

WRENCHES

RATCHETING AND STANDARD WRENCHES IN EVERY STYLE

Ratcheting wrenches have become synonymous with the Blackhawk™ by Proto® brand. Available in a variety of styles, lengths and set configurations, including the new obstacle reverse ratcheting sets with flank adapters, these wrenches offer true versatility to go places a traditional ratchet and socket cannot.

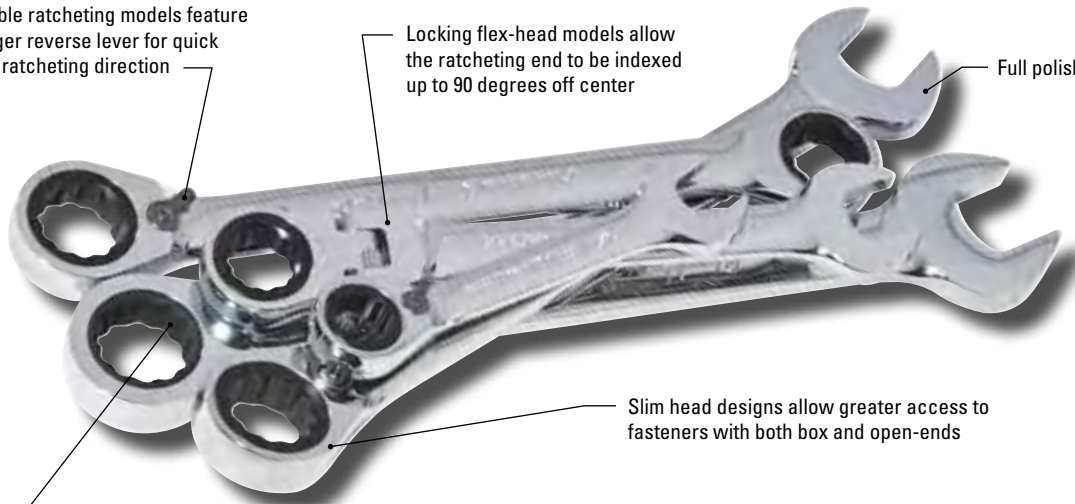
Our standard combination wrenches are available in full polish chrome, satin finish chrome, and black oxide, finished to meet the needs of our industrial end-users.



Reversible ratcheting models feature one-finger reverse lever for quick change ratcheting direction

Locking flex-head models allow the ratcheting end to be indexed up to 90 degrees off center

Full polish finish



Slim head designs allow greater access to fasteners with both box and open-ends

Seventy-two tooth mechanism features a five-degree turning arc

7 PIECE NON-REVERSE RATCHETING WRENCH SET

Item #: BW-1250

• Weight (lbs): 3.0

7 PIECE NON-REVERSE RATCHETING METRIC WRENCH SET

Item #: BW-1251

• Weight (lbs): 3.0



Contents	Size (in)	Overall Length (in)
BW-1210	3/8	5-1/4
BW-1212	7/16	5-3/4
BW-1214	1/2	6-1/2
BW-1216	9/16	7-1/4
BW-1218	5/8	8
BW-1220	11/16	8-3/4
BW-1222	3/4	9-3/4

Contents	Size (mm)	Overall Length (in)
BW-1260	10 mm	5-1/4
BW-1261	12 mm	6-1/4
BW-1262	13 mm	6-1/2
BW-1263	14 mm	7-1/4
BW-1264	15 mm	7-1/2
BW-1265	16 mm	8
BW-1267	18 mm	9





NON-REVERSING RATCHETING WRENCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
3/8	7/8	7/32	51/64	5/16	5-1/4	0.12	BW-1210
7/16	63/64	15/64	53/64	21/64	5-3/4	0.17	BW-1212
1/2	1-3/32	17/64	1	23/64	6-1/2	0.21	BW-1214
9/16	1-15/64	17/64	1-1/16	3/8	7-1/4	0.31	BW-1216
5/8	1-23/64	9/32	1-3/16	13/32	8	0.36	BW-1218
11/16	1-1/2	5/16	1-17/64	27/64	8-3/4	0.46	BW-1220
3/4	1-17/64	21/64	1-21/64	29/64	9-3/4	0.57	BW-1222

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NON-REVERSING RATCHETING WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
8 mm	25/32	11/64	43/64	17/64	4-1/2	0.09	BW-1258
9 mm	53/64	13/64	47/64	19/64	4-7/8	0.09	BW-1259
10 mm	57/64	13/64	51/64	5/16	5-1/4	0.13	BW-1260
11 mm	59/64	17/64	55/64	23/64	5-3/4	0.17	BW-12605
12 mm	63/64	17/64	59/64	3/8	6-1/4	0.19	BW-1261
13 mm	1-5/64	1/4	63/64	23/64	6-1/2	0.21	BW-1262
14 mm	1-1/4	9/32	1-5/64	3/8	7-1/4	0.3	BW-1263
15 mm	1-1/4	19/64	1-1/8	27/64	7-1/2	0.33	BW-1264
16 mm	1-11/32	19/64	1-3/16	13/32	8	0.37	BW-1265
17mm	1-1/2	5/16	1-17/64	27/64	8-3/4	0.46	BW-1266
18 mm	1-31/64	11/32	1-9/32	15/32	9	0.49	BW-1267
19 mm	1-39/64	11/32	1-21/64	15/32	9-3/4	0.55	BW-1268

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REVERSIBLE RATCHETING WRENCH SETS

12 PIECE METRIC REVERSIBLE RATCHETING WRENCH SET

Item #: BW-1450

• Weight (lbs): 4.19

Contents	Size (mm)	Overall Length (in)
BW-1458	8 mm	5-1/2
BW-1459	9 mm	5-7/8
BW-1460	10 mm	6-1/4
BW-1461	11 mm	6-1/2
BW-1462	12 mm	6-3/4
BW-1463	13 mm	7
BW-1464	14 mm	7-1/2
BW-1465	15 mm	7-1/2
BW-1466	16 mm	8-1/4
BW-1467	17 mm	8-3/4
BW-1468	18 mm	9-1/4
BW-1469	19 mm	9-3/4



8 PIECE METRIC REVERSIBLE RATCHETING WRENCH SET

Item #: BW-1408

• Weight (lbs): 2.44

Contents	Size (mm)	Overall Length (in)
BW-1458	8 mm	5-1/2
BW-1460	10 mm	6-1/4
BW-1462	12 mm	6-3/4
BW-1463	13 mm	7
BW-1464	14 mm	7-1/2
BW-1465	15 mm	7-1/2
BW-1467	17 mm	8-3/4
BW-1468	18 mm	9-1/4



8 PIECE REVERSIBLE RATCHETING WRENCH SET

Item #: BW-1400

• Weight (lbs): 2.44

Contents	Size (in)	Overall Length (in)
BW-1410	5/16	5
BW-1412	3/8	6-1/4
BW-1414	7/16	5-1/2
BW-1416	1/2	5-3/4
BW-1418	9/16	6
BW-1420	5/8	6-1/4
BW-1422	11/16	6-1/2
BW-1424	3/4	6-3/4





WRENCHES

REVERSIBLE RATCHETING WRENCHES

7 PIECE REVERSE RATCHETING WRENCH SET

Item #: BW-1401

• Weight (lbs): 11.98



Contents	Size (in)	Overall Length (in)
BW-1426	13/16	11-3/8
BW-1428	7/8	11-1/2
BW-1430	15/16	12-3/4
BW-1432	1	12-1/2
BW-1434	1-1/16	14
BW-1436	1-1/8	15-3/4
BW-1438	1-1/4	16-1/2

