8mm	602874		
13	Piston	603433		
14	Snap Ring	783040	1	1
15	Bit Retaining Ring	603435		1
16	Chuck Spacer	603432	1	1
17	Chuck	603436		1
	Foot Valve	603186		1

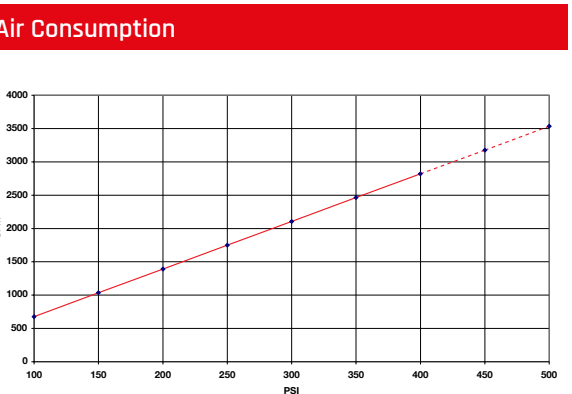


AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
300mm - 445mm 11 7/8" - 17 1/2"	SD12	100 - 435 psi (7 - 30 bar)

Hammer Overview	
Hammer Model	Mach 120
Part Number	600108
Shank	SD12
Thread connection	6 5/8" API Reg Pin
Minimum bit diameter	300 MM
Hammer flat size	C Ring type
Weight	614 Kg (1,353 lbs)
Outside diameter	273mm (10.75")
Length (shoulder to shoulder)	1667mm (65.6")
Minimum weight on bit	1600 Kg (3520 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List				
Hammer type	Mach 120	Maintenance Kits		
Shank	SD12			
Part number	600108	Service Kit SK12	Repair Kit RK19	
Item	Description	Part No.		
1	Thread Protector	200112		
2	Circlip	777001	1	1
3	O-Ring	768133	1	1
4	N.R.V. Seat	602286		1
5	Non Return Valve	602288		1
6	N.R.V. Spring	760055	1	1
7	Top Adaptor	602639		
8 & 9	O-Ring	768137	2	2
10	Spacer	602366		
11	Cylinder	602013		
12	Piston	602047		
13	Snap Ring	783021	1	1
14	O-Ring	768105	1	1
15	Bit Retaining Ring	602102		1
16	Chuck Spacer	602366	1	1
17	Chuck	602052		1
	Foot Valve	601811		1

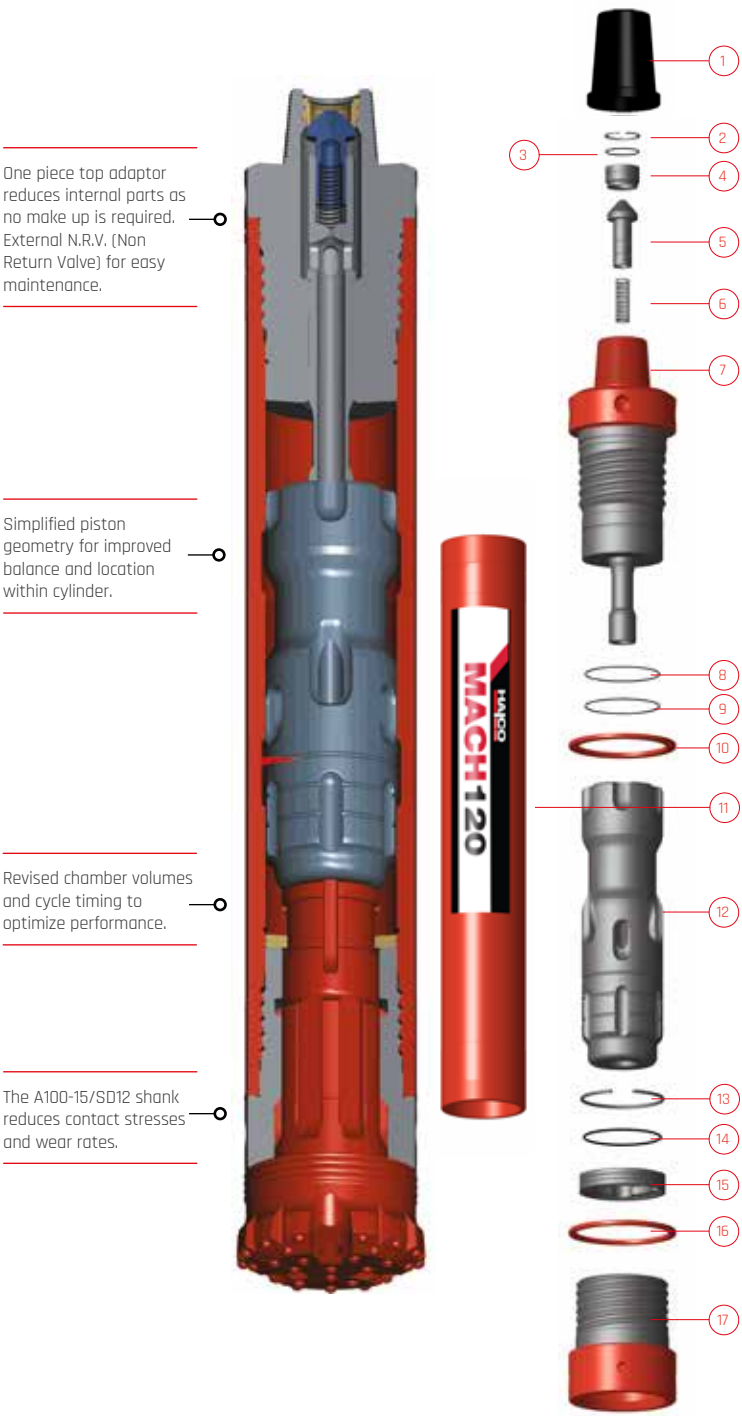


12" Mach 120

Mach 120

Mach 120 has a working pressure range of 170-350 psi (12-24bar) whilst its optimum performance is reached at air pressures of 200psi (14 Bar) and above.

Mach120 has no liner which increases the 140kg piston's blow energy and reduces parts required.w

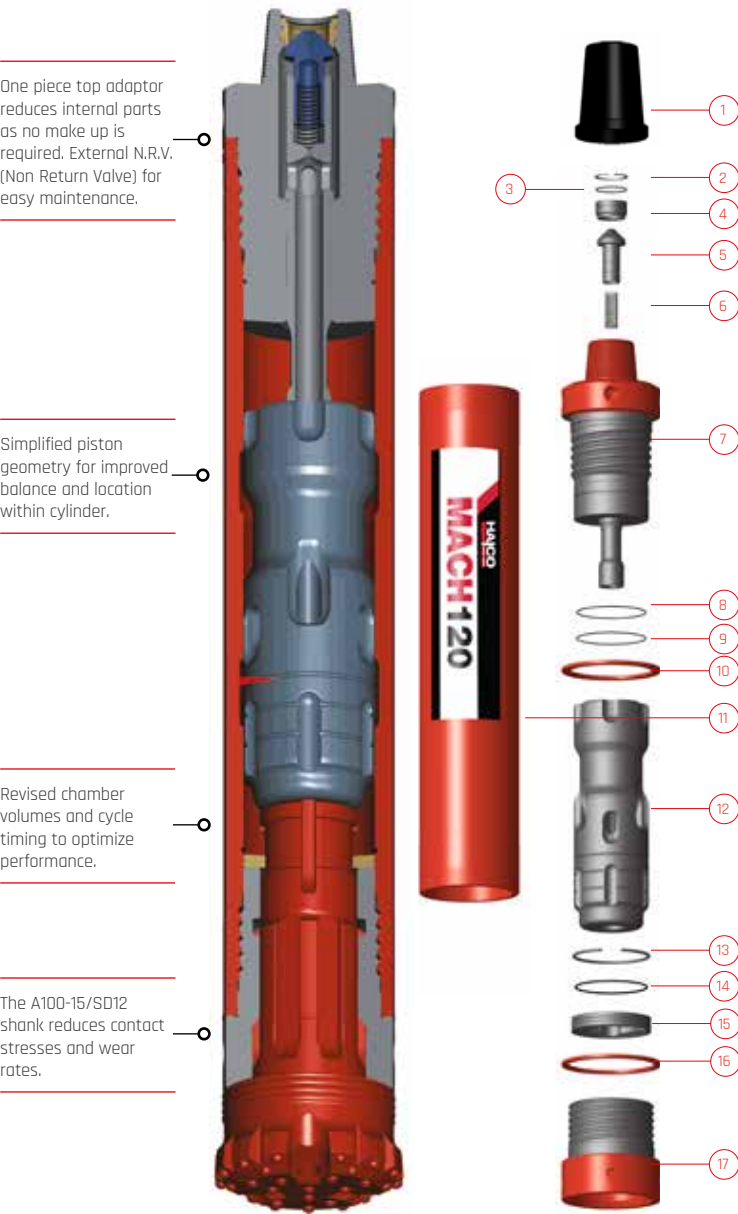


12" Mach 122

Mach 122

The Mach 122 accepts A100-15 (SD12) shank bits and works over a wide pressure range with an optimum performance reached at air pressures of 200 psi (14 bar) and above as its higher air consumption provides increased uphole velocity, particularly when using oversized diameter drill bits.

