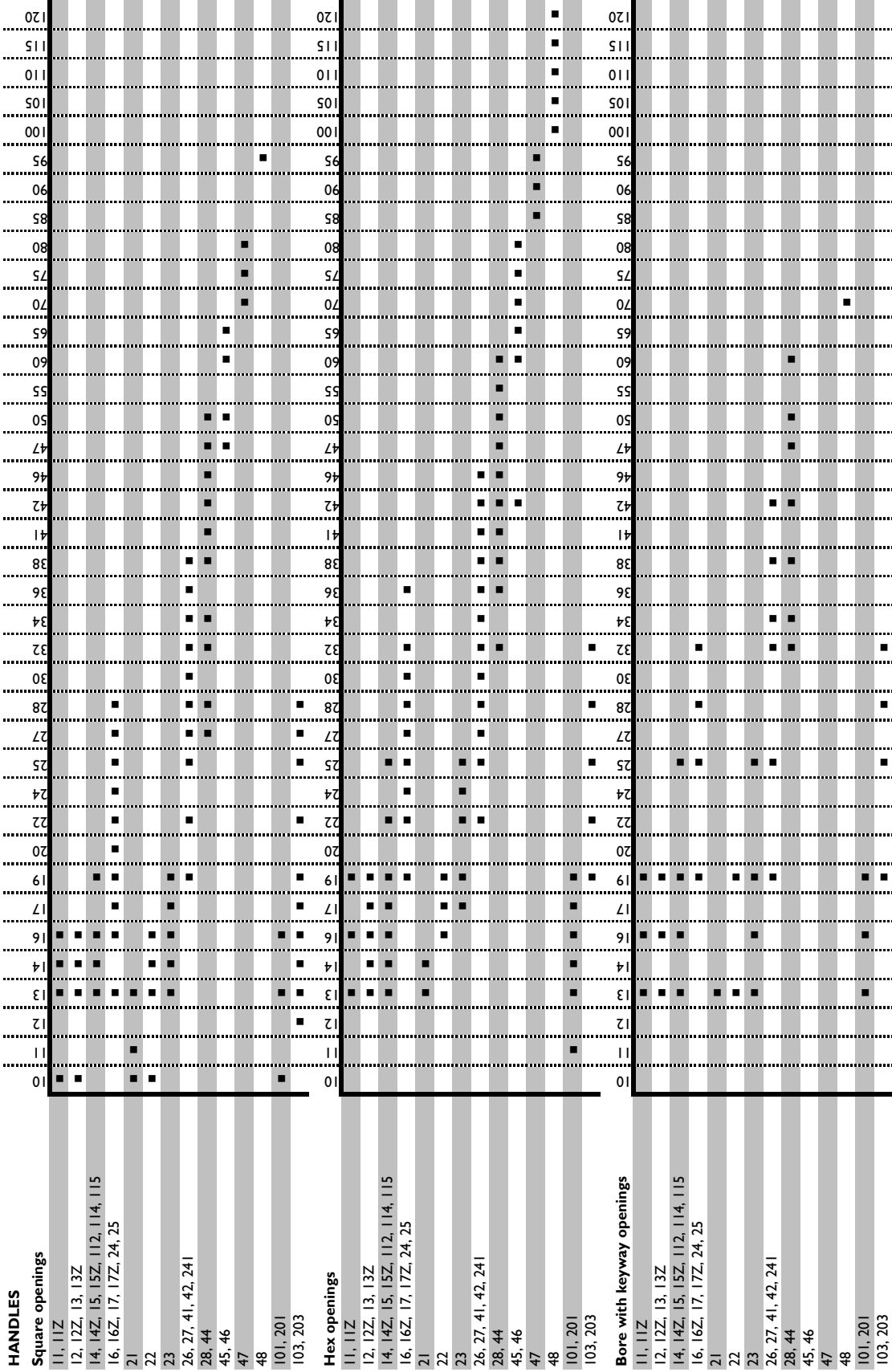


HANDLES	
Square openings	
11, 11Z	
12, 12Z, 13, 13Z	
14, 14Z, 15, 15Z, 112, 114, 115	
16, 16Z, 17, 17Z, 24, 25	
21	
22	
23	
26, 27, 41, 42, 241	
28, 44	
45, 46	
47	
48	
101, 201	
103, 203	
Hex openings	
11, 11Z	
12, 12Z, 13, 13Z	
14, 14Z, 15, 15Z, 112, 114, 115	
16, 16Z, 17, 17Z, 24, 25	
21	
22	
23	
26, 27, 41, 42, 241	
28, 44	
45, 46	
47	
48	
101, 201	
103, 203	
Bore with keyway openings	
11, 11Z	
12, 12Z, 13, 13Z	
14, 14Z, 15, 15Z, 112, 114, 115	
16, 16Z, 17, 17Z, 24, 25	
21	
22	
23	
26, 27, 41, 42, 241	
28, 44	
45, 46	
47	
48	
101, 201	
103, 203	

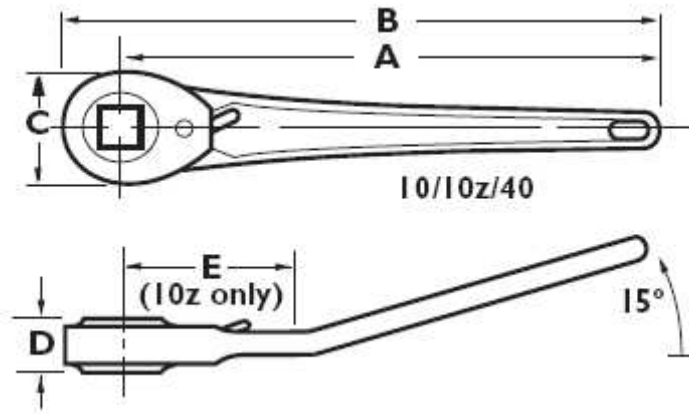
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RATCHET ARMS



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RATCHET ARMS

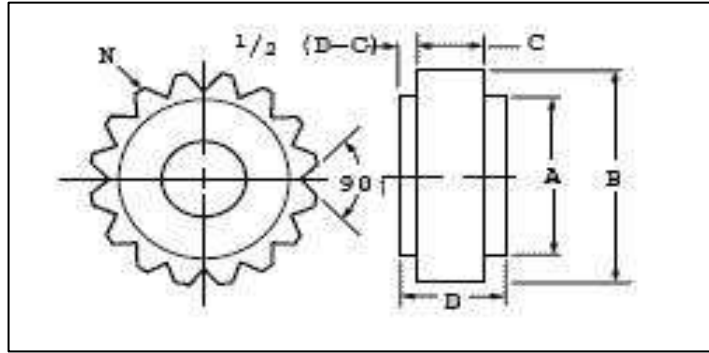


Lengths	6"	7"	8"	10"	12"	15"	18"	24"	36"	38"	42"	43"
Models	11 11Z	21 101 201*	12 12Z 112	13 13Z 14 14Z 22 114	15 15Z 23 103 115 203*	16 16Z 24 241*	17 17Z 25 26	27 41 45	28 42 44	46	47	48

* 201, 203 & 241 are double handled units

LOWELL DESIGN GUIDE

RATCHET ARMS



Gear Dimensions

MODEL	A		B		C		D		N TEETH
	IN	MM	IN	MM	IN	MM	IN	MM	
11, 11Z	1.058	26.9	1.365	34.7	.355	9.0	.733	18.6	16
12, 12Z, 13, 13Z, 71	1.058	26.9	1.365	34.7	.507	12.9	.855	21.7	16
14, 14Z, 15, 15Z, 112, 114, 115	1.420	36.1	1.740	44.2	.417	10.6	.887	22.5	20
16, 16Z, 17, 17Z, 24, 25, 73	1.840	46.7	2.329	59.2	.685	17.4	1.218	30.9	20
101	1.058	26.9	1.365	34.7	.245	6.2	.623	15.8	16
101A	1.420	36.1	1.740	44.2	.245	6.2	.623	15.8	20
103	1.840	46.7	2.329	59.2	.504	12.8	.885	22.5	20
21	.928	23.6	1.115	28.3	.481	12.2	.812	20.6	16
22	1.120	28.4	1.365	34.7	.650	16.5	1.028	26.1	16
23, 72	1.420	36.1	1.740	44.2	.660	16.8	1.133	28.8	16
26, 27, 41, 42, 74	2.489	63.2	2.935	74.5	.801	20.3	1.385	35.2	20
28, 44, 75	3.488	88.6	3.985	101.2	.867	22.0	1.500	38.1	24
45, 46, 76	4.368	110.9	5.092	129.3	.841	21.4	1.469	37.3	24
47, 77	5.627	142.9	6.237	158.4	.941	23.9	1.750	44.5	24
48, 78	6.510	165.4	7.422	188.5	1.109	28.2	1.875	47.6	24