7 PIECE REVERSE RATCHETING METRIC WRENCH SET

Item #: BW-1451

• Weight (lbs): 10.43



Contents	Size (mm)	Overall Length (in)
BW-1471	21 mm	11-1/2
BW-1472	22 mm	11-1/2
BW-1474	24 mm	12-1/2
BW-1477	27 mm	14
BW-1480	30 mm	15-3/4
BW-1482	32 mm	16-1/2
BW-1484	34 mm	18

REVERSE RATCHETING COMBINATION WRENCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
7/32	19/32	11/64	35/64	1/4	5	0.13	BW-1403
1/4	33/64	5/32	1/2	1/4	5	0.13	BW-1405
5/16	21/32	11/64	11/16	1/4	5	0.13	BW-1410
3/8	51/64	13/64	51/64	19/64	6-1/4	0.15	BW-1412
7/16	57/64	7/32	7/8	5/16	5-1/2	0.16	BW-1414
1/2	1-1/16	1/4	63/64	11/32	5-3/4	0.17	BW-1416
9/16	1-5/32	1/4	1-3/32	23/64	6	0.19	BW-1418
5/8	1-5/16	9/32	1-13/64	25/64	6-1/4	0.20	BW-1420
11/16	1-25/64	9/32	1-1/4	13/32	6-1/2	0.22	BW-1422
3/4	1-9/16	21/64	1-11/32	7/16	6-3/4	0.26	BW-1424
13/16	1-11/16	21/64	1-1/2	15/32	11-3/8	0.70	BW-1426
7/8	1-13/16	23/64	1-19/32	33/64	11-1/2	0.83	BW-1428
15/16	2-3/64	25/64	1-27/32	37/64	12-3/4	0.95	BW-1430
1	2-3/64	3/8	1-13/16	9/16	12-1/2	1.15	BW-1432
1-1/16	2-7/32	13/32	1-63/64	39/64	14	1.43	BW-1434
1-1/8	2-27/64	7/16	2-17/64	43/64	15-3/4	1.68	BW-1436
1-1/4	2-19/32	15/32	2-27/64	11/16	16-1/2	2.22	BW-1438

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REVERSE RATCHETING COMBINATION WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
8 mm	41/64	11/64	43/64	17/64	5-1/2	0.16	BW-1458
9 mm	47/64	3/16	23/32	17/64	5-7/8	0.18	BW-1459
10 mm	51/64	3/16	13/16	9/32	6-1/4	0.20	BW-1460
11 mm	7/8	13/64	7/8	5/16	6-1/2	0.22	BW-1461
12 mm	63/64	7/32	29/32	21/64	6-3/4	0.26	BW-1462
13 mm	1-1/16	15/64	31/32	11/32	7	0.30	BW-1463
14 mm	1-1/8	1/4	1-5/64	23/64	7-1/2	0.33	BW-1464
15 mm	1-13/64	17/64	1-1/8	3/8	7-1/2	0.43	BW-1465
16 mm	1-5/16	19/64	1-13/64	25/64	8-1/4	0.47	BW-1466
17 mm	1-25/64	19/64	1-1/4	15/32	8-3/4	0.49	BW-1467
18 mm	1-15/32	5/16	1-5/16	27/64	9-1/4	0.51	BW-1468
19 mm	1-37/64	21/64	1-11/32	7/16	9-3/4	0.55	BW-1469
21 mm	1-51/64	23/64	1-37/64	33/64	11-1/2	0.70	BW-1471
22 mm	1-51/64	11/32	1-37/64	33/64	11-1/2	0.83	BW-1472
24 mm	2-1/32	25/64	1-53/64	37/64	12-1/2	0.95	BW-1474
27 mm	2-7/32	7/16	2-1/16	5/8	14	1.43	BW-1477
30 mm	2-29/64	29/64	2-19/64	43/64	15-3/4	1.95	BW-1480
32 mm	2-19/32	31/64	2-13/32	11/16	16-1/2	2.22	BW-1482
34 mm	2-25/32	1/2	2-7/16	51/64	18	2.48	BW-1484

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20 PIECE EXTENDED LENGTH RATCHETING WRENCH SET - INCH & METRIC

Item #: 97006

• Weight (lbs): 13.03

Contents	Size	Overall Length (in)
BW-1310	3/8	6-19/64
BW-1314	1/2	7-1/2
BW-1316	9/16	7-1/2
BW-1318	5/8	8-45/64
BW-1320	11/16	9-13/32
BW-1322	3/4	10
BW-1324	13/16	10
BW-1326	7/8	12-1/4
BW-1328	15/16	11-1/2
BW-1330	1	13
BW-1308M	8 mm	13-3/4
BW-1310M	10 mm	12-1/4
BW-1312M	12 mm	14-1/2
BW-1314M	14 mm	13-3/4
BW-1317M	17 mm	14-1/2
BW-1318M	18 mm	14-1/2
BW-1319M	19 mm	15-51/64
BW-1321M	21 mm	15-1/2
BW-1322M	22 mm	15-3/4
BW-1324M	24 mm	15-3/4



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EXTENDED LENGTH RATCHETING WRENCH - INCH

• 20% longer than standard pattern. 5 degree ratcheting gear. High polish double nickel chrome finish. Non-reversing flat ends flip to reverse.



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
5/16	21/32	7/32	43/64	1/4	6-13/32	0.10	BW-1306
11/32	47/64	13/64	23/32	17/64	6-29/32	0.11	BW-1308
3/8	13/16	15/64	51/64	9/32	7-1/2	0.16	BW-1310
7/16	57/64	17/64	55/64	5/16	8-3/32	0.19	BW-1312
1/2	1-5/64	9/32	1	11/32	9-13/32	0.29	BW-1314
9/16	1-9/64	5/16	1-5/64	23/64	10	0.34	BW-1316
5/8	1-9/32	21/64	1-3/16	25/64	11-1/2	0.47	BW-1318
11/16	1-25/64	23/64	1-1/4	13/32	12-1/4	0.55	BW-1320
3/4	1-9/16	11/32	1-3/8	7/16	13-3/4	0.75	BW-1322
13/16	1-51/64	23/64	1-9/16	33/64	14-1/2	0.84	BW-1324
7/8	1-13/16	23/64	1-43/64	33/64	15-1/2	0.97	BW-1326
15/16	2-1/32	25/64	1-13/16	9/16	15-3/4	1.32	BW-1328
1	2-3/64	25/64	1-13/16	37/64	15-3/4	1.31	BW-1330

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EXTENDED LENGTH RATCHETING WRENCH - METRIC

• 20% longer than standard pattern. 5 degree ratcheting gear. High polish double nickel chrome finish. Non-reversing flat ends flip to reverse.