Mach 122 has a one piece top-adaptor with N.R.V. (Non-Return-Valve) fitted for easy inspection and service, with integral finger to reduce maintenance and eliminate shimming which increases service intervals. Mach 122 has no liner which increases the 140 kg piston blow energy and reduces parts required. This hammer is suitable for use with overburden systems.



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
300mm - 445mm 11 7/8" - 17 1/2"	SD12	100 - 435 psi (7 - 30 bar)

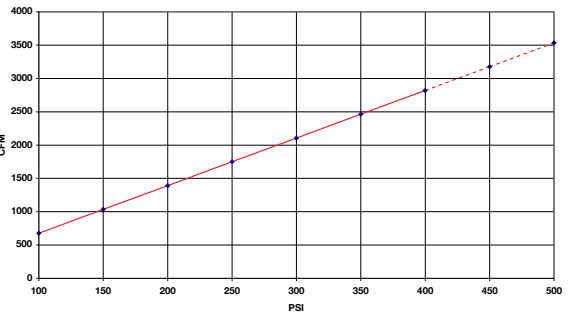
Hammer Overview

Hammer Model	Mach 122
Part Number	600108
Shank	SD12
Thread connection	6 5/8" API Reg Pin
Minimum bit diameter	300 MM
Hammer flat size	C Ring type
Weight	614 Kg (1,353 lbs)
Outside diameter	273mm (10.75")
Length (shoulder to shoulder)	1667mm (66.6")
Minimum weight on bit	1600 Kg (3520 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List

Hammer type	Mach 122	Maintenance Kits	
Shank	SD12	Service Kit SK12	Repair Kit RK19
Part number	600108		
Item	Description	Part No.	
1	Thread Protector	200112	
2	Circlip	777001	1
3	O-Ring	768133	1
4	N.R.V. Seat	602286	1
5	Non Return Valve	602288	1
6	N.R.V. Spring	760055	1
7	Top Adaptor	602639	
8 & 9	O-Ring	768137	2
10	Spacer	602366	
11	Cylinder	602013	
12	Piston	602047	
13	Snap Ring	783021	1
14	O-Ring	768105	1
15	Bit Retaining Ring	602102	1
16	Chuck Spacer	602366	1
17	Chuck	602052	1
	Foot Valve	601811	1

Air Consumption



AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
381mm - 489mm 15 - 29 1/4"	DHD112	100 - 435 PSI (7 - 30 bar)

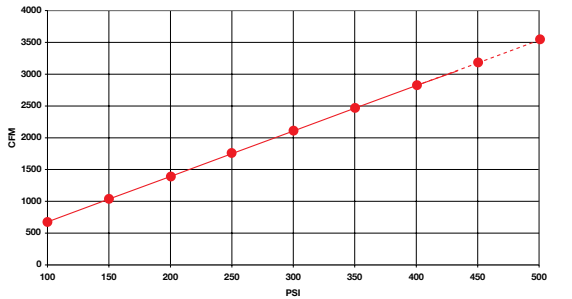
Hammer Overview

Hammer Model	Mach 132
Part Number	600142
Shank	DHD112 Pin Drive
Thread connection	6 5/8" API Reg Pin
Minimum bit diameter	381 MM
Hammer flat size	C Ring type
Weight	615 Kg (1,356 lbs)
Outside diameter	273mm (10.75")
Length (shoulder to shoulder)	1684mm (66.3")
Minimum weight on bit	1600 Kg (3520 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List

Hammer type	Mach 132	Maintenance Kits	
Shank	DHD112 Pin Drive	Service Kit SK14	Repair Kit RK23
Part number	600142		
Item	Description	Part No.	
1	Thread Protector	200112	
2	Circlip	777001	1
3	O-Ring	768133	1
4	N.R.V. Seat	602286	1
5	Non Return Valve	602288	1
6	N.R.V. Spring	760055	1
7	Top Adaptor	602639	
8 & 9	O-Ring	768137	2
10	Bleed Plug - Blank	602499	
	Bleed Plug - 3mm	602500	
	Bleed Plug - 4mm	602501	
	Bleed Plug - 5mm	602502	
	Bleed Plug - 6mm	602503	
	Bleed Plug - 8mm	602874	
11	Spacer	602366	1
12	Cylinder	602563	
13	Piston	604503	
14	Snap Ring	783021	1
15	Bit Guide Bush	602531	1
16	O-Ring	768184	1
17	Viton Band Containment	603819	1
18	Bit Retaining Ring	602530	1
19	Chuck Spacer	602366	1
20	Drive Pin Set (8)	600564	1
21	Chuck	602528	1
	Foot Valve	602522	1

Air Consumption

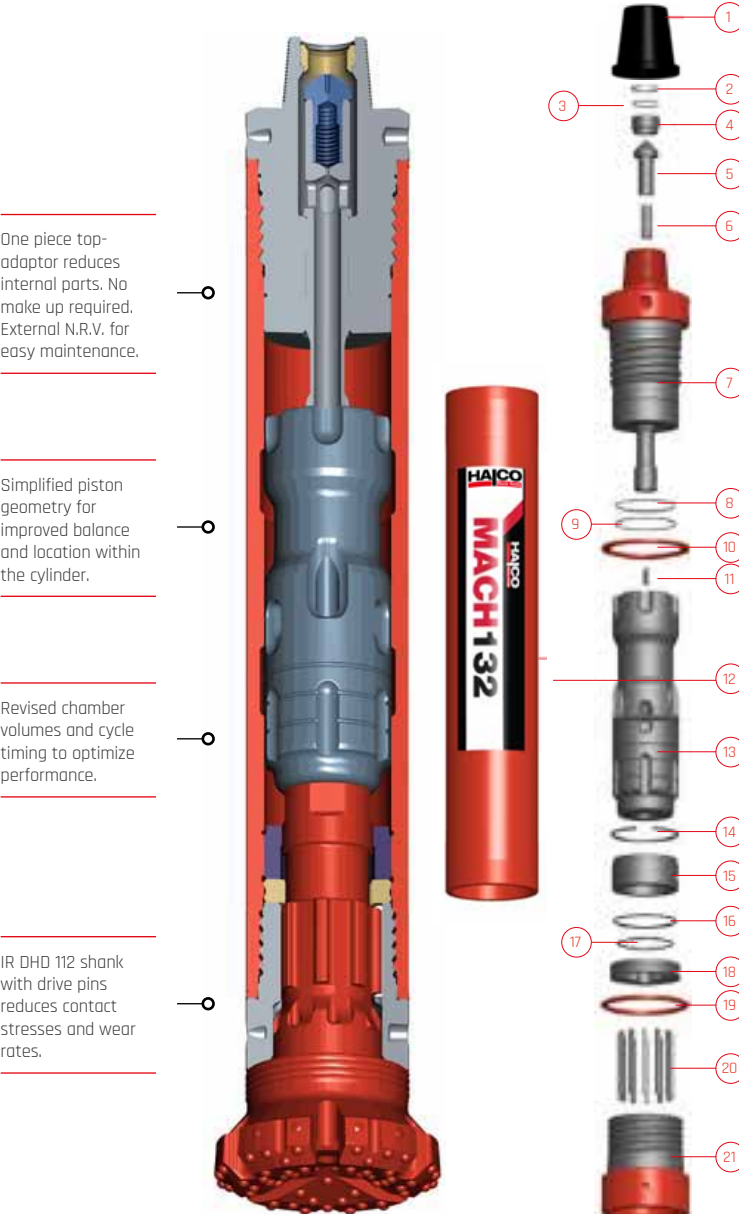


12" Mach 132

Mach 132

The Mach 132 hammer accepts IR DHD112 shank bits. This hammer, although capable of high pressure drilling is particularly suitable at pressures between 100 - 200 psi (7 - 14 bar).