LOWELL DESIGN GUIDE

RATCHET ARMS

10 SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
11	11901	6	152	1	0,45	3/8 SQ		90206	11901/90206
						1/2 SQ		90208	11901/90208
						5/8 SQ		90210	11901/90210
							10 SQ	M0210	11901/M0210
							13 SQ	M0213	11901/M0213
							14 SQ	M0214	11901/M0214
							16 SQ	M0216	11901/M0216
						1/2 HEX		90308	11901/90308
						9/16 HEX		90309	11901/90309
						5/8 HEX		90310	11901/90310
						3/4 HEX		90312	11901/90312
							13 HEX	M0313	11901/M0313
							14 HEX	M0314	11901/M0314
							16 HEX	M0316	11901/M0316
							17 HEX	M0317	11901/M0317
							19 HEX	M0319	11901/M0319
						1/2 BORE		90108	11901/90108
						5/8 BORE		90110	11901/90110
						3/4 BORE		90112	11901/90112
							13 BORE	M0113	11901/M0113
							16 BORE	M0116	11901/M0116
							19 BORE	M0119	11901/M0119
12	12901	8	204	1	0,45	3/8 SQ		91206	12901/91206
						1/2 SQ		91208	12901/91208
						9/16 SQ		91209	12901/91209
						5/8 SQ		91210	12901/91210
							10 SQ	M1210	12901/M1210
							13 SQ	M1213	12901/M1213
							14 SQ	M1214	12901/M1214
							16 SQ	M1216	12901/M1216
						1/2 HEX		91308	12901/91308
						9/16 HEX		91309	12901/91309
						5/8 HEX		91310	12901/91310
						3/4 HEX		91312	12901/91312
							13 HEX	M1313	12901/M1313
							14 HEX	M1314	12901/M1314
							16 HEX	M1316	12901/M1316
							17 HEX	M1317	12901/M1317
							19 HEX	M1319	12901/M1319
						1/2 BORE		91108	12901/91108
						5/8 BORE		91110	12901/91110
						3/4 BORE		91112	12901/91112
							13 BORE	M1113	12901/M1113
							16 BORE	M1116	12901/M1116
	19 BORE	M1119	12901/M2119						
13	13901	10	254	1 1/2	0,68	3/8 SQ		91206	13901/91206

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RATCHET ARMS

10 SERIES Ratchet Arms									
P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
13	13901	10	254	1 ½	0,68	½ SQ		91208	13901/91208
						9/16 SQ		91209	13901/91209
						5/8 SQ		91210	13901/91210
							10 SQ	M1210	13901/M1210
							13 SQ	M1213	13901/M1213
							14 SQ	M1214	13901/M1214
							16 SQ	M1216	13901/M1216
						½ HEX		91308	13901/91308
						9/16 HEX		91309	13901/91309
						5/8 HEX		91310	13901/91310
						¾ HEX		91312	13901/91312
							13 HEX	M1313	13901/M1313
							14 HEX	M1314	13901/M1314
							16 HEX	M1316	13901/M1316
							17 HEX	M1317	13901/M1317
							19 HEX	M1319	13901/M1319
						½ BORE		91108	13901/91108
						5/8 BORE		91110	13901/91110
						¾ BORE		91112	13901/91112
							13 BORE	M1113	13901/M1113
							16 BORE	M1116	13901/M1116
							19 BORE	M1119	13901/M2119
14	14901	10	254	1 ¾	0,79	½ SQ		92608	14901/92608
						9/16 SQ		92609	14901/92609
						5/8 SQ		92610	14901/92610
						¾ SQ		92612	14901/92612
							13 SQ	M2613	14901/M2613
							14 SQ	M2614	14901/M2614
							16 SQ	M2616	14901/M2616
							19 SQ	M2619	14901/M2619
						½ HEX		92708	14901/92708
						9/16 HEX		92709	14901/92709
						5/8 HEX		92710	14901/92710
						¾ HEX		92712	14901/92712
						7/8 HEX		92714	14901/92714
						1 HEX		92716	14901/92716
							13 HEX	M2713	14901/M2713
							14 HEX	M2714	14901/M2714
							16 HEX	M2716	14901/M2716
							17 HEX	M2717	14901/M2717
							19 HEX	M2719	14901/M2719
							22 HEX	M2722	14901/M2722
							25 HEX	M2725	14901/M2725
						½ BORE		92508	14901/92508
						5/8 BORE		92510	14901/92510
						¾ BORE		92512	14901/92512

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RATCHET ARMS

10 SERIES Ratchet Arms									
Model	P/N Handle	Nominal				Gear Openings		P/N Gear	P/N Assembly
	Only	Length		Weight				Only	
		IN	MM	LB	KG	IN	MM		
14	14901	10	254	1 ¾	0,79	7/8 BORE		92514	14901/92514
						1 BORE		92516	14901/92516
							13 BORE	M2513	14901/M2513
							16 BORE	M2516	14901/M2516
							19 BORE	M2519	14901/M2519
							25 BORE	M2525	14901/M2525
15	15901	12	305	2	0,91	½ SQ		92608	15901/92608
						9/16 SQ		92609	15901/92609
						5/8 SQ		92610	15901/92610
						¾ SQ		92612	15901/92612
							13 SQ	M2613	15901/M2613
							14 SQ	M2614	15901/M2614
							16 SQ	M2616	15901/M2616
							19 SQ	M2619	15901/M2619
						½ HEX		92708	15901/92708
						9/16 HEX		92709	15901/92709
						5/8 HEX		92710	15901/92710
						¾ HEX		92712	15901/92712
						7/8 HEX		92714	15901/92714
						1 HEX		92716	15901/92716
							13 HEX	M2713	15901/M2713
							14 HEX	M2714	15901/M2714
							16 HEX	M2716	15901/M2716
							17 HEX	M2717	15901/M2717
							19 HEX	M2719	15901/M2719
							22 HEX	M2722	15901/M2722
							25 HEX	M2725	15901/M2725
						½ BORE		92508	15901/92508
						5/8 BORE		92510	15901/92510
						¾ BORE		92512	15901/92512
						7/8 BORE		92514	15901/92514
						1 BORE		92516	15901/92516
							13 BORE	M2513	15901/M2513
							16 BORE	M2516	15901/M2516
							19 BORE	M2519	15901/M2519
							25 BORE	M2525	15901/M2525
16	16901	15	382	4 ¾	2,16	½ SQ		93208	16901/93208
						5/8 SQ		93210	16901/93210
						11/16 SQ		93211	16901/93211
						¾ SQ		93212	16901/93212
						7/8 SQ		93214	16901/93214
						1 SQ		93216	16901/93216
						1 1/16 SQ		93217	16901/93217
						1 1/8 SQ		93218	16901/93218
							13 SQ	M3213	16901/M3213
							16 SQ	M3216	16901/M3216

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RATCHET ARMS

10 SERIES Ratchet Arms

	P/N Handle	Nominal				P/N Gear								
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly					
		IN	MM	LB	KG	IN	MM							
16	16901	15	382	4 ¾	2,16		17 SQ	M3217	16901/M3217					
							19 SQ	M3219	16901/M3219					
							20 SQ	M3220	16901/M3220					
							22 SQ	M3222	16901/M3222					
							24 SQ	M3224	16901/M3224					
							25 SQ	M3225	16901/M3225					
							27 SQ	M3227	16901/M3227					
							28 SQ	M3228	16901/M3228					
							¾ HEX	93312	16901/93312					
							7/8 HEX	93314	16901/93314					
							1 HEX	93316	16901/93316					
							1 1/8 HEX	93318	16901/93318					
							1 ¼ HEX	93320	16901/93320					
							19 HEX	M3319	16901/M3319					
							22 HEX	M3322	16901/M3322					
							24 HEX	M3324	16901/M3324					
							25 HEX	M3325	16901/M3325					
							27 HEX	M3327	16901/M3327					
							28 HEX	M3328	16901/M3328					
							30 HEX	M3330	16901/M3330					
							32 HEX	M3332	16901/M3332					
							36 HEX	M3336	16901/M3336					
							¾ BORE	93112	16901/93112					
							1 BORE	93116	16901/93116					
							1 1/8 BORE	93118	16901/93118					
							1 ¼ BORE	93120	16901/93120					
							19 BORE	M3119	16901/M3119					
							25 BORE	M3125	16901/M3125					
							28 BORE	M3128	16901/M3128					
							32 BORE	M3132	16901/M3132					
						17	17901	18	458	5 ½	2,50	½ SQ	93208	17901/93208
												5/8 SQ	93210	17901/93210
												11/16 SQ	93211	17901/93211
												¾ SQ	93212	17901/93212
												7/8 SQ	93214	17901/93214
												1 SQ	93216	17901/93216
1 1/16 SQ	93217	17901/93217												
1 1/8 SQ	93218	17901/93218												
13 SQ	M3213	17901/M3213												
16 SQ	M3216	17901/M3216												
17 SQ	M3217	17901/M3217												
19 SQ	M3219	17901/M3219												
20 SQ	M3220	17901/M3220												
22 SQ	M3222	17901/M3222												
24 SQ	M3224	17901/M3224												
25 SQ	M3225	17901/M3225												

