

2.10 Top Drive

TFI top drives feature a compact design and easy installation making it suitable for installation on smaller rigs. This system is driven by a Variable Frequency Drive (VFD) control system resulting in a greater range of torque and speed capacity. Other system components include an integrated swivel, bi-directional link tilt system, remote and manual inside BOP, a back-up clamp, a guide beam, and an electric service loop.



Model Name	DQ120BSC	DQ90BSD	DQ90BSC	DQ70BSD	DQ70BSC	DQ70BSE	DQ50BC	DQ40BC	DQ40BCQ	DQ40YR	DQ30Y
Nominal Drilling Depth	39,000 ft	29,000 ft	29,000 ft	23,000 ft	23,000 ft	23,000 ft	16,000 ft	13,000 ft	13,000 ft	13,000 ft	9,000ft
Max. Load	1,000 ton	750 ton	750 ton	500 ton	500 ton	500 ton	350 ton	250 ton	250 ton	250 ton	190 ton
Rated Power	600 HP×2	600 HP×2	500 HP×2	500 HP×2	400 HP×2	400 HP×2	500 HP	500 HP	400 HP	544 HP	490 HP
Rotating Speed Range	0~200 r/min	0~200 r/min	0~200 r/min	0~200 r/min	0~220 r/min	0~220 r/min	0~180 r/min	0~180 r/min	0~180 r/min	0~180 r/min	0~150 r/min
Max. Drilling torque	62,700 lbf.ft	62,700 lbf.ft	51,600 lbf.ft	44,300 lbf.ft	36,900 lbf.ft	36,900 lbf.ft	29,500 lbf.ft	29,500 lbf.ft	22,000 lbf.ft	20,650 lbf.ft	16,200 lbf.ft
Max. Break-out Torque	99,600 lbf.ft	99,600 lbf.ft	81,100 lbf.ft	66,400 lbf.ft	55,300 lbf.ft	55,300 lbf.ft	44,300 lbf.ft	44,300 lbf.ft	33,200 lbf.ft	33,200 lbf.ft	29,500 lbf.ft
Clamp Range	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~6 5/8 "	2 7/8"~5 1/2"	2 7/8"~5 1/2"	2 7/8"~5 1/2"
Mud Circulating Diameter	4 in	3 1/2 in	3 1/2 in	3 in	3 in	3 in	3 in	3 in	3 in	3 in	2 1/2 in
Rated Circulating Pressure	7,540 psi	7,540 psi	7,540 psi	7,540 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi	5,000 psi
Main Body Working Height	23.5 ft	22.4 ft	21.8 ft	21.5 ft	20.5 ft	20.4 ft	19.3 ft	19.3 ft	16.9 ft	16.1 ft	18.3 ft
Main Body Width	6.96 ft	6.96 ft	5.90 ft	5.90 ft	5.50 ft	5.27 ft	5.38 ft	5.38 ft	4.51 ft	3.71 ft	3.30 ft