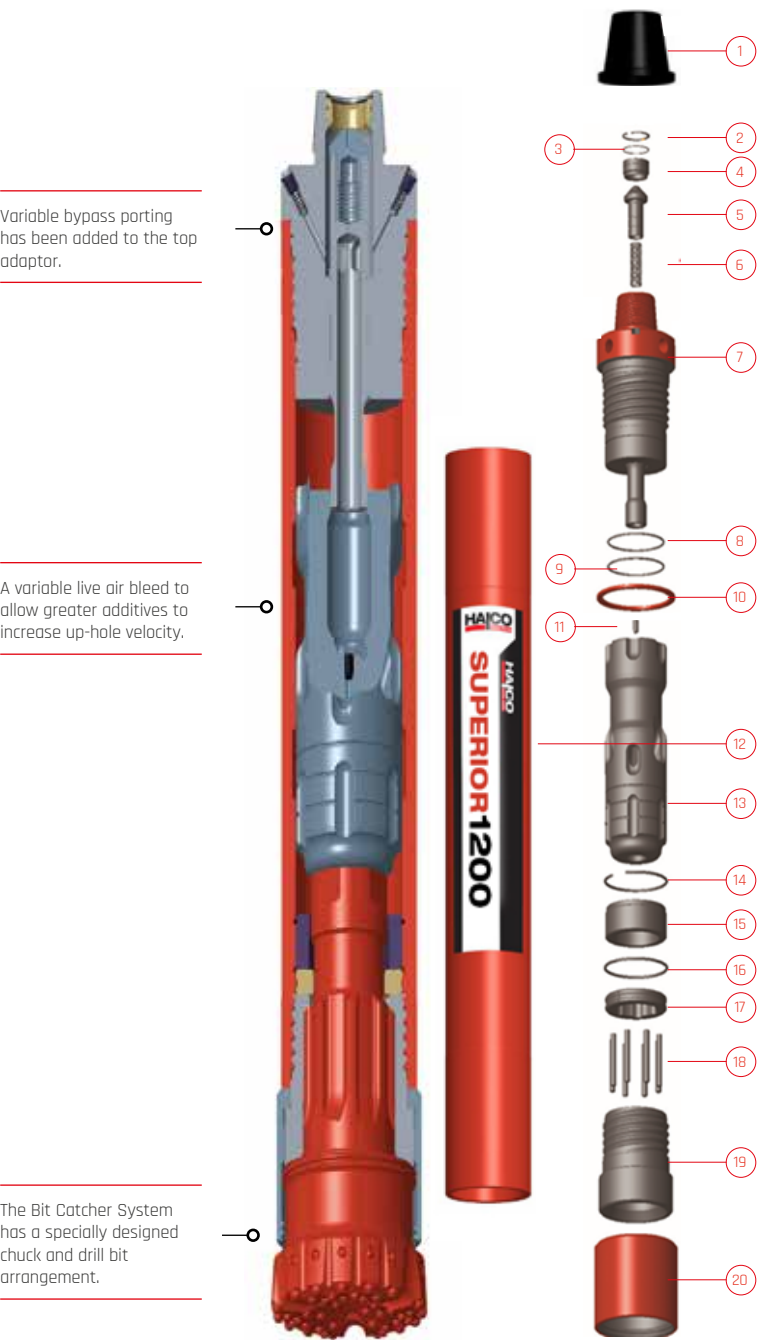
The Mach 132 has a pin drive system to prevent metal to metal contact thereby minimizing spline wear and damage which can result in drill bit shank failure. Mach 132 has a one piece top-adaptor with N.R.V. (Non-Return-Valve) fitted for easy inspection and service, with integral finger to reduce maintenance and eliminate shimming which increases service intervals. Servicing requires only a few simple tools. Mach 132 has no liner which increases the 140 kg piston blow energy and reduces parts required. This hammer is suitable for use with overburden systems.



12" Superior 1200

Superior 1200

The Superior 1200 incorporates a unique piston design for high performance and reliability especially in Oil & Gas applications. This hammer is suitable for a wide range of air pressures. Its optimum performance is reached at air pressures of 200psi (14 bar) and above. Standard 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.

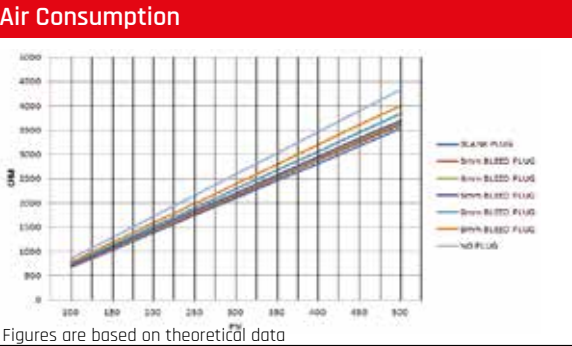


AT A GLANCE:

 SIZE	 SHANK	 AIR PRESSURE
381 - 660mm (15" - 19 1/4")	DHD112	100 - 435psi (7 - 30 bar)

Hammer Overview	
Hammer Model	Superior 1200 - Thrd ctch
Part Number	600435
Shank	DHD112 Pin Drive
Thread connection	6 5/8" API Reg Pin
Minimum bit diameter	381mm
Hammer flat size	C Ring type
Weight	615 Kg (1,356 lbs)
Outside diameter	273mm (10.75")
Length (shoulder to shoulder)	1684mm (66.3")
Minimum weight on bit	1600 Kg (3520 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List				
Hammer type	Superior 1200 - Thrd ctch		Maintenance Kits	
Shank	DHD112 Pin Drive			
Part number	600435		Service Kit	Repair Kit
Item	Description	Part No.	SK93	RK150
1	Thread Protector	200112		
2	Circlip	777001	1	1
3	O-Ring	768133	1	1
4	N.R.V. Seat	602286		1
5	Non Return Valve	602288		1
6	N.R.V. Spring	760055	1	1
7	Top Adaptor	605000		
8&9	O-Ring	768137	2	2
10	Bleed Plug - Blank	602499		
	Bleed Plug - 3mm	602500		
	Bleed Plug - 4mm	602501		
	Bleed Plug - 5mm	602502		
	Bleed Plug - 6mm	602503		
	Bleed Plug - 8mm	602874		
11	Spacer	602366		1
12	Cylinder	604875		
13	Piston	604503		
14	Snap Ring	783021	1	1
15	Bit Guide Bush	602531		1
16	O-Ring	768184	1	1
	Viton Band Contain- ment	603819	1	1
17	Bit Retaining Ring	602530		1
18	Drive Pin Set (8)	600564	1	1
19	Bit Catcher Chuck	604727		1
20	Threaded Catcher			
	Foot Valve	602522		

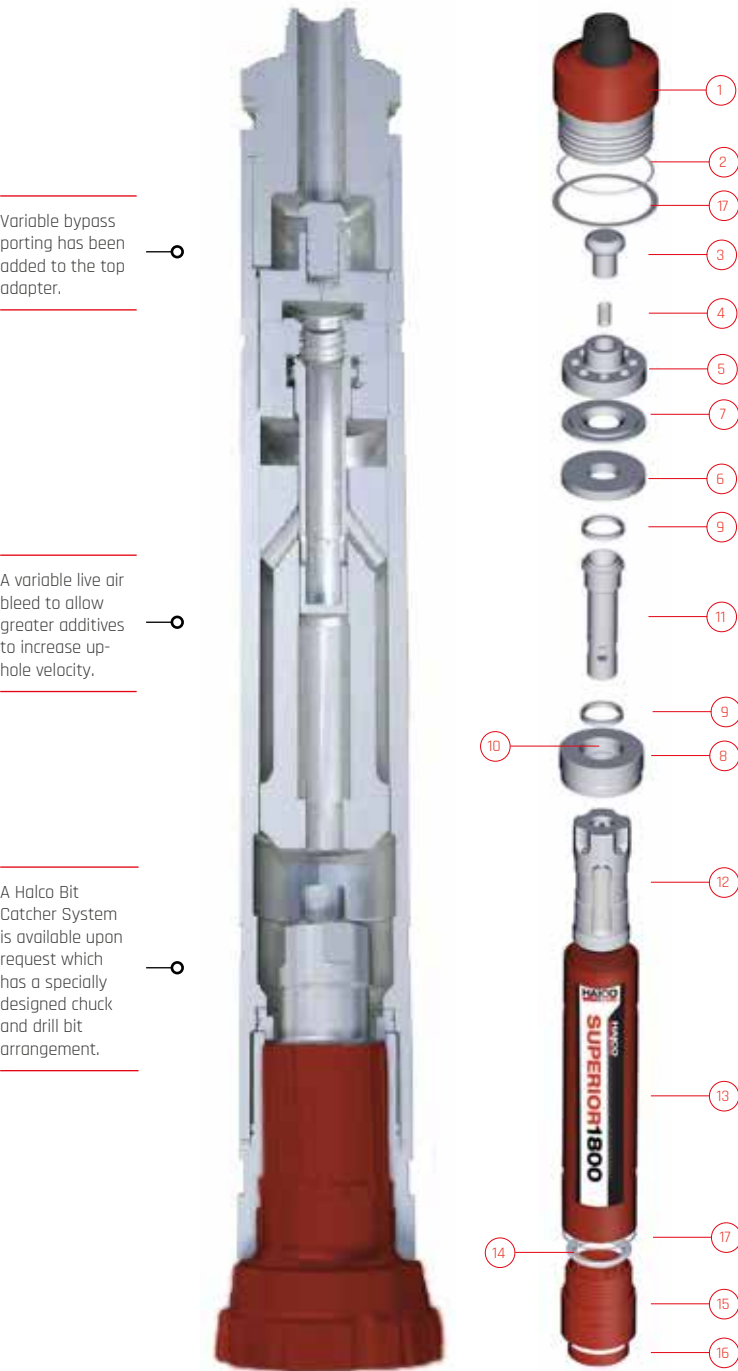


18" Superior 1800

Superior 1800

The Superior 1800 has been designed for high performance drilling in medium to hard rock conditions. Design features include a jetted back head and a variable air bleed piston to enable greater up hole velocity.

