

# WRENCHES



Ontario's Largest  
Pneumatic & Hydraulic Tool Distributor

1-2430 Lucknow Drive, Mississauga, Ontario L5S 1V3. Tel: 905-672-5557 Fax: 905-672-5559  
Email: sales@dobcoeqp.com www.dobcoeqp.com

## FEATURES & BENEFITS

- Professional industrial grade quality.
- Three finishes to suit your needs: polished mirror chrome, satin chrome and black oxide.
- Largest hex size selection available anywhere in North America from 1/4" to 4".
- Utilize only the highest quality stainless and alloy steels.
- Round shank designs deliver easier gripping and superior pulling power.
- Every combination wrench is nickel and chrome plated for rust free life.
- Product range includes unique wrenches such as strike-free and striking face for heavy-duty industries such as mining, oil and gas.

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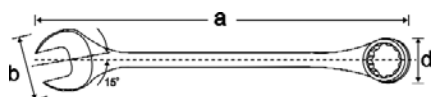


## 6 & 12 Point SAE Combination Wrenches - 15° Offset

Hex Size	12 Point Mirror Chrome Part No.	6 Point Mirror Chrome Part No.	12 Point Satin Chrome Part No.	12 Point Black Oxide Part No.	Overall Length, in. a	Head Width, in. b	Head Thickness, in. c	Box End Width, in. d	Box End Thickness, in. e	Weight lbs.
1/4"	3108*	3208	157B*	—	5.00	.60	.17	.42	.23	.06
5/16"	3110	3210	158B	3110B	5.50	.70	.18	.54	.25	.06
11/32"	3111	3211	159B	—	5.50	.70	.19	.54	.28	.06
3/8"	3112	3212	160B	3112B	6.00	.79	.20	.59	.30	.08
7/16"	3114	3214	161B	3114B	6.50	.92	.23	.69	.33	.12
1/2"	3116	3216	162B	3116B	7.00	1.09	.25	.76	.36	.16
9/16"	3118	3218	163B	3118B	7.50	1.20	.28	.84	.35	.21
5/8"	3120	3220	164B	3120B	8.06	1.32	.29	.93	.41	.25
11/16"	3122	3222	165B	3122B	8.87	1.45	.31	1.03	.42	.33
3/4"	3124	3224	166B	3124B	9.75	1.57	.33	1.09	.45	.41
13/16"	3126	3226	166SB	3126B	10.62	1.68	.35	1.19	.46	.56
7/8"	3128	3228	167B	3128B	11.50	1.79	.38	1.31	.48	.67
15/16"	3130	3230	168B	3130B	12.37	1.90	.41	1.39	.51	.75
1"	3132	—	169B	3132B	13.25	2.01	.44	1.50	.55	.92
11/16"	3134	—	170B	3134B	14.12	2.14	.47	1.61	.58	1.14
1 1/8"	3136	—	171B	3136B	15.37	2.26	.50	1.69	.61	1.23
1 3/16"	3138	—	—	3138B	15.12	2.26	.50	1.86	.61	1.60
1 1/4"	3140	—	172B	3140B	16.75	2.51	.48	1.86	.70	1.70
1 5/16"	3142	—	—	3142B	17.63	2.64	.52	1.96	.73	2.03
1 3/8"	—	—	3144	3144B	18.50	2.77	.53	2.02	.77	2.49
1 7/16"	—	—	3146	3146B	19.38	2.89	.55	2.13	.78	3.04
1 1/2"	—	—	3148	3148B	20.25	3.02	.56	2.17	.80	3.57

Federal Spec. CDA 39-G-11b Type 2. U.S. GGG-W-636E Type 3. ANSI B107.6 AS954

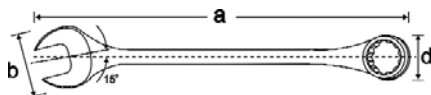
\* Available in 6 point only.



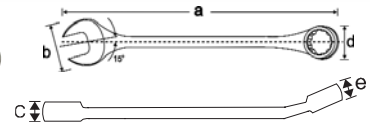
**12 Point SAE Round Shank Large Combination Wrenches - 15° Offset**

Hex Size	12 Point Satin Chrome Part No.	12 Point Black Oxide Part No.	Overall Length in. a	Head Width in. b	Head Depth in. c	Box End Dia. in. d	Box End Depth in. e	Weight lbs.
19/16"	<b>3150</b>	<b>3150B</b>	24.00	3.62	.81	2.50	1.06	6.0
15/8"	<b>3152</b>	<b>3152B</b>	24.00	3.62	.81	2.50	1.06	6.0
111/16"	<b>3154</b>	<b>3154B</b>	24.00	3.62	.81	2.50	1.06	6.0
13/4"	<b>3156</b>	<b>3156B</b>	24.00	3.62	.81	2.50	1.06	6.0
113/16"	<b>3158</b>	<b>3158B</b>	28.00	4.00	.87	2.93	1.18	8.0
17/8"	<b>3160</b>	<b>3160B</b>	28.00	4.00	.87	2.93	1.18	8.0
115/16"	<b>3162</b>	<b>3162B</b>	28.00	4.00	.87	2.93	1.18	8.0
2"	<b>3164</b>	<b>3164B</b>	28.00	4.00	.87	2.93	1.18	8.0
21/16"	<b>3166</b>	<b>3166B</b>	30.00	4.50	1.00	3.25	1.56	13.0
21/8"	<b>3168</b>	<b>3168B</b>	30.00	4.50	1.00	3.25	1.56	13.0
23/16"	<b>3170</b>	<b>3170B</b>	30.00	4.50	1.00	3.25	1.56	13.0
21/4"	<b>3172</b>	<b>3172B</b>	30.00	4.50	1.00	3.25	1.56	13.0
25/16"	<b>3174</b>	<b>3174B</b>	30.50	4.50	1.00	3.50	1.56	13.0
23/8"	<b>3176</b>	<b>3176B</b>	30.50	4.50	1.00	3.50	1.56	13.0
27/16"	<b>3178</b>	<b>3178B</b>	30.50	4.50	1.00	3.50	1.56	13.0
21/2"	<b>3180</b>	<b>3180B</b>	30.50	4.50	1.00	3.50	1.56	13.0
29/16"	<b>3182</b>	<b>3182B</b>	31.00	5.50	1.12	4.25	1.68	18.0
25/8"	<b>3184</b>	<b>3184B</b>	31.50	5.50	1.12	4.25	1.68	18.0
211/16"	<b>3186</b>	<b>3186B</b>	32.00	5.50	1.12	4.25	1.68	18.0
23/4"	<b>3188</b>	<b>3188B</b>	32.50	5.50	1.12	4.25	1.68	18.0
213/16"	<b>3190</b>	<b>3190B</b>	33.00	5.50	1.12	4.25	1.68	18.0
27/8"	<b>3192</b>	<b>3192B</b>	33.50	5.50	1.18	4.75	1.68	18.4
215/16"	<b>3194</b>	<b>3194B</b>	34.00	5.50	1.18	4.75	1.68	18.4
3"	<b>3196</b>	<b>3196B</b>	34.50	5.50	1.18	4.75	1.68	18.4
31/16"	<b>3198</b>	<b>3198B</b>	35.00	5.50	1.18	4.75	1.68	18.4
31/8"	<b>3200</b>	<b>3200B</b>	35.50	5.50	1.18	4.75	1.68	18.4
31/4"	<b>3304</b>	—	36.00	7.00	1.50	5.62	2.25	22.0
33/8"	<b>3308</b>	—	36.50	7.00	1.50	5.62	2.25	22.0
31/2"	<b>3312</b>	—	37.00	7.00	1.50	5.87	2.25	22.0
35/8"	<b>3316</b>	—	37.50	7.00	1.50	5.87	2.25	22.0
33/4"	<b>3320</b>	—	38.00	7.00	1.50	6.12	2.25	22.0
37/8"	<b>3324</b>	—	38.50	7.00	1.50	6.12	2.25	22.0
4"	<b>3328</b>	—	39.00	7.00	1.50	6.12	2.25	22.0

Federal Spec. CDA 39-G-11b Type 2. U.S. GGG-W-636E Type 3. ANSI B107.6 AS954



# WRENCHES



## 6 & 12 Point Metric Combination Wrenches - 15° Offset

Hex Size	12 Point Mirror Chrome Part No.	6 Point Mirror Chrome Part No.	12 Point Satin Chrome Part No.	12 Point Black Oxide Part No.	Overall Length mm a	Head Width mm b	Head Thickness mm c	Box End Width mm d	Box End Thickness mm e	Weight lbs.
6mm	MC6*	MC606	MEB6*	MC6B*	127	15	4.5	10.6	6.0	.05
7mm	MC7*	MC607	MEB7*	MC7B*	127	15	4.5	10.6	6.0	.05
8mm	MC8	MC608	MEB8	MC8B	140	18	4.7	13.8	6.8	.07
9mm	MC9	MC609	MEB9	MC9B	152	21	5.4	15.0	7.8	.08
10mm	MC10	MC610	MEB10	MC10B	165	24	6.1	17.2	8.2	.11
11mm	MC11	MC611	MEB11	MC11B	165	24	6.1	17.2	8.2	.13
12mm	MC12	MC612	MEB12	MC12B	178	28	6.5	19.6	8.6	.13
13mm	MC13	MC613	MEB13	MC13B	178	28	6.5	19.6	8.6	.16
14mm	MC14	MC614	MEB14	MC14B	191	31	6.8	22.0	9.0	.22
15mm	MC15	MC615	MEB15	MC15B	191	31	6.8	22.0	9.0	.24
16mm	MC16	MC616	MEB16	MC16B	205	34	7.4	24.2	10.2	.25
17mm	MC17	MC617	MEB17	MC17B	225	37	7.4	26.1	10.9	.34
18mm	MC18	MC618	MEB18	MC18B	225	37	7.9	26.1	10.9	.36
19mm	MC19	—	MEB19	MC19B	248	40	8.4	27.9	11.7	.41
20mm	MC20	—	MEB20	MC20B	270	43	8.4	30.4	12.4	.53
21mm	MC21	—	MEB21	MC21B	270	43	8.9	30.4	12.4	.55
22mm	MC22	—	MEB22	MC22B	292	46	9.4	33.2	12.4	.63
23mm	MC23	—	MEB23	MC23B	292	46	9.4	33.2	12.4	.67
24mm	MC24	—	MEB24	MC24B	314	49	9.9	35.3	14.0	.74
25mm	MC25	—	MEB25	—	314	49	9.9	35.3	14.0	.74
26mm	MC26	—	MEB26	MC26B	337	51	10.4	38.1	14.7	.88
27mm	MC27	—	MEB27	MC27B	359	54	11.0	41.0	15.5	1.06
28mm	MC28	—	MEB28	MC28B	391	57	11.4	42.9	16.3	1.38
29mm	MC29	—	MEB29	MC29B	391	57	11.4	42.9	16.3	1.38
30mm	MC30	—	MEB30	MC30B	391	57	11.4	42.9	16.3	1.38
32mm	MC32	—	MEB32	MC32B	425	64	12.0	47.3	17.1	1.51
35mm	—	—	MC35	MC35B	420	66	13	48	15	3.8
36mm	—	—	MC36	MC36B	420	66	13	48	15	3.8
38mm	—	—	MC38	MC38B	420	66	13	48	15	3.8

\* Available in 6 point only.