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
8 mm	21/32	7/32	43/64	17/64	6-19/64	0.10	BW-1308M
9 mm	47/64	7/32	3/4	9/32	6-29/32	0.11	BW-1309M
10 mm	13/16	7/32	51/64	19/64	7-1/2	0.16	BW-1310M
11 mm	57/64	1/4	55/64	5/16	8-3/32	0.19	BW-1311M
12 mm	31/32	9/32	29/32	21/64	8-45/64	0.23	BW-1312M
13 mm	1-5/64	19/64	1	11/32	8-3/8	0.23	BW-1313M
14 mm	1-9/64	19/64	1-1/16	23/64	10	0.30	BW-1314M
15 mm	1-15/64	5/16	1-1/8	3/8	10-3/4	0.43	BW-1315M
16 mm	1-19/64	19/64	1-3/16	25/64	11-1/2	0.46	BW-1316M
17mm	1-25/64	21/64	1-17/64	13/32	12-1/4	0.56	BW-1317M
18 mm	1-15/32	23/64	1-5/16	27/64	13	0.65	BW-1318M
19 mm	1-9/16	11/32	1-3/8	7/16	13-3/4	0.74	BW-1319M
21 mm	1-51/64	23/64	1-9/16	33/64	14-1/2	0.99	BW-1321M
22 mm	1-51/64	23/64	1-9/16	33/64	14-1/2	0.95	BW-1322M
24 mm	2-1/32	25/64	1-13/16	37/64	15-51/64	1.35	BW-1324M

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WRENCHES

4 PIECE REVERSIBLE DOUBLE BOX WRENCH SET

Item #: BW-3330R

• Weight (lbs): 3.49



Contents	Size (in)	Overall Length (in)
BW-0516R	5/16 X 3/8	5
BW-0716R	7/16 X 1/2	6-1/2
BW-0916R	9/16 X 5/8	7-1/2
BW-1116R	11/16 X 3/4	9

6 PIECE METRIC REVERSIBLE DOUBLE BOX WRENCH SET

Item #: BW-3332R

• Weight (lbs): 4.02



Contents	Size (mm)	Overall Length (in)
BW-0809R	8 X 9 mm	5
BW-1011R	10 X 11 mm	5-7/8
BW-1213R	12 X 13 mm	6-5/8
BW-1415R	14 X 15 mm	7-1/2
BW-1618R	16 X 18 mm	8-1/4
BW-1719R	17 X 19 mm	9

REVERSIBLE DOUBLE BOX WRENCH



Size (in)	Box-End Width 1 (in)	Box-End Thickness 1 (in)	Box-End Width 2 (in)	Box-End Thickness 2 (in)	Overall Length (in)	Weight (lbs)	Item No.
5/16 X 3/8	39/64	1/4	25/32	9/32	5	0.12	BW-0516R
7/16 X 1/2	57/64	19/64	61/64	11/32	6-1/2	0.26	BW-0716R
9/16 X 5/8	1-3/64	23/64	1-11/64	25/64	7-1/2	0.33	BW-0916R
11/16 X 3/4	1-1/4	13/32	1-5/16	7/16	9	0.49	BW-1116R

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REVERSIBLE DOUBLE BOX WRENCH - METRIC



Size (mm)	Box-End Width 1 (in)	Box-End Thickness 1 (in)	Box-End Width 2 (in)	Box-End Thickness 2 (in)	Overall Length (in)	Weight (lbs)	Item No.
8 X 9 mm	39/64	1/4	3/4	17/64	5	0.12	BW-0809R
10 X 11 mm	25/32	9/32	55/64	5/16	5-7/8	0.19	BW-1011R
12 X 13 mm	57/64	21/64	31/32	11/32	6-5/8	0.26	BW-1213R
14 X 15 mm	1-3/64	23/64	1-5/32	3/8	7-1/2	0.33	BW-1415R
16 X 18 mm	1-9/64	25/64	1-1/8	27/64	8-1/4	0.4	BW-1618R
17 X 19 mm	1-21/64	13/32	1-21/64	7/16	9	0.49	BW-1719R

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REVERSIBLE DOUBLE BOX RATCHETING WRENCHES

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WRENCHES

LOCKING FLEX-HEAD RATCHETING WRENCHES

8 PIECE LOCKING FLEX-HEAD RATCHETING WRENCH SET

Item #: BW-3251L

• Weight (lbs): 4.35



12 PIECE LOCKING FLEX-HEAD RATCHETING WRENCH SET - METRIC

Item #: BW-3250L

• Weight (lbs): 5.34



Contents	Size (in)	Overall Length (in)
BW-3209L	5/16	5
BW-3210L	3/8	5-3/8
BW-3212L	7/16	5-9/16
BW-3214L	1/2	6
BW-3216L	9/16	6-1/4
BW-3218L	5/8	7
BW-3220L	11/16	7-1/2
BW-3222L	3/4	8-1/2

Contents	Size (mm)	Overall Length (in)
BW-3258L	8 mm	5
BW-3259L	9 mm	5-13/64
BW-3260L	10 mm	5-3/8
BW-3260AL	11 mm	5-1/2
BW-3261L	12 mm	5-25/32
BW-3262L	13 mm	6
BW-3263L	14 mm	6-1/2
BW-3264L	15 mm	6-3/4
BW-3265L	16 mm	7
BW-3266L	17 mm	7-1/2
BW-3267L	18 mm	8
BW-3268L	19 mm	8-1/2

LOCKING FLEX-HEAD RATCHETING WRENCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
5/16	19/32	11/64	41/64	17/64	5	0.16	BW-3209L
3/8	13/16	13/64	7/8	9/32	5-3/8	0.17	BW-3210L
7/16	57/64	13/64	27/32	5/16	5-9/16	0.19	BW-3212L
1/2	1-1/16	1-15/64	1-3/32	11/32	6	0.2	BW-3214L
9/16	1-9/64	1/4	1-1/16	23/64	6-1/4	0.29	BW-3216L
5/8	1-5/16	19/64	1-3/16	25/64	7	0.33	BW-3218L
11/16	1-25/64	19/64	13/32	1-7/32	7-1/2	0.46	BW-3220L
3/4	1-35/64	11/32	1-21/64	7/16	8-1/2	0.57	BW-3222L

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LOCKING FLEX-HEAD RATCHETING WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
8 mm	41/64	5/32	21/32	17/64	5	0.13	BW-3258L
9 mm	47/64	3/32	47/64	9/32	5-13/64	0.16	BW-3259L
10 mm	13/16	13/64	51/64	9/32	5-3/8	0.16	BW-3260L
11 mm	57/64	13/64	55/64	5/16	5-1/2	0.17	BW-3260AL
12 mm	63/64	15/64	57/64	21/64	5-25/32	0.19	BW-3261L
13 mm	1-1/16	15/64	1	11/32	6	0.19	BW-3262L
14 mm	1-9/64	17/64	1-3/64	23/64	6-1/2	0.21	BW-3263L
15 mm	1-3/16	1/4	1-3/32	3/8	6-3/4	0.25	BW-3264L
16 mm	1-21/64	5/16	1-11/64	25/64	7	0.3	BW-3265L
17 mm	1-25/64	19/64	1-1/4	13/32	7-1/2	0.33	BW-3266L
18 mm	1-15/32	21/64	1-9/32	27/64	8	0.36	BW-3267L
19 mm	1-35/64	11/32	1-21/64	7/16	8-1/2	0.45	BW-3268L

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9 PIECE STUBBY REVERSIBLE RATCHETING WRENCH SET

Item #: BW-2250R

• Weight (lbs): 2.2



Contents	Size (in)	Overall Length (in)
BW-2206R	1/4	3-1/8
BW-2208R	5/16	3-1/2
BW-2210R	3/8	3-3/4
BW-2212R	7/16	4
BW-2214R	1/2	4-1/4
BW-2216R	9/16	4-1/2
BW-2218R	5/8	4-7/8
BW-2220R	11/16	5
BW-2222R	3/4	5-1/2

13 PIECE STUBBY REVERSIBLE RATCHETING WRENCH SET - METRIC

Item #: BW-2251R

• Weight (lbs): 3.43



Contents	Size (mm)	Overall Length (in)
BW-2276R	6 mm	3-1/2
BW-2278R	8 mm	3-1/2
BW-2279R	9 mm	3-3/4
BW-2260R	10 mm	3-3/4
BW-2262R	12 mm	4-1/4
BW-2261R	11 mm	4
BW-2263R	13 mm	4-1/4
BW-2264R	14 mm	4-1/2
BW-2265R	15 mm	4-11/16
BW-2266R	16 mm	4-7/8
BW-2267R	17 mm	5
BW-2268R	18 mm	5-5/32
BW-2269R	19 mm	5-1/2

