



HDD DRILLING SYSTEMS

Drills holes from 3 1/8" to 7 1/2" (98 - 191 mm)

Numa offers a full arsenal of HDD hammers, bits, side sonde housings, bent subs, and adaptors for all your directional drilling needs.

All our HDD hammers are constructed with a hardened reversible case allowing drillers to use our products longer than competing brands. Furthermore, the single bore design allows for a maximum bore diameter in conjunction with optimum life against abrasion. Quite simply, the Numa HDD product line provides performance and dependability without sacrificing tool life.

Features

- Industry leading steerability
- → Outstanding rate of penetration
- → Simple design allows for field maintenance
- → Reduced air requirements results in lower cost per foot
- → More efficient and durable internal design
- → High frequency operation provides less vibration



Unmatched Quality & Support

Our high quality, U.S. made products are customizable to meet the needs of your project application. We back that up with unparalleled customer support before, during, and after your drilling project.

- → Convex & Slant face options available
- → Carbide buttons positioned to effectively fracture rock providing for faster penetration rates
- → Carbide grades selected for HDD Performance
- Other bit sizes may be available upon request

Hammer & Bit Specification Charts

HDD HAMMERS

Hammer	Bit Shank	Hole Sizes	Diameter	Bore	Stroke	Weight	Length Shoulder to Shoulder	Length Shoulder to Bit Face	Suggested Air Pressure	Blows per Min	Mil Oil Required	Thread
		inch	inch	inch	inch	lbs	Inch	inch	psi	@350psi	Quarts	Connection
		mm	mm	mm	mm	kg	mm	mm	bar	@23.8bar	or Litres per hour	
HDD 35	HDD 35	3 1/8 to 4	3 1/4	2.5	3.1	49	28.6	31.1	200 to 500	1750	1	2 3/ ₈ API Reg Pin
		98 to 102	82.6	63.5	79.4	22	727.1	790.6	13.8 to 34.5	1750		
HDD 40	HDD 40	4 ¾ to 5	3 1/8	3.1	4.0	87	36.1	39.4	200 to 500	1960	1	2 3/8 API Reg Pin
		121 to 127	98.4	77.5	101.6	40	917.6	1000.1	13.8 to 34.5	1960		
HDD 50	HDD 50	5 3/4 to 6 1/8	5	4.0	3.3	141	36.4	40.0	300 to 500	1950	2	3 ½ API Reg Pin
		146 to 156	127.0	101.6	82.6	64	925.5	1016.0	20.7 to 34.5	1950		
HDD 60	HDD 60	7 to 7 ½	5 3/4	4.5	4.0	197	38.8	43.2	300 to 500	1050	2	3 ½ API Reg Pin
		178 to 191	146.1	114.3	101.6	90	985.8	1097.3	20.7 to 34.5	1950		

DRILL BITS

S= Standard O= Optional

		Face	Diameter Hole	Weight			Carbide Size				
Size Class	Bit Shank		inch	lbs	Air Slots	Gauge Buttons	7/16"	9/16"	5/8"	3/4"	
			mm	kg							
3" Class	HDD 35	Convex	3 1/8 to 4	10 to 11	2	8	S				
	1100 33		98.4 to 102	4.5 to 5							
	HDD 35	Slant	4	11	2	6	S				
	HDD 33		102	5							
4" Class	HDD 40	Convex	4 ¾ to 5	21 to 22	3	9		S	S		
			121 to 127	9.5 to 10							
	HDD 40	Slant	5	22	2	7		S	S		
			127	10							
5" Class	HDD 50	Convex	5 ¾ to 6 ⅓	36 to 39	2	8			s		
	1100 30		146 to 156	16 to 18		0					
	HDD 50	Slant	6	40	2	9			s		
			152	18					5		
6" Class	HDD 60	Convex	7 to 7 ½	59 to 62	2	8			s		
			178 to 191	27 to 28		0			,		



CONVEX

Provides fast penetration rates in hard and abrasive formations. Face design allows for increased body support for gauge carbide.



SLANT FACE

Slant face bits are specially designed for use in softer and unconsolidated formations where steerability is limited.