## 12 Point Metric Round Shank Combination Wrenches - 15° Offset

41mm	—	—	MC41	MC41B	610	92	21	64	27	5.8
43mm	—	—	MC43	MC43B	610	92	21	64	27	5.8
46mm	—	—	MC46	MC46B	711	102	22	75	32	7.6
50mm	—	—	MC50	MC50B	711	102	22	75	32	7.6
51mm	—	—	MC51	MC51B	715	102	22	75	32	7.6
54mm	—	—	MC54	MC54B	775	114	25	83	40	12.8
55mm	—	—	MC55	MC55B	775	114	25	83	40	12.8
57mm	—	—	MC57	MC57B	775	114	25	83	40	12.8
60mm	—	—	MC60	MC60B	775	114	25	89	40	12.8
64mm	—	—	MC64	MC64B	775	140	25	89	40	12.8
65mm	—	—	MC65	MC65B	787	140	29	114	43	17.8
70mm	—	—	MC70	MC70B	826	140	29	114	43	17.8
73mm	—	—	MC73	MC73B	851	140	29	116	43	18.0
75mm	—	—	MC75	MC75B	964	140	29	118	43	18.4
80mm	—	—	MC80	MC80B	902	140	29	118	43	18.4

Federal Spec. CDA 39-G-11m Type 2. ANSI B107.9

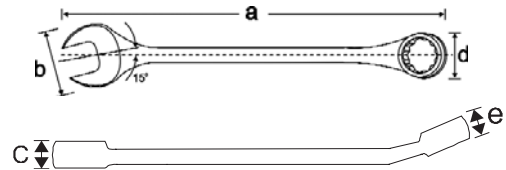


### 12 Point SAE Stubby Combination Wrenches - 15° Offset

Hex Size	12 Point Mirror Chrome Part No.	Overall Length in. a	Head Width in. b	Head Thickness in. c	Box End Width in. d	Box End Thickness in. e	Weight lbs.
1/4"	*63208	3.00	.63	.14	.39	.17	.02
5/16"	63210	3.25	.63	.17	.47	.20	.04
3/8"	63212	4.18	.71	.18	.61	.23	.05
7/16"	63214	5.00	.87	.20	.63	.25	.09
1/2"	63216	5.25	.98	.22	.72	.28	.11
9/16"	63218	5.75	1.12	.25	.78	.31	.16
5/8"	63220	6.12	1.22	.26	.86	.33	.18
11/16"	63222	6.50	1.31	.28	.94	.34	.23
3/4"	63224	6.75	1.40	.30	1.06	.38	.25

U.S. Federal Spec. GGG-W-636E. ANSI Spec. B107.6.

\* Available in 6 point only.



### 12 Point Metric Stubby Combination Wrenches - 15° Offset

Hex Size	12 Point Mirror Chrome Part No.	Overall Length mm a	Head Width mm b	Head Thickness mm c	Box End Width mm d	Box End Thickness mm e	Weight lbs.
6mm	*64206	76	14	3.70	10.00	4.30	.02
7mm	*64207	76	14	3.70	10.00	4.30	.02
8mm	64208	83	16	4.20	11.90	5.10	.02
9mm	64209	106	19	4.50	13.60	5.80	.05
10mm	64210	127	22	5.10	15.60	6.40	.09
11mm	64211	127	22	5.10	15.60	6.40	.09
12mm	64212	133	25	5.60	18.00	7.10	.11
13mm	64213	133	25	5.60	18.00	7.10	.11
14mm	64214	146	28	6.10	19.90	7.70	.16
15mm	64215	146	28	6.10	19.90	7.70	.16
16mm	64216	155	32	6.60	22.30	8.30	.18
17mm	64217	165	34	6.90	24.30	8.70	.23
18mm	64218	165	34	6.90	24.30	8.70	.23
19mm	64219	171	36	7.30	25.80	9.40	.25

U.S. Federal Spec. GGG-W-636E. ANSI Spec. B107.9M.

\* Available in 6 point only.

# WRENCHES



## No. TU4 4 Pieces 12 Point SAE Mirror Chrome Wrench Set

Contains: 1/4", 5/16", 11/32", 3/8"  
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## No. TU7 7 Pieces 12 Point SAE Mirror Chrome Wrench Set

Contains: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8"  
Includes organizer # 94809

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## No. TU9 9 Pieces 12 Point SAE Mirror Chrome Wrench Set

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 1"  
Includes organizer # 94811

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## No. TU11 11 Pieces 12 Point SAE Mirror Chrome Wrench Set

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8",  
15/16", 1"  
Includes organizer # 94811

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**No. TU14S 14 Pieces 12 Point  
SAE Mirror Chrome Wrench Set**

Contains:  $\frac{3}{8}$ "  $\frac{7}{16}$ "  $\frac{1}{2}$ "  $\frac{9}{16}$ "  $\frac{5}{8}$ "  $\frac{11}{16}$ "  $\frac{3}{4}$ "  $\frac{13}{16}$ "  $\frac{7}{8}$ "  
 $\frac{15}{16}$ " 1"  $1\frac{1}{16}$ "  $1\frac{1}{8}$ "  $1\frac{1}{4}$ "  
Includes organizer # 94815

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**No. TU19 19 Pieces 12 Point  
SAE Mirror Chrome & Satin Finish Set**

Contains:  $\frac{3}{8}$ "  $\frac{7}{16}$ "  $\frac{1}{2}$ "  $\frac{9}{16}$ "  $\frac{5}{8}$ "  $\frac{11}{16}$ "  $\frac{3}{4}$ "  $\frac{13}{16}$ "  $\frac{7}{8}$ "  
 $\frac{15}{16}$ " 1"  $1\frac{1}{16}$ "  $1\frac{1}{8}$ "  $1\frac{1}{4}$ "  $1\frac{5}{16}$ "  $1\frac{3}{8}$ "  $1\frac{7}{16}$ "  $1\frac{1}{2}$ "  $1\frac{5}{8}$ "  
Includes roll # 2015

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**No. TU7SH 7 Pieces 6 Point  
SAE Chrome Combination Wrench Set**

Contains:  $\frac{3}{8}$ "  $\frac{7}{16}$ "  $\frac{1}{2}$ "  $\frac{9}{16}$ "  $\frac{5}{8}$ "  $\frac{11}{16}$ "  $\frac{3}{4}$ "  
Includes organizer # 94809

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**No. TU9SH 9 Pieces 6 Point  
SAE Chrome Combination Wrench Set**

Contains:  $\frac{1}{4}$ "  $\frac{5}{16}$ "  $\frac{3}{8}$ "  $\frac{7}{16}$ "  $\frac{1}{2}$ "  $\frac{9}{16}$ "  $\frac{5}{8}$ "  $\frac{11}{16}$ "  $\frac{3}{4}$ "  
Includes organizer # 94809

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**NEW**

## No. TU12SH 12 Pieces 6 Point SAE Chrome Combination Wrench Set

Contains: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16"

Includes organizer # 94815

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## No. 175LR 11 Pieces 12 Point SAE Satin Chrome Combination Wrench Set

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"

Includes organizer # 94811

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## No. 174LR 14 Pieces 12 Point SAE Satin Chrome Combination Wrench Set

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"

Includes organizer # 94815

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## No. TU7B 7 Pieces 12 Point SAE Black Combination Wrench Set

Contains: 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8"

Includes organizer # 94809

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**No. TU9B 9 Pieces 12 Point  
SAE Black Combination Wrench Set**

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 1"  
Includes organizer # 94809

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**No. TU11B 11 Pieces 12 Point  
SAE Black Combination Wrench Set**

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8",  
15/16", 1"  
Includes organizer # 94811

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**No. TU14SB 14 Pieces 12 Point  
SAE Black Combination Wrench Set**

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8",  
15/16", 1", 1 1/16", 1 1/8", 1 1/4"  
Includes organizer # 94815

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**No. MC209 9 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

Contains: 10, 11, 12, 13, 14, 15, 17, 19, 22mm  
Includes organizer # 94809

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**No. MC210 10 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

Contains: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15mm  
Includes organizer # 94811

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**No. MC211 11 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

Contains: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm  
Includes organizer # 94811

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**No. MC212 11 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

Contains: 9, 10, 11, 12, 13, 14, 15, 17, 19, 20, 22mm  
Includes organizer # 94811

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**No. MC214 14 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

Contains: 7, 8, 10, 12, 14, 16, 17, 20, 22, 24, 26, 28, 30,  
32mm  
Includes organizer # 94815

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**No. MC215 15 Pieces 12 Point  
Metric Mirror Chrome Wrench Set**