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WRENCHES

RATCHETING WRENCHES



STUBBY REVERSIBLE RATCHETING WRENCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
1/4	37/64	9/64	9/16	1/4	3-1/8	0.06	BW-2206R
5/16	41/64	5/32	21/32	1/4	3-1/2	0.08	BW-2208R
3/8	13/16	11/64	25/32	9/32	3-3/4	0.11	BW-2210R
7/16	29/32	3/16	55/64	19/64	4	0.12	BW-2212R
1/2	1-1/16	7/32	63/64	11/32	4-1/4	0.16	BW-2214R
9/16	1-9/64	15/64	1-1/32	23/64	4-1/2	0.18	BW-2216R
5/8	1-5/16	9/32	1-11/64	25/64	4-7/8	0.24	BW-2218R
11/16	1-13/32	17/64	1-15/64	13/32	5	0.27	BW-2220R
3/4	1-9/16	5/16	1-5/16	7/16	5-1/2	0.36	BW-2222R

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STUBBY REVERSIBLE RATCHETING WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
6 mm	37/64	9/64	9/16	1/4	3-1/2	0.06	BW-2276R
8 mm	41/64	5/32	21/32	17/64	3-1/2	0.08	BW-2278R
9 mm	23/32	11/64	47/64	17/64	3-3/4	0.09	BW-2279R
10 mm	13/16	3/16	51/64	9/32	3-3/4	0.10	BW-2260R
11 mm	29/32	13/64	55/64	19/64	4	0.14	BW-2261R
12 mm	31/32	7/32	29/32	21/64	4-1/4	0.15	BW-2262R
13 mm	1-1/16	7/32	63/64	11/32	4-1/4	0.18	BW-2263R
14 mm	1-9/64	15/64	1-1/32	23/64	4-1/2	0.21	BW-2264R
15 mm	1-7/32	1/4	1-3/32	3/8	4-11/16	0.24	BW-2265R
16 mm	1-5/16	17/64	1-5/32	25/64	4-7/8	0.33	BW-2266R
17 mm	1-13/32	15/64	1-1/4	13/32	5	0.38	BW-2267R
18 mm	1-7/16	5/16	1-1/4	7/16	5-5/32	0.41	BW-2268R
19 mm	1-9/16	5/16	1-5/16	7/16	5-1/2	0.47	BW-2269R

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WRENCHES

4BOX™ RATCHETING WRENCH SETS

5 PIECE 4BOX™ RATCHETING WRENCH SET - INCH & METRIC

Item #: 97009

• Weight (lbs): 1.79



Contents	Size	Overall Length (in)
BW-1340M	8, 9, 10, 11 mm	5-7/8
BW-1341	5/16, 3/8, 7/16, 1/2	6
BW-1342M	12, 13, 14, 15 mm	7-1/2
BW-1343	9/16, 5/8, 11/16, 3/4	9-1/8
BW-1344M	16, 17, 18, 19 mm	9-1/8

3 PIECE 4BOX™ RATCHETING WRENCH SET - METRIC

Item #: 97007

• Weight (lbs): 1.04



Contents	Size (mm)	Overall Length (in)
BW-1340M	8, 9, 10, 11 mm	5-7/8
BW-1342M	12, 13, 14, 15 mm	7-1/2
BW-1344M	16, 17, 18, 19 mm	9-1/8

2 PIECE 4BOX™ RATCHETING WRENCH SET - INCH

Item #: 97008

• Weight (lbs): 0.75



Contents	Size (in)	Overall Length (in)
BW-1341	5/16, 3/8, 7/16, 1/2	6
BW-1343	9/16, 5/8, 11/16, 3/4	9-1/8





4BOX™ RATCHETING WRENCH - INCH

- Ideal for situations where weight is a concern. Four sizes per wrench. High polish double nickel chrome finish. Reverse ratcheting 5-degree mechanism.



Size (in)	Box-End Width 1 (in)	Box-End Thickness 1 (in)	Box-End Width 2(in)	Box-End Thickness 2 (in)	Overall Length (in)	Weight (lbs)	Item No.
5/16, 3/8, 7/16, 1/2	13/16	35/64	63/64	21/32	6	0.21	BW-1341
9/16, 5/8, 11/16, 3/4	1-15/64	49/64	1-21/64	55/64	9-1/8	0.54	BW-1343

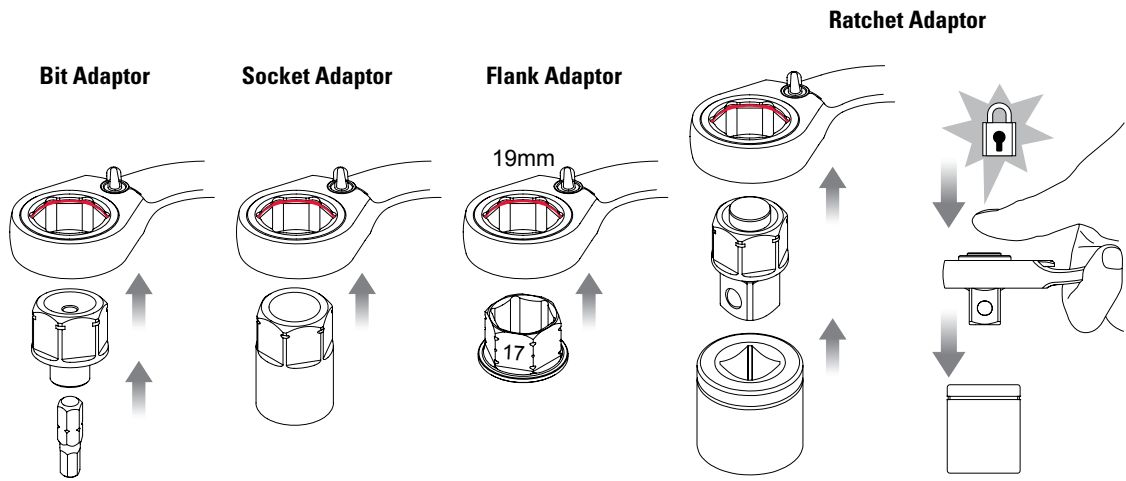
4BOX™ RATCHETING WRENCH - METRIC

- Ideal for situations where weight is a concern. Four sizes per wrench. High polish double nickel chrome finish. Reverse ratcheting 5-degree mechanism.