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RATCHET ARMS

10 SERIES Ratchet Arms

Model	P/N Handle Only	Nominal				Gear Openings		P/N Gear	
		Length		Weight				Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
17	17901	18	458	5 ½	2,50		27 SQ	M3227	17901/M3227
							28 SQ	M3228	17901/M3228
							¾ HEX	93312	17901/93312
							7/8 HEX	93314	17901/93314
							1 HEX	93316	17901/93316
							1 1/8 HEX	93318	17901/93318
							1 ¼ HEX	93320	17901/93320
							19 HEX	M3319	17901/M3319
							22 HEX	M3322	17901/M3322
							24 HEX	M3324	17901/M3324
							25 HEX	M3325	17901/M3325
							27 HEX	M3327	17901/M3327
							28 HEX	M3328	17901/M3328
							30 HEX	M3330	17901/M3330
							32 HEX	M3332	17901/M3332
							36 HEX	M3336	17901/M3336
							¾ BORE	93112	17901/93112
							1 BORE	93116	17901/93116
							1 1/8 BORE	93118	17901/93118
							1 ¼ BORE	93120	17901/93120
							19 BORE	M3119	17901/M3119
							25 BORE	M3125	17901/M3125
							28 BORE	M3128	17901/M3128
							32 BORE	M3132	17901/M3132

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RATCHET ARMS

10Z SERIES Ratchet Arms										
P/N Handle		Nominal				P/N Gear				
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly	
		IN	MM	LB	KG	IN	MM			
11Z	119Z1	6	152	1	0,45	3/8 SQ		90206	119Z1/90206	
						1/2 SQ		90208	119Z1/90208	
						5/8 SQ		90210	119Z1/90210	
							10 SQ	M0210	119Z1/M0210	
							13 SQ	M0213	119Z1/M0213	
							14 SQ	M0214	119Z1/M0214	
							16 SQ	M0216	119Z1/M0216	
						1/2 HEX		90308	119Z1/90308	
						9/16 HEX		90309	119Z1/90309	
						5/8 HEX		90310	119Z1/90310	
						3/4 HEX		90312	119Z1/90312	
							13 HEX	M0313	119Z1/M0313	
							14 HEX	M0314	119Z1/M0314	
							16 HEX	M0316	119Z1/M0316	
							17 HEX	M0317	119Z1/M0317	
							19 HEX	M0319	119Z1/M0319	
						1/2 BORE		90108	119Z1/90108	
						5/8 BORE		90110	119Z1/90110	
						3/4 BORE		90112	119Z1/90112	
							13 BORE	M0113	119Z1/M0113	
							16 BORE	M0116	119Z1/M0116	
							19 BORE	M0119	119Z1/M0119	
12Z	129Z1	8	204	1	0,45	3/8 SQ		91206	129Z1/91206	
						1/2 SQ		91208	129Z1/91208	
						9/16 SQ		91209	129Z1/91209	
						5/8 SQ		91210	129Z1/91210	
							10 SQ	M1210	129Z1/M1210	
							13 SQ	M1213	129Z1/M1213	
							14 SQ	M1214	129Z1/M1214	
							16 SQ	M1216	129Z1/M1216	
						1/2 HEX		91308	129Z1/91308	
						9/16 HEX		91309	129Z1/91309	
						5/8 HEX		91310	129Z1/91310	
						3/4 HEX		91312	129Z1/91312	
							13 HEX	M1313	129Z1/M1313	
							14 HEX	M1314	129Z1/M1314	
							16 HEX	M1316	129Z1/M1316	
							17 HEX	M1317	129Z1/M1317	
							19 HEX	M1319	129Z1/M1319	
						1/2 BORE		91108	129Z1/91108	
						5/8 BORE		91110	129Z1/91110	
						3/4 BORE		91112	129Z1/91112	
							13 BORE	M1113	129Z1/M1113	
							16 BORE	M1116	129Z1/M1116	
	19 BORE	M1119	129Z1/M1119							
13Z	139Z1	10	254	1 1/2	0,68	3/8 SQ		91206	139Z1/91206	

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RATCHET ARMS

10Z SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
13Z	139Z1	10	254	1 ½	0,68	½ SQ		91208	139Z1/91208
						9/16 SQ		91209	139Z1/91209
						5/8 SQ		91210	139Z1/91210
							10 SQ	M1210	139Z1/M1210
							13 SQ	M1213	139Z1/M1213
							14 SQ	M1214	139Z1/M1214
							16 SQ	M1216	139Z1/M1216
						½ HEX		91308	139Z1/91308
						9/16 HEX		91309	139Z1/91309
						5/8 HEX		91310	139Z1/91310
						¾ HEX		91312	139Z1/91312
							13 HEX	M1313	139Z1/M1313
							14 HEX	M1314	139Z1/M1314
							16 HEX	M1316	139Z1/M1316
							17 HEX	M1317	139Z1/M1317
							19 HEX	M1319	139Z1/M1319
						½ BORE		91108	139Z1/91108
						5/8 BORE		91110	139Z1/91110
						¾ BORE		91112	139Z1/91112
							13 BORE	M1113	139Z1/M1113
							16 BORE	M1116	139Z1/M1116
							19 BORE	M1119	139Z1/M2119
14Z	149Z1	10	254	1 ¾	0,79	½ SQ		92608	149Z1/92608
						9/16 SQ		92609	149Z1/92609
						5/8 SQ		92610	149Z1/92610
						¾ SQ		92612	149Z1/92612
							13 SQ	M2613	149Z1/M2613
							14 SQ	M2614	149Z1/M2614
							16 SQ	M2616	149Z1/M2616
							19 SQ	M2619	149Z1/M2619
						½ HEX		92708	149Z1/92708
						9/16 HEX		92709	149Z1/92709
						5/8 HEX		92710	149Z1/92710
						¾ HEX		92712	149Z1/92712
						7/8 HEX		92714	149Z1/92714
						1 HEX		92716	149Z1/92716
							13 HEX	M2713	149Z1/M2713
							14 HEX	M2714	149Z1/M2714
							16 HEX	M2716	149Z1/M2716
							17 HEX	M2717	149Z1/M2717
							19 HEX	M2719	149Z1/M2719
							22 HEX	M2722	149Z1/M2722
							25 HEX	M2725	149Z1/M2725
							½ BORE		92508
	5/8 BORE		92510	149Z1/92510					
	¾ BORE		92512	149Z1/92512					

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LOWELL DESIGN GUIDE

RATCHET ARMS

10Z SERIES Ratchet Arms

Model	P/N Handle		Nominal				P/N Gear	
	Only		Length		Weight		Only	P/N Assembly
			IN	MM	LB	KG		
14Z	149Z1	10	254	1 3/4	0,79	7/8 BORE	92514	149Z1/92514
						1 BORE	92516	149Z1/92516
						13 BORE	M2513	149Z1/M2513
						16 BORE	M2516	149Z1/M2516
						19 BORE	M2519	149Z1/M2519
						25 BORE	M2525	149Z1/M2525
15Z	159Z1	12	305	2	0,91	1/2 SQ	92608	159Z1/92608
						9/16 SQ	92609	159Z1/92609
						5/8 SQ	92610	159Z1/92610
						3/4 SQ	92612	159Z1/92612
						13 SQ	M2613	159Z1/M2613
						14 SQ	M2614	159Z1/M2614
						16 SQ	M2616	159Z1/M2616
						19 SQ	M2619	159Z1/M2619
						1/2 HEX	92708	159Z1/92708
						9/16 HEX	92709	159Z1/92709
						5/8 HEX	92710	159Z1/92710
						3/4 HEX	92712	159Z1/92712
						7/8 HEX	92714	159Z1/92714
						1 HEX	92716	159Z1/92716
						13 HEX	M2713	159Z1/M2713
						14 HEX	M2714	159Z1/M2714
						16 HEX	M2716	159Z1/M2716
						17 HEX	M2717	159Z1/M2717
						19 HEX	M2719	159Z1/M2719
						22 HEX	M2722	159Z1/M2722
						25 HEX	M2725	159Z1/M2725
						1/2 BORE	92508	159Z1/92508
						5/8 BORE	92510	159Z1/92510
						3/4 BORE	92512	159Z1/92512
						7/8 BORE	92514	159Z1/92514
						1 BORE	92516	159Z1/92516
						13 BORE	M2513	159Z1/M2513
						16 BORE	M2516	159Z1/M2516
						19 BORE	M2519	159Z1/M2519
						25 BORE	M2525	159Z1/M2525
16Z	169Z1	15	382	4 3/4	2,16	1/2 SQ	93208	169Z1/93208
						5/8 SQ	93210	169Z1/93210
						11/16 SQ	93211	169Z1/93211
						3/4 SQ	93212	169Z1/93212
						7/8 SQ	93214	169Z1/93214
						1 SQ	93216	169Z1/93216
						1 1/16 SQ	93217	169Z1/93217
						1 1/8 SQ	93218	169Z1/93218
						13 SQ	M3213	169Z1/M3213
						16 SQ	M3216	169Z1/M3216

