

DETAILED DESCRIPTION

PDC BITS - Premium Bits Only

Sr #	Bit Size	Body	No. of Blades - Cutter Sizes	QTY	Back up / Back Row cutting structure on blades	Cutter Type (High Tier) Mention Premium Name [Abrasion & Impact Resistance] (</= 3 years old)	New Bit Family/ Technology (</= 3 years Old)	Deep Leached	No of Cutters	Directional Control and Stability on motor / RSS	Back reaming	Thermal Stability (TSP) gauge protection features	Junk Slot Area (JSA) (in ²)	Gauge Length (in)	Quoted Bit Family Brand Name (Please Specify) Only Premium type acceptable	BIT BREAKER WITH EACH BIT AND 01 NOZZLE KEY WITH EACH LINE ITEM	NOZZLE (SETS) /32"
1	12 ¼"	Matrix	6 blades 16mm	5	Double Row			Yes	80+	Yes	Yes	Yes	40 - 50	3-4		Yes	12, 14 & 15
2	12 ¼"	Matrix	7 blades 16mm	4	Double Row			Yes	100+	Yes	Yes	Yes	40 - 50	3-4		Yes	13, 15 & 16
3	8 ½"	Matrix	7 blades 16mm	6	Double Row			Yes	75+	Yes	Yes	Yes	10 - 15	2.5–3.5		Yes	11, 12 & 13
4	8 ½"	Matrix	6 blades 16mm	11	Double Row			Yes	60+	Yes	Yes	Yes	10 - 15	2.5–3.5		Yes	11, 12 & 14
5	8 ½"	Matrix	6 blades 13mm	5	Double Row			Yes	70+	Yes	Yes	Yes	10 - 15	2.5–3.5		Yes	11, 12 & 13
6	5-7/8"	Matrix	6 blades 13mm	3	Double Row			Yes	40+	Yes	Yes	Yes	5 – 8	1.5-3		Yes	10, 11 & 12
7	5-7/8"	Matrix	7 blades 13mm	4	Double Row			Yes	45+	Yes	Yes	Yes	5 – 8	1.5-3		Yes	9, 10 & 11

*PDC Bits are required with Directional Control and Stability on motor / RSS, Back reaming, Thermal Stability (TSP) gauge protection features

** PDC bit for 12-1/4" sizes should be provided with optimized spiral blades, aggressive cutters back rack angle or equivalent features. The nozzles placement should be optimized for efficient hydraulics, cleaning and cooling of cutters.

*** PDC bits for 8-1/2" sizes must have optimized spiral blades and forward rake back geometry or equivalent feature. The nozzles placement should be optimized for efficient hydraulics, cleaning and cooling of cutters.

**** The installed cutters on PDC bit must be of USA synthetic or equivalent. Cutters diamond table thickness should be minimum 3mm for PDC bits.