The Superior 1800 has a drive pin arrangement to prevent metal to metal contact, thereby minimising spline wear and damage, which can result in a drill bit shank failure.

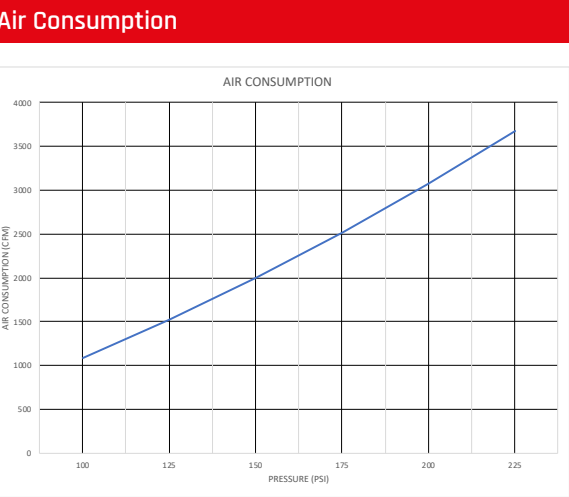


AT A GLANCE:

SIZE	SHANK	AIR PRESSURE
457 - 660mm 18 - 26"	NUMA180, SD-18 QL 200	100 - 435 psi (7 - 30 bar)

Hammer Overview	
Hammer Model	Superior 1800
Part Number	600191
Shank	NUMA 180
Thread connection	8 5/8" API Reg Pin
Minimum bit diameter	
Hammer flat size	C Ring type
Weight	1600 Kg
Outside diameter	410mm (16.14")
Length (shoulder to shoulder)	1930mm (75.98")
Minimum weight on bit	1600 Kg (3520 lbs)
Maximum weight on bit	3500 Kg (7700 lbs)

Parts List				
Hammer type	Superior 1800		Maintenance Kits	
Shank	NUMA 180		Service Kit SK98	Repair Kit RK155
Part number	600191			
Item	Description	Part No.		
1	Top Adaptor 8-5/8" Pin	605060		
2	Top Adaptor 'O' Ring	768224	1	1
3	Check Valve	605047		1
4	Check Valve Spring	760164	1	1
5	Valve Chest	605048		
6	Compression Buffer	605049		1
7	Buffer Cover	605050		
8	Tube Holder	605051		
9	Tube Buffers (2)	605052		2
10	Tube 'O' Ring	768225	1	1
11	Control Tube	605053		
12	Piston	605054		
13	Cylinder	605055		
14	Bit Retaining Ring	605056		1
15	Chuck	605057		1
16	Chuck Bearing	605058	1	1
17	Breakout Washer	605059	1	1



Drill Bits



Drill Bit Overview

What are 'Down-the-Hole' (DTH) Drill Bits and how are they used?

Down-the-hole drill bits are used with down-the-hole hammers for drilling holes through a wide range of rock types.

In conjunction with our DTH hammers, our drill bits are designed with a splined drive for rotating the bit in the ground. Drill bits are available in a range of different sizes and configurations so they can drill a wide range of holes sizes, in different ground conditions.



How have DTH Drill Bits developed?

Rapid advances in drill bit technology have occurred throughout the last 40 years. The first type of drill bits used with down-the-hole hammers were 'cross bit' design. Four chisel shaped lengths of tungsten carbide were brazed creating stresses within the drill bit thereby limiting its life. A further disadvantage of the cross bit design was that the majority of the carbide was situated around the centre of the bit face and not towards the outer edge of the drill bit where there is the most rock to cut.

In the late 1960s however, the button bit was introduced; this was a landmark in the progress of DTH equipment, which led to bit lives previously unheard of.

Cylindrical button inserts were precision ground to extremely close tolerances and pressed into the bit as an interference fit. This resulted in improved carbide insert retention by eliminating brazing stresses and other defects associated with brazing and braze materials.

Buttons inserts are distributed more efficiently than cross bit inserts by providing more cutting power where it is needed at the outer edge of the drill bit face.

In many cases, the need to sharpen the drill bit was eliminated with the arrival of the button bit and the improved cutting action provided. While the cross bit design is still used in some rotary and drifted applications where the rock is very soft, the button bit is now used in virtually every DTH application.

Applications for Overburden Systems

Soft soil is normally drilled with augers or by the rotary method but DTH hammers have been adapted to handle soft conditions by being able to drill and case a hole simultaneously by using a concentric bit, which can be withdrawn on completion of the bore hole; leaving the casing in situ, thus preventing hole collapse.

"We guarantee to have a drill bit that can tackle any challenge."

Drill Bit Selection Guide

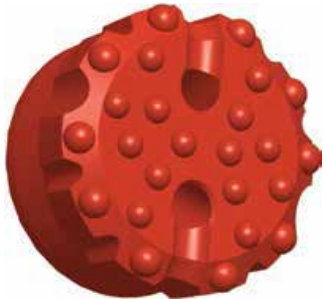
As with all Halco hammers it is crucial that you choose the right drill bit otherwise it will cost you both in time and money. We pride ourselves on having a comprehensive range of drill bits on offer so you can be sure that you will definitely find a suitable bit for any project you are undertaking.

Our carburised drill bits are among the best in the world providing outstanding performance and durability.

We produce all our drill bits at our specialised plant where they are made out of high quality nickel chrome alloy steel, carburised and heat-treated to offer extra protection against wear and fatigue. Every hole in the bit head is machined to within microns and fitted with carbide inserts which provide the cutting action of the rock.

We have three different bit heads on offer, Flat Face, Concave and Convex, which are available with three different inserts. We guarantee that we have a drill bit that can tackle any challenge and rock face formation. The two most important factors in choosing the right drill bit are productivity and reliability.

For soft to medium rock formations where penetration rates are high, the ballistic and semi-ballistic inserts coupled with flat face or concave bit heads are more suitable.



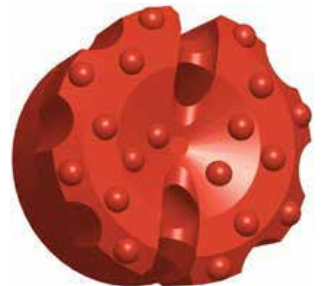
Flat Face

Alternative design for all rock conditions especially fractured and fissured rock and changing formations.



Ballistic Inserts

Suitable for soft and medium compact low abrasive rocks producing large cuttings.



Concave

Alternative design for all rock conditions particularly deep hole drilling can improve hole alignment as a result of inverted pilot.



Domed Inserts

Strong rugged shape for high performance and good service life in all conditions particularly suitable for very hard abrasive rocks and deep hole drilling.