**Contains:** 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,  
23, 24mm

Includes organizer # 94815

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**No. MC219 19 Pieces 12 Point  
Metric Mirror Chrome & Satin Finish  
Wrench Set**

**Contains:** 9, 10, 12, 13, 16, 18, 19, 21, 22, 23, 24, 25, 26,  
27, 28, 29, 30, 32, 36mm

Includes roll # 2015

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**No. M214R 14 Pieces 12 Point  
Metric Satin Chrome Combination  
Wrench Set**

**Contains:** 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 21, 22mm

Includes organizer # 94815

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**No. M215R 15 Pieces 12 Point  
Metric Satin Chrome Combination  
Wrench Set**

**Contains:** 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,  
23, 24mm

Includes organizer # 94815

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**No. MC691 7 Pieces 6 Point  
Metric Mirror Chrome Wrench Set**

**Contains:** 9, 10, 11, 12, 13, 15, 17mm  
**Includes organizer #** 94809

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**No. MC692 9 Pieces 6 Point  
Metric Mirror Chrome Wrench Set**

**Contains:** 6, 8, 9, 10, 11, 12, 13, 15, 17mm  
**Includes organizer #** 94809

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**No. MC111 11 Pieces 6 Point  
Metric Mirror Chrome Wrench Set**

**Contains:** 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18mm  
**Includes organizer #** 94811

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**No. MC209B 9 Pieces 12 Point  
Metric Black Combination Wrench Set**

**Contains:** 10, 11, 12, 13, 14, 15, 17, 19, 22mm  
**Includes organizer #** 94809

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**No. MC212B 11 Pieces 12 Point  
Metric Black Combination Wrench Set**

**Contains:** 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 22mm  
**Includes organizer #** 94811

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**No. MC214B 14 Pieces 12 Point  
Metric Black Combination Wrench Set**

**Contains:** 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,  
24mm

Includes organizer # 94815

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**No. 63809 9 Pieces 12 Point  
SAE Stubby Wrench Set**

**Contains:** 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"

Includes organizer # 94812

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**No. 64811 11 Pieces 12 Point  
Metric Stubby Wrench Set**

**Contains:** 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

Includes organizer # 94812

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**NEW**



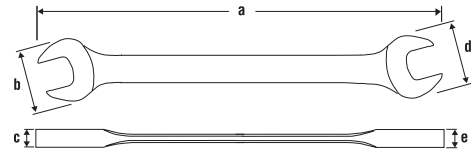
**No. 64814 14 Pieces 12 Point  
Metric Stubby Wrench Set**

**Contains:** 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm

Includes organizer # 94812

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# WRENCHES



## SAE Open End Wrenches - 15° Offset

Opening Size	Mirror Chrome Part No.	Overall Length, in. a	Small Opening Head Width, in. b	Small Opening Head Thickness, in. c	Large Opening Head Width, in. d	Large Opening Head Thickness, in. e	Weight lbs.
3/16 x 1/4"	<b>E68</b>	3.87	.50	.17	.45	.17	.03
1/4 x 5/16"	<b>E810</b>	4.50	.72	.18	.60	.18	.04
5/16 x 3/8"	<b>E1012</b>	5.12	.81	.18	.70	.18	.06
3/8 x 7/16"	<b>E1214</b>	5.75	.92	.23	.79	.23	.10
7/16 x 1/2"	<b>E1416</b>	6.37	1.03	.23	.89	.23	.14
1/2 x 9/16"	<b>E1618</b>	7.00	1.18	.25	1.03	.25	.19
9/16 x 5/8"	<b>E1820</b>	7.62	1.28	.26	1.15	.26	.24
19/32 x 11/16"	<b>E1922</b>	8.25	1.40	.29	1.28	.29	.30
5/8 x 1 1/16"	<b>E2022</b>	8.25	1.40	.29	1.28	.29	.30
5/8 x 3/4"	<b>E2024</b>	8.25	1.50	.31	1.23	.31	.36
1 1/16 x 3/4"	<b>E2224</b>	8.37	1.57	.31	1.40	.31	.38
3/4 x 7/8"	<b>E2428</b>	9.50	1.78	.32	1.57	.32	.50
13/16 x 7/8"	<b>E2628</b>	10.12	1.78	.34	1.65	.34	.54
15/16 x 1"	<b>E3032</b>	11.37	2.03	.39	1.90	.39	.80
1 1/16 x 1 1/4"	<b>E3440</b>	13.56	2.50	.45	2.14	.45	1.40

## Metric Open End Wrenches - 15° Offset

Opening Size	Mirror Chrome Part No.	Overall Length, mm a	Small Opening Head Width, mm b	Small Opening Head Thickness, mm c	Large Opening Head Width, mm d	Large Opening Head Thickness, mm e	Weight lbs.
6 x 7mm	<b>ME67</b>	114	18	4.8	15.3	4.8	.03
8 x 9mm	<b>ME89</b>	130	20	4.9	17.8	4.9	.06
8 x 10mm	<b>ME810</b>	130	20	4.9	17.8	4.9	.06
10 x 11mm	<b>ME1011</b>	146	23	6.0	20.8	6.0	.10
12 x 13mm	<b>ME1213</b>	161	26	5.8	23.0	5.8	.13
14 x 15mm	<b>ME1415</b>	193	32	6.9	29.4	6.9	.22
16 x 17mm	<b>ME1617</b>	209	35	7.4	32.5	7.4	.30
18 x 19mm	<b>ME1819</b>	225	40	7.4	35.7	7.8	.38
20 x 21mm	<b>ME2021</b>	241	45	8.8	35.7	8.8	.61
21 x 22mm	<b>ME2122</b>	257	45	8.9	42.0	8.9	.54
24 x 27mm	<b>ME2427</b>	320	51	9.9	48.4	9.9	.79
25 x 28mm	<b>ME2528</b>	320	57	10.9	54.3	10.9	1.19
27 x 30mm	<b>ME2730</b>	344	63	11.4	54.4	11.4	1.40
27 x 32mm	<b>ME2732</b>	344	63	11.4	54.4	11.4	1.38

Federal Spec. CDA 39-GP-11b Type 3 Style A U.S. GGG-W-636 Type 4. ANSI B107.9M.

**No. OE6LR 6 Pieces**  
**SAE Open End Wrench Set**

Contains: 3/8" x 7/16", 1/2" x 9/16", 19/32" x 11/16", 5/8" x 3/4",  
13/16" x 7/8", 15/16" x 1"  
Includes roll # 2008



**No. OE8LR 8 Pieces**  
**SAE Open End Wrench Set**

Contains: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 19/32" x 11/16",  
5/8" x 3/4", 13/16" x 7/8", 15/16" x 1", 1 1/16" x 1 1/4"  
Includes roll # 2008



**No. OE12LR 12 Pieces**  
**SAE Open End Wrench Set**

Contains: 1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 1/2" x 9/16",  
9/16" x 5/8", 19/32" x 11/16", 5/8" x 11/16", 5/8" x 3/4",  
3/4" x 7/8", 13/16" x 7/8", 15/16" x 1", 1 1/16" x 1 1/4"  
Includes organizer # 94815

**No. ME6A 6 Pieces**  
**Metric Open End Wrench Set**

Contains: 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm,  
16 x 17mm, 18 x 19mm,  
Includes organizer # 94809

**No. ME8A 8 Pieces**  
**Metric Open End Wrench Set**

Contains: 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm,  
16 x 17mm, 18 x 19mm, 20 x 21mm, 21 x 22mm  
Includes organizer # 94809

**No. ME12A 12 Pieces**  
**Metric Open End Wrench Set**

Contains: 6 x 7mm, 8 x 9mm, 10 x 11mm, 12 x 13mm,  
14 x 15mm, 16 x 17mm, 18 x 19mm, 20 x 21mm,  
21 x 22mm, 24 x 27mm, 25 x 28mm, 27 x 32mm  
Includes organizer # 94815





## SAE Miniature Open End Wrenches Satin Chrome Finish

Part No.	15° Size, in.	60° Size, in.	Length in.
<b>E14</b>	13/64	15/64	3 1/8
<b>E16</b>	15/64	13/64	3 1/8
<b>E18</b>	7/32	1/4	3 1/8
<b>E20</b>	1/4	7/32	3 1/8
<b>E22</b>	9/32	5/16	3 1/2
<b>E24</b>	5/16	9/32	3 1/2
<b>E26</b>	11/32	3/8	4
<b>E28</b>	3/8	11/32	4
<b>E30</b>	7/16	1/2	4 1/2



## Metric Miniature Open End Wrenches Satin Chrome Finish

Part No.	15° Size, mm	60° Size, mm	Length mm
<b>EM100</b>	3.2	5.5	78
<b>EM101</b>	5.5	3.2	78
<b>EM104</b>	4	5	78
<b>EM105</b>	5	4	78
<b>EM106</b>	6	7	78
<b>EM107</b>	7	6	89
<b>EM108</b>	8	9	100
<b>EM110</b>	10	11	113
<b>EM112</b>	12	13	113



## No. 16LR 9 Pieces SAE Miniature Open End Wrench Set

**Contains:** 13/64" x 15/64", 15/64" x 13/64", 7/32" x 1/4", 1/4" x 7/32",  
9/32" x 5/16", 5/16" x 9/32", 11/32" x 3/8", 3/8" x 11/32",  
7/16" x 1/2"

Includes roll # 2045

**No. 17LR 11 Pieces**  
**SAE Minature Open End Wrench Set**

Contains: 13/64" x 15/64", 15/64" x 13/64", 7/32" x 1/4", 1/4" x 7/32",  
9/32" x 5/16", 5/16" x 9/32", 11/32" x 3/8", 3/8" x 11/32",  
7/16" x 1/2"

92460 Pocket Screwdriver and 518A Plier.

Includes roll # 2045



**No. EM9LR 9 Pieces**  
**Metric Minature Open End Wrench Set**

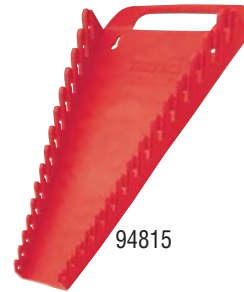
Contains: 3.2 x 5.5mm, 5.5 x 3.2mm, 4 x 5mm, 5 x 4mm,  
6 x 7mm, 7 x 6mm, 8 x 9mm, 10 x 11mm,  
12 x 13mm