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RATCHET ARMS

10Z SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear									
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly						
		IN	MM	LB	KG	IN	MM								
16Z	169ZI	15	382	4 ¾	2,16		17 SQ	M3217	169ZI/M3217						
							19 SQ	M3219	169ZI/M3219						
							20 SQ	M3220	169ZI/M3220						
							22 SQ	M3222	169ZI/M3222						
							24 SQ	M3224	169ZI/M3224						
							25 SQ	M3225	169ZI/M3225						
							27 SQ	M3227	169ZI/M3227						
							28 SQ	M3228	169ZI/M3228						
						¾ HEX		93312	169ZI/93312						
						7/8 HEX		93314	169ZI/93314						
						1 HEX		93316	169ZI/93316						
						1 1/8 HEX		93318	169ZI/93318						
						1 ¼ HEX		93320	169ZI/93320						
							19 HEX	M3319	169ZI/M3319						
							22 HEX	M3322	169ZI/M3322						
							24 HEX	M3324	169ZI/M3324						
							25 HEX	M3325	169ZI/M3325						
							27 HEX	M3327	169ZI/M3327						
							28 HEX	M3328	169ZI/M3328						
							30 HEX	M3330	169ZI/M3330						
							32 HEX	M3332	169ZI/M3332						
							36 HEX	M3336	169ZI/M3336						
						¾ BORE		93112	169ZI/93112						
						1 BORE		93116	169ZI/93116						
						1 1/8 BORE		93118	169ZI/93118						
						1 ¼ BORE		93120	169ZI/93120						
							19 BORE	M3119	169ZI/M3119						
							25 BORE	M3125	169ZI/M3125						
							28 BORE	M3128	169ZI/M3128						
							32 BORE	M3132	169ZI/M3132						
						17Z	179ZI	18	458	5 ½	2,50		½ SQ	93208	179ZI/93208
													5/8 SQ	93210	179ZI/93210
	11/16 SQ	93211	179ZI/93211												
	¾ SQ	93212	179ZI/93212												
	7/8 SQ	93214	179ZI/93214												
	1 SQ	93216	179ZI/93216												
	1 1/16 SQ	93217	179ZI/93217												
	1 1/8 SQ	93218	179ZI/93218												
	13 SQ	M3213	179ZI/M3213												
	16 SQ	M3216	179ZI/M3216												
	17 SQ	M3217	179ZI/M3217												
	19 SQ	M3219	179ZI/M3219												
	20 SQ	M3220	179ZI/M3220												
	22 SQ	M3222	179ZI/M3222												
	24 SQ	M3224	179ZI/M3224												
	25 SQ	M3225	179ZI/M3225												

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RATCHET ARMS

10Z SERIES Ratchet Arms									
Model	P/N Handle Only	Nominal				Gear Openings		P/N Gear	
		Length		Weight				Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
17Z	179Z1	18	458	5 ½	2,50		27 SQ	M3227	179Z1/M3227
							28 SQ	M3228	179Z1/M3228
							¾ HEX	93312	179Z1/93312
							7/8 HEX	93314	179Z1/93314
							1 HEX	93316	179Z1/93316
							1 1/8 HEX	93318	179Z1/93318
							1 ¼ HEX	93320	179Z1/93320
							19 HEX	M3319	179Z1/M3319
							22 HEX	M3322	179Z1/M3322
							24 HEX	M3324	179Z1/M3324
							25 HEX	M3325	179Z1/M3325
							27 HEX	M3327	179Z1/M3327
							28 HEX	M3328	179Z1/M3328
							30 HEX	M3330	179Z1/M3330
							32 HEX	M3332	179Z1/M3332
							36 HEX	M3336	179Z1/M3336
							¾ BORE	93112	179Z1/93112
							1 BORE	93116	179Z1/93116
							1 1/8 BORE	93118	179Z1/93118
							1 ¼ BORE	93120	179Z1/93120
							19 BORE	M3119	179Z1/M3119
							25 BORE	M3125	179Z1/M3125
							28 BORE	M3128	179Z1/M3128
							32 BORE	M3132	179Z1/M3132

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RATCHET ARMS

20 SERIES Ratchet Arms

Model	P/N Handle Only	Nominal Length				Weight		Gear Openings		P/N Gear Only	P/N Assembly
		IN	MM	LB	KG	IN	MM				
21	21901	7 ³ / ₈	188	1	0,45	⁵ / ₁₆ SQ				90605	21901/90605
						³ / ₈ SQ				90606	21901/90606
						⁷ / ₁₆ SQ				90607	21901/90607
						¹ / ₂ SQ				90608	21901/90608
							10 SQ			M0610	21901/M0610
							11 SQ			M0611	21901/M0611
							13 SQ			M0613	21901/M0613
						¹ / ₂ HEX				90708	21901/90608
						⁹ / ₁₆ HEX				90709	21901/90609
						¹⁹ / ₃₂ HEX				90791	21901/90791
							13 HEX			M0713	21901/M0713
							14 HEX			M0714	21901/M0714
						¹ / ₂ BORE				90508	21901/90508
							13 BORE			M0513	21901/M0513
22	22901	10 ¹ / ₂	266	2	0,91	³ / ₈ SQ				91606	22901/91606
						¹ / ₂ SQ				91608	22901/91608
						⁹ / ₁₆ SQ				91609	22901/91609
						⁵ / ₈ SQ				91610	22901/91610
							10 SQ			M1610	22901/M1610
							13 SQ			M1613	22901/M1613
							14 SQ			M1614	22901/M1614
							16 SQ			M1616	22901/M1616
						⁵ / ₈ HEX				91710	22901/91710
						³ / ₄ HEX				91712	22901/91712
							16 HEX			M1716	22901/M1716
							17 HEX			M1717	22901/M1717
							19 HEX			M1719	22901/M1719
						¹ / ₂ BORE				91508	22901/91508
						³ / ₄ BORE				91512	22901/91512
							13 BORE			M1513	22901/M1513
							19 BORE			M1519	22901/M1519
23	23901	12 ³ / ₈	314	3 ¹ / ₂	1,59	¹ / ₂ SQ				92208	23901/92208
						⁹ / ₁₆ SQ				92209	23901/92209
						⁵ / ₈ SQ				92210	23901/92210
						¹¹ / ₁₆ SQ				92211	23901/92211
						³ / ₄ SQ				92212	23901/92212
							13 SQ			M2213	23901/M2213
							14 SQ			M2214	23901/M2214
							16 SQ			M2216	23901/M2216
							17 SQ			M2217	23901/M2217
							19 SQ			M2219	23901/M2219
						¹¹ / ₁₆ HEX				92311	23901/92311
						³ / ₄ HEX				92312	23901/92312
						⁷ / ₈ HEX				92314	23901/92314
						1 HEX				92316	23901/92316
							17 HEX			M2317	23901/M2317

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20 SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear					
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly		
		IN	MM	LB	KG	IN	MM				
23	23901	12 ³ / ₈	314	3 ½	1,59		19 HEX	M2319	23901/M2319		
							22 HEX	M2322	23901/M2322		
							24 HEX	M2324	23901/M2324		
							25 HEX	M2325	23901/M2325		
						½ BORE		92108	23901/92108		
						5/8 BORE		92110	23901/92110		
						¾ BORE		92112	23901/92112		
						1 BORE		92116	23901/92116		
							13 BORE	M2113	23901/M2113		
							16 BORE	M2116	23901/M2116		
							19 BORE	M2119	23901/M2119		
							25 BORE	M2125	23901/M2125		
24	24901	15 ⁹ / ₁₆	395	6 ¼	2,84		½ SQ	93208	24901/93208		
							5/8 SQ	93210	24901/93210		
							11/16 SQ	93211	24901/93211		
							¾ SQ	93212	24901/93212		
							7/8 SQ	93214	24901/93214		
							1 SQ	93216	24901/93216		
							1 1/16 SQ	93217	24901/93217		
							1 1/8 SQ	93218	24901/93218		
								13 SQ	M3213	24901/M3213	
								16 SQ	M3216	24901/M3216	
								17 SQ	M3217	24901/M3217	
								19 SQ	M3219	24901/M3219	
								20 SQ	M3220	24901/M3220	
								22 SQ	M3222	24901/M3222	
								24 SQ	M3224	24901/M3224	
								25 SQ	M3225	24901/M3225	
								27 SQ	M3227	24901/M3227	
								28 SQ	M3228	24901/M3228	
								¾ HEX	93312	24901/93312	
								7/8 HEX	93314	24901/93314	
								1 HEX	93316	24901/93316	
								1 1/8 HEX	93318	24901/93318	
								1 ¼ HEX	93320	24901/93320	
									19 HEX	M3319	24901/M3319
									22 HEX	M3322	24901/M3322
									24 HEX	M3324	24901/M3324
									25 HEX	M3325	24901/M3325
									27 HEX	M3327	24901/M3327
									28 HEX	M3328	24901/M3328
									30 HEX	M3330	24901/M3330
									32 HEX	M3332	24901/M3332
									36 HEX	M3336	24901/M3336
									¾ BORE	93112	24901/93112
									1 BORE	93116	24901/93116

