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## IU-XL Series - Inline Hydraulic Ratchet Wrenches

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Torque Charts

### IU-1XL INLINE UNIBODY RATCHETING TOOL TORQUE CHART 10,000 P.S.I. & 700 BAR +/-3%

Inline Ratcheting Head Sizes Torque Value  
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1)	2)	3)	4)	5)	6)	7)	8)	9)	Full Range
3/4"	13/16"	7/8"	15/16"	1"	1-1/16"	1-1/8"	1-3/16"	1-1/4"	1-5/16"
	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range	Full Range
	1-3/8"	1-7/16"	1-1/2"	1-9/16"	1-5/8"	1-11/16"	1-3/4"	1-13/16"	1-7/8"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	23	32	4	359	5,200	656	889	91
28	400	47	63	7	372	5,400	682	924	95
41	600	70	95	10	386	5,600	707	959	98
55	800	94	127	13	400	5,800	733	994	102
69	1,000	117	159	17	414	6,000	759	1,029	105
83	1,200	142	193	20	427	6,200	786	1,065	109
97	1,400	167	226	24	441	6,400	812	1,101	113
110	1,600	192	260	27	455	6,600	839	1,137	116
124	1,800	217	294	31	469	6,800	865	1,173	120
138	2,000	242	328	34	483	7,000	892	1,209	124
152	2,200	267	361	37	496	7,200	919	1,246	128
165	2,400	291	395	41	510	7,400 4 (thru 6)	946	1,282	131
179	2,600	316	428	44	524	7,600	972	1,318	135
193	2,800	340	462	48	538	7,800	999	1,355	139
207	3,000	365	495	51	552	8,000	1,026	1,391	142
221	3,200	391	530	55	565	8,200	1,054	1,429	146
234	3,400	416	564	58	579	8,400 7 (thru 9)	1,082	1,466	150
248	3,600	442	599	62	593	8,600	1,109	1,504	154
262	3,800	467	634	65	607	8,800	1,137	1,542	158
276	4,000	493	668	69	621	9,000	1,165	1,580	162
490	4,200	520	706	72	634	9,200	1,191	1,615	165
303	4,400	548	743	76	648	9,400	1,217	1,649	169
317	4,600	575	780	80	662	9,600	1,242	1,684	172
331	4,800 1(thru 3)	603	817	84	676	9,800	1,268	1,719	176
345	5,000	630	854	88	700	10,000	1,294	1,754	179

**IU-1XL INLINE UNIBODY RATCHETING TOOL  
1-15/16" & 2" HEAD TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+-3%**

Full Range	Full Range
1 - 15/16"	2"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	27	37	4	359	5,200	687	931	95
28	400	55	74	8	372	5,400	713	967	99
41	600	82	111	12	386	5,600	740	1,003	103
55	800	110	149	16	400	5,800	766	1,039	106
69	1,000	137	186	19	414	6,000	793	1,075	110
83	1,200	163	220	23	427	6,200	821	1,113	114
97	1,400	188	255	27	441	6,400	849	1,151	118
110	1,600	214	290	30	455	6,600	876	1,188	122
124	1,800	239	325	34	469	6,800	904	1,226	126
138	2,000	265	359	37	483	7,000	932	1,264	129
152	2,200	291	394	41	496	7,200	958	1,299	133
165	2,400	316	429	44	510	7400 4)thru6)	984	1,334	136
179	2,600	342	463	48	524	7,600	1,009	1,369	140
193	2,800	367	498	51	538	7,800	1,035	1,404	144
207	3,000	393	533	55	552	8,000	1,061	1,439	147
221	3,200	419	569	58	565	8,200	1,093	1,482	152
234	3,400	446	604	62	579	8400 7)thru9)	1,125	1,526	156
248	3,600	472	640	66	593	8,600	1,158	1,569	161
262	3,800	499	676	69	607	8,800	1,190	1,613	165
276	4,000	525	712	73	621	9,000	1,222	1,657	169
490	4,200	552	748	77	634	9,200	1,244	1,686	172
303	4,400	579	785	81	648	9,400	1,265	1,715	175
317	4,600	606	822	84	662	9,600	1,287	1,745	178
331	4800 1)thru 3)	633	858	88	676	9,800	1,308	1,774	181
345	5,000	660	895	92	700	10,000	1,330	1,803	184

