



Reverse Circulation Hammers & Bits

Controlled Flow of Cuttings Exhausted Up Center of Drill String

- Five valveless hammer models for drilling holes 5¼" to 38" (133 to 965 mm) in diameter
- Cuttings exhaust up a collection tube in the center of the hammer and RC drill string to be safely collected at the surface
- No interchange requirement
- Environmentally sensitive - no foam required for hole cleaning and lubricants are not free to contaminate the formation
- Exceptional performance against high heads of water
- Hole erosion dramatically reduced
- Faster and more efficient than rotary drilling
- Typical applications include: exploration, dewatering wells, caissons, piles/rock sockets, foundation drilling and other jobs where large volume of rock excavation is required



The World's **Leading**
Drilling Technology



REVERSE CIRCULATION HAMMER SPECIFICATIONS

Hammer	Bit Shank	Hole Sizes		Diameter	Bore	Stroke	Weight		Length Shoulder to Shoulder	Length Shoulder to Bit Face	Thread Connection	Min Oil Required	Blows/Min
		inch	mm				lbs	kg		inch		Quart/ Hour	
Patriot RC50	PRC50	5 1/4 to 5 3/4	133 to 146	4 7/8	4.0	4.0	140	64	41.8	46.9	Several	2	1675 @ 350 (23.8)
Challenger RC100	RC100	10 to 15	254 to 381	9 1/2	8.3	4.0	705	320	60.5	70.0	Several	4	1250 @ 250 (17)
Champion RC160	RC160	16 to 20	406 to 508	15 1/2	12.0	5.0	2871	1305	81.8	91.8	Several	10	950 @ 200 (13.6)
Champion RC210	RC210	21 to 28	533 to 711	20	15.0	5.0	3866	1757	83	97	Several	12	925 @ 200 (13.6)
Champion RC300	RC300	30 to 38	762 to 965	28	20.0	5.5	10908	4958	89.0	106.0	Several	20	900 @200 (13.6)

BIT SPECIFICATIONS

Size Class	Bit Shank	Diameter Hole		Weight	Air Slots	Face			Gauge Buttons	Carbide Size					Wear Protection	Retained
		inch	mm	lbs	kg	CC	CV	FL		7/16"	9/16"	5/8"	3/4"	7/8"		
5" RC Class	PRC50	5 1/4 to 5 3/4	133 to 146	32 to 36	14.5 to 16	S			8			S	O			
10" RC Class	RC100	10 to 15	254 to 381	255 to 525	116 to 238	S			16				S	O		O
16" RC Class	RC160	16 to 20	406 to 508	950 to 1121	431 to 508	S			16				S	O	O	O
21" RC Class	RC210	21 to 28	533 to 711	1650 to 2200	748 to 998	S			30				S	O	O	O
30" RC Class	RC300	30 to 38	762 to 965	3847 to 5022	1745 to 2283	S			27				S	O	O	O