Includes roll # 2045



**Gripper Wrench Organizers**

Part No.	Description
94809	Holds 9 wrenches
94811	Holds 11 wrenches
94815	Holds 15 wrenches



94815

**Stubby Gripper Wrench Organizer**

Part No.	Description
94812	Holds 11 wrenches



94812

**Wrench Organizers**

Part No.	Description
94711	Holds 11 wrenches
94715	Holds 15 wrenches
94772	Holds 72 wrenches



94715



94772



## SAE Mirror Chrome Flare Nut Wrenches

6 Point Part No.	Opening Sizes, in.	Length in.
<b>FL1214S</b>	3/8 x 7/16	5.25
<b>FL1618S</b>	1/2 x 9/16	6
<b>FL2022S</b>	5/8 x 11/16	7



## Metric Mirror Chrome Flare Nut Wrenches

6 Point Part No.	Opening Sizes, mm	Length mm
<b>FL0911M</b>	9 x 11	131
<b>FL1012M</b>	10 x 12	151
<b>FL1314M</b>	13 x 14	155
<b>FL1517M</b>	15 x 17	180
<b>FL1618M</b>	16 x 18	197



## No. FL3S 3 Pieces 6 Point SAE Chrome Flare Nut Wrench Set

Contains: 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16"

Includes pouch # 2057



## No. FLM3S 3 Pieces 6 Point Metric Chrome Flare Nut Wrench Set

Contains: 9 x 11mm, 13 x 14mm, 15 x 17mm

Includes pouch # 2057



## No. FLM5S 5 Pieces 6 Point Metric Chrome Flare Nut Wrench Set

Contains: 9 x 11mm, 10 x 12mm, 13 x 14mm, 15 x 17mm, 16 x 18mm

Includes pouch # 2057



**SAE Mirror Chrome Box End Wrench -  
15° Offset**

Opening Sizes, in.	12 Point Part No.	Length in.
3/8 x 7/16	<b>2840</b>	8.0
1/2 x 9/16	<b>2843</b>	9.5
5/8 x 11/16	<b>2846</b>	10.5
3/4 x 25/32	<b>2849</b>	12.5
13/16 x 7/8	<b>2852</b>	13.0
15/16 x 1	<b>2855</b>	15.46

Federal Spec. CDA 39-GP-11 U.S. GGG-W-636E ANSI B107.6



**Metric Mirror Chrome Box End Wrench -  
15° Offset**

Hex Size, mm	12 Point Part No.	Length mm
8 x 9	<b>MB89</b>	188
10 x 11	<b>MB1011</b>	205
12 x 13	<b>MB1213</b>	227
14 x 15	<b>MB1415</b>	257
17 x 19	<b>MB1719</b>	305
20 x 22	<b>MB2022</b>	330

Federal Spec. CDA 39-GP-11m ANSI B107.9



**No. D012 6 Pieces  
SAE Chrome Box End Wrench Set**

**Contains:** 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 25/32", 13/16" x 7/8",  
15/16" x 1"

Includes organizer # 94809



**No. MB6 6 Pieces  
Metric Chrome Box End Wrench Set**

**Contains:** 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm,  
17 x 19mm, 20 x 22mm

Includes organizer # 94809



# WRENCHES



## SAE Flat Ratcheting Box Wrenches

Hex Size, in.	6 Point Part No.	12 Point Part No.	Length Size, in.
1/4 x 5/16	<b>5001</b>	<b>5001T</b>	4 1/4
3/8 x 7/16	<b>5002</b>	<b>5002T</b>	5 1/4
1/2 x 9/16	<b>5003</b>	<b>5003T</b>	6 3/4
5/8 x 1 1/16	—	<b>5004</b>	8
3/4 x 7/8	—	<b>5005</b>	9 1/4
5/8 x 3/4	—	<b>5006</b>	8
13/16 x 15/16	—	<b>5007</b>	9 1/4
1 x 1 1/16	—	<b>5008</b>	15
1 1/8 x 1 1/4	—	<b>5009</b>	15



## SAE 25° Offset Ratcheting Box Wrenches

Hex Size, in.	6 Point Part No.	12 Point Part No.	Length Size, in.
1/4 x 5/16	<b>5201</b>	—	4 1/4
3/8 x 7/16	<b>5202</b>	—	5 1/4
1/2 x 9/16	<b>5203</b>	—	6 3/4
5/8 x 1 1/16	—	<b>5204</b>	8
3/4 x 7/8	—	<b>5205</b>	9 1/4
5/8 x 3/4	—	<b>5207</b>	8
13/16 x 15/16	—	<b>5206</b>	9 1/4



## Metric Flat Ratcheting Box Wrenches

Hex Size, mm	6 Point Part No.	12 Point Part No.	Length Size, mm
7 x 8	<b>MRB78</b>	—	108
9 x 10	<b>MRB910</b>	—	140
11 x 12	<b>MRB1112</b>	—	171
13 x 14	<b>MRB1314</b>	—	171
15 x 17	—	<b>MRB1517</b>	203



## Metric 25° Offset Ratcheting Box Wrenches

Hex Size, mm	6 Point Part No.	12 Point Part No.	Length Size, mm
7 x 8	<b>MROB78</b>	—	108
9 x 10	<b>MROB910</b>	—	140
11 x 12	<b>MROB1112</b>	—	171
13 x 14	<b>MROB1314</b>	—	171
15 x 17	—	<b>MROB1517</b>	203

**No. 5000LR 5 Pieces 6 & 12 Point  
SAE Flat Ratcheting Box Wrench Set**

Contains: 6 Pt: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 12 Pt: 5/8" x 11/16", 3/4" x 7/8"  
Carded



**No. 5008LR 8 Pieces 6 & 12 Point  
SAE Flat Ratcheting Box Wrench Set**

Contains: 6 Pt: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 12 Pt: 5/8" x 11/16", 3/4" x 7/8",  
5/8" x 3/4", 13/16" x 15/16", 1" x 1 1/16"  
Includes roll # 2008



**No. 5203LR 3 Pieces 6 Point  
SAE 25° Offset Ratcheting Box Wrench Set**

Contains: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16"  
Pouch



**No. 5205LR 5 Pieces 6 & 12 Point  
SAE 25° Offset Ratcheting Box Wrench Set**

Contains: 1/4" x 5/16", 3/8" x 7/16", 1/2" x 9/16", 5/8" x 11/16", 3/4" x 7/8"  
Carded



**No. MRB50 5 Pieces 6 & 12 Point  
Metric Flat Ratcheting Box Wrench Set**

Contains: 6 Pt: 7 x 8mm, 9 x 10mm, 11 x 12mm, 13 x 14mm,  
12 Pt: 15 x 17mm  
Carded



**No. MROB30 3 Pieces 6 & 12 Point  
Metric 25° Offset Ratcheting Box Wrench Set**

Contains: 7 x 8mm, 9 x 10mm, 13 x 14mm  
Carded



**No. MROB50 5 Pieces 6 & 12 Point  
Metric 25° Offset Ratcheting Box Wrench Set**

Contains: 6Pt: 7 x 8mm, 9 x 10mm, 11 x 12mm, 13 x 14mm, 12Pt: 15 x 17mm  
Carded





## SAE Combination Fixed Head Multigear™ Geared Wrench

Hex Size	Stainless Steel	Overall Length in./mm a	Head Width	Head Thickness	Box End Width	Box End Thickness	Weight lbs.
	Finish		in./mm b	in./mm c	in./mm d	in./mm e	
5/16"	<b>500111</b>	5.66"	.70"	.15"	.66"	.28"	.08
3/8"	<b>500112</b>	6.18"	.90"	.18"	.78"	.29"	.13
7/16"	<b>500114</b>	6.49"	.94"	.20"	.86"	.31"	.16
1/2"	<b>500116</b>	7.16"	1.18"	.21"	.94"	.33"	.20
9/16"	<b>500118</b>	7.44"	1.18"	.25"	1.06"	.33"	.25
5/8"	<b>500120</b>	8.50"	1.37"	.28"	1.18"	.39"	.37
11/16"	<b>500122</b>	8.89"	1.37"	.29"	1.18"	.39"	.39
3/4"	<b>500124</b>	9.76"	1.53"	.31"	1.49"	.45"	.50

## Metric Combination Fixed Head Multigear™ Geared Wrench

8mm	<b>500008</b>	144mm	18mm	4.0mm	17mm	7.2mm	.09
10mm	<b>500010</b>	157mm	23mm	4.8mm	20mm	7.5mm	.13
11mm	<b>500011</b>	165mm	24mm	5.2mm	22mm	8.0mm	.16
12mm	<b>500012</b>	172mm	26mm	5.5mm	24mm	8.5mm	.19
13mm	<b>500013</b>	182mm	30mm	6.2mm	24mm	8.5mm	.20
14mm	<b>500014</b>	189mm	30mm	6.6mm	27mm	8.5mm	.24
15mm	<b>500015</b>	202mm	32mm	7.0mm	27mm	8.5mm	.28
16mm	<b>500016</b>	216mm	35mm	7.3mm	30mm	10mm	.37
17mm	<b>500017</b>	226mm	35mm	7.6mm	30mm	10mm	.40
18mm	<b>500018</b>	237mm	37mm	7.8mm	38mm	11.5mm	.48
19mm	<b>500019</b>	248mm	39mm	8.0mm	38mm	11.5mm	.52

Federal Spec. CDA 39-GP-11b Type 3 Style A U.S. GGG-W-636 Type 4. ANSI B107.9M.