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**IU-3XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+-3%**

**Inline Unibody Ratcheting Head Sizes Torque Values**

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1)	2)	3)	4)	Full Range	5)	Full Range	Full Range	Full Range
1-1/4"	1-5/8"	1-7/16"	1-13-16"	1-7/8"	2"	2-3/16"	2-3/8"	2-9/16"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	59	80	9	359	5,200	1,586	2,150	220
28	400	118	159	17	372	5,400	1,653	2,241	229
41	600	176	239	25	386	5,600	1,720	2,332	238
55	800	235	319	33	400	5,800	1,787	2,423	248

69	1,000	294	399	41	414	6,000	1,854	2,514	257
83	1,200	356	483	50	427	6200 3)	1,915	2,596	265
97	1,400	418	567	58	441	6,400	1,976	2,679	274
110	1,600	480	651	67	455	6,600	2,036	2,761	282
124	1,800	542	735	75	469	6,800	2,097	2,843	290
138	2,000	604	819	84	483	7000 4 -5)	2,158	2,926	299
152	2,200	666	903	93	496	7,200	2,222	3,013	308
165	2,400	728	986	101	510	7,400	2,286	3,099	317
179	2,600	789	1,070	110	524	7,600	2,292	3,108	317
193	2,800	851	1,154	118	538	7,800	2,414	3,273	334
207	3,000	913	1,238	127	552	8,000	2,478	3,360	343
221	3,200	976	1,324	135	565	8,200	2,541	3,445	352
234	3,400	1,039	1,409	144	579	8,400	2,604	3,530	360
248	3600 1)	1,103	1,495	153	593	8,600	2,666	3,615	369
262	3,800	1,166	1,581	162	607	8,800	2,729	3,700	378
276	4,000	1,229	1,666	170	621	9,000	2,792	3,785	387
490	4,200	1,287	1,745	178	634	9,200	2,848	3,862	394
303	4,400	1,345	1,824	186	648	9,400	2,905	3,938	402
317	4,600	1,403	1,902	194	662	9,600	2,961	4,015	410
331	4800 2)	1,461	1,981	202	676	9,800	3,018	4,091	418
345	5,000	1,519	2,059	211	700	10,000	3,074	4,168	425

**IU-3XL INLINE UNIBODY RATCHETING TOOL  
2-3/4" & 2 15/16" HEAD TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+-3%**

Full Range	Full Range
2 - 3/4"	2 - 15/16"

BAR	P.S.I.	FT LBS	NM	KGF*M
14	200	63	86	9
28	400	127	172	18
41	600	190	258	27
55	800	254	344	36
69	1,000	317	430	44
83	1,200	381	517	53
97	1,400	446	604	62
110	1,600	510	692	71
124	1,800	575	779	80
138	2,000	639	866	89
152	2,200	703	954	98
165	2,400	768	1,041	107
179	2,600	832	1,128	116
193	2,800	897	1,216	124
207	3,000	961	1,303	133
221	3,200	1,028	1,394	143
234	3,400	1,096	1,486	152
248	3,600	1,163	1,577	161
262	3,800	1,231	1,668	171
276	4,000	1,298	1,760	180
490	4,200	1,362	1,847	189