Size (mm)	Box-End Width 1 (in)	Box-End Thickness 1 (in)	Box-End Width 2 (in)	Box-End Thickness 2 (in)	Overall Length (in)	Weight (lbs)	Item No.
8, 9, 10, 11 mm	51/64	35/64	55/64	37/64	5-7/8	0.16	BW-1340M
12, 13, 14, 15 mm	1-3/64	43/64	1-9/64	45/64	7-1/2	0.34	BW-1342M
16, 17, 18, 19 mm	1-21/64	1-51/64	1-5/16	55/64	9-1/8	0.54	BW-1344M





OBSTACLE RATCHETING WRENCH SET - SAE
Item #: BWO-1220

- 13 Piece Fractional. Flank adaptors insert into box to change size. Reverse ratcheting mechanism. Socket & bit adaptors included.
- Weight (lbs): 2.18

OBSTACLE RATCHETING WRENCH SET - METRIC
Item #: BWO-1220M

- 14 Piece Metric. Flank adaptors insert into box to change size. Reverse ratcheting mechanism. Socket & bit adaptors included.
- Weight (lbs): 2.18



Contents	Size (in)
S Type Wrench	14mm x 19mm/3/4"
Flank Adapters	3/8, 7/16, 1/2, 9/16, 5/8, 11/16" (6 Point)
Bit Adapters	10mm and 1/4" (6 Point); 7/8" (Spline)
Ratchet Bit Adapters	1/4, 3/8, 1/2" Drive

Contents	Size (mm)
S Type Wrench	14mm x 19mm/3/4"
Flank Adapters	10, 11, 12, 13, 15, 16, 17mm (6 Point)
Bit Adapters	10mm and 1/4" (6 Point); 22mm (Spline)
Ratchet Bit Adapters	1/4, 3/8, 1/2" Drive





18 PIECE FULL POLISH STANDARD & METRIC COMBINATION WRENCH SET

Item #: BW-9718NB

• Weight (lbs): 11.00



Contents	Size	Overall Length (in)
BW-1156FP	1/4	4-1/16
BW-1159FP	5/16	4-7/16
BW-1160FP	3/8	5-1/4
BW-1161FP	7/16	5-7/8
BW-1162FP	1/2	8-1/2
BW-1163FP	9/16	7-1/4
BW-1164FP	5/8	8
BW-1165FP	11/16	8-13/16
BW-1166FP	3/4	8-13/16
BW-1110MFP	10 mm	5-1/4
BW-1111MFP	11 mm	5-7/8
BW-1112MFP	12 mm	6-3/16
BW-1113MFP	13 mm	6-1/2
BW-1114MFP	14 mm	7-1/4
BW-1115MFP	15 mm	7-5/8
BW-1116MFP	16 mm	8
BW-1117MFP	17 mm	8-13/16
BW-1118MFP	18 mm	8-13/16

14 PIECE FULL POLISH COMBINATION WRENCH SET

Item #: BW-14PT

• Weight (lbs): 9.9



Contents	Size (in)	Overall Length (in)
BW-1167AFP	13/16	11-11/16
BW-1167FP	7/8	11-11/16
BW-1168FP	15/16	12-11/16
BW-1170FP	1	13-9/16
BW-1172FP	1-1/8	15-5/8
BW-1173FP	1-1/4	16-15/16
BW-1159FP	5/16	4-7/16
BW-1160FP	3/8	5-1/4
BW-1161FP	7/16	5-7/8
BW-1162FP	1/2	8-1/2
BW-1163FP	9/16	7-1/4
BW-1164FP	5/8	8
BW-1165FP	11/16	8-13/16
BW-1166FP	3/4	8-13/16



14 PIECE FULL POLISH METRIC COMBINATION WRENCH SET

Item #: BW-14MPT

• Weight (lbs): 9.0



Contents	Size (mm)	Overall Length (in)
BW-1107MFP	7 mm	4-5/16
BW-1108MFP	8 mm	4-7/16
BW-1109MFP	9 mm	4-7/8
BW-1119MFP	19 mm	9-3/4
BW-1120MFP	20 mm	9-3/4
BW-1110MFP	10 mm	5-1/4
BW-1111MFP	11 mm	5-7/8
BW-1112MFP	12 mm	6-3/16
BW-1113MFP	13 mm	6-1/2
BW-1114MFP	14 mm	7-1/4
BW-1115MFP	15 mm	7-5/8
BW-1116MFP	16 mm	8
BW-1117MFP	17 mm	8-13/16
BW-1118MFP	18 mm	8-13/16

11 PIECE FULL POLISH COMBINATION WRENCH SET

Item #: BW-11PT

• Weight (lbs): 8.7



Contents	Size (in)	Overall Length (in)
BW-1160FP	3/8	5-1/4
BW-1161FP	7/16	5-7/8
BW-1162FP	1/2	8-1/2
BW-1163FP	9/16	7-1/4
BW-1164FP	5/8	8
BW-1165FP	11/16	8-13/16
BW-1166FP	3/4	8-13/16
BW-1167AFP	13/16	11-11/16
BW-1167FP	7/8	11-11/16
BW-1168FP	15/16	12-11/16
BW-1170FP	1	13-9/16

11 PIECE METRIC FULL POLISH COMBINATION WRENCH SET

Item #: BW-11P

• Weight (lbs): 8.7



Contents	Size (mm)	Overall Length (in)
BW-1107MFP	7 mm	4-5/16
BW-1109MFP	9 mm	4-7/8
BW-1110MFP	10 mm	5-1/4
BW-1111MFP	11 mm	5-7/8
BW-1112MFP	12 mm	6-3/16
BW-1113MFP	13 mm	6-1/2
BW-1114MFP	14 mm	7-1/4
BW-1115MFP	15 mm	7-5/8
BW-1117MFP	17 mm	8-13/16
BW-1118MFP	18 mm	8-13/16
BW-1119MFP	19 mm	9-3/4

9 PIECE FULL POLISH COMBINATION WRENCH SET

Item #: 9609PNB

• Weight (lbs): 6.8



Contents	Size (in)	Overall Length (in)
BW-1156FP	1/4	4-1/16
BW-1159FP	5/16	4-7/16
BW-1160FP	3/8	5-1/4
BW-1161FP	7/16	5-7/8
BW-1162FP	1/2	8-1/2
BW-1163FP	9/16	7-1/4
BW-1164FP	5/8	8
BW-1165FP	11/16	8-13/16
BW-1166FP	3/4	8-13/16





WRENCHES

COMBINATION WRENCHES

9 PIECE METRIC FULL POLISH COMBINATION WRENCH SET

Item #: 9609MNB

• Weight (lbs): 6.8



Contents	Size (mm)	Overall Length (in)
BW-1110MFP	10 mm	5-1/4
BW-1111MFP	11 mm	5-7/8
BW-1112MFP	12 mm	6-3/16
BW-1113MFP	13 mm	6-1/2
BW-1114MFP	14 mm	7-1/4
BW-1115MFP	15 mm	7-5/8
BW-1116MFP	16 mm	8
BW-1117MFP	17 mm	8-13/16
BW-1118MFP	18 mm	8-13/16

FULL POLISH COMBINATION WRENCH - INCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
1/4	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1156FP
5/16	9/16	5/16	13/16	3/16	4-7/16	0.06	BW-1159FP
3/8	11/16	5/16	7/8	3/16	5-1/4	0.11	BW-1160FP
7/16	3/4	5/16	1	1/4	5-7/8	0.13	BW-1161FP
1/2	13/16	3/8	1-1/8	1/4	8-1/2	0.2	BW-1162FP
9/16	7/8	3/8	1-1/4	5/16	7-1/4	0.2	BW-1163FP
5/8	3	7/16	1-3/8	5/16	8	0.3	BW-1164FP
11/16	1-1/16	7/16	3-9/16	5/16	8-13/16	0.3	BW-1165FP
3/4	1-3/16	1/2	1-5/8	3/8	8-13/16	0.6	BW-1166FP
13/16	1-3/8	9/16	1-7/8	3/8	11-11/16	0.6	BW-1167AFP
7/8	1-3/8	9/16	1-7/8	3/8	11-11/16	0.65	BW-1167FP
15/16	7-7/16	9/16	2	7/16	12-11/16	0.7	BW-1168FP
1	1-1/2	5/8	2-1/8	7/16	13-9/16	0.8	BW-1170FP
1-1/16	1-5/8	5/8	2-1/4	1/2	14-13/16	0.9	BW-1171FP
1-1/8	1-3/4	11/16	2-5/16	1/2	15-5/8	1.1	BW-1172FP
1-1/4	1-7/8	3/4	2-5/8	9/16	16-15/16	1.4	BW-1173FP
1-5/16	1-7/8	3/4	2-11/16	9/16	17-13/16	2.1	BW-1174FP
1-3/8	2	3/4	2-13/16	9/16	18-11/16	2.7	BW-1175FP
1-7/16	2-1/16	13/16	2-15/16	9/16	19-9/16	2.5	BW-1176FP
1-1/2	2-3/16	13/16	3-1/16	5/8	20-7/16	3.4	BW-1177FP

