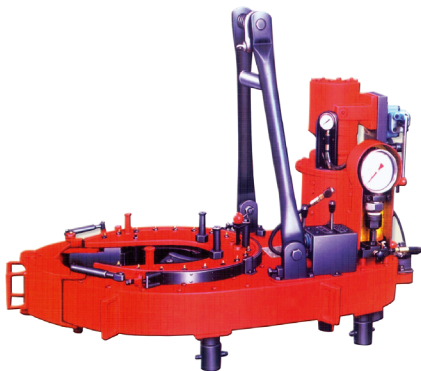


## 5.5 Casing Power Tongs

TQ series casing power tongs are designed and manufactured according to API 7K specification. Computerized torque control is used to ensure accurate casing thread makeup.



Model		TQ178-16	TQ178-16Y	TQ340-35	TQ340-35Y	TQ356-55	TQ508-70Y	
Casing Size Range	mm	101.6 - 178	101.6 - 178	114.3 - 340	114.3 - 340	114.3 - 356	244.5 - 508	
	in	4 - 7	4 - 7	4-1/2 - 13-3/8	4-1/2 - 13-3/8	4-1/2 - 14	9-5/8 - 20	
Rated Hydraulic Pressure	MPa	18	18	18	21	16.6	20	
	psi	2610	2610	2610	3045	2407	2900	
Flow Rate	L/min	110 - 160	110 - 160	110 - 160	110 - 170	110 - 160	110 - 170	
	gpm	29.3 - 42.7	29.3 - 42.7	29.3 - 42.7	29.3 - 45.4	29.3 - 42.7	29.3 - 45.4	
Control Air Pressure	MPa	0.5 - 0.9	-	0.5 - 0.9	-	0.5 - 0.9	-	
	psi	72 - 130		72 - 130		72 - 130		
Max. Torque	Hi. Gear	kN.m	2.4 - 3	2.4 - 3	2.5 - 3	4.0 - 5.6	3.4 - 4.5	8.4 - 10.7
		ft-lbs	1770 - 2210	1770 - 2210	1844 - 2210	2950 - 4130	2505 - 3320	6190 - 7890
	Mid. Gear	kN.m	-	-	6.0 - 7.5	-	-	-
		ft-lbs	-	-	4425 - 5530	-	-	-
Low. Gear	kN.m	14.5 - 17.5	15 - 18	32 - 40	26 - 35.2	45 - 57.4	48.9 - 70.5	
	ft-lbs	10694 - 12900	11060 - 13270	23600 - 29500	19175 - 25960	33185 - 42400	37244 - 52000	
Speed	Hi. Gear	rpm	54 - 79	54 - 79	60 - 86	57 - 95	52 - 76	26 - 43.6
	Mid. Gear	rpm	-	-	21 - 30	-	-	-
	Low. Gear	rpm	9 - 13	9 - 13	3.6 - 5.3	9 - 15	3.9 - 5.6	4 - 6.6
Dimension	mm	1450×760×740	1500×760×780	1580×900×880	1580×900×860	1590×950×900	2080×1280×760	
	in	57×30×29.1	59×30×30.7	62.2×35.4×34.6	62.2×35.4×33.9	62.6×35.4×35.4	82×50.4×30	
Weight	kg	580	560	780	760	850	1550	
	lbs	1280	1230	1720	1670	1870	3410	