BAR	P.S.I.	FT LBS	NM	KGF*M
359	5,200	1,686	2,285	234
372	5,400	1,751	2,374	243
386	5,600	1,817	2,463	252
400	5,800	1,882	2,552	261
414	6,000	1,948	2,641	270
427	6,200	2,014	2,730	279
441	6,400	2,080	2,820	288
455	6,600	2,145	2,909	297
469	6,800	2,211	2,998	306
483	7,000	2,277	3,087	315
496	7,200	2,342	3,175	324
510	7,400	2,406	3,262	333
524	7,600	2,471	3,350	342
538	7,800	2,535	3,438	351
552	8,000	2,600	3,525	360
565	8,200	2,666	3,615	369
579	8,400	2,733	3,705	378
593	8,600	2,799	3,795	388
607	8,800	2,866	3,885	397
621	9,000	2,932	3,975	406
634	9,200	2,998	4,064	415

303	4,400	1,427	1,934	198	648	9,400	3,063	4,153	424
317	4,600	1,491	2,022	207	662	9,600	3,129	4,242	433
331	4,800	1,556	2,109	216	676	9,800	3,194	4,331	442
345	5,000	1,620	2,196	224	700	10,000	3,260	4,420	451

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**IU-7XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+/-3%**

**Inline Unibody Ratcheting Head Sizes Torque Values**

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1)	2)	3)	4)	Full Range	Full Range	Full Range
2"	2-3/16"	2-3/8"	2-9/16"	2-3/4"	2-15/16"	3-1/8"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	133	181	19	359	5,200	3,567	4,836	494
28	400	267	362	37	372	5,400	3,711	5,031	514
41	600	400	543	56	386	5,600	3,854	5,226	533
55	800	534	723	74	400	5,800	3,998	5,421	553
69	1,000	667	904	93	414	6,000 (1&2)	4,142	5,616	573
83	1,200	798	1,082	111	427	6,200	4,278	5,800	592
97	1,400	930	1,261	129	441	6,400	4,414	5,984	611
110	1,600	1,061	1,439	147	455	6,600	4,549	6,168	629
124	1,800	1,193	1,617	165	469	6,800	4,685	6,352	648
138	2,000	1,324	1,795	184	483	7,000	4,821	6,536	667
152	2,200	1,463	1,983	203	496	7,200	4,969	6,737	687
165	2,400	1,601	2,171	222	510	7,400	5,116	6,937	708
179	2,600	1,740	2,359	241	524	7,600	5,264	7,137	728
193	2,800	1,878	2,547	260	538	7,800 (3&4)	5,411	7,337	749
207	3,000	2,017	2,735	279	552	8,000	5,559	7,537	769
221	3,200	2,157	2,925	299	565	8,200	5,693	7,719	788
234	3,400	2,297	3,115	318	579	8,400	5,828	7,901	806
248	3,600	2,438	3,305	338	593	8,600	5,962	8,084	825
262	3,800	2,578	3,495	357	607	8,800	6,097	8,266	843
276	4,000	2,718	3,685	376	621	9,000	6,231	8,448	862
290	4,200	2,859	3,876	396	634	9,200	6,365	8,629	880
303	4,400	3,000	4,067	415	648	9,400	6,498	8,810	899
317	4,600	3,141	4,259	435	662	9,600	6,632	8,992	917
331	4,800	3,282	4,450	454	676	9,800	6,765	9,173	936
345	5,000	3,423	4,641	474	700	10,000	6,899	9,354	954