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FULL POLISH COMBINATION WRENCH - METRIC

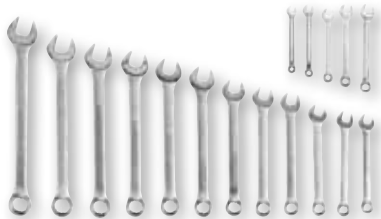


Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
6 mm	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1106MFP
7 mm	1/2	1/4	11/16	3/16	4-5/16	0.05	BW-1107MFP
8 mm	9/16	5/16	13/16	3/16	4-7/16	0.07	BW-1108MFP
9 mm	11/16	5/16	7/8	3/16	4-7/8	0.09	BW-1109MFP
10 mm	11/16	5/16	7/8	3/16	5-1/4	0.1	BW-1110MFP
11 mm	3/4	5/16	63/64	1/4	5-7/8	0.14	BW-1111MFP
12 mm	3/4	3/8	1-1/16	1/4	6-3/16	0.14	BW-1112MFP
13 mm	13/16	3/8	1-1/8	1/4	6-1/2	0.2	BW-1113MFP
14 mm	1-1/4	3/8	1-1/4	5/16	7-1/4	0.25	BW-1114MFP
15 mm	15/16	3/8	1-5/16	5/16	7-5/8	0.29	BW-1115MFP
16 mm	1	7/16	1-3/8	5/16	8	0.37	BW-1116MFP
17 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.37	BW-1117MFP
18 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.45	BW-1118MFP
19 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.47	BW-1119MFP
20 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.53	BW-1120MFP
21 mm	1-1/4	1/2	1-3/4	3/8	10-3/4	0.65	BW-1121MFP
22 mm	1-3/8	9/16	1-7/8	3/8	11-11/16	0.75	BW-1122MFP
24 mm	1-7/16	9/16	2	7/16	12-11/16	0.92	BW-1124MFP
25 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1.05	BW-1125MFP
26 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1	BW-1126MFP
27 mm	1-5/8	5/8	2-1/4	1/2	14-13/16	1.35	BW-1127MFP
28 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1128MFP
30 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1130MFP
32 mm	1-7/8	3/4	2-5/8	9/16	15-15/16	2.08	BW-1132MFP

17 PIECE SATIN FINISH COMBINATION WRENCH SET

Item #: MF-017

• Weight (lbs): 10.5



Contents	Size (in)	Overall Length (in)
BW-1156	1/4	4-1/16
BW-1159	5/16	4-7/16
BW-1160	3/8	5-1/4
BW-1161	7/16	5-7/8
BW-1162	1/2	6-1/2
BW-1163	9/16	7-1/4
BW-1164	5/8	8
BW-1165	11/16	8-13/16
BW-1166	3/4	8-13/16
BW-1167A	13/16	11-11/16
BW-1167	7/8	11-11/16
BW-1168	15/16	12-11/16
BW-1170	1	13-9/16
BW-1171	1-1/16	14-13/16
BW-1172	1-1/8	15-5/8
BW-1173	1-1/4	16-15/16
BW-1174	1-5/16	17-13/16

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Blackhawk™ by Proto® not available in all countries.

WRENCHES

COMBINATION WRENCHES

100





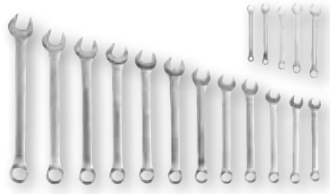
WRENCHES

COMBINATION WRENCH SETS

17 PIECE METRIC SATIN FINISH COMBINATION WRENCH SET

Item #: MF-017M

• Weight (lbs): 10.5



Contents	Size (mm)	Overall Length (in)
BW-1106M	6 mm	4-1/16
BW-1107M	7 mm	4-5/16
BW-1108M	8 mm	4-7/16
BW-1109M	9 mm	4-7/8
BW-1110M	10 mm	5-1/4
BW-1111M	11 mm	5-7/8
BW-1112M	12 mm	6-3/16
BW-1113M	13 mm	6-1/2
BW-1114M	14 mm	7-1/4
BW-1115M	15 mm	7-5/8
BW-1116M	16 mm	8
BW-1117M	17 mm	8-13/16
BW-1118M	18 mm	8-13/16
BW-1119M	19 mm	9-3/4
BW-1120M	20 mm	9-3/4
BW-1121M	21 mm	10-3/4
BW-1122M	22 mm	11-11/16

14 PIECE SATIN FINISH COMBINATION WRENCH SET

Item #: MF-014

• Weight (lbs): 9.0



Contents	Size (in)	Overall Length (in)
BW-1159	5/16	4-7/16
BW-1160	3/8	5-1/4
BW-1161	7/16	5-7/8
BW-1162	1/2	6-1/2
BW-1163	9/16	7-1/4
BW-1164	5/8	8
BW-1165	11/16	8-13/16
BW-1166	3/4	8-13/16
BW-1167	7/8	11-11/16
BW-1167A	13/16	11-11/16
BW-1168	15/16	12-11/16
BW-1170	1	13-9/16
BW-1172	1-1/8	15-5/8
BW-1173	1-1/4	16-15/16

11 PIECE SATIN FINISH COMBINATION WRENCH SET

Item #: MF-011

• Weight (lbs): 4.0



Contents	Size (in)	Overall Length (in)
BW-1156	1/4	4-1/16
BW-1160	3/8	5-1/4
BW-1161	7/16	5-7/8
BW-1162	1/2	6-1/2
BW-1163	9/16	7-1/4
BW-1164	5/8	8
BW-1165	11/16	8-13/16
BW-1166	3/4	8-13/16
BW-1167	7/8	11-11/16
BW-1167A	13/16	11-11/16
BW-1168	15/16	12-11/16

11 PIECE METRIC SATIN FINISH COMBINATION WRENCH SET

Item #: MF-011M

• Weight (lbs): 2.4



Contents	Size (mm)	Overall Length (in)
BW-1106M	6 mm	4-1/16
BW-1107M	7 mm	4-5/16
BW-1108M	8 mm	4-7/16
BW-1109M	9 mm	4-7/8
BW-1110M	10 mm	5-1/4
BW-1111M	11 mm	5-7/8
BW-1112M	12 mm	6-3/16
BW-1113M	13 mm	6-1/2
BW-1114M	14 mm	7-1/4
BW-1115M	15 mm	7-5/8
BW-1116M	16 mm	8



8 PIECE METRIC SATIN FINISH COMBINATION WRENCH SET

Item #: MF-008M

• Weight (lbs): 1.9



Contents	Size (mm)	Overall Length (in)
BW-1108M	8 mm	4-7/16
BW-1109M	9 mm	4-7/8
BW-1110M	10 mm	5-1/4
BW-1111M	11 mm	5-7/8
BW-1112M	12 mm	6-3/16
BW-1114M	14 mm	7-1/4
BW-1117M	17 mm	8-13/16
BW-1119M	19 mm	9-3/4