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RATCHET ARMS

20 SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear					
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly		
		IN	MM	LB	KG	IN	MM				
24	24901	15 9/16	395	6 1/4	2,84	1 1/8 BORE		93118	24901/93118		
						1 1/4 BORE		93120	24901/93120		
							19 BORE	M3119	24901/M3119		
							25 BORE	M3125	24901/M3125		
							28 BORE	M3128	24901/M3128		
						32 BORE	M3132	24901/M3132			
25	25901	18 1/2	470	6 3/4	3,06	1/2 SQ		93208	25901/93208		
						5/8 SQ		93210	25901/93210		
						11/16 SQ		93211	25901/93211		
						3/4 SQ		93212	25901/93212		
						7/8 SQ		93214	25901/93214		
						1 SQ		93216	25901/93216		
						1 1/16 SQ		93217	25901/93217		
						1 1/8 SQ		93218	25901/93218		
							13 SQ	M3213	25901/M3213		
							16 SQ	M3216	25901/M3216		
							17 SQ	M3217	25901/M3217		
							19 SQ	M3219	25901/M3219		
							20 SQ	M3220	25901/M3220		
							22 SQ	M3222	25901/M3222		
							24 SQ	M3224	25901/M3224		
							25 SQ	M3225	25901/M3225		
							27 SQ	M3227	25901/M3227		
							28 SQ	M3228	25901/M3228		
							3/4 HEX	93312	25901/93312		
							7/8 HEX	93314	25901/93314		
							1 HEX	93316	25901/93316		
							1 1/8 HEX	93318	25901/93318		
							1 1/4 HEX	93320	25901/93320		
								19 HEX	M3319	25901/M3319	
								22 HEX	M3322	25901/M3322	
								24 HEX	M3324	25901/M3324	
								25 HEX	M3325	25901/M3325	
								27 HEX	M3327	25901/M3327	
								28 HEX	M3328	25901/M3328	
								30 HEX	M3330	25901/M3330	
								32 HEX	M3332	25901/M3332	
								36 HEX	M3336	25901/M3336	
								3/4 BORE	93112	25901/93112	
								1 BORE	93116	25901/93116	
								1 1/8 BORE	93118	25901/93118	
								1 1/4 BORE	93120	25901/93120	
									19 BORE	M3119	25901/M3119
									25 BORE	M3125	25901/M3125
									28 BORE	M3128	25901/M3128
									32 BORE	M3132	25901/M3132

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RATCHET ARMS

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P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
26	26901	18 5/8	473	11 7/8	5,39	3/4 SQ		94212	26901/94212
						7/8 SQ		94214	26901/94214
						1 SQ		94216	26901/94216
						1 1/16 SQ		94217	26901/94217
						1 1/8 SQ		94218	26901/94218
						1 3/16 SQ		94219	26901/94219
						1 1/4 SQ		94220	26901/94220
						1 3/8 SQ		94222	26901/94222
						1 7/16 SQ		94223	26901/94223
						1 1/2 SQ		94224	26901/94224
							19 SQ	M4219	26901/M4219
							22 SQ	M4222	26901/M4222
							25 SQ	M4225	26901/M4225
							27 SQ	M4227	26901/M4227
							28 SQ	M4228	26901/M4228
							30 SQ	M4230	26901/M4230
							32 SQ	M4232	26901/M4232
							34 SQ	M4234	26901/M4234
							36 SQ	M4236	26901/M4236
							38 SQ	M4238	26901/M4238
						7/8 HEX		94314	26901/94314
						1 HEX		94316	26901/94316
						1 1/16 HEX		94317	26901/94317
						1 1/8 HEX		94318	26901/94318
						1 1/4 HEX		94320	26901/94320
						1 3/8 HEX		94322	26901/94322
						1 7/16 HEX		94323	26901/94323
						1 1/2 HEX		94324	26901/94324
						1 5/8 HEX		94326	26901/94326
						1 3/4 HEX		94328	26901/94328
						1 13/16 HEX		94329	26901/94329
							22 HEX	M4322	26901/M4322
							25 HEX	M4325	26901/M4325
							27 HEX	M4327	26901/M4327
							28 HEX	M4328	26901/M4328
							30 HEX	M4330	26901/M4330
							32 HEX	M4332	26901/M4332
							34 HEX	M4334	26901/M4334
							36 HEX	M4336	26901/M4336
							38 HEX	M4338	26901/M4338
							41 HEX	M4341	26901/M4341
							42 HEX	M4342	26901/M4342
							46 HEX	M4346	26901/M4346
						3/4 BORE		94112	26901/94112
						1 BORE		94116	26901/94116
						1 1/4 BORE		94120	26901/94120

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P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
26	26901	18 ⁵ / ₈	473	11 ⁷ / ₈	5,39	1 ³ / ₈ BORE		94122	26901/94122
						1 ¹ / ₂ BORE		94124	26901/94124
						1 ³ / ₄ BORE		94128	26901/94128
							19 BORE	M4119	26901/M4119
							25 BORE	M4125	26901/M4125
							32 BORE	M4132	26901/M4132
							34 BORE	M4143	26901/M4143
							38 BORE	M4138	26901/M4138
							42 BORE	M4142	26901/M4142
27	27901	24 ⁵ / ₈	625	12	5,4	³ / ₄ SQ		94212	27901/94212
						⁷ / ₈ SQ		94214	27901/94214
						1 SQ		94216	27901/94216
						1 ¹ / ₁₆ SQ		94217	27901/94217
						1 ¹ / ₈ SQ		94218	27901/94218
						1 ³ / ₁₆ SQ		94219	27901/94219
						1 ¹ / ₄ SQ		94220	27901/94220
						1 ³ / ₈ SQ		94222	27901/94222
						1 ⁷ / ₁₆ SQ		94223	27901/94223
						1 ¹ / ₂ SQ		94224	27901/94224
							19 SQ	M4219	27901/M4219
							22 SQ	M4222	27901/M4222
							25 SQ	M4225	27901/M4225
							27 SQ	M4227	27901/M4227
							28 SQ	M4228	27901/M4228
							30 SQ	M4230	27901/M4230
							32 SQ	M4232	27901/M4232
							34 SQ	M4234	27901/M4234
							36 SQ	M4236	27901/M4236
							38 SQ	M4238	27901/M4238
						⁷ / ₈ HEX		94314	27901/94314
						1 HEX		94316	27901/94316
						1 ¹ / ₁₆ HEX		94317	27901/94317
						1 ¹ / ₈ HEX		94318	27901/94318
						1 ¹ / ₄ HEX		94320	27901/94320
						1 ³ / ₈ HEX		94322	27901/94322
						1 ⁷ / ₁₆ HEX		94323	27901/94323
						1 ¹ / ₂ HEX		94324	27901/94324
						1 ⁵ / ₈ HEX		94326	27901/94326
						1 ³ / ₄ HEX		94328	27901/94328
						1 ¹³ / ₁₆ HEX		94329	27901/94329
							22 HEX	M4322	27901/M4322
							25 HEX	M4325	27901/M4325
							27 HEX	M4327	27901/M4327
							28 HEX	M4328	27901/M4328
							30 HEX	M4330	27901/M4330
							32 HEX	M4332	27901/M4332

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RATCHET ARMS

20 SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear									
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly						
		IN	MM	LB	KG	IN	MM								
27	27901	24 ⁵ / ₈	625	12	5,4		34 HEX	M4334	27901/M4334						
							36 HEX	M4336	27901/M4336						
							38 HEX	M4338	27901/M4338						
							41 HEX	M4341	27901/M4341						
							42 HEX	M4342	27901/M4342						
							46 HEX	M4346	27901/M4346						
							³ / ₄ BORE	94112	27901/94112						
							1 BORE	94116	27901/94116						
							1 ¹ / ₄ BORE	94120	27901/94120						
							1 ³ / ₈ BORE	94122	27901/94122						
							1 ¹ / ₂ BORE	94124	27901/94124						
							1 ³ / ₄ BORE	94128	27901/94128						
							19 BORE	M4119	27901/M4119						
							25 BORE	M4125	27901/M4125						
							32 BORE	M4132	27901/M4132						
							34 BORE	M4143	27901/M4143						
							38 BORE	M4138	27901/M4138						
							42 BORE	M4142	27901/M4142						
						28	28901	36 ¹³ / ₁₆	935	18	8,17	1 ¹ / ₁₆ SQ		95217	28901/95217
												1 ¹ / ₈ SQ		95218	28901/95218
												1 ¹ / ₄ SQ		95220	28901/95220
												1 ³ / ₈ SQ		95222	28901/95222
												1 ¹ / ₂ SQ		95224	28901/95224
												1 ⁵ / ₈ SQ		95226	28901/95226
												1 ³ / ₄ SQ		95228	28901/95228
												1 ¹³ / ₁₆ SQ		95229	28901/95229
1 ⁷ / ₈ SQ		95230	28901/95230												
2 SQ		95232	28901/95232												
	27 SQ	M5227	28901/M5227												
	28 SQ	M5228	28901/M5228												
	32 SQ	M5232	28901/M5232												
	34 SQ	M5234	28901/M5234												
	38 SQ	M5238	28901/M5238												
	41 SQ	M5241	28901/M5241												
	42 SQ	M5242	28901/M5242												
	46 SQ	M5246	28901/M5246												
	47 SQ	M5247	28901/M5247												
	50 SQ	M5250	28901/M5250												
	1 ¹ / ₄ HEX	95320	28901/95320												
	1 ⁷ / ₁₆ HEX	95323	28901/95323												
	1 ¹ / ₂ HEX	95324	28901/95324												
	1 ⁵ / ₈ HEX	95326	28901/95326												
	1 ¹¹ / ₁₆ HEX	95327	28901/95327												
	1 ¹³ / ₁₆ HEX	95329	28901/95329												
	1 ⁷ / ₈ HEX	95330	28901/95330												
	2 HEX	95332	28901/95332												