**IU-7XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+/-3%**

Full Range	Full Range
3-1/2"	3-7/8"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
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14	200	135	183	19	359	5,200	3,803	5,156	526
28	400	270	366	38	372	5,400	3,956	5,364	547
41	600	404	548	56	386	5,600	4,110	5,572	569
55	800	539	731	75	400	5,800	4,263	5,780	590
69	1,000	674	914	94	414	6000 1&2)	4,416	5,987	611
83	1,200	823	1,116	114	427	6,200	4,563	6,187	631
97	1,400	972	1,318	135	441	6,400	4,711	6,387	652
110	1,600	1,122	1,521	156	455	6,600	4,858	6,587	672
124	1,800	1,271	1,723	176	469	6,800	5,006	6,787	693
138	2,000	1,420	1,925	197	483	7,000	5,153	6,987	713
152	2,200	1,566	2,123	217	496	7,200	5,308	7,197	734
165	2,400	1,712	2,321	237	510	7,400	5,463	7,407	756
179	2,600	1,858	2,519	257	524	7,600	5,619	7,618	777
193	2,800	2,004	2,717	278	538	7800 3&4)	5,774	7,828	799
207	3,000	2,150	2,915	298	552	8,000	5,929	8,039	820
221	3,200	2,299	3,117	318	565	8,200	6,077	8,240	841
234	3,400	2,448	3,319	339	579	8,400	6,226	8,441	861
248	3,600	2,597	3,521	360	593	8,600	6,374	8,642	882
262	3,800	2,746	3,723	380	607	8,800	6,523	8,843	902
276	4,000	2,895	3,925	401	621	9,000	6,671	9,045	923
490	4,200	3,046	4,130	422	634	9,200	6,823	9,251	944
303	4,400	3,197	4,335	443	648	9,400	6,975	9,457	965
317	4,600	3,348	4,539	463	662	9,600	7,128	9,664	986
331	4,800	3,499	4,744	484	676	9,800	7,280	9,870	1,007
345	5,000	3,650	4,949	505	700	10,000	7,432	10,076	1,028

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**IU-10XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+/-3%**

**Inline Unibody Ratcheting Head Sizes Torque Values**

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1)	2)	Full Range	Full Range	Full Range	Full Range	Full Range
2-3/8"	2-9/16"	2-3/4"	2-15/16"	3-1/8"	3-1/2"	3-7/8"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	198	268	28	359	5,200	5,148	6,980	712
28	400	396	537	55	372	5,400	5,346	7,248	740
41	600	594	805	83	386	5,600	5,544	7,517	767
55	800	792	1,074	110	400	5,800	5,742	7,785	794
69	1,000	990	1,342	137	414	6,000	5,940	8,054	822
83	1,200	1,188	1,611	165	427	6200 1)	6,138	8,322	849
97	1,400	1,386	1,879	192	441	6,400	6,336	8,590	876
110	1,600	1,584	2,148	219	455	6,600	6,534	8,859	904
124	1,800	1,782	2,416	247	469	6,800	6,732	9,127	931
138	2,000	1,980	2,685	274	483	7000 2)	6,930	9,396	959
152	2,200	2,178	2,953	302	496	7,200	7,128	9,664	986
165	2,400	2,376	3,221	329	510	7,400	7,326	9,933	1,013
179	2,600	2,574	3,490	356	524	7,600	7,524	10,201	1,041

193	2,800	2,772	3,758	384	538	7,800	7,722	10,470	1,068
207	3,000	2,970	4,027	411	552	8,000	7,920	10,738	1,095
221	3,200	3,162	4,287	438	565	8,200	8,118	11,007	1,123
234	3,400	3,354	4,547	464	579	8,400	8,316	11,275	1,150
248	3,600	3,546	4,808	491	593	8,600	8,514	11,543	1,178
262	3,800	3,738	5,068	517	607	8,800	8,712	11,812	1,205
276	4,000	3,930	5,328	544	621	9,000	8,910	12,080	1,232
490	4,200	4,134	5,605	572	634	9,200	9,108	12,349	1,260
303	4,400	4,338	5,882	600	648	9,400	9,306	12,617	1,287
317	4,600	4,542	6,158	628	662	9,600	9,504	12,886	1,314
331	4,800	4,746	6,435	657	676	9,800	9,702	13,154	1,342
345	5,000	4,950	6,711	685	700	10,000	9,900	13,423	1,369

