

Drill Bit Series

CONCAVE PDC DRILL BIT



**Reinforced Concave Three-wing
(Steel Body)**



**Reinforced Concave Four-wing
(Steel Body)**

The concave PDC steel body drill bit has various common diameters such as 65mm, 75mm, 94mm, etc. The cutter wings are mostly three-wing, four-wing and other designs, matched with diamond compact cutter teeth, with a hardness of about 7000HV. The steel body is made of high-strength alloy steel, suitable for drill rods of 42 - 73mm.



**Reinforced Concave
Three-wing (Sintered
Body)**



**Reinforced Concave
Four-wing (Sintered
Body)**



**Reinforced Flat Head
(Sintered Body)**



**Reinforced Arc Angle
(Sintered Body)**

The concave PDC sintered body drill bit usually has various optional diameters such as $\Phi 94$, $\Phi 113$, $\Phi 133$, $\Phi 153$, etc. Matched with diamond compact, it has both the high hardness of diamond and the impact resistance of hard alloy, suitable for soft and hard rock stratum with rock stratum coefficient (f) ≤ 16 .

PRODUCT PARAMETERS

Specification	Drilling Pressure (Kg)	Rotational Speed (rpm)	Pump Flow (l/min)	Wear Ratio (*10000)	Impact Resistance (J)	Applicable Stratum		
						Ordinary Type	Reinforced Type	Super Strong Type
$\Phi 55$	320-800	250-350	130-180	>100	>45	F8-F10	F10-F12	Above F12
$\Phi 65$	480-1200	200-300	130-180	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 75$	480-1200	200-300	150-200	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 94$	640-1600	150-250	200-250	>100	>43	F8-F10	F10-F12	Above F12
$\Phi 113$	880-2200	120-200	200-300	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 133$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 153$	1500-3000	100-200	500-850	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 173$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 193$	1800-4000	100-200	600-1200	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 250$	2200-4500	100-200	750-1400	>120	>60	F8-F10	F10-F12	Above F12
$\Phi 300$	2400-5000	100-200	1000-1500	>120	>60	F8-F10	F10-F12	Above F12