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Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
28	28901	36 ¹³ / ₁₆	935	18	8,17	2 ¹ / ₈ HEX		95334	28901/95334
						2 ³ / ₁₆ HEX		95335	28901/95335
						2 ¹ / ₄ HEX		95336	28901/95336
						2 ³ / ₈ HEX		95338	28901/95338
							32 HEX	M5332	28901/M5332
							36 HEX	M5336	28901/M5336
							38 HEX	M5338	28901/M5338
							41 HEX	M5341	28901/M5341
							42 HEX	M5342	28901/M5342
							46 HEX	M5346	28901/M5346
							47 HEX	M5347	28901/M5347
							50 HEX	M5350	28901/M5350
							55 HEX	M5355	28901/M5355
							60 HEX	M5360	28901/M5360
							1 ¹ / ₄ BORE	95120	28901/95120
							1 ³ / ₈ BORE	95122	28901/95122
							1 ¹ / ₂ BORE	95124	28901/95124
							1 ³ / ₄ BORE	95128	28901/95128
							1 ⁷ / ₈ BORE	95130	28901/95130
							2 BORE	95132	28901/95132
							2 ¹ / ₄ BORE	95136	28901/95136
							32 BORE	M5132	28901/M5132
							34 BORE	M5143	28901/M5143
							38 BORE	M5138	28901/M5138
							42 BORE	M5142	28901/M5142
							47 BORE	M5147	28901/M5147
							50 BORE	M5150	28901/M5150
							60 BORE	M5160	28901/M5160

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Model	P/N Handle Only	Nominal Length		Weight		Gear Openings		P/N Gear Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
41	41901	24	610	12	5,44	3/4 SQ		94212	41901/94212
						7/8 SQ		94214	41901/94214
						1 SQ		94216	41901/94216
						1 1/16 SQ		94217	41901/94217
						1 1/8 SQ		94218	41901/94218
						1 3/16 SQ		94219	41901/94219
						1 1/4 SQ		94220	41901/94220
						1 3/8 SQ		94222	41901/94222
						1 7/16 SQ		94223	41901/94223
						1 1/2 SQ		94224	41901/94224
							19 SQ	M4219	41901/M4219
							22 SQ	M4222	41901/M4222
							25 SQ	M4225	41901/M4225
							27 SQ	M4227	41901/M4227
							28 SQ	M4228	41901/M4228
							30 SQ	M4230	41901/M4230
							32 SQ	M4232	41901/M4232
							34 SQ	M4234	41901/M4234
							36 SQ	M4236	41901/M4236
							38 SQ	M4238	41901/M4238
						7/8 HEX		94314	41901/94314
						1 HEX		94316	41901/94316
						1 1/16 HEX		94317	41901/94317
						1 1/8 HEX		94318	41901/94318
						1 1/4 HEX		94320	41901/94320
						1 3/8 HEX		94322	41901/94322
						1 7/16 HEX		94323	41901/94323
						1 1/2 HEX		94324	41901/94324
						1 5/8 HEX		94326	41901/94326
						1 3/4 HEX		94328	41901/94328
						1 13/16 HEX		94329	41901/94329
							22 HEX	M4322	41901/M4322
							25 HEX	M4325	41901/M4325
							27 HEX	M4327	41901/M4327
							28 HEX	M4328	41901/M4328
							30 HEX	M4330	41901/M4330
							32 HEX	M4332	41901/M4332
							34 HEX	M4334	41901/M4334
							36 HEX	M4336	41901/M4336
							38 HEX	M4338	41901/M4338
							41 HEX	M4341	41901/M4341
							42 HEX	M4342	41901/M4342
							46 HEX	M4346	41901/M4346
						3/4 BORE		94112	41901/94112
						1 BORE		94116	41901/94116
41	41901	24	610	12	5,44	1 1/4 BORE		94120	41901/94120

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Model	P/N Handle Only	Nominal Length		Weight		Gear Openings		P/N Gear Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
						1 ³ / ₈ BORE		94122	41901/94122
						1 ¹ / ₂ BORE		94124	41901/94124
						1 ³ / ₄ BORE		94128	41901/94128
							19 BORE	M4119	41901/M4119
							25 BORE	M4125	41901/M4125
							32 BORE	M4132	41901/M4132
							34 BORE	M4143	41901/M4143
							38 BORE	M4138	41901/M4138
							42 BORE	M4142	41901/M4142
42	42901	36 ³ / ₄	920	14	6,35	³ / ₄ SQ		94212	42901/94212
						⁷ / ₈ SQ		94214	42901/94214
						1 SQ		94216	42901/94216
						1 ¹ / ₁₆ SQ		94217	42901/94217
						1 ¹ / ₈ SQ		94218	42901/94218
						1 ³ / ₁₆ SQ		94219	42901/94219
						1 ¹ / ₄ SQ		94220	42901/94220
						1 ³ / ₈ SQ		94222	42901/94222
						1 ⁷ / ₁₆ SQ		94223	42901/94223
						1 ¹ / ₂ SQ		94224	42901/94224
							19 SQ	M4219	42901/M4219
							22 SQ	M4222	42901/M4222
							25 SQ	M4225	42901/M4225
							27 SQ	M4227	42901/M4227
							28 SQ	M4228	42901/M4228
							30 SQ	M4230	42901/M4230
							32 SQ	M4232	42901/M4232
							34 SQ	M4234	42901/M4234
							36 SQ	M4236	42901/M4236
							38 SQ	M4238	42901/M4238
						⁷ / ₈ HEX		94314	42901/94314
						1 HEX		94316	42901/94316
						1 ¹ / ₁₆ HEX		94317	42901/94317
						1 ¹ / ₈ HEX		94318	42901/94318
						1 ¹ / ₄ HEX		94320	42901/94320
						1 ³ / ₈ HEX		94322	42901/94322
						1 ⁷ / ₁₆ HEX		94323	42901/94323
						1 ¹ / ₂ HEX		94324	42901/94324
						1 ⁵ / ₈ HEX		94326	42901/94326
						1 ³ / ₄ HEX		94328	42901/94328
						1 ¹³ / ₁₆ HEX		94329	42901/94329
							22 HEX	M4322	42901/M4322
							25 HEX	M4325	42901/M4325
							27 HEX	M4327	42901/M4327
							28 HEX	M4328	42901/M4328
42	42901	36 ³ / ₄	920	14	6,35		30 HEX	M4330	42901/M4330
							32 HEX	M4332	42901/M4332

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P/N Handle		Nominal				Gear Openings		P/N Gear Only	P/N Assembly						
Model	Only	Length		Weight		IN	MM								
		IN	MM	LB	KG										
							34 HEX	M4334	42901/M4334						
							36 HEX	M4336	42901/M4336						
							38 HEX	M4338	42901/M4338						
							41 HEX	M4341	42901/M4341						
							42 HEX	M4342	42901/M4342						
							46 HEX	M4346	42901/M4346						
							¾ BORE	94112	42901/94112						
							1 BORE	94116	42901/94116						
							1 ¼ BORE	94120	42901/94120						
							1 ⅜ BORE	94122	42901/94122						
							1 ½ BORE	94124	42901/94124						
							1 ¾ BORE	94128	42901/94128						
							19 BORE	M4119	42901/M4119						
							25 BORE	M4125	42901/M4125						
							32 BORE	M4132	42901/M4132						
							34 BORE	M4143	42901/M4143						
							38 BORE	M4138	42901/M4138						
							42 BORE	M4142	42901/M4142						
						44	44901	36	914	16	7,26	1 1/16 SQ		95217	44901/95217
												1 1/8 SQ		95218	44901/95218
												1 ¼ SQ		95220	44901/95220
												1 ⅜ SQ		95222	44901/95222
												1 ½ SQ		95224	44901/95224
												1 5/8 SQ		95226	44901/95226
						1 ¾ SQ		95228	44901/95228						
						1 13/16 SQ		95229	44901/95229						
						1 7/8 SQ		95230	44901/95230						
						2 SQ		95232	44901/95232						
						27 SQ		M5227	44901/M5227						
						28 SQ		M5228	44901/M5228						
						32 SQ		M5232	44901/M5232						
						34 SQ		M5234	44901/M5234						
						38 SQ		M5238	44901/M5238						
						41 SQ		M5241	44901/M5241						
						42 SQ		M5242	44901/M5242						
						46 SQ		M5246	44901/M5246						
						47 SQ		M5247	44901/M5247						
						50 SQ		M5250	44901/M5250						
						1 ¼ HEX		95320	44901/95320						
						1 7/16 HEX		95323	44901/95323						
						1 ½ HEX		95324	44901/95324						
						1 5/8 HEX		95326	44901/95326						
						1 11/16 HEX		95327	44901/95327						
44	44901	36	914	16	7,26	1 13/16 HEX		95329	44901/95329						
						1 7/8 HEX		95330	44901/95330						
						2 HEX		95332	44901/95332						