**IU-10XL INLINE UNIBODY RATCHETING TOOL  
4-1/4" HEAD TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+-3%**

Full Range  
4 - 1/4"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	197	267	28	359	5,200	5,363	7,272	742
28	400	394	534	55	372	5,400	5,572	7,554	771
41	600	590	800	82	386	5,600	5,780	7,837	800
55	800	787	1,067	109	400	5,800	5,989	8,119	828
69	1,000	984	1,334	137	414	6,000	6,197	8,402	857
83	1,200	1,195	1,621	166	427	6,200	6,408	8,688	886
97	1,400	1,407	1,907	195	441	6,400	6,618	8,973	916
110	1,600	1,618	2,194	224	455	6,600	6,829	9,259	945
124	1,800	1,830	2,481	253	469	6,800	7,039	9,544	974
138	2,000	2,041	2,767	283	483	7,000	7,250	9,830	1,003
152	2,200	2,253	3,054	312	496	7,200	7,455	10,108	1,031
165	2,400	2,464	3,341	341	510	7,400	7,661	10,387	1,060
179	2,600	2,676	3,628	370	524	7,600	7,866	10,665	1,088
193	2,800	2,887	3,915	400	538	7,800	8,072	10,944	1,116
207	3,000	3,099	4,202	429	552	8,000	8,277	11,222	1,145
221	3,200	3,299	4,473	457	565	8,200	8,494	11,516	1,175
234	3,400	3,499	4,745	484	579	8,400	8,710	11,809	1,205
248	3,600	3,700	5,016	512	593	8,600	8,927	12,103	1,235
262	3,800	3,900	5,287	540	607	8,800	9,143	12,397	1,265
276	4,000	4,100	5,559	567	621	9,000	9,360	12,690	1,295
490	4,200	4,311	5,845	597	634	9,200	9,559	12,960	1,322
303	4,400	4,522	6,131	626	648	9,400	9,758	13,230	1,350
317	4,600	4,733	6,417	655	662	9,600	9,956	13,499	1,377
331	4,800	4,944	6,703	684	676	9,800	10,155	13,769	1,405
345	5,000	5,155	6,989	713	700	10,000	10,354	14,038	1,432

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**IU-17XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
+-3%**

**Inline Unibody Ratcheting Head Sizes**  
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1)	2)	3)	4)	5)	6)	7)	8)
2-3/4"	2-15/16"	3-1/8"	3-1/2"	3-7/8"	4-1/4"	4-5/8"	5"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	303	410	42	359	5,200	8,178	11,088	1,131
28	400	605	821	84	372	5,400	8,498	11,522	1,175
41	600	908	1,231	126	386	5,600	8,818	11,956	1,220
55	800	1,210	1,641	168	400	5,800	9,138	12,389	1,264
69	1,000	1,513	2,051	210	414	6,000	9,458	12,823	1,308
83	1,200	1,825	2,475	253	427	6,200	9,784	13,266	1,353
97	1,400	2,138	2,898	296	441	6,400	10,111	13,708	1,398
110	1,600	2,450	3,322	339	455	6,600	10,437	14,151	1,443
124	1,800	2,763	3,746	382	469	6,800	10,764	14,594	1,489
138	2,000	3,075	4,169	426	483	7,000	11,090	15,036	1,534
152	2,200	3,396	4,604	470	496	7,200	11,405	15,463	1,577
165	2,400	3,717	5,039	514	510	7,400	11,719	15,889	1,621
179	2,600	4,037	5,474	559	524	7,600	12,034	16,316	1,664
193	2,800	4,358	5,909	603	538	7,800	12,348	16,742	1,708
207	3,000	4,679	6,344	647	552	8,000	12,663	17,169	1,751
221	3,200	4,995	6,773	691	565	8,200	12,985	17,605	1,796
234	3,400	5,311	7,201	735	579	8,400	13,307	18,041	1,840
248	3,600	5,628	7,630	779	593	8,600	13,628	18,478	1,885
262	3,800	5,944	8,059	822	607	8,800	13,950	18,914	1,929
276	4,000	6,260	8,487	866	621	9,000	14,272	19,350	1,974
490	4,200	6,580	8,921	910	634	9,200	14,608	19,806	2,020
303	4,400	6,899	9,354	954	648	9,400	14,944	20,261	2,067
317	4,600	7,219	9,787	999	662	9,600	15,279	20,716	2,113
331	4,800	7,538	10,221	1,043	676	9,800	15,615	21,171	2,159
345	5,000	7,858	10,654	1,087	700	10,000	15,951	21,627	2,206