## SAE Double Box Fixed Head Multigear™ Geared Wrench

Hex Size	Stainless Steel	Overall Length in./mm a	Small Box End Width	Small Box Head Thickness	Large Box End Width	Large Box End Thickness	Weight lbs.
	Finish		in./mm b	in./mm c	in./mm d	in./mm e	
5/16" x 3/8"	<b>561012</b>	5.11"	.66"	.35"	.78"	.39"	.14
7/16" x 1/2"	<b>561416</b>	6.69"	.86"	.39"	.94"	.39"	.24
9/16" x 5/8"	<b>561820</b>	8.26"	1.06"	.39"	1.18"	.51"	.44
11/16" x 3/4"	<b>562224</b>	9.05"	1.18"	.51"	1.29"	.51"	.54

## Metric Double Box Fixed Head Multigear™ Geared Wrench

8 x 9mm	<b>550809</b>	144mm	17mm	9mm	20mm	10mm	.15
10 x 11mm	<b>551011</b>	157mm	20mm	10mm	22mm	10mm	.19
12 x 13mm	<b>551213</b>	165mm	24mm	10mm	24mm	10mm	.28
14 x 15mm	<b>551415</b>	172mm	27mm	10mm	27mm	10mm	.32
16 x 18mm	<b>551618</b>	182mm	30mm	13mm	33mm	13mm	.55
17 x 19mm	<b>551719</b>	189mm	30mm	13mm	33mm	13mm	.53

Federal Spec. CDA 39-GP-11b Type 3 Style A U.S. GGG-W-636 Type 4. ANSI B107.6.



**SAE Combination Flex Head Multigear™ Geared Wrench**

Hex Size	Stainless Steel Finish Part No.	Overall Length in./mm a	Head Width in./mm b	Head Thickness in./mm c	Box End Width in./mm d	Box End Thickness in./mm e	Weight lbs.
5/16"	<b>520111</b>	5.62"	.70"	.21"	.66"	.35"	.12
3/8"	<b>520112</b>	6.22"	.90"	.23"	.78"	.39"	.17
7/16"	<b>520114</b>	6.45"	.94"	.23"	.86"	.39"	.19
1/2"	<b>520116</b>	6.96"	1.18"	.25"	.94"	.39"	.23
9/16"	<b>520118</b>	7.36"	1.18"	.27"	1.06"	.39"	.26
5/8"	<b>520120</b>	8.30"	1.37"	.31"	1.18"	.51"	.45
11/16"	<b>520122</b>	8.66"	1.37"	.31"	1.18"	.51"	.45
3/4"	<b>520124</b>	9.60"	1.53"	.35"	1.49"	.51"	.58

**Metric Combination Flex Head Multigear™ Geared Wrench**

8mm	<b>520008</b>	143mm	18mm	5.5mm	17mm	9mm	.11
10mm	<b>520010</b>	158mm	23mm	6mm	20mm	10mm	.16
11mm	<b>520011</b>	164mm	24mm	6mm	22mm	10mm	.21
12mm	<b>520012</b>	171mm	26mm	6.5mm	24mm	10mm	.25
13mm	<b>520013</b>	177mm	30mm	6.5mm	24mm	10mm	.25
14mm	<b>520014</b>	187mm	30mm	7mm	27mm	10mm	.20
15mm	<b>520015</b>	195mm	32mm	7mm	27mm	10mm	.30
16mm	<b>520016</b>	211mm	35mm	8mm	30mm	13mm	.43
17mm	<b>520017</b>	220mm	35mm	8mm	30mm	13mm	.47
18mm	<b>520018</b>	235mm	37mm	9mm	38mm	13mm	.59
19mm	<b>520019</b>	244mm	39mm	9mm	38mm	13mm	.61

Federal Spec. CDA 39-GP-11b Type 3 Style A U.S. GGG-W-636 Type 4. ANSI B107.9M.



**SAE Double Box Flex Head Multigear™ Geared Wrench**

Hex Size	Stainless Steel Finish Part No.	Overall Length in./mm a	Small Box End Width in./mm b	Small Box Head Thickness in./mm c	Large Box End Width in./mm d	Large Box End Thickness in./mm e	Weight lbs.
5/16" x 3/8"	<b>541012</b>	6.29"	.66"	.35"	.78"	.39"	.24
7/16" x 1/2"	<b>541416</b>	7.55"	.86"	.39"	.94"	.39"	.36
9/16" x 5/8"	<b>541820</b>	8.85"	1.06"	.39"	1.18"	.51"	.61
11/16" x 3/4"	<b>542224</b>	9.56"	1.18"	.51"	1.29"	.51"	.73

**Metric Double Box Flex Head Multigear™ Geared Wrench**

8 x 9mm	<b>530809</b>	160mm	17mm	9mm	20mm	10mm	.24
10 x 11mm	<b>531011</b>	177mm	20mm	10mm	22mm	10mm	.29
12 x 13mm	<b>531213</b>	204mm	24mm	10mm	24mm	10mm	.42
14 x 15mm	<b>531415</b>	211mm	27mm	10mm	27mm	10mm	.42
16 x 18mm	<b>531618</b>	243mm	30mm	13mm	33mm	13mm	.71
17 x 19mm	<b>531719</b>	243mm	30mm	13mm	33mm	13mm	.74

Federal Spec. CDA 39-GP-11b Type 3 Style A U.S. GGG-W-636 Type 4. ANSI B107.6.



**NEW**

**No. 59708 8 Pieces**  
**SAE Combination Fixed Head**  
**Multigear™ Geared Wrench Set**

Contains: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"



**NEW**

**No. 59711 11 Pieces**  
**Metric Combination Fixed Head**  
**Multigear™ Geared Wrench Set**

Contains: 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm



**NEW**

**No. 59704 4 Pieces**  
**SAE Double Box Fixed Head**  
**Multigear™ Geared Wrench Set**

Contains: 5/16" X 3/8", 7/16" X 1/2", 9/16" X 5/8", 1 1/16" X 3/4"



**NEW**

**No. 59706 6 Pieces**  
**Metric Double Box Fixed Head**  
**Multigear™ Geared Wrench Set**

Contains: 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm,  
16 x 18mm, 17 x 19mm

**No. 59808 8 Pieces**  
**SAE Combination Flex Head**  
**Multigear™ Geared Wrench Set**

**NEW**

Contains: 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"



**No. 59811 11 Pieces**  
**Metric Combination Flex Head**  
**Multigear™ Geared Wrench Set**

**NEW**

Contains: 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm



**No. 59804 4 Pieces**  
**SAE Double Box Flex Head**  
**Multigear™ Geared Wrench Set**

**NEW**

Contains: 5/16" X 3/8", 7/16" X 1/2", 9/16" X 5/8", 11/16" X 3/4"



**No. 59806 6 Pieces**  
**Metric Double Box Flex Head**  
**Multigear™ Geared Wrench Set**

**NEW**

Contains: 8 x 9mm, 10 x 11mm, 12 x 13mm, 14 x 15mm,  
16 x 18mm, 17 x 19mm



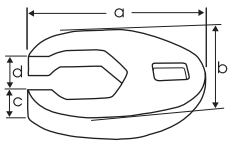
**NEW**

## 3/8" Drive SAE Flare Nut Crowfoot Wrenches



Opening Size	Mirror Chrome Part No.	Overall Length in./mm a	Head Width in./mm b	Head Thickness in./mm c	Slot Width in./mm d	Weight lbs.
3/8"	<b>CWF12</b>	1.43"	1.06"	.33"	.29"	0.09
7/16"	<b>CWF14</b>	1.44"	1.07"	.33"	.38"	0.09
1/2"	<b>CWF16</b>	1.46"	1.07"	.33"	.39"	0.09
9/16"	<b>CWF18</b>	1.60"	1.21"	.37"	.50"	0.11
5/8"	<b>CWF20</b>	1.60"	1.22"	.38"	.51"	0.11
11/16"	<b>CWF22</b>	1.71"	1.37"	.42"	.56"	0.13
3/4"	<b>CWF24</b>	1.73"	1.39"	.42"	.61"	0.13

## 3/8" Drive Metric Flare Nut Crowfoot Wrenches



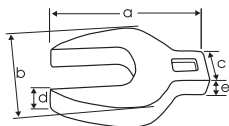
Opening Size	Part No.	Overall Length in./mm a	Head Width in./mm b	Head Thickness in./mm c	Slot Width in./mm d	Weight lbs.
10mm	<b>CWF10M</b>	37	27	8.8	8	0.07
11mm	<b>CWF11M</b>	37	27	8.8	9	0.07
12mm	<b>CWF12M</b>	37.3	27	8.8	9.5	0.09
13mm	<b>CWF13M</b>	37.5	27	8.8	10.5	0.09
14mm	<b>CWF14M</b>	42.7	31.4	9.8	12	0.11
15mm	<b>CWF15M</b>	42.8	30.7	9.9	12.7	0.11
16mm	<b>CWF16M</b>	43	30.7	9.9	13.6	0.11
17mm	<b>CWF17M</b>	46.4	34	10.8	14.3	0.13
18mm	<b>CWF18M</b>	46.4	34	10.8	16.3	0.13
19mm	<b>CWF19M</b>	46.6	34.2	10.8	16.5	0.13

**NEW**

## 3/8" Drive SAE Open End Crowfoot Wrenches



Opening Size	Mirror Chrome Part No.	Overall Length in./mm a	Head Width in./mm b	Handle Width in./mm c	Head Thickness in./mm d	Handle Thickness in./mm e	Weight lbs.
3/8"	<b>CW12</b>	1.31"	.91"	.72"	.20"	.43"	0.04
7/16"	<b>CW14</b>	1.23"	.91"	.72"	.22"	.32"	0.04
1/2"	<b>CW16</b>	1.48"	1.06"	.72"	.23"	.35"	0.07
9/16"	<b>CW18</b>	1.63"	1.21"	.72"	.27"	.37"	0.09
5/8"	<b>CW20</b>	1.63"	1.34"	.74"	.29"	.36"	0.09
11/16"	<b>CW22</b>	1.76"	1.45"	.84"	.29"	.37"	0.11
3/4"	<b>CW24</b>	1.88"	1.58"	.77"	.33"	.44"	0.15
13/16"	<b>CW26</b>	1.96"	1.70"	.83"	.31"	.38"	0.15
7/8"	<b>CW28</b>	2.07"	1.83"	.81"	.38"	.42"	0.20
1"	<b>CW32</b>	2.21"	2.03"	.74"	.40"	.53"	0.24