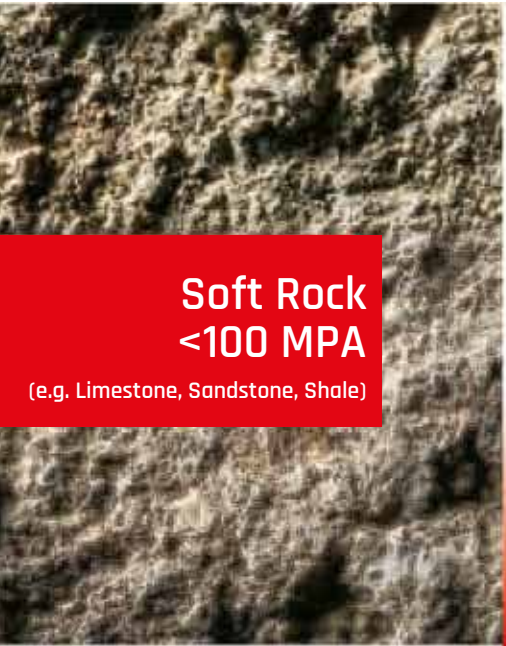
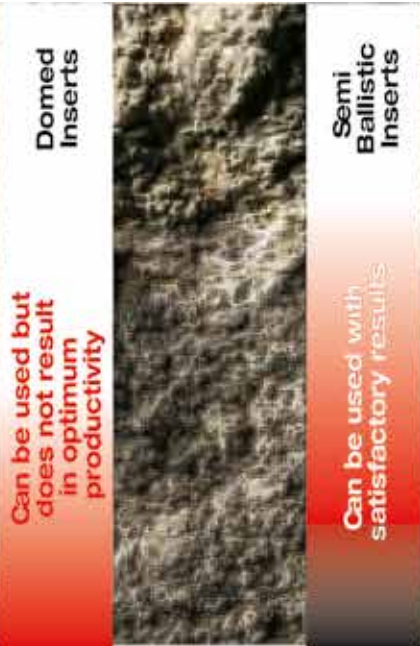
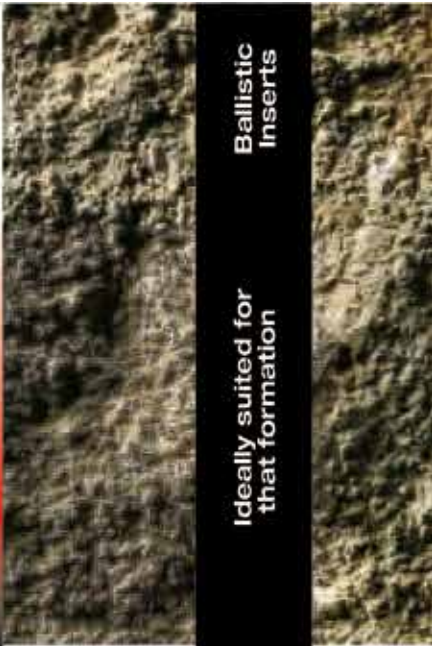
Convex

Strong design for all conditions especially hard abrasive rock. Good balance of fast drilling and long service life.



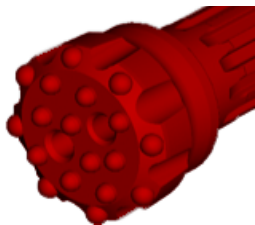
Semi-Ballistic Inserts

Suitable for all soft and medium rock conditions including fractured and fissured rock.

 Soft Rock <100 MPA (e.g. Limestone, Sandstone, Shale)	Domed Inserts Can be used but does not result in optimum productivity	 Semi Ballistic Inserts Can be used with satisfactory results	 Ballistic Inserts Ideally suited for that formation
 Medium Rock 100 - 150 MPA (e.g. Slate, Dolomite)	Can be used with satisfactory results	Ideally suited for that formation	Can be used with satisfactory results
 Hard Rock >150 MPA (e.g. Granite, Basalt, Quartz)	Ideally suited for that formation	Can be used but does not result in optimum productivity	Can be used but does not result in optimum productivity

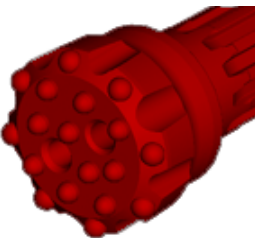
DOMINATOR 100 DOM 10 168 mm (5.51") 10 Spline 45 mm (1.77")	MACH 20 DOM 20 165 mm (6.50") 6 Spline	MACH 303 170 mm (6.69") 8 Spline 49 mm (1.93")	MD 3.5 181 mm (7.12") 8 Spline 58.5 mm (2.3")	DHD 3.5 LR 3.5 DOM 30 181 mm (7.12") 8 Spline 58.5 mm (2.3")
SD 450 210 mm (8.27") 12 Spline 60 mm (2.36")	MACH 44 HALCO 4 245 mm (9.65") 8 Spline 56 mm (2.2")	DHD 340A COP 44 DHD 4 210 mm (8.27") 8 Spline 56 mm (2.2")	TD40 COP 44 G QLX 40 209mm (8.23") 12 Spline 57mm (2.24")	MACH 50 HALCO 5 266 mm (10.47") 8 Spline 52 mm (2.05")
SD 5 260 mm (12.68") 8 Spline 52 mm (2.05")	DHD 350R COP 54 DHD 5 261 mm (10.28") 8 Spline 64 mm (2.52")	QL 50 TD 50 COP 54GE 240 mm (9.45") 12 Spline 52.5 mm (2.07")	MACH 60 HALCO 6 320 mm (12.6") 8 Spline 51 mm (2.00")	SD 6 322 mm (12.68") 8 Spline 51 mm (2.00")
DHD 360 DHD 6 COP 64 306 mm (12.05") 8 Spline 51 mm (2.00")	QL 60 TD60/65/70 COP 64G 254 mm (10.00") 12 Spline 60 mm (2.36")	Mach 80 HALCO 8 350 mm (13.78") 8 Spline 51 mm (2.00")	SD 8 320 mm (12.60") 8 Spline 56.5 mm (2.22")	DHD 380 COP 84 DHD 8 350 mm (13.78") 10 Spline 50 mm (1.97")
QL 80 TD 80 332 mm (13.07") 16 Spline 54 mm (2.13")	TD 90 332mm (13.07") 16 Spline 54mm (2.13")	SD 10 365 mm (14.01") 8 Spline 55 mm (2.17")	DHD 112 491mm (19.33") 8 Spline Pin Drive 56mm (2.20")	DHD 112S 636 mm (25.04") 12 Spline Pin Drive 52.5 mm (2.07")
SD 12 470 mm (18.50") 44.5 mm (1.95")	QL 120 492 mm (19.37") 69.5 mm (2.74")			

1" Halco 1



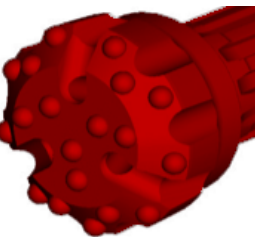
Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
650017	55	2	Flat Face	Domed	2	11mm (6)	9mm (2)
650032	64	2 1/2	Flat Face	Domed	2	11mm (6)	9mm (2)
653001	64	2 1/2	Flat Face	Semi-Ballistic	2	11mm (6)	9mm (3)

2" Halco 2



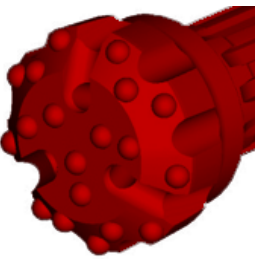
Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
650952	70	2 3/4	Flat Face	Domed	2	11mm (6)	9mm (4)
650953	76	3	Flat Face	Domed	2	11mm (6)	9mm (5)
650954	76	3	Flat Face	Ballistic	2	11mm (6)	9mm (5)

3" IR3.5

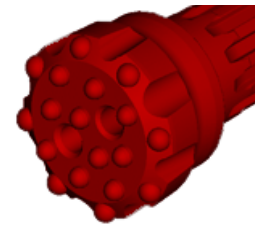


Convex							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
650622	90	3 1/2	Convex	Semi Ballistic	2	11mm (6)	11mm (7)
650623	90	3 1/2	Convex	Domed	2	11mm (6)	11mm (7)
650609	95	3 3/4	Convex	Semi Ballistic	2	11mm (8)	11mm (7)
650621	100	4	Convex	Domed	2	11mm (8)	11mm (7)
650610	100	4	Convex	Semi Ballistic	2	11mm (8)	11mm (7)
650624	104	4 1/10	Convex	Domed	2	13mm (8)	11mm (8)

3" MD3.5

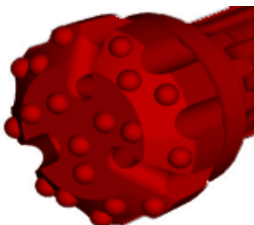


Convex							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653354	95	3 3/4"	Convex	Semi Ballistic	2	14mm (6)	14mm (5)
653628	105	4 1/4	Convex	Ballistic	2	11mm (10)	11mm (3)



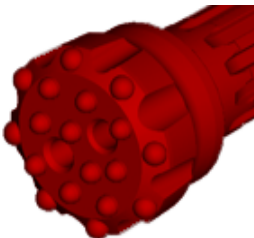
Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653384	95	3 3/4	Flat Face	Domed	2	14mm (6)	14mm (5)
653349	100	4	Flat Face	Domed	2	11mm (8)	11mm (8)