**IU-17XL INLINE UNIBODY RATCHETING TOOL**  
**5-3/8" HEAD TORQUE CHART**  
**10,000 P.S.I. & 700 BAR**  
+-3%

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	303	410	42	359	5,200	8,378	11,359	1,159
28	400	605	821	84	372	5,400	8,711	11,811	1,205
41	600	908	1,231	126	386	5,600	9,045	12,263	1,251
55	800	1,210	1,641	168	400	5,800	9,378	12,715	1,297
69	1,000	1,513	2,051	210	414	6,000	9,712	13,168	1,343
83	1,200	1,829	2,480	253	427	6,200	10,045	13,620	1,389
97	1,400	2,145	2,908	297	441	6,400	10,379	14,072	1,435
110	1,600	2,461	3,337	341	455	6,600	10,712	14,524	1,482
124	1,800	2,777	3,765	384	469	6,800	11,046	14,976	1,528
138	2,000	3,093	4,194	428	483	7,000	11,379	15,428	1,574
152	2,200	3,420	4,637	473	496	7,200	11,713	15,881	1,620
165	2,400	3,747	5,081	519	510	7,400	12,047	16,334	1,666
179	2,600	4,075	5,524	564	524	7,600	12,381	16,786	1,712
193	2,800	4,402	5,968	609	538	7,800	12,715	17,239	1,758

207	3,000	4,729	6,412	654	552	8,000	13,049	17,692	1,805
221	3,200	5,057	6,857	700	565	8,200	13,390	18,154	1,852
234	3,400	5,386	7,302	745	579	8,400	13,731	18,616	1,899
248	3,600	5,714	7,747	791	593	8,600	14,071	19,078	1,946
262	3,800	6,043	8,193	836	607	8,800	14,412	19,540	1,993
276	4,000	6,371	8,638	881	621	9,000	14,753	20,002	2,040
490	4,200	6,706	9,092	928	634	9,200	15,070	20,433	2,084
303	4,400	7,040	9,545	974	648	9,400	15,388	20,863	2,128
317	4,600	7,375	9,999	1,020	662	9,600	15,705	21,293	2,172
331	4,800	7,709	10,453	1,066	676	9,800	16,023	21,724	2,216
345	5,000	8,044	10,906	1,113	700	10,000	16,340	22,154	2,260

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**IU-25XL INLINE UNIBODY RATCHETING TOOL  
TORQUE CHART  
10,000 P.S.I. & 700 BAR  
±\~3%**

**Inline Unibody Ratcheting Head Sizes**

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Full Range	Full Range	Full Range	Full Range	Full Range
3-1/2"	3-7/8"	4-1/4"	4-5/8"	5"