## 3/8" Drive Metric Open End Crowfoot Wrenches

Opening Size	Part No.	Overall Length in./mm a	Head Width in./mm b	Handle Width in./mm c	Head Thickness in./mm d	Handle Thickness in./mm e	Weight lbs.
10mm	<b>CW10M</b>	26.2	20.9	16.2	4.85	7.85	0.02
11mm	<b>CW11M</b>	31.5	23.5	18.4	5.35	7.85	0.04
12mm	<b>CW12M</b>	37.7	27	18.5	6	8.9	0.07
13mm	<b>CW13M</b>	37.7	27	18.5	6	8.9	0.07
14mm	<b>CW14M</b>	41.3	31.5	17.7	7.7	8.9	0.09
15mm	<b>CW15M</b>	41.6	34	18.9	7.5	9.6	0.11
16mm	<b>CW16M</b>	41.6	3.4	18.9	7.5	9.6	0.11
17mm	<b>CW17M</b>	43.7	36.85	20.4	7.3	9.6	0.13
18mm	<b>CW18M</b>	43.7	36	21	7.5	9.6	0.13
19mm	<b>CW19M</b>	47.8	40.5	19.6	7.5	10.25	0.13
21mm	<b>CW21M</b>	50	43.4	20.1	8.6	10.8	0.18
22mm	<b>CW22M</b>	52.7	46.8	20.8	9.85	11	0.22
24mm	<b>CW24M</b>	56.1	52	18.7	11.3	12.6	0.26

**No. 63907 7 Pieces**  
**3/8" Drive SAE Mirror Chrome Flare Nut Crowfoot Wrench Set**

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"  
Includes socket rail # SB111211



**No. 63910 10 Pieces**  
**3/8" Drive Metric Mirror Chrome Flare Nut Crowfoot Wrench Set**

Contains: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm  
Includes socket rail # SB151210



**No. 64910 10 Pieces**  
**3/8" Drive SAE Mirror Chrome Open End Crowfoot Wrench Set**

Contains: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 1"  
Includes socket rail # SB151210



**No. 64913 13 Pieces**  
**3/8" Drive Metric Mirror Chrome Open End Crowfoot Wrench Set**

Contains: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24mm  
Includes socket rail # SB191213

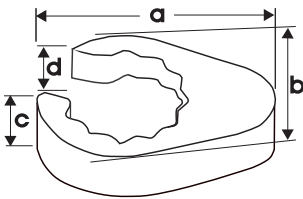


**NEW**



## 1/2" Drive SAE Flare Nut Crowfoot Wrenches

Opening Size	Mirror Chrome Part No.	Overall Length in./mm a	Head Width in./mm b	Head Thickness in./mm c	Slot Width in./mm d	Weight lbs.
13/16"	<b>CWF26</b>	2.10	1.45	.53	.63	0.17
7/8"	<b>CWF28</b>	2.18	1.40	.55	.67	0.18
15/16"	<b>CWF30</b>	2.18	1.52	.55	.71	0.18
1"	<b>CWF32</b>	2.38	1.67	.57	.71	0.24
1 1/16"	<b>CWF34</b>	2.38	1.67	.57	.79	0.24
1 1/8"	<b>CWF36</b>	2.75	1.96	.58	.87	0.33
1 3/16"	<b>CWF38</b>	2.75	1.96	.58	.87	0.33
1 1/4"	<b>CWF40</b>	2.75	1.96	.58	.94	0.31



## 1/2" Drive Metric Flare Nut Crowfoot Wrenches

20mm	<b>CWF20M</b>	53.54	36.81	13.50	16	0.18
21mm	<b>CWF21M</b>	53.51	36.86	13.47	16	0.18
22mm	<b>CWF22M</b>	55.26	35.54	13.96	17	0.18
23mm	<b>CWF23M</b>	55.35	38.62	13.81	18	0.18
24mm	<b>CWF24M</b>	55.40	38.60	13.80	18	0.18
25mm	<b>CWF25M</b>	60.42	42.63	14.53	18	0.24
27mm	<b>CWF27M</b>	60.40	42.30	14.50	20	0.24
30mm	<b>CWF30M</b>	69.83	49.71	14.76	22	0.33
32mm	<b>CWF32M</b>	69.94	49.90	14.67	24	0.33

**NEW**



### No. 65908 8 Pieces 1/2" Drive SAE Mirror Chrome Flare Nut Crowfoot Wrench Set

**Contains:** 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4"  
Includes socket rail # SB151611

**NEW**



### No. 65909 9 Pieces 1/2" Drive Metric Mirror Chrome Flare Nut Crowfoot Wrench Set

**Contains:** 20, 21, 22, 23, 24, 25, 27, 30, 32mm  
Includes socket rail # SB191615

### Adjustable Wrenches

Matte Finish Part No.	Black Oxide Part No.	Overall Length, in.	Maximum Opening, in.
<b>65304</b>	<b>65304B</b>	4	.55
<b>65306</b>	<b>65306B</b>	6	1.00
<b>65308</b>	<b>65308B</b>	8	1.08
<b>65310</b>	<b>65310B</b>	10	1.35
<b>65312</b>	<b>65312B</b>	12	1.50
<b>65315</b>	<b>65315B</b>	15	1.87
<b>65318</b>	<b>65318B</b>	18	2.30
<b>65324</b>	<b>65324B</b>	24	2.75

Federal Spec. CDA 39-GP-13A U.S. GGG-W-631B.



### No. AW812S 2 Pieces Industrial Adjustable Wrench Set

Contains: 65308 and 65312

Carded



Extra grip teeth & opening scale available on the 6, 8, 10, 12 & 15" matte finish models only

### Structural Adjustable Wrench

Part No.	Jaw Opening, in.	Length
<b>900</b>	1 <sup>9</sup> / <sub>16</sub> "	15"



### Adjustable Structural Wrench with Side Hammer

Part No.	Jaw Opening, in.	Length
<b>900H</b>	1 <sup>13</sup> / <sub>16</sub> "	15"





## Structural Wrenches Offset Head

Hex Size	Part No.	Overall Length, in.	Head Width, in.	Head Thickness, in.
3/4"	<b>904A</b>	12	1 3/4	1 3/32
7/8"	<b>905</b>	13	2 9/32	7/16
1 5/16"	<b>906</b>	12	2 9/32	7/16
1"	<b>906B</b>	13	2 9/32	7/16
1 1/16"	<b>907</b>	13 1/2	2 9/32	7/16
1 1/8"	<b>907A</b>	16	2 1/2	1 9/32
1 1/4"	<b>908</b>	16	2 1/2	1 9/32
1 5/16"	<b>908A</b>	16	2 1/2	1 9/32
1 7/16"	<b>909</b>	18	3 1/16	2 3/32
1 1/2"	<b>909A</b>	18	3 1/16	2 3/32
1 5/8"	<b>910</b>	20	3 5/8	2 3/32

Federal Spec. CDA 39-GP-11b U.S. GGG-W-636E.



## Heavy Duty Pipe Wrenches

Part No.	Pipe Capacity, in.	Overall Length, in.
<b>NSP6</b>	1/8 - 3/4	6
<b>66108</b>	1/8 - 1	8
<b>66110</b>	1/8 - 1 1/2	10
<b>66112</b>	1/4 - 2	12
<b>66114</b>	1/4 - 2	14
<b>66118</b>	1/4 - 2 1/2	18
<b>66124</b>	1/4 - 3	24
<b>66136</b>	1/4 - 5	36
<b>66148</b>	1 - 6	48

Federal Spec. CDA 39-GP-48A U.S. GGG-W-651C.



## Aluminum Pipe Wrenches

Part No.	Pipe Capacity, in.	Overall Length, in.
<b>NSP14A</b>	1/4 - 2	14
<b>NSP18A</b>	1/4 - 2 1/2	18
<b>NSP24A</b>	1/4 - 3	24
<b>NSP36A</b>	1/4 - 5	36
<b>NSP48A</b>	1 - 6	48

Federal Spec. CDA 39-GP-48A U.S. GGG-W-651C.

### SAE Ratcheting Tube Wrenches Black Finish

Hex Size	Part No.	Length, in.
3/8"	<b>RT12</b>	5 5/8
7/16"	<b>RT14</b>	5 5/8
1/2"	<b>RT16</b>	5 5/8
9/16"	<b>RT18</b>	7 1/4
5/8"	<b>RT20</b>	7 1/4
3/4"	<b>RT24</b>	7 1/4
7/8"	<b>RT28</b>	9 1/4



### No. 64405 5 Pieces SAE Ratcheting Tube Wrench Set

Contains: 3/8", 7/16", 1/2", 9/16", 5/8"  
Roll # 64405P

### Adjustable Face - Pin Spanner

Part No.	Capacity in.	Length in.
<b>AFS2</b>	3/16 x 2	6 3/8
<b>AFS3</b>	1/4 x 3	8 1/4
<b>AFS4</b>	5/16 x 4	10 3/8



### Adjustable Head - Pin Spanner

Part No.	Diameter Range Capacity, in.	Pin Dia., in.	Length in.
<b>APS2</b>	3/4 to 2	1/8	6 3/8
<b>APS21</b>	3/4 to 2	3/16	6 3/8
<b>APS3</b>	1 1/4 to 3	3/16	8 1/8
<b>APS31</b>	1 1/4 to 3	1/4	8 1/8
<b>APS4</b>	2 to 4 3/4	1/4	11 3/8
<b>APS6</b>	4 1/2 to 6 1/4	3/8	12 1/8