4" DHD340 Bits



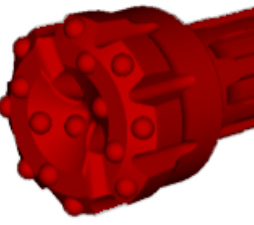
Convex								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650968	108		Convex		Semi Ballistic	2	13mm (12)	12mm (3)
653091	110	4 5/16	Convex		Parabolic	2	14mm (8)	14mm (6)
650526	115	4 1/2	Convex		Parabolic	2	13mm (12)	13mm (4)
650967	115	4 1/2	Convex		Parabolic	2	13mm (12)	13mm (4)
653482	127	5	Convex	✓	Ballistic	3	13mm (15)	13mm (5)
653094	140	5 1/2	Concave	✓	Domed	3	16mm (9)	14mm (9)
653683	150	5 7/8	Convex	✓	Domed	2	13mm (12)	13mm (5)
653682	150	5 7/8	Convex	✓	Ballistic	2	13mm (12)	13mm (5)

Note * Oversize sold without warranty



Flat Face								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650955	115	4 1/2	Flat Face		Domed	2	14mm (8)	13mm (10)
653623	115	4 1/2	Flat Face		Domed	2	16mm (8)	13mm (6)
650965	130	5 1/8	Flat Face	✓	Domed	2	14mm (8)	14mm (10)

Note * Oversize sold without warranty

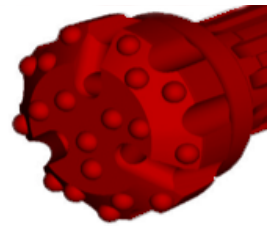


Concave								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650625	115	4 1/2	Concave		Domed	2	14mm (8)	13mm (6) DWB
650680	120	4 3/4	Concave		Domed	2	13mm (8)	13mm (6) DWB
653094*	140	5 1/2	Concave	✓	Domed	3	16mm (9)	14mm (9)

Note * Oversize sold without warranty

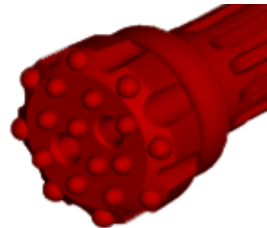


4" Halco 4.5 Bits



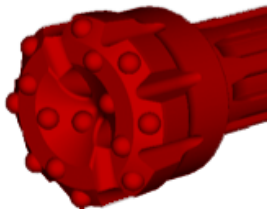
Convex								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
653223	110	4 5/16	Convex		Domed	2	14mm (8)	14mm (6)
653217	110	4 1/3	Convex		Ballistic	2	14mm (7)	14mm (7)
653224	115	4 1/2	Convex		Domed	2	14mm (8)	14mm (7)
653209	115	4 1/2	Convex		Ballistic	2	14mm (8)	14mm (7)
653197	127	5	Convex	✓	Ballistic	2	14mm (9)	14mm (9)

Note * Oversize sold without warranty



Flat Face								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
653230	115	4 1/2	Flat Face		Domed	2	14mm (8)	13mm (10)
653650	127	5	Flat Face	✓	Domed	2	16mm (8)	13mm (8)

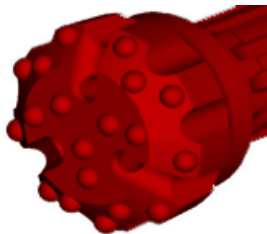
Note * Oversize sold without warranty



Concave								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
653268	127	5	Concave	✓	Domed	2	14mm (8)	13mm (8)

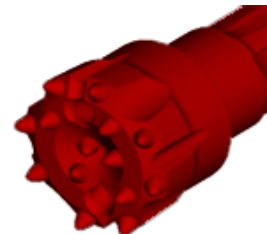
Note * Oversize sold without warranty

4" Halco 4 Bits



Convex								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650931	110	4 5/16	Convex		Domed	2	13mm (12)	13mm (3)
650932	115	4 1/2	Convex		Domed	2	14mm (8)	13mm (8)
650933	120	4 3/4	Convex		Domed	2	14mm (8)	13mm (8)
650466	127	5	Convex	✓	Domed	2	13mm (12)	13mm (4)
650444	140	5 1/2	Convex	✓	Domed	2	13mm (12)	13mm (5)
650445	150	5 7/8	Convex	✓	Domed	2	13mm (12)	18mm (5)

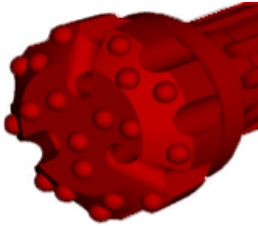
Note * Oversize sold without warranty



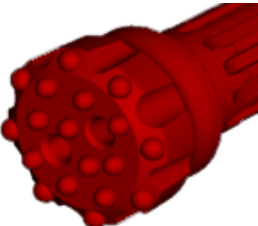
Concave							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
650925	127	5	Concave	Semi Ballistic	2	13mm (8)	13mm (8)

Note * Oversize sold without warranty

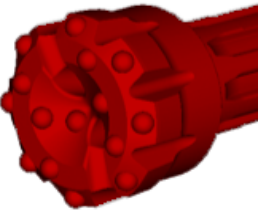
5" QL50 Bits



Convex							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653238	130	5 1/8	Convex	Ballistic	3	14mm (9)	14mm (9)
653593	140	5 1/2	Convex	D/B	3	14mm (9)	14mm (9)



Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653235	140	5 1/2	Flat Face	Domed	2	16mm (8)	16mm (8)LGD

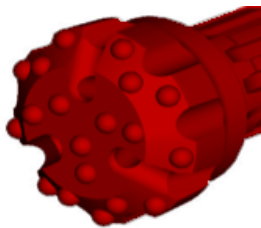


Concave								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
670249	140	5 1/2	Concave		Domed	2	16mm (8)	16mm (7)
670250	146	5 3/4	Concave		Domed	2	16mm (8)	16mm (8)
653639	152	6	Concave	✓	Domed	3	16mm (15)	14mm (5)
670700	152	6	Concave	✓	Domed	2	16mm (8)	16mm (8)
653715	165	6 1/2	Concave	✓	Domed	3	16mm (15)	14mm (6)

Note * Oversize sold without warranty



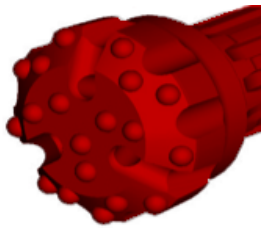
5" Halco 5 Bits



Convex								
Part Number	Diameter		Face design	Oversize Bit	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650461	127	5	Convex		Domed	2	13mm (10)	13mm (3)
650838	127	5	Convex		Domed	2	11mm (12)	11mm (6)
650578	140	5 1/2	Convex		Domed	2	16mm (11)	16mm (3)
650463	150	5 7/8	Convex		Domed	2	16mm (11)	16mm (3)
650464	165	6 1/2	Convex	✓	Domed	2	16mm (12)	16mm (4)

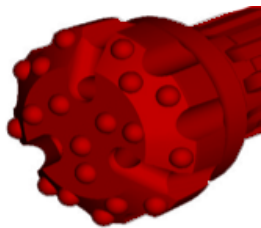
Note * Oversize sold without warranty

5" Mission 50 Bits

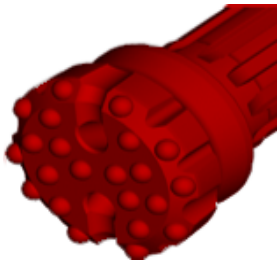


Convex							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
671105	140	5 1/2	Convex	Ballistic	3	16mm (9)	16mm (9)

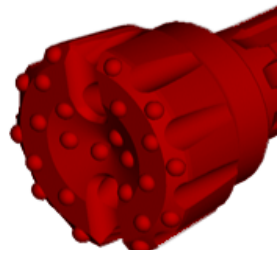
6" QL60 Bits



Convex							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653651	171	6 3/4	Convex	Parabolic	3	18mm (13)	18mm (6)



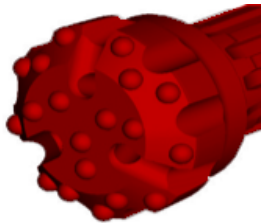
Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653352	165	6 1/2	Flat Face	Domed	2	18mm (10)	18mm (12)
653553	171	6 3/4	Flat Face	Domed	2	18mm (10)	18mm (12)



