

Tools for Industrial Installation and Maintenance

Electrical Construction Tools

Hydraulic Torque Wrench Select Bolt And Nut Maximum Torque Recommended Values Chart

Strength grade		4.8		6.8		8.8		10.9		12.9	
Min breaking strength		392Mpa		588Mpa		784Mpa		941Mpa		1176Mpa	
Material		General structural steel		Mechanical structural steel		Cr-Mo alloy steel		Ni-Cr-Mo alloy steel		Ni-Cr-Mo alloy steel	
Bolt	A/F	Torque value		Torque value		Torque value		Torque value		Torque value	
M(mm)	S(mm)	KGM	N.m	KGM	N.m	KGM	N.m	KGM	N.m	KGM	N.m
14	22	7	69	10	98	14	137	17	165	23	225
16	24	10	98	14	137	21	206	25	247	36	363
18	27	14	137	21	206	39	284	35	341	49	480
20	30	18	176	28	296	41	402	58	569	69	680
22	34	23	225	34	333	55	539	78	765	93	911
24	36	32	314	48	470	70	686	100	981	120	1176
27	41	45	441	65	637	105	1029	150	1472	180	1764
30	46	60	588	90	882	125	1225	200	1962	240	2352
33	50	75	735	115	1127	150	1470	210	2060	250	2450
36	55	100	980	150	1470	180	1764	250	2453	300	2940
39	60	120	1176	180	1764	220	2156	300	2943	370	3626
42	65	155	1519	240	2352	280	2744	390	3826	470	4606
45	70	180	1764	280	2744	320	3136	450	4415	550	5390
48	75	230	2254	350	3430	400	3920	570	5592	680	6664
52	80	280	2744	420	4116	480	4704	670	6573	850	8330
56	85	360	3528	530	5149	610	5978	860	8437	1050	10290
60	90	410	4018	610	5978	790	7742	1100	10791	1350	13230
64	95	510	4998	760	7448	900	8820	1224	11998	1530	14994
68	100	580	5684	870	8526	1100	10780	1392	13645	1740	17053
72	105	660	6468	1000	9800	1290	12642	1584	15527	1980	19405
76	110	750	7350	1100	10780	1500	14701	1800	17644	2250	22050
80	115	830	8143	1250	12250	1850	18130	1992	19547	2489	24429
85	120	900	8820	1400	13720	2250	22050	2160	21172	2699	26459
90	130	1080	10584	1650	16170	2500	24500	2593	25407	3241	31752
100	145	1400	13720	2050	20090	2800	27440	3361	32935	4200	41160
110	155	1670	16366	2550	24990	3340	32732	4009	39287	5010	49098
120	175	2030	19894	3050	29890	4060	39788	4873	47756	6090	59682