### Adjustable Head - Hook Spanner

Part No.	Diameter Range Capacity, in.	Length in.
<b>AHS2</b>	3/4 to 2	6 1/2
<b>AHS3</b>	1 1/4 to 3	8
<b>AHS4</b>	2 to 4 3/4	11 7/16
<b>AHS6</b>	4 1/2 to 6 1/4	12
<b>AHS8</b>	6 1/8 to 8 3/4	13 1/2





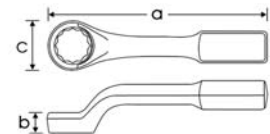
## SAE Striking Face Box Wrench 45° Offset Head

Hex Size	12 Point Part No.	Overall Length, in. a	Head Depth, in. b	Head Diameter, in. c	Weight lbs.
1"	<b>66832</b>	11	7/8	2	2.8
1 1/16"	<b>66834</b>	11	7/8	2	2.8
1 1/8"	<b>66836</b>	11	7/8	2	2.8
1 3/16"	<b>66838</b>	11	7/8	2 1/16	2.8
1 1/4"	<b>66840</b>	11	7/8	2 1/16	2.8
1 5/16"	<b>66842</b>	11	7/8	2 1/16	2.8
1 3/8"	<b>66844</b>	11	7/8	2 1/16	2.6
1 7/16"	<b>66846</b>	12 1/2	1 1/8	2 3/4	6.4
1 1/2"	<b>66848</b>	12 1/2	1 1/8	2 3/4	6.4
1 9/16"	<b>66850</b>	12 1/2	1 1/8	2 3/4	6.2
1 5/8"	<b>66852</b>	12 1/2	1 1/8	2 3/4	6.2
1 11/16"	<b>66854</b>	12 1/2	1 1/8	2 13/16	6.2
1 3/4"	<b>66856</b>	12 1/2	1 1/8	2 13/16	6.2
1 13/16"	<b>66858</b>	12 1/2	1 1/8	2 31/32	6.2
1 7/8"	<b>66860</b>	12 1/2	1 1/8	2 31/32	6.2
1 15/16"	<b>66862</b>	12 1/2	1 1/8	2 31/32	6.2
2"	<b>66864</b>	12 3/4	1 1/8	3 1/8	6.2
2 1/16"	<b>66866</b>	12 3/4	1 1/8	3 1/8	6.0
2 1/8"	<b>66868</b>	14	1 3/8	3 5/8	9.2
2 3/16"	<b>66870</b>	14	1 3/8	3 3/4	9.2
2 1/4"	<b>66872</b>	14	1 3/8	3 3/4	9.2
2 5/16"	<b>66874</b>	14	1 3/8	3 3/4	9.2
2 3/8"	<b>66876</b>	14	1 3/8	3 3/4	9.0
2 7/16"	<b>66878</b>	14	1 3/8	3 31/32	9.2
2 1/2"	<b>66880</b>	14 1/2	1 5/16	4	9.2
2 9/16"	<b>66882</b>	14 1/2	1 5/16	4 1/8	9.2
2 5/8"	<b>66884</b>	14 1/2	1 5/16	4 1/8	9.0
2 11/16"	<b>66886</b>	16	1 3/4	4 7/8	16.2
2 3/4"	<b>66888</b>	16	1 3/4	4 7/8	15.4
2 13/16"	<b>66890</b>	16	1 3/4	4 7/8	16.0
2 7/8"	<b>66892</b>	16	1 3/4	4 7/8	15.8
2 15/16"	<b>66894</b>	16	1 3/4	4 7/8	15.4
3"	<b>66896</b>	16	1 3/4	4 7/8	15.2
3 1/16"	<b>66898</b>	16	1 3/4	4 7/8	15.0
3 1/8"	<b>66899</b>	16	1 3/4	4 13/16	15.0

Specs: CGSB 39-GP-11C Type 5. U.S. GGG-W-636E. ANSI B107.6 - 1994.

### FEATURES

- Each wrench is coated with black oxide and waxed for a rust-resistant finish
- No other tool company offers the complete range 1" - 3 1/8"
  - 35 hex sizes
  - no missing sizes
- Forged from high carbon alloy steel for extra heavy duty strength



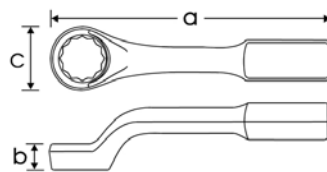
### Metric Striking Face Box Wrench 45° Offset Head

Hex Size	12 Point Part No.	Overall Length,mm a	Head Depth,mm b	Head Diameter,mm c	Weight lbs.
27mm	<b>66927</b>	279	22	51	2.8
30mm	<b>66930</b>	279	22	51	2.8
32mm	<b>66932</b>	279	22	51	2.8
35mm	<b>66935</b>	279	22	54	2.8
36mm	<b>66936</b>	317	29	70	6.4
38mm	<b>66938</b>	317	29	70	6.4
41mm	<b>66941</b>	317	29	70	6.4
43mm	<b>66943</b>	317	29	70	6.2
46mm	<b>66946</b>	324	29	79	6.2
50mm	<b>66950</b>	324	29	79	6.2
51mm	<b>66951</b>	324	29	79	6.2
54mm	<b>66954</b>	355	35	92	9.4
55mm	<b>66955</b>	355	35	92	9.2
57mm	<b>66957</b>	355	35	92	9.0
60mm	<b>66960</b>	355	35	92	8.8
64mm	<b>66964</b>	362	35	101	9.2
65mm	<b>66965</b>	362	35	101	9.2
70mm	<b>66970</b>	406	44	124	16.0
73mm	<b>66973</b>	406	44	124	15.6
75mm	<b>66975</b>	406	44	124	15.6
80mm	<b>66980</b>	406	44	124	14.8

Specs: CGSB 39-GP-11M. ANSI B107.9M - 1994.

#### FEATURES

- Each wrench is coated with black oxide and waxed for a rust-resistant finish
- No other tool company offers the complete range 27mm - 80mm
  - 21 hex sizes
  - no missing sizes
- Forged from high carbon alloy steel for extra heavy duty strength



#### WARNING

Always wear safety goggles.

**NEW**



## SAE Strike-Free Leverage Wrench 45° Offset Head

Hex Size	Part No.	Length, in.	Head Depth, in.	Head Diameter, in.	Handle To Use	Weight lbs.
1"	<b>66632</b>	7½	7/8	2	24" Handle	2.5
1¼"	<b>66634</b>	7½	7/8	2	24" Handle	2.5
1½"	<b>66636</b>	7½	7/8	2	24" Handle	2.5
1¾"	<b>66638</b>	7½	7/8	2½/16	24" Handle	2.5
1⅞"	<b>66640</b>	7½	7/8	2½/16	24" Handle	2.5
2"	<b>66642</b>	7½	7/8	2½/16	24" Handle	2.5
2¼"	<b>66644</b>	7½	7/8	2½/16	24" Handle	2.5
2½"	<b>66646</b>	8	1⅛	2¾	24" Handle	4.5
2¾"	<b>66648</b>	8	1⅛	2¾	24" Handle	4.5
3"	<b>66650</b>	8	1⅛	2¾	24" Handle	4.5
3¼"	<b>66652</b>	8	1⅛	2¾	24" Handle	4.5
3½"	<b>66654</b>	8	1⅛	2¹³/₁₆	36" Handle	4.5
3¾"	<b>66656</b>	8	1⅛	2¹³/₁₆	36" Handle	4.5
4"	<b>66658</b>	8	1⅛	2³¹/₃₂	36" Handle	4.5
4¼"	<b>66660</b>	8	1⅛	2³¹/₃₂	36" Handle	4.5
4½"	<b>66662</b>	8	1⅛	2³¹/₃₂	36" Handle	4.5
4¾"	<b>66664</b>	8¼	1⅛	3⅛	36" Handle	4.5
5"	<b>66666</b>	8¼	1⅛	3⅛	36" Handle	4.5
5¼"	<b>66668</b>	8¼	1⅜	3⅝	36" Handle	7.0
5½"	<b>66670</b>	9¼	1⅜	3¾	36" Handle	7.0
5¾"	<b>66672</b>	9¼	1⅜	3¾	36" Handle	7.0
6"	<b>66674</b>	9¼	1⅜	3¾	36" Handle	7.0
6¼"	<b>66676</b>	9¼	1⅜	3¾	36" Handle	7.0
6½"	<b>66678</b>	9½	1⅜	3³¹/₃₂	36" Handle	7.0
6¾"	<b>66680</b>	9½	1⅝	4	36" Handle	7.0
7"	<b>66682</b>	9½	1⅝	4⅛	36" Handle	7.0
7¼"	<b>66684</b>	9½	1⅝	4⅛	36" Handle	7.0
7½"	<b>66686</b>	10	1¾	4⅞	36" Handle	10.0
7¾"	<b>66688</b>	10	1¾	4⅞	36" Handle	10.0
8"	<b>66690</b>	10	1¾	4⅞	36" Handle	10.0
8¼"	<b>66692</b>	10	1¾	4⅞	36" Handle	10.0
8½"	<b>66694</b>	10	1¾	4⅞	36" Handle	10.0
8¾"	<b>66696</b>	10	1¾	4⅞	36" Handle	10.0
9"	<b>66698</b>	10	1¾	4⅞	36" Handle	10.0
9¼"	<b>66699</b>	10	1¾	4¹³/₁₆	36" Handle	10.0



## Tubular Handle for Strike-Free Leverage Wrench

Part No.	Description	Weight, lbs.
<b>60024</b>	24" Tubular handle fits wrench Part No. 66632 to 66652, 1"-1⅝"	2.6
<b>60036</b>	36" Tubular handle fits wrench Part No. 66654 to 66699, 1⅞"-3⅝"	7.95

Wrenches and handles sold separately.