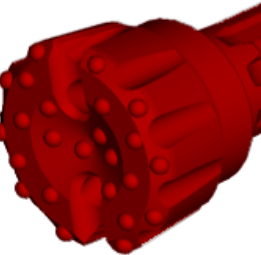
Concave							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
670210	150	6	Concave	Domed	2	16mm (12)	16mm (4)
671131	155	6	Concave	Domed	2	16mm (8)	16mm (8)
670334	159	6 1/4	Concave	Domed			
670208	165	6 1/2	Concave	Domed	2	19mm (8)	16mm (8)
670216	165	6 1/2	Concave	Domed	2	16mm (8)	16mm (8)
670582	165	6 1/2	Concave	Domed	2	16mm (10)	16mm (9)
670592	171	6 3/4	Concave	Domed	3	19mm (9)	16mm (11)
670718	171	6 3/4	Concave	Domed	3	19mm (9)	16mm (11)
670449	171	6 3/4	CC CV	Domed	2		
653118	171	6 3/4	Concave	Domed	2	16mm (8)	16mm (10)
670665	178	7	Concave	Domed	3	16mm (9)	16mm (11)
653128	178	7	Concave	Domed	2	20mm (8)	16mm (11)
670722	190	7 1/2	Concave	Domed	2	16mm (10)	16mm (14)
653227	190	7 1/2	Concave	Domed	2	16mm (10)	16mm (14)
671064	200	7 7/8	Concave	Domed	3	19mm (9)	16mm (18)
670220	203	8	Concave	Domed	2	16mm (10)	16mm (13)

Note * Oversize sold without warranty

6" DHD360 Bits



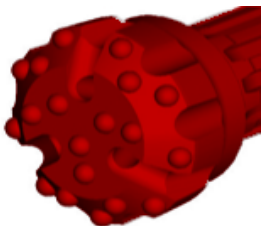
Convex								
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty	
	mm	Inches						
650783	152	6	Convex	Domed	2	16mm (15)	16mm (5)	
650795	165	6 1/2"	Convex	Domed	2	16mm (15)	16mm (5)	



Concave								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
670076	150	6	Concave		Domed	2	16mm (8)	16mm (8)
650783	152	6	Concave		Domed	2	16mm (15)	16mm (5)
670088	165	6 1/2	Concave		Domed	3	16mm (8)	16mm (8)
650789	165	6 1/2	Concave		Domed	2	16mm (8)	16mm (10)
653038	170	6 2/3	Concave		Domed	2	16mm (8)	16mm (10)
653097	180	7	Concave	✓	Domed	2	16mm (8)	16mm (10)
653098	190	7 1/2	Concave	✓	Domed	2	16mm (10)	16mm (14)

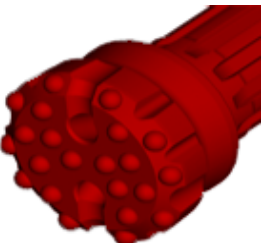
Note * Oversize sold without shank warranty

6" Halco 6



Convex								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650585	152	6	Convex		Domed	2	16mm (12)	16mm (4)
650440	200	7 7/8	Convex	✓	Domed	3	16mm (12)	16mm (8)
650441	225	8 6/7	Convex	✓	Domed	3	16mm (15)	16mm (11)
650457	245	9 5/8	Convex	✓	Domed	3	16mm (15)	16mm (12)

Note * Oversize sold without warranty



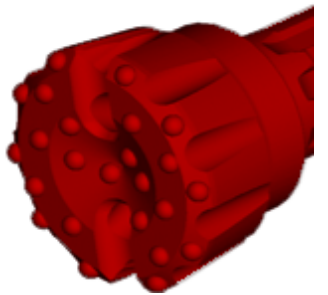
Flat Face								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650354	191	7 1/2	Flat Face	✓	Domed	3	16mm (13)	16mm (8)

Note * Oversize sold without warranty

8" QL80 Bits

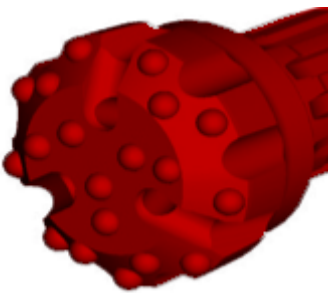


Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653490	203		Flat Face	Domed	2	18mm (10)	18mm (16)



Concave							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653379	203	8	Concave	Domed	2	18mm (10)	18mm (14)
670415		8	Concave	Domed	2	19mm (10)	16mm (14)
671097	222	8 3/4	Concave	Domed	2	18mm (10)	18mm (16)
671116	225	8 7/8	Concave	Domed	3	18mm (9)	18mm (9)
670763	225	8 7/8	Concave	Domed		19mm (10)	19mm (8) 16mm (8)
653711	229	9	Concave	Domed	3	18mm (27)	18mm (9)
671100	229	9	Concave	Domed	3	19mm (21)	16mm (9)
670763	251	9 7/8	Concave	Domed	2	19mm (18)	16mm (8)

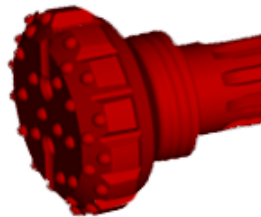
8" Halco 8



Convex								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650571	225		Convex		Domed	3	16mm (16)	16mm (10)
650746	254	10	Convex	✓	Domed	2	20mm (15)	20mm (5)
653510	290		Convex	✓	Domed	4	16mm (20)	16mm (18)
650365	311	12 1/4	Convex	✓	Domed	3	20mm (18)	20mm (11)

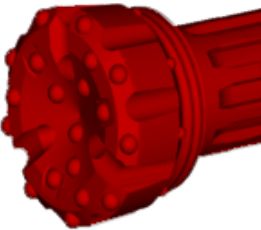
Note * Oversize sold without warranty

8" DHD380 Bits



Flat Face								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650898	300	11 4/5	FLAT FACE	✓	DOMED	2	20mm (22)	20mm (12)

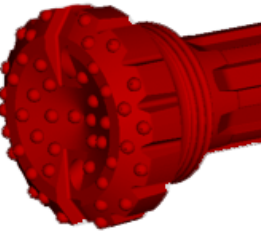
Note * Oversize sold without warranty



Concave								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650977	200	7 7/8	Concave		Domed	2	16mm (14)	20mm (10)
650373	203	8	Concave		Domed	2	20mm (10)	16mm (14)
650074	216	8 1/2	Concave		Domed	3	13mm (9)	20mm (20)
670437	222	8.3/4	Concave		Domed	2	19mm (14)	19mm (5)
650022	241	9 1/2	Concave		Domed	2	20mm (18)	16mm (10)
650389	254	10.0	Concave		Domed	2	20mm (18)	16mm (11)
653041	311	12 1/4	Concave	✓	Domed	2	20mm (22)	20mm (20)

Note * Oversize sold without warranty

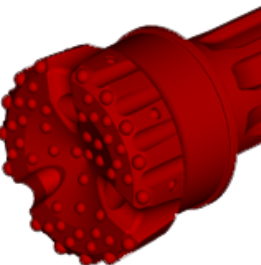
10" SD-10 Bits



Concave								
Part Number	Diameter		Face design	Oversize Bits	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches						
650648	254	10	Concave		Domed	2	20mm (10)	20mm (8) 16mm (11)
650650	305	12	Concave		Domed	3	20mm (21)	20mm (13)
650071	311	12.1/4	Concave	✓	Domed	2	20mm (22)	20mm (24)
650072	381	15	Concave	✓	Domed	3	20mm (27)	20mm (38)

Note * Oversize sold without warranty

12" DHD112 Bits



Extended Head bit catcher Concave							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653631	381	15	Concave	Domed	3	20mm (36)	18mm (24)
653704	422	16 5/8	Concave	Domed	3	20mm (61)	16mm (15)
653552	444	17 1/2	Concave	Domed	3	22.2mm (48)	18mm (18)

12" SD-12 Bits



Concave							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
650383	311	12 1/4	Concave	Domed	3	20mm (21)	20mm (10)
650376	445	17 1/2	Concave	Domed	3	20mm (48)	20mm (31)

Note standard concave bits have no fishing thread

18" NUMA 180 Bits



Flat Face							
Part Number	Diameter		Face design	Button shape	Flushing holes	Gauge carbide diameter & Qty	Face carbide diameter & Qty
	mm	Inches					
653762	660	26"	Flat Face	Domed	3	20mm (42)	20mm (89)

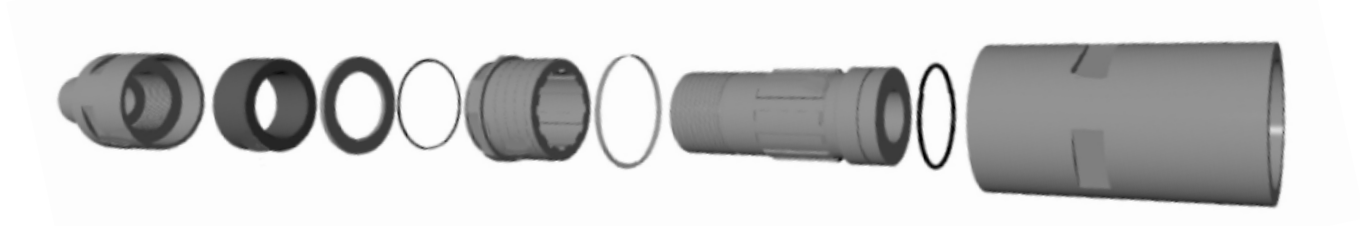


Shock Absorbers 2 - 6"