BAR	P.S.I.	FT LBS	NM	KGFM	BAR	P.S.I.	FT LBS	NM	KGFM
14	200	452	613	63	359	5,200	12,181	16,516	1,685
28	400	904	1,226	125	372	5,400	12,657	17,160	1,750
41	600	1,356	1,838	188	386	5,600	13,132	17,805	1,816
55	800	1,808	2,451	250	400	5,800	13,608	18,449	1,882
69	1,000	2,260	3,064	313	414	6,000	14,083	19,094	1,948
83	1,200	2,720	3,688	377	427	6,200	14,562	19,743	2,014
97	1,400	3,180	4,312	440	441	6,400	15,041	20,393	2,080
110	1,600	3,640	4,935	504	455	6,600	15,520	21,042	2,146
124	1,800	4,100	5,559	567	469	6,800	15,999	21,692	2,212
138	2,000	4,560	6,183	631	483	7,000	16,478	22,341	2,279
152	2,200	5,038	6,831	697	496	7,200	16,958	22,991	2,345
165	2,400	5,517	7,480	763	510	7,400	17,437	23,642	2,411
179	2,600	5,995	8,128	829	524	7,600	17,917	24,292	2,478
193	2,800	6,474	8,777	896	538	7,800	18,396	24,942	2,544
207	3,000	6,952	9,426	962	552	8,000	18,876	25,592	2,610
221	3,200	7,425	10,067	1,027	565	8,200	19,349	26,233	2,676
234	3,400	7,898	10,708	1,092	579	8,400	19,822	26,875	2,741
248	3,600	8,370	11,349	1,158	593	8,600	20,294	27,516	2,806
262	3,800	8,843	11,990	1,223	607	8,800	20,767	28,157	2,872
276	4,000	9,316	12,631	1,288	621	9,000	21,240	28,798	2,937
490	4,200	9,794	13,279	1,355	634	9,200	21,716	29,443	3,003
303	4,400	10,272	13,927	1,421	648	9,400	22,192	30,088	3,069
317	4,600	10,750	14,575	1,487	662	9,600	22,668	30,734	3,134
331	4,800	11,228	15,223	1,553	676	9,800	23,144	31,379	3,200
345	5,000	11,706	15,871	1,619	700	10,000	23,620	32,024	3,266



**TORQUE CHART**  
**10,000 P.S.I. & 700 BAR**  
**+ - 3%**

Full Range	Full Range
5 - 3 - 8"	5 - 3/4"

BAR	P.S.I.	FT LBS	NM	KGF*M	BAR	P.S.I.	FT LBS	NM	KGF*M
14	200	444	602	62	359	5,200	12,225	16,575	1,691
28	400	888	1,205	123	372	5,400	12,718	17,244	1,759
41	600	1,333	1,807	185	386	5,600	13,212	17,912	1,827
55	800	1,777	2,409	246	400	5,800	13,705	18,581	1,895
69	1,000	2,221	3,012	308	414	6,000	14,198	19,249	1,963
83	1,200	2,689	3,646	372	427	6,200	14,677	19,899	2,030
97	1,400	3,157	4,280	437	441	6,400	15,156	20,549	2,096
110	1,600	3,624	4,914	502	455	6,600	15,636	21,199	2,162
124	1,800	4,092	5,548	566	469	6,800	16,115	21,849	2,229
138	2,000	4,560	6,182	631	483	7,000	16,595	22,499	2,295
152	2,200	5,033	6,823	696	496	7,200	17,079	23,156	2,362
165	2,400	5,505	7,464	762	510	7,400	17,563	23,812	2,429
179	2,600	5,978	8,105	827	524	7,600	18,047	24,469	2,496
193	2,800	6,451	8,746	892	538	7,800	18,532	25,126	2,563
207	3,000	6,924	9,387	958	552	8,000	19,016	25,782	2,630
221	3,200	7,404	10,039	1,024	565	8,200	19,533	26,483	2,701
234	3,400	7,884	10,690	1,091	579	8,400	20,050	27,184	2,772
248	3,600	8,365	11,341	1,157	593	8,600	20,566	27,884	2,844
262	3,800	8,845	11,992	1,223	607	8,800	21,083	28,585	2,915
276	4,000	9,325	12,643	1,290	621	9,000	21,600	29,286	2,987
490	4,200	9,806	13,296	1,356	634	9,200	22,140	30,018	3,061
303	4,400	10,288	13,949	1,423	648	9,400	22,680	30,750	3,136
317	4,600	10,769	14,601	1,489	662	9,600	23,220	31,482	3,211
331	4,800	11,251	15,254	1,556	676	9,800	23,760	32,214	3,285
345	5,000	11,732	15,907	1,623	700	10,000	24,300	32,946	3,360

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