**Metric Strike-Free Leverage Wrench 45° Offset Head**

Hex Size	Part No.	Length,mm	Head Depth,mm	Head Diameter,mm	Handle To Use	Weight lbs.
30mm	<b>66530</b>	187	22	51	24" Handle	2.5
32mm	<b>66532</b>	187	22	51	24" Handle	2.5
36mm	<b>66536</b>	200	29	70	24" Handle	4.5
41mm	<b>66541</b>	200	29	70	24" Handle	4.5
46mm	<b>66546</b>	200	29	79	36" Handle	4.5
55mm	<b>66555</b>	205	35	92	36" Handle	7.0
60mm	<b>66560</b>	231	35	92	36" Handle	7.0
65mm	<b>66565</b>	237	35	101	36" Handle	7.0
70mm	<b>66570</b>	250	44	124	36" Handle	10.0
75mm	<b>66575</b>	250	44	124	36" Handle	10.0
80mm	<b>66580</b>	250	44	124	36" Handle	10.0



**FEATURES**

- Engineered for optimum safety
- Increased leverage capability
- Dual purpose
- Interchangeable handle uniquely designed to fit competitor's model
- Widest range of sizes
- Ease of assembly
- Carbon steel handle ASTM A513 with a Rockwell B Hardness of 95



**Tubular Handle for Strike-Free Leverage Wrench**

Part No.	Description	Weight, lbs.
<b>60024</b>	24" Tubular handle fits wrench Part No. 66530 to 66541, 30mm -41mm	2.6
<b>60036</b>	36" Tubular handle fits wrench Part No. 66546 to 66580, 46mm-80mm	7.95

Wrenches and handles sold separately.



Assembled strike-free leverage wrench and tubular handle

# TORQUE WRENCHES



Gray Tools offers a range of professional quality torque wrenches from ¼" drive to 1" drive, micrometer type, dial type, torque limiting screwdrivers and torque multipliers up to 3,200 ft./lbs. Gray Tools torque products are 100% quality tested at the time of manufacturing and are manufactured to the ANSI B107.14 specifications, US Federal Specification GGG-W-686 and ISO Standard 6789. The quality standards permits the torque accuracy to be within ±3% for micrometer style torque wrenches and 2% accuracy with dial type torque wrenches when the wrench is used within the 20-100% rated capacity.

For ISO 9000 and QS 9000 customers, calibration certificates are available for an additional charge. Gray Tools offers a 1 year limited warranty on manufacturing defects from date of purchase. Annual calibration and a scheduled maintenance program is highly recommended.

## FEATURES

- Operates and ratchets in both left and right hand directions. May be used for uncontrolled wrenching as long as torque does not exceed maximum capacity.
- Lock ring prevents accidental change of torque setting.
- Durable aluminum handle features an easy to grip diamond knurl surface and scratch resistant anodized coating.
- Ratchet reverses easily - has positive locking action.
- May be used continually at maximum torque capacity.
- Ratchet action requires only 10° of handle travel.
- Mechanism protected from routine contamination.
- Wrench made of highest quality heat-treated steel.
- Finished with tough, durable chromium-nickel plating.
- Can be used with confidence in all automotive, aircraft, marine and industrial applications.

## SUGGESTIONS

- DO NOT OVERTORQUE !**
- Do not break fasteners loose.
- Do not replace worn parts individually, use entire contents of repair kit.
- Greater torque accuracy is assured by gripping it properly. Grasp the GRIP, not the SHAFT, and pull smoothly.
- Never attempt to turn the GRIP when the LOCK RING is in the "LOCK" position.
- Each torque wrench is lubricated before leaving the factory. If it has not been used for some time, it should be operated several times to re-distribute the lubricant within the working mechanism.
- Return adjustment to lowest settings after use.
- Periodically calibrate.
- Clean and lubricate ratchet assembly with light oil.

## Certificate of Calibration



Model No.: **DIN75A** Serial Number: **18005670518**  
 Type: **Micrometer adjustable**  
 Range: **15.00 ft.-lb. - 75.00 ft.-lb.** Calibration Equipment: **CDI Digitest**  
 Manufacturer: **Gray Hand Tool Sales Ltd.** Accuracy of Calibration: **± 0.25%**  
 Set Torque (ft.-lb.) Readings (ft.-lb.)

### Clockwise Torque (Tolerance: ± 4.0%)

15.00	15.08	0.5%	15.16	1.1%	15.13	0.9%
45.00	45.71	1.6%	45.46	1.0%	45.46	1.0%
75.00	77.13	2.8%	76.48	2.0%	76.48	2.0%

### Counterclockwise Torque (Tolerance: ± 6.0%)

15.00	14.94	-0.4%	14.99	-0.1%	14.91	-0.6%
45.00	44.74	-0.6%	44.74	-0.6%	44.89	-0.2%
75.00	74.54	-0.6%	75.36	0.5%	75.11	0.1%

Result: Measured values are within tolerance according to ASME B107.14M-1994 for Type II, Class A, Style 1&2, Design A

Date: Operator: **Winston Mugford** Supervisor:

Calibration is performed by comparison with reference standards which have been calibrated by a recognized NIST-laboratory and are therefore traceable to the National Institute of Standards and Technology. The issuer of this certificate bears sole responsibility for calibration and documentation thereof. Duplication of this certificate or parts hereof is prohibited.

## CERTIFICATION

This torque wrench was calibrated prior to shipment from the factory within tolerance limits of ± 3% clockwise (right-handed) accuracy within upper 80% of range.

## LIMITED WARRANTY

Until one year from date of purchase, we will repair any defect in material or workmanship free of charge. Improper use of these products, including but not limited to the application of excessive force, will effect performance and may result in injury. The warranty does not apply to wrenches which do not function properly or within specified accuracy because of wear, improper or unreasonable use, damage not resulting from defect or malfunction, or which have been altered. Calibration is warranted for 90 days.

*For repair or calibration send torque wrench, postage prepaid, to:*

**Gray Hand Tool Sales Inc.**  
 Attn: Repair Department  
 299 Orenda Road  
 Brampton, Ontario  
 L6T 1E8

Factory certification included with all micrometer torque wrenches.



**1/4" Micro-adjustable, Click-Type**

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Head Style	Length
1/4"	<b>71200</b>	30-200 (3.96-23.16)	1 (0.11)	Fixed Ratchet	10 1/4"

Torques both directions with quick release  
Includes Custom Molded Plastic Case



**3/8" Micro-adjustable, Click-Type**

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Head Style	Length
3/8"	<b>72250</b>	50-250 (6.22-28.85)	1 (0.11)	Fixed Ratchet	10"

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
3/8"	* <b>72075</b>	5-75 (10.1-105.1)	0.5 (0.7)	Flex Ratchet	17 5/8"
3/8"	* <b>72100</b>	10-100 (16.9-138.9)	0.5 (0.7)	Fixed Ratchet	17 3/4"

Torques both directions \* with quick release  
Includes Custom Molded Plastic Case



**1/2" Micro-adjustable, Click-Type**

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
1/2"	<b>73250</b>	25-250 (43.4-348.4)	1 (1.4)	Fixed Ratchet	21 3/4"
1/2"	<b>73251</b>	25-250 (43.4-348.4)	1 (1.4)	Flex Ratchet	22 1/2"

Torques both directions with quick release  
Includes Custom Molded Plastic Case



**3/4" & 1" Micro-adjustable, Click-Type**

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Head Style	Length
3/4"	* <b>74600</b>	100-600 (153-830)	2.5 (3.4)	Round Head Fixed	41 1/4"
3/4"	* <b>MFR600HD</b>	100-600 (153-830)	5 (7)	Tear Drop Head Fixed	43"
1"	<b>MF2000</b>	300-2,000 (474-2700)	10 (13.5)	Plain Head	109"

Torques both directions  
\* Includes Custom Molded Plastic Case

All torque wrenches meet or exceed Federal Spec. GGG-W-00686C. ANSI/ASME B107.14M ISO 6789

# TORQUE WRENCHES



## Dial Type with Memory Needle - Inch Pound

Square Drive	Part No.	Capacity in. lb. (Nm)	Increments in. lb. (Nm)	Length
1/4"	<b>DIN75A</b>	0-75 (0-9)	0.5 (0.25)	10"
3/8"	<b>DIN250A</b>	0-250 (0-30)	5 (0.5)	12 1/4"
3/8"	<b>DIN600A</b>	0-600 (0-70)	10 (2)	12 1/4"

Includes Custom Molded Plastic Case



## Dial Type With Memory Needle - Foot Pound

Square Drive	Part No.	Capacity ft. lb. (Nm)	Increments ft. lb. (Nm)	Length
3/8"	<b>DFN50A</b>	0-50 (0-70)	1 (2)	12"
1/2"	<b>DFN250A</b>	0-250 (0-350)	5 (10)	20 1/2"
1"	<b>**DFE1000</b>	0-1000 (0-1,400)	20 (25)	74"

\*\* Electric Light and Audible Buzzer in Metal Box

Includes Custom Molded Plastic Case



## Torque Screwdriver - Micrometer Adjustable

Part No.	Capacity in. lb.	Female Hex	Increments in. lbs.	Length in.	Width in.
<b>SM40</b>	5-40	1/4"	.5	5	1.2

Part No.	Capacity in. oz.	Female Hex	Increments in. oz.	Length in.	Width in.
<b>SM100</b>	20-100	1/4"	1	3.8	1.1



TM2200



TM1200



TM750A

## Torque Multipliers

Part No.	Input Drive	Output Drive	Max Input Torque ft. lb. (Nm)	Max Output Torque ft. lb. (Nm)	Torque Ratio	Length in. (mm)	Weight with Case	Accuracy	Overload Protection	Anti Backlash
<b>TM750A</b>	1/2" F	3/4" M	750	1017	3.3:1	8.6 (218)	4.0	+/- 5%	No	No
<b>TM1200*</b>	1/2" F	3/4" M	1200	1627	6.0:1	14.1.(358)	12.5	+/- 5%	Yes	No
<b>TM2200*</b>	1/2" F	1" M	2200	1627	13.6:1	19.6 (498)	15.2	+/- 5%	Yes	Yes
<b>TM3200*</b>	1/2" F	1" M	3200	4339	18.5:1	19.6 (498)	19.9	+/- 5%	Yes	Yes

\* Includes Custom Molded Plastic Case



Ontario's Largest  
Pneumatic & Hydraulic Tool Distributor