8 PIECE SATIN FINISH COMBINATION WRENCH SET

Item #: MF-008

• Weight (lbs): 2.0



Contents	Size (in)	Overall Length (in)
BW-1156	1/4	4-1/16
BW-1159	5/16	4-7/16
BW-1160	3/8	5-1/4
BW-1161	7/16	5-7/8
BW-1162	1/2	6-1/2
BW-1163	9/16	7-1/4
BW-1164	5/8	8
BW-1166	3/4	8-13/16

6 PIECE SATIN FINISH COMBINATION WRENCH SET

Item #: MF-006

• Weight (lbs): 1.7



Contents	Size (in)	Overall Length (in)
BW-1160	3/8	5-1/4
BW-1161	7/16	5-7/8
BW-1162	1/2	6-1/2
BW-1163	9/16	7-1/4
BW-1164	5/8	8
BW-1166	3/4	8-13/16

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WRENCHES

COMBINATION WRENCH SETS



SATIN FINISH COMBINATION WRENCH - INCH



WRENCHES

COMBINATION WRENCHES

Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
1/4	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1156
5/16	9/16	5/16	13/16	3/16	4-7/16	0.06	BW-1159
3/8	11/16	5/16	7/8	3/16	5-1/4	0.11	BW-1160
7/16	3/4	5/16	1	1/4	5-7/8	0.13	BW-1161
1/2	13/16	3/8	1-1/8	1/4	6-1/2	0.18	BW-1162
9/16	7/8	3/8	1-1/4	5/16	7-1/4	0.25	BW-1163
5/8	1	7/16	1-3/8	5/16	8	0.3	BW-1164
11/16	1-1/16	7/16	1-9/16	5/16	8-13/16	0.39	BW-1165
3/4	1-3/16	1/2	1-5/8	3/8	8-13/16	0.47	BW-1166
13/16	1-3/8	9/16	1-7/8	3/8	11-11/16	0.66	BW-1167A
7/8	1-3/8	9/16	1-7/8	3/8	11-11/16	0.78	BW-1167
15/16	7-7/16	9/16	2	7/16	12-11/16	0.94	BW-1168
1	1-1/2	5/8	2-1/8	7/16	13-9/16	1.02	BW-1170
1-1/16	1-5/8	5/8	2-1/4	1/2	14-13/16	1.29	BW-1171
1-1/8	1-3/4	11/16	2-5/16	1/2	15-5/8	1.57	BW-1172
1-1/4	1-7/8	3/4	2-5/8	9/16	16-15/16	1.91	BW-1173
1-5/16	1-7/8	3/4	2-45/64	9/16	17-13/16	2.61	BW-1174
1-3/8	2	3/4	2-13/16	9/16	18-11/16	2.63	BW-1175
1-7/16	2-1/16	13/16	2-15/16	9/16	19-9/16	3.45	BW-1176
1-1/2	2-3/16	13/16	3-1/16	5/8	20-7/16	3.43	BW-1177

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SATIN FINISH COMBINATION WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
6 mm	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1106M
7 mm	1/2	1/4	11/16	3/16	4-5/16	0.05	BW-1107M
8 mm	9/16	5/16	13/16	3/16	4-7/16	0.07	BW-1108M
9 mm	11/16	5/16	7/8	3/16	4-7/8	0.09	BW-1109M
10 mm	11/16	5/16	7/8	3/16	5-1/4	0.1	BW-1110M
11 mm	3/4	5/16	63/64	1/4	5-7/8	0.14	BW-1111M
12 mm	3/4	3/8	1-1/16	1/4	6-3/16	0.14	BW-1112M
13 mm	13/16	3/8	1-1/8	1/4	6-1/2	0.2	BW-1113M
14 mm	1-1/4	3/8	1-1/4	5/16	7-1/4	0.25	BW-1114M
15 mm	15/16	3/8	1-5/16	5/16	7-5/8	0.29	BW-1115M
16 mm	1	7/16	1-3/8	5/16	8	0.37	BW-1116M
17 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.37	BW-1117M
18 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.45	BW-1118M
19 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.47	BW-1119M
20 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.53	BW-1120M
21 mm	1-1/4	1/2	1-3/4	3/8	10-3/4	0.65	BW-1121M
22 mm	1-3/8	9/16	1-7/8	3/8	11-11/16	0.75	BW-1122M
24 mm	1-7/16	9/16	2	7/16	12-11/16	0.92	BW-1124M
25 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1.05	BW-1125M
26 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1	BW-1126M
27 mm	1-5/8	5/8	2-1/4	1/2	14-13/16	1.35	BW-1127M
28 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1128M
30 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1130M
32 mm	1-7/8	3/4	2-5/8	9/16	15-15/16	2.08	BW-1132M

WRENCHES

COMBINATION WRENCHES





WRENCHES

COMBINATION WRENCH SETS

14 PIECE BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-014**

• Weight (lbs): 11.0



Contents	Size (in)	Overall Length (in)
BW-1160B	3/8	5-1/4
BW-1161B	7/16	5-7/8
BW-1162B	1/2	7-1/2
BW-1163B	9/16	7-1/4
BW-1164B	5/8	8
BW-1165B	11/16	8-13/16
BW-1166B	3/4	8-13/16
BW-1167AB	13/16	11-11/16
BW-1167B	7/8	11-11/16
BW-1168B	15/16	12-11/16
BW-1170B	1	13-9/16
BW-1171B	1-1/16	14-13/16
BW-1172B	1-1/8	15-5/8
BW-1173B	1-1/4	16-15/16

14 PIECE METRIC BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-014M**

• Weight (lbs): 11.0



Contents	Size (mm)	Overall Length (in)
BW-1107MB	7 mm	4-5/16
BW-1108MB	8 mm	4-7/16
BW-1109MB	9 mm	4-7/8
BW-1110MB	10 mm	5-1/4
BW-1111MB	11 mm	5-7/8
BW-1112MB	12 mm	6-3/16
BW-1113MB	13 mm	6-1/2
BW-1114MB	14 mm	7-1/4
BW-1115MB	15 mm	7-5/8
BW-1116MB	16 mm	8
BW-1117MB	17 mm	8-13/16
BW-1118MB	18 mm	8-13/16
BW-1119MB	19 mm	9-3/4
BW-1120MB	20 mm	9-3/4

9 PIECE BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-009**

• Weight (lbs): 1.9



Contents	Size (in)	Overall Length (in)
BW-1156B	1/4	4-1/16
BW-1159B	5/16	4-7/16
BW-1160B	3/8	5-1/4
BW-1161B	7/16	5-7/8
BW-1162B	1/2	7-1/2
BW-1163B	9/16	7-1/4
BW-1164B	5/8	8
BW-1165B	11/16	8-13/16
BW-1166B	3/4	8-13/16

9 PIECE METRIC BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-009M**

• Weight (lbs): 1.9



Contents	Size (mm)	Overall Length (in)
BW-1110MB	10 mm	5-1/4
BW-1111MB	11 mm	5-7/8
BW-1112MB	12 mm	6-3/16
BW-1113MB	13 mm	6-1/2
BW-1114MB	14 mm	7-1/4
BW-1115MB	15 mm	7-5/8
BW-1116MB	16 mm	8
BW-1117MB	17 mm	8-13/16
BW-1118MB	18 mm	8-13/16





WRENCHES

COMBINATION WRENCHES

6 PIECE BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-006**

• Weight (lbs): 1.0



Contents	Size (in)	Overall Length (in)
BW-1160B	3/8	5-1/4
BW-1161B	7/16	5-7/8
BW-1162B	1/2	7-1/2
BW-1163B	9/16	7-1/4
BW-1164B	5/8	8
BW-1166B	3/4	8-13/16