Size	2"	3"	4"	5"	6"
Complete Shock Absorber	600688	600689	600690	600691	600692
Effective Length (Shoulder to Shoulder)	346mm (13.62")	457mm (17.93")	483mm (19.02")	514mm (20.27")	578mm (22.76")
Outside Diameter	62mm (2.44")	79.4mm (3.13")	95.4mm (3.76")	115mm (4.54")	140mm (5.51")
Thread Connection	50mm DIN405	2 3/8" API Reg	2 3/8" API Reg	3 1/2" API Reg	3 1/2" API Reg
Net Weight	7.5kg (16.5lb)	14.3kg (31.5lb)	22.1kg (48.7lb)	33.2kg (73.2lb)	53.0kg (116.8lb)

Shock Absorbers 8 - 10"



Size	8"	10"
Complete Shock Absorber	600693	600694
Effective Length (Shoulder to Shoulder)	585mm (23")	635mm (25")
Outside Diameter	178mm (7")	216mm (8.5")
Thread Connection	4 1/2" API Reg	6 5/8" API Reg
Net Weight	84kg (185.2lb)	98kg (216.1lb)

Shock Absorber 12"



Size	12"
Complete Shock Absorber	600695
Effective Length (Shoulder to Shoulder)	724mm (28.5")
Outside Diameter	254mm (10")
Thread Connection	6 5/8" API Reg
Net Weight	215kg (474lb)

SIM-CASX

Casing advancing system for overburden and loose rock formations.

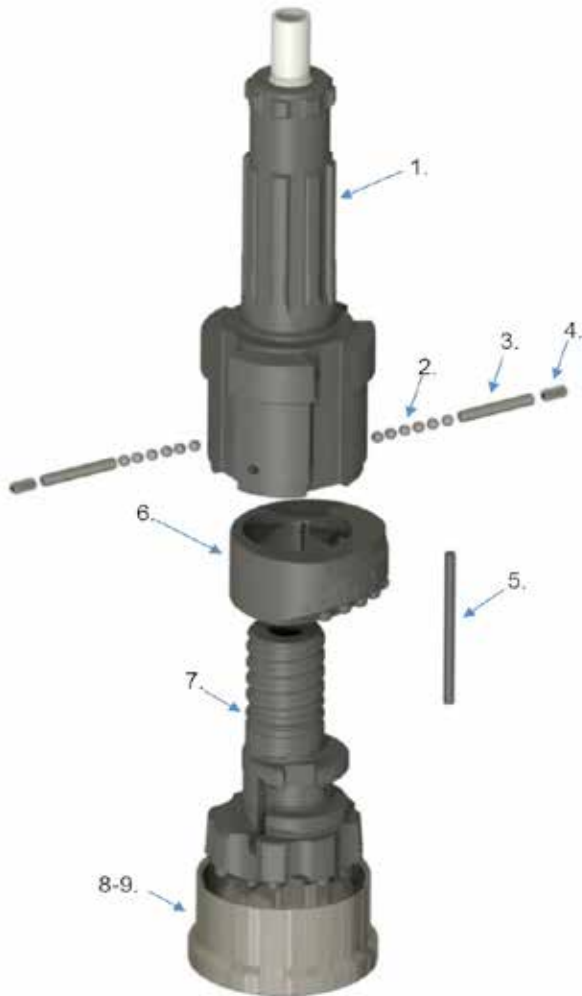
Halco's eccentric Sim-Cas system is still one of the most cost effective solutions for casing installation when drilling in difficult ground conditions. The eccentric system negates the need to leave expensive ring bits in the hole when installing permanent casing.

The updated Sim-CasX solution has several benefits over its predecessor while retaining Halco's renowned product quality:

- Two piece pilot and reamer, allowing high wear reamers to be replaced more often
- Larger Pilot bit so the Reamer does less work resulting in longer reamer life
- Stronger Pilot bit shaft for better impact energy transfer
- Internal drive lug with pressurised cleaning channels, ensures the reamer is always in the correct drilling position
- Ball bearing retaining system to ensure nothing comes adrift down the hole



Size	Shank	Pilot Bit diameter	Reaming diameter	Maximum Casing OD	Minimum Casing ID
Sim-CasX 90	DHD 3.5	90	123	115	102
Sim-CasX 115	DHD 340	115.8	151.2	142	128
Sim-CasX 140	DHD 350	141.2	185.8	171	155.6
Sim-CasX 165	DHD 360	165.8	211.2	195.6	182.5
Sim-CasX 190	DHD 360	190.8	236.2	222	205
Sim-CasX 240	DHD 380	240.8	308	273	260.4



System Size	90	115	140	165	190	240
Shank	DHD 3.5	DHD340	DHD350	DHD360	DHD360	DHD380
Pilot Bit diameter mm	90.0	115.8	141.2	165.8	190.8	240.8
Reaming diameter mm	123.0	151.2	185.8	211.2	236.2	308.0
Maximum Casing OD mm	115.0	142.0	171.0	195.6	222.0	273.0
Minimum casing ID mm	102.0	128.0	155.6	182.5	205.0	260.4
Casing thickness for thick wall shoe mm	6.0	5.6	5.6	5.6	6.3	6.3
Casing thickness for thin wall Shoe mm	4.5	4.5	4.5	4.5	5.0	

System Size	90	115	140	165	190	240
Sim-CasX System	651041	651040	651042	651043	651044	651045
1 - Guide Device	651046	651052	651058	651059	651069	651075
6 - Reamer	651048	651054	651060	651066	651071	651077
7 - Pilot Bit	651049	651055	651061	651067	651072	651078
8 - Casing Shoe - thick wall	651050	651056	651062	651073	651073	651079
9 - Casing Shoe - thin wall	651051	651057	651063	651074	651074	
Locking Kit	651047	651053	651059	651070	651070	651076
2 - Retaining balls						
3 - Solid locking pins						
4 - Spring Pins						
5 - Pusher Pin						

Air Volume	Example
1 cc = .001 litre	1000cc = 1 litre
1 litre = .001 m3	1000 litres = 1 m3

Air Flow	Example
1 cfm = 0.0283 m3/min	100 cfm = 2.83 m3/min
1 cfm = 0.4719 litre/sec	100 cfm = 47.19 litre/sec
1 m3/min = 35.315 cfm	10 m3/min = 353.15 cfm
1 m3/min = 16.667 litre/sec	10 m3/min = 166.67 litre/sec
1 litre/sec = 2.1189 cfm	100 litre/sec = 211.89 cfm
1 litre/sec = 0.0600 m3/min	100 litre/sec = 600 m3/min

Air Pressure	Example
1 psi = 0.0689 bar	100 psi = 6.89 bar
1 psi = 0.0703 kg/cm2	100 psi = 7.03 kg/cm2
1 psi = 0.0680 atm (Atmosphere)	100 psi = 6.80 atm
1 bar = 14.504 psi	10 bar = 145.04 psi
1 bar = 1.0197 kg/cm2	10 bar = 10.197 kg/cm2
1 bar = 0.9869 atm	10 bar = 9.869 atm
1 atm = 14.696 psi	10 atm = 146.96 psi
1 atm = 1.0132 bar	10 atm = 10.132 bar
1 atm = 1.0332 kg/cm2	10 atm = 10.332 kg/cm2

Velocity	Example
1 m/min = 3.2808 ft/min	1000 m/min = 3280.80 ft/min
1 m/min = 0.0167 m/sec	1000 m/min = 16.70 m/sec
1 ft/min = 0.3048 m/min	1000 ft/min = 304.80 m/min
1 ft/min = 0.0051 m/sec	1000 ft/min = 5.10 m/sec
1 m/sec = 60.00 m/min	10 m/sec = 600 m/min
1 m/sec = 196.85 ft/min	10m/sec = 1968.50 ft/min

Torque	Example
1 lb/ft = 0.1383 kgm	1000 lb/ft = 138.30 kgm
1 lb/ft = 1.3558 Nm	1000 lb/ft = 1355.80 Nm
1 lb/ft = 12.00 lb/in	1000 lb/ft = 12,000 lb/in
1 kgm = 7.233 lb/ft	100 kgm = 723.30 lb/ft
1 kgm = 9.8067 Nm	100 kgm = 980.67 Nm
1 kgm = 86.796 lb/in	100 kgm = 8679.60 lb/in
1 lb/in = 0.0833 lb/ft	1000 lb/min = 83.30 lb/ft
1 lb/in = 0.0115 kgm	1000 lb/in = 11.50 kgm
1 lb/in = 0.1130 Nm	1000 lb/in = 113 Nm





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