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Model	P/N Handle Only	Nominal Length		Weight		Gear Openings		P/N Gear Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
						2 1/8 HEX		95334	44901/95334
						2 3/16 HEX		95335	44901/95335
						2 1/4 HEX		95336	44901/95336
						2 3/8 HEX		95338	44901/95338
						32 HEX		M5332	44901/M5332
						36 HEX		M5336	44901/M5336
						38 HEX		M5338	44901/M5338
						41 HEX		M5341	44901/M5341
						42 HEX		M5342	44901/M5342
						46 HEX		M5346	44901/M5346
						47 HEX		M5347	44901/M5347
						50 HEX		M5350	44901/M5350
						55 HEX		M5355	44901/M5355
						60 HEX		M5360	44901/M5360
						1 1/4 BORE		95120	44901/95120
						1 3/8 BORE		95122	44901/95122
						1 1/2 BORE		95124	44901/95124
						1 3/4 BORE		95128	44901/95128
						1 7/8 BORE		95130	44901/95130
						2 BORE		95132	44901/95132
						2 1/4 BORE		95136	44901/95136
						32 BORE		M5132	44901/M5132
						34 BORE		M5143	44901/M5143
						38 BORE		M5138	44901/M5138
						42 BORE		M5142	44901/M5142
						47 BORE		M5147	44901/M5147
						50 BORE		M5150	44901/M5150
						60 BORE		M5160	44901/M5160
45	45901	24	610	16	7,26	1 7/8 SQ		96230	45901/96230
						2 SQ		96232	45901/96232
						2 1/4 SQ		96236	45901/96236
						2 3/8 SQ		96238	45901/96238
						2 1/2 SQ		96240	45901/96240
						47 SQ		M6247	45901/M6247
						50 SQ		M6250	45901/M6250
						60 SQ		M6260	45901/M6260
						65 SQ		M6265	45901/M6265
						1 11/16 HEX		96327	45901/96327
						2 3/8 HEX		96338	45901/96338
						2 1/2 HEX		96340	45901/96340
						2 9/16 HEX		96341	45901/96341
						2 5/8 HEX		96342	45901/96342
45	45901	24	610	16	7,26	2 3/4 HEX		96344	45901/96344
						2 15/16 HEX		96347	45901/96347
						3 HEX		96348	45901/96348
						3 1/8 HEX		96350	45901/96350

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Model	P/N Handle Only	Nominal Length		Weight		Gear Openings		P/N Gear Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
						3 1/4 HEX		96352	45901/96352
							42 HEX	M6342	45901/M6342
							60 HEX	M6360	45901/M6360
							65 HEX	M6365	45901/M6365
							70 HEX	M6370	45901/M6370
							75 HEX	M6375	45901/M6375
							80 HEX	M6380	45901/M6380
46	46901	38	965	25	11,35	1 7/8 SQ		96230	46901/96230
						2 SQ		96232	46901/96232
						2 1/4 SQ		96236	46901/96236
						2 3/8 SQ		96238	46901/96238
						2 1/2 SQ		96240	46901/96240
							47 SQ	M6247	46901/M6247
							50 SQ	M6250	46901/M6250
							60 SQ	M6260	46901/M6260
							65 SQ	M6265	46901/M6265
						1 11/16 HEX		96327	46901/96327
						2 3/8 HEX		96338	46901/96338
						2 1/2 HEX		96340	46901/96340
						2 9/16 HEX		96341	46901/96341
						2 5/8 HEX		96342	46901/96342
						2 3/4 HEX		96344	46901/96344
						2 15/16 HEX		96347	46901/96347
						3 HEX		96348	46901/96348
						3 1/8 HEX		96350	46901/96350
						3 1/4 HEX		96352	46901/96352
							42 HEX	M6342	46901/M6342
							60 HEX	M6360	46901/M6360
							65 HEX	M6365	46901/M6365
							70 HEX	M6370	46901/M6370
							75 HEX	M6375	46901/M6375
							80 HEX	M6380	46901/M6380
47	47901	42	1066	37	16,8	2 1/8 SQ		97234	47901/97234
						2 1/2 SQ		97240	47901/97240
						2 3/4 SQ		97244	47901/97244
						2 7/8 SQ		97246	47901/97246
						2 15/16 SQ		97247	47901/97247
						3 SQ		97248	47901/97248
						3 1/8 SQ		97250	47901/97250
						3 1/4 SQ		97252	47901/97252
							70 SQ	M7270	47901/M7270
47	47901	42	1066	37	16,8		75 SQ	M7275	47901/M7275
							80 SQ	M7280	47901/M7280
						3 1/4 HEX		97352	47901/97352
						3 1/2 HEX		97356	47901/97356
						3 3/4 HEX		97360	47901/97360

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Model	P/N Handle	Nominal				Gear Openings		P/N Gear Only	P/N Assembly
	Only	Length		Weight		IN	MM		
		IN	MM	LB	KG				
						3 7/8 HEX		97362	47901/97362
							85 HEX	M7385	47901/M7385
							90 HEX	M7390	47901/M7390
							95 HEX	M7395	47901/M7395
48	48901	43 7/16	1107	56	25,2	3 1/4 SQ		98252	48901/98252
						3 1/2 SQ		98256	48901/98256
						3 3/4 SQ		98260	48901/98260
						3 7/8 SQ		98262	48901/98262
							95 SQ	M8295	48901/M8295
						3 7/8 HEX		98362	48901/98362
						4 HEX		98364	48901/98364
						4 1/8 HEX		98366	48901/98366
						4 1/4 HEX		98368	48901/98368
						4 1/2 HEX		98372	48901/98372
						4 5/8 HEX		98374	48901/98374
							100 HEX	N8300	48901/N8300
							105 HEX	N8305	48901/N8305
							110 HEX	N8310	48901/N8310
							115 HEX	N8315	48901/N8315
							120 HEX	N8320	48901/N8320
						2 3/4 BORE		98144	48901/98144
							70 BORE	M8170	48901/M8170

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RATCHET ARMS

I00 SERIES Ratchet Arms

P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
101	82901	7	152	¾	0,34	⅜ SQ		82936	82236
						½ SQ		82937	82237
						⅝ SQ		82938	82238
							10 SQ	M9210	82S10
							13 SQ	M9213	82S13
							16 SQ	M9216	82S16
						⅞ HEX		82957	82357
						½ HEX		82958	82358
						⅞ HEX		82959	82359
						⅝ HEX		82960	82360
						¾ HEX		82961	82361
							11 HEX	M9311	82H11
							13 HEX	M9313	82H13
							14 HEX	M9314	82H14
							16 HEX	M9316	82H16
							17 HEX	M9317	82H17
							19 HEX	M9319	82H19
						½ BORE		82978	82178
						⅝ BORE		82980	82180
						¾ BORE		82982	82182
							13 BORE	M9113	82B13
							16 BORE	M9116	82B16
							19 BORE	M9119	82B19
101A	82901A	7	180	¾	0,34	½ SQ		92608A	82608A
						⅞ SQ		92609A	82609A
						⅝ SQ		92610A	82610A
						¾ SQ		92612A	82612A
							13 SQ	M2613A	82S13A
							14 SQ	M2614A	82S14A
							16 SQ	M2616A	82S16A
							19 SQ	M2619A	82S19A
						½ HEX		92708A	82708A
						⅞ HEX		92709A	82709A
						⅝ HEX		92710A	82710A
						¾ HEX		92712A	82712A
						⅞ HEX		92714A	82714A
						1 HEX		92716A	82716A
							13 HEX	M2713A	82H13A
							14 HEX	M2714A	82H14A
							16 HEX	M2716A	82H16A
							17 HEX	M2717A	82H17A
							19 HEX	M2719A	82H19A
							22 HEX	M2722A	82H22A
							25 HEX	M2725A	82H15A
						½ BORE		92508A	82508A
						⅝ BORE		92510A	82510A

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100 SERIES Ratchet Arms									
Model	P/N Handle	Nominal				P/N Gear			
	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
101A	82901A	7	180	¾	0,34	¾ BORE		92512A	82512A
						7/8 BORE		92514A	82514A
						1 BORE		92516A	82516A
							13 BORE	M2513A	82B13A
							16 BORE	M2516A	82B16A
							19 BORE	M2519A	82B19A
							25 BORE	M2525A	82B25A
103	82911	12	305	2 ¼	1,02	½ SQ		L3208	8L208
						5/8 SQ		L3210	8L210
						11/16 SQ		L3211	8L211
						¾ SQ		L3212	8L212
						13/16 SQ		L3213	8L213
						7/8 SQ		L3214	8L214
						1 SQ		L3216	8L216
						1 1/16 SQ		L3217	8L217
						1 1/8 SQ		L3218	8L218
							12 SQ	M9612	8LS12
							13 SQ	M9613	8LS13
							14 SQ	M9614	8LS14
							16 SQ	M9616	8LS16
							17 SQ	M9617	8LS17
							19 SQ	M9619	8LS19
							22 SQ	M9622	8LS22
							25 SQ	M9625	8LS25
							27 SQ	M9627	8LS27
							28 SQ	M9628	8LS28
							¾ HEX	L3312	8L312
							7/8 HEX	L3314	8L314
							1 HEX	L3316	8L316
							1 1/8 HEX	L3318	8L318
							1 ¼ HEX	L3320	8L320
							19 HEX	M9719	8LH19
							22 HEX	M9722	8LH22
							25 HEX	M9725	8LH25
							28 HEX	M9728	8LH28
							32 HEX	M9732	8LH32
							¾ BORE	L3112	8L112
							1 BORE	L3116	8L116
							1 1/8 BORE	L3118	8L118
							1 ¼ BORE	L3120	8L120
							19 BORE	M9519	8LB19
							25 BORE	M9525	8LB25
							28 BORE	M9528	8LB28
							32 BORE	M9532	8LB32
112	81901	8	204	1 ½	0,68	½ SQ		92608	81608
						9/16 SQ		92609	81609

