

ENGLISH

PRESSURE (PSI)	TORQUE (FT-LBS)	TORQUE (FT-LBS)	PRESSURE (PSI)
100	159	100	63
200	318	200	126
300	476	300	189
400	635	400	252
500	794	500	315
600	953	600	378
700	1112	700	441
800	1270	800	504
900	1429	900	567
1000	1588	1000	630
1100	1747	1100	693
1200	1906	1200	756
1300	2064	1300	819
1400	2223	1400	882
1500	2382	1500	945
1600	2541	1600	1008
1700	2700	1700	1071
1800	2858	1800	1134
1900	3017	1900	1196
2000	3176	2000	1259
2100	3335	2100	1322
2200	3494	2200	1385
2300	3652	2300	1448
2400	3811	2400	1511
2500	3970	2500	1574
2600	4129	2600	1637
2700	4288	2700	1700
2800	4446	2800	1763
2900	4605	2900	1826
3000	4764	3000	1889
		3100	1952
		3200	2015
		3300	2078
		3400	2141
		3500	2204
		3600	2267
		3700	2330
		3800	2393
		3900	2456
		4000	2519
		4100	2582
		4200	2645
		4300	2708
		4400	2771
		4500	2834
		4600	2897
		4700	2960
		4800	3023

METRIC

Pressure (Bar)	Torque (N-m)	Torque (N-m)	Pressure (Bar)
10	312	200	6.4
20	625	400	12.8
30	937	600	19.2
40	1249	800	25.6
50	1561	1000	32.0
60	1874	1200	38.4
70	2186	1400	44.8
80	2498	1600	51.2
90	2810	1800	57.6
100	3123	2000	64.0
110	3435	2200	70.5
120	3747	2400	76.9
130	4060	2600	83.3
140	4372	2800	89.7
150	4684	3000	96.1
160	4996	3200	102.5
170	5309	3400	108.9
180	5621	3600	115.3
190	5933	3800	121.7
200	6245	4000	128.1
210	6558	4200	134.5
		4400	140.9
		4600	147.3
		4800	153.7
		5000	160.1
		5200	166.5
		5400	172.9
		5600	179.3
		5800	185.7
		6000	192.1
		6200	198.5
		6400	204.9
		6600	211.4

1 FT-LB = 1.35582 N-m
 1 BAR = 14.50377 PSI

T = P * 1.588
 P = T/1.588

PRESSURE = (TORQUE*1200)/(25.53*74*0.83)
 (PSI) (FT-LBS)

TORQUE = (PRESSURE * 25.53 * 74 * 0.83)/1200
 (FT-LBS) (PSI)

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Nut Runner Torque Conversions
HCS-30/40/60 Machines

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Values for RR USA motor and gear reducer

Gear Reducer - 28.8:1

Motor - 4.83 cu in/rev

Torque per PSI (in-lbs)	PSI	Conversion Factor
0.6666	450	1.6
0.6417	900	1.5
0.6561	1150	1.6
0.6596	1450	1.6
0.6491	1740	1.6
0.6528	1810	1.6
		9.4
		Ave = 1.6