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Model	P/N Handle		Nominal				P/N Gear	
	Only	Length	Weight		Gear Openings		Only	P/N Assembly
			IN	MM	LB	KG		
112	81901	8	204	1 ½	0,68	5/8 SQ	92610	81610
						¾ SQ	92612	81612
						13 SQ	M2613	81S13
						14 SQ	M2614	81S14
						16 SQ	M2616	81S16
						19 SQ	M2619	81S19
						½ HEX	92708	81708
						9/16 HEX	92709	81709
						5/8 HEX	92710	81710
						¾ HEX	92712	81712
						7/8 HEX	92714	81714
						1 HEX	92716	81716
						13 HEX	M2713	81H13
						14 HEX	M2714	81H14
						16 HEX	M2716	81H16
						17 HEX	M2717	81H17
						19 HEX	M2719	81H19
						22 HEX	M2722	81H22
						25 HEX	M2725	81H25
						½ BORE	92508	81508
						5/8 BORE	92510	81510
						¾ BORE	92512	81512
						7/8 BORE	92514	81514
						1 BORE	92516	81516
						13 BORE	M2513	81B13
						16 BORE	M2516	81B16
						19 BORE	M2519	81B19
						25 BORE	M2525	81B25
						½ SQ	92608	83608
						9/16 SQ	92609	83609
						5/8 SQ	92610	83610
						¾ SQ	92612	83612
						13 SQ	M2613	83S13
						14 SQ	M2614	83S14
						16 SQ	M2616	83S16
						19 SQ	M2619	83S19
						½ HEX	92708	83708
						9/16 HEX	92709	83709
						5/8 HEX	92710	83710
						¾ HEX	92712	83712
						7/8 HEX	92714	83714
						1 HEX	92716	83716
						13 HEX	M2713	83H13
						14 HEX	M2714	83H14
						16 HEX	M2716	83H16
						17 HEX	M2717	83H17

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Model	P/N Handle		Nominal				P/N Gear		
	Only	Length	Weight		Gear Openings		Only	P/N Assembly	
			IN	MM	LB	KG			
114	83901	10	254	2	0,91		19 HEX	M2719	83H19
							22 HEX	M2722	83H22
							25 HEX	M2725	83H25
						1/2 BORE		92508	83508
						5/8 BORE		92510	83510
						3/4 BORE		92512	83512
						7/8 BORE		92514	83514
						1 BORE		92516	83516
							13 BORE	M2513	83B13
							16 BORE	M2516	83B16
							19 BORE	M2519	83B19
							25 BORE	M2525	83B25
115	84901	12	305	2	0,91	1/2 SQ		92608	84608
						9/16 SQ		92609	84609
						5/8 SQ		92610	84610
						3/4 SQ		92612	84612
							13 SQ	M2613	84S13
							14 SQ	M2614	84S14
							16 SQ	M2616	84S16
							19 SQ	M2619	84S19
						1/2 HEX		92708	84708
						9/16 HEX		92709	84709
						5/8 HEX		92710	84710
						3/4 HEX		92712	84712
						7/8 HEX		92714	84714
						1 HEX		92716	84716
							13 HEX	M2713	84H13
							14 HEX	M2714	84H14
							16 HEX	M2716	84H16
							17 HEX	M2717	84H17
							19 HEX	M2719	84H19
							22 HEX	M2722	84H22
							25 HEX	M2725	84H25
						1/2 BORE		92508	84508
						5/8 BORE		92510	84510
						3/4 BORE		92512	84512
						7/8 BORE		92514	84514
						1 BORE		92516	84516
							13 BORE	M2513	84B13
							16 BORE	M2516	84B16
							19 BORE	M2519	84B19
							25 BORE	M2525	84B25

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Model	P/N Handle		Nominal				P/N Gear	
	Only	Length	Weight		Gear Openings		Only	P/N Assembly
			IN	MM	LB	KG		
201	20101	13 3/4	349	1 3/4	0,57	3/8 SQ	82936	DI236
						1/2 SQ	82937	DI237
						5/8 SQ	82938	DI238
						10 SQ	M9210	DIS10
						13 SQ	M9213	DIS13
						16 SQ	M9216	DIS16
						7/16 HEX	82957	DI357
						1/2 HEX	82958	DI358
						9/16 HEX	82959	DI359
						5/8 HEX	82960	DI360
						3/4 HEX	82961	DI361
						11 HEX	M9311	DIH11
						13 HEX	M9313	DIH13
						14 HEX	M9314	DIH14
						16 HEX	M9316	DIH16
						17 HEX	M9317	DIH17
						19 HEX	M9319	DIH19
						1/2 BORE	82978	DI178
						5/8 BORE	82980	DI180
						3/4 BORE	82982	DI182
						13 BORE	M9113	DIB13
						16 BORE	M9116	DIB16
						19 BORE	M9119	DIB19
203	20301	19	483	2 1/2	1,13	1/2 SQ	L3208	D2208
						5/8 SQ	L3210	D2210
						11/16 SQ	L3211	D2211
						3/4 SQ	L3212	D2212
						13/16 SQ	L3213	D2213
						7/8 SQ	L3214	D2214
						1 SQ	L3216	D2216
						1 1/16 SQ	L3217	D2217
						1 1/8 SQ	L3218	D2218
						12 SQ	M9612	D2S12
						13 SQ	M9613	D2S13
						14 SQ	M9614	D2S14
						16 SQ	M9616	D2S16
						17 SQ	M9617	D2S17
						19 SQ	M9619	D2S19
						22 SQ	M9622	D2S22
						25 SQ	M9625	D2S25
						27 SQ	M9627	D2S27
						28 SQ	M9628	D2S28
						3/4 HEX	L3312	D2312
						7/8 HEX	L3314	D2314
						1 HEX	L3316	D2316
						1 1/8 HEX	L3318	D2318

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P/N Handle		Nominal				P/N Gear									
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly						
		IN	MM	LB	KG	IN	MM								
						1 ¼ HEX		L3320	D2320						
						19 HEX		M9719	D2H19						
						22 HEX		M9722	D2H22						
						25 HEX		M9725	D2H25						
						28 HEX		M9728	D2H28						
						32 HEX		M9732	D2H32						
						¾ BORE		L3112	D2112						
						1 BORE		L3116	D2116						
						1 ⅛ BORE		L3118	D2118						
						1 ¼ BORE		L3120	D2120						
						19 BORE		M9519	D2B19						
						25 BORE		M9525	D2B25						
						28 BORE		M9528	D2B28						
						32 BORE		M9532	D2B32						
						241	24101	27 ⅝	702	4 ¾	2,15	¾ SQ		94212	D4212
												⅞ SQ		94214	D4214
												1 SQ		94216	D4216
												1 ⅙ SQ		94217	D4217
												1 ⅛ SQ		94218	D4218
												1 ⅜ SQ		94219	D4219
						1 ¼ SQ		94220	D4220						
						1 ⅜ SQ		94222	D4222						
						1 ⅞ SQ		94223	D4223						
						1 ½ SQ		94224	D4224						
						19 SQ		M4219	D4S19						
						22 SQ		M4222	D4S22						
						25 SQ		M4225	D4S25						
						27 SQ		M4227	D4S27						
						28 SQ		M4228	D4S28						
						30 SQ		M4230	D4S30						
						32 SQ		M4232	D4S32						
						34 SQ		M4234	D4S34						
						36 SQ		M4236	D4S36						
						38 SQ		M4238	D4S38						
						⅞ HEX		94314	D4314						
						1 HEX		94316	D4316						
						1 ⅙ HEX		94317	D4317						
						1 ⅛ HEX		94318	D4318						
						1 ¼ HEX		94320	D4320						
						1 ⅜ HEX		94322	D4322						
						1 ⅞ HEX		94323	D4323						
						1 ½ HEX		94324	D4324						
						1 ⅝ HEX		94326	D4326						
						1 ¾ HEX		94328	D4328						
						1 ⅜ HEX		94329	D4329						
						22 HEX		M4322	D4H22						

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P/N Handle		Nominal				P/N Gear			
Model	Only	Length		Weight		Gear Openings		Only	P/N Assembly
		IN	MM	LB	KG	IN	MM		
							25 HEX	M4325	D4H25
							27 HEX	M4327	D4H27
							28 HEX	M4328	D4H28
							30 HEX	M4330	D4H30
							32 HEX	M4332	D4H32
							34 HEX	M4334	D4H34
							36 HEX	M4336	D4H36
							38 HEX	M4338	D4H38
							41 HEX	M4341	D4H41
							42 HEX	M4342	D4H42
							46 HEX	M4346	D4H46
							¾ BORE	94112	D4112
							1 BORE	94116	D4116
							1 ¼ BORE	94120	D4120
							1 ⅜ BORE	94122	D4122
							1 ½ BORE	94124	D4124
							1 ¾ BORE	94128	D4128
							19 BORE	M4119	D4B19
							25 BORE	M4125	D4B25
							32 BORE	M4132	D4B32
							34 BORE	M4143	D4B43
							38 BORE	M4138	D4B38
							42 BORE	M4142	D4B42