6 PIECE METRIC BLACK FINISH COMBINATION WRENCH SET

Item #: **BL-006M**

• Weight (lbs): 1.0



Contents	Size (mm)	Overall Length (in)
BW-1110MB	10 mm	5-1/4
BW-1111MB	11 mm	5-7/8
BW-1112MB	12 mm	6-3/16
BW-1113MB	13 mm	6-1/2
BW-1114MB	14 mm	7-1/4
BW-1115MB	15 mm	7-5/8

BLACK FINISH COMBINATION WRENCH - INCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
1/4	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1156B
5/16	9/16	5/16	13/16	3/16	4-7/16	0.06	BW-1159B
3/8	11/16	5/16	7/8	3/16	5-1/4	0.11	BW-1160B
7/16	3/4	5/16	1	1/4	5-7/8	0.13	BW-1161B
1/2	13/16	3/8	1-1/8	1/4	7-1/2	0.18	BW-1162B
9/16	7/8	3/8	1-1/4	5/16	7-1/4	0.25	BW-1163B
5/8	2	7/16	1-3/8	5/16	8	0.3	BW-1164B
11/16	1-1/16	7/16	2-9/16	5/16	8-13/16	0.39	BW-1165B
3/4	1-3/16	1/2	1-5/8	3/8	8-13/16	0.47	BW-1166B
13/16	1-3/8	9/16	1-7/8	3/8	11-11/16	0.66	BW-1167AB
7/8	1-3/8	9/16	1-7/8	3/8	11-11/16	0.78	BW-1167B
15/16	7-7/16	9/16	2	7/16	12-11/16	0.94	BW-1168B
1	1-1/2	5/8	2-1/8	7/16	13-9/16	1.02	BW-1170B
1-1/16	1-5/8	5/8	2-1/4	1/2	14-13/16	1.29	BW-1171B
1-1/8	1-3/4	11/16	2-5/16	1/2	15-5/8	1.57	BW-1172B
1-1/4	1-7/8	3/4	2-5/8	9/16	16-15/16	1.91	BW-1173B
1-5/16	1-7/8	3/4	2-11/16	9/16	17-13/16	2.61	BW-1174B
1-3/8	2	3/4	2-13/16	9/16	18-11/16	2.63	BW-1175B
1-7/16	2-1/16	13/16	2-15/16	9/16	19-9/16	3.45	BW-1176B
1-1/2	2-3/16	13/16	3-1/16	5/8	20-7/16	3.43	BW-1177B

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BLACK FINISH COMBINATION WRENCH - METRIC



WRENCHES

COMBINATION WRENCHES

Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
6 mm	1/2	1/4	5/8	3/16	4-1/16	0.04	BW-1106MB
7 mm	1/2	1/4	11/16	3/16	4-5/16	0.05	BW-1107MB
8 mm	9/16	5/16	13/16	3/16	4-7/16	0.07	BW-1108MB
9 mm	11/16	5/16	7/8	3/16	4-7/8	0.09	BW-1109MB
10 mm	11/16	5/16	7/8	3/16	5-1/4	0.1	BW-1110MB
11 mm	3/4	5/16	63/64	1/4	5-7/8	0.14	BW-1111MB
12 mm	3/4	3/8	1-1/16	1/4	6-3/16	0.14	BW-1112MB
13 mm	13/16	3/8	1-1/8	1/4	6-1/2	0.2	BW-1113MB
14 mm	1-1/4	3/8	1-1/4	5/16	7-1/4	0.25	BW-1114MB
15 mm	15/16	3/8	1-5/16	5/16	7-5/8	0.29	BW-1115MB
16 mm	1	7/16	1-3/8	5/16	8	0.37	BW-1116MB
17 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.37	BW-1117MB
18 mm	1-1/16	7/16	1-9/16	5/16	8-13/16	0.45	BW-1118MB
19 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.47	BW-1119MB
20 mm	1-3/16	1/2	1-5/8	3/8	9-3/4	0.53	BW-1120MB
21 mm	1-1/4	1/2	1-3/4	3/8	10-3/4	0.65	BW-1121MB
22 mm	1-3/8	9/16	1-7/8	3/8	11-11/16	0.75	BW-1122MB
24 mm	1-7/16	9/16	2	7/16	12-11/16	0.92	BW-1124MB
25 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1.05	BW-1125MB
26 mm	1-1/2	9/16	2-1/8	7/16	13-9/16	1	BW-1126MB
27 mm	1-5/8	5/8	2-1/4	1/2	14-13/16	1.35	BW-1127MB
28 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1128MB
30 mm	3/4	11/16	2-5/16	1/2	15-5/8	1.53	BW-1130MB
32 mm	1-7/8	3/4	2-5/8	9/16	15-15/16	2.08	BW-1132MB





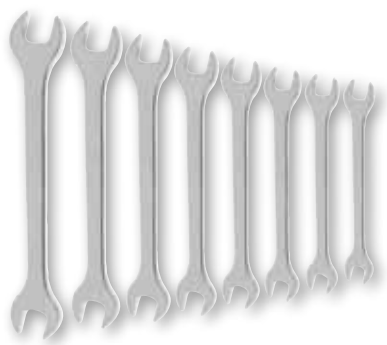
WRENCHES

OPEN-END WRENCHES

8 PIECE OPEN-END WRENCH SET

Item #: BW-108PNB

• Weight (lbs): 2.16

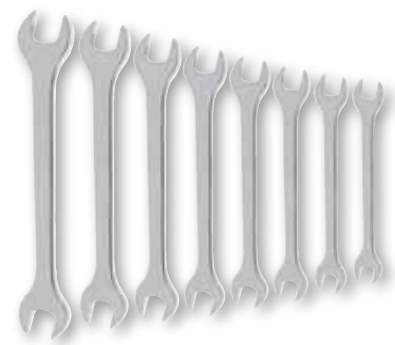


Contents	Size (in)	Overall Length (in)
4020P	1/4 X 5/16	4-1/2
4723P	3/8 X 7/16	5-51/64
4724P	7/16 X 1/2	6-13/32
4725P	1/2 X 9/16	7
4727P	5/8 X 11/16	8-19/64
4728P	11/16 X 3/4	8-29/32
4732P	13/16 X 7/8	10-3/32
4033P	15/16 X 1	11-13/32

8 PIECE METRIC OPEN-END WRENCH SET

Item #: BW-108MNB

• Weight (lbs): 2.16



Contents	Size (mm)	Overall Length (in)
BWE-67MP	6 X 7 mm	4-1/2
BWE-89MP	8 X 9 mm	5-3/32
BWE-1011MP	10 X 11 mm	5-51/64
BWE-1213MP	12 X 13 mm	6-13/32
BWE-1415MP	14 X 15 mm	7-19/32
BWE-1617MP	16 X 17 mm	8-19/64
BWE-1819MP	18 X 19 mm	8-29/32
BWE-2022MP	20 X 22 mm	9-1/2

OPEN-END WRENCH - INCH



Size (in)	Overall Length (in)	Weight (lbs)	Item No.
1/4 X 5/16	4-1/2	0.04	4020P
3/8 X 7/16	5-51/64	0.09	4723P
7/16 X 1/2	6-13/32	0.13	4724P
1/2 X 9/16	7	0.18	4725P
5/8 X 11/16	8-19/64	0.33	4727P
11/16 X 3/4	8-29/32	0.46	4728P
13/16 X 7/8	10-3/32	0.56	4732P
15/16 X 1	11-13/32	0.85	4033P

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OPEN-END WRENCH - METRIC



Size (mm)	Overall Length (in)	Weight (lbs)	Item No.
6 X 7 mm	4-1/2	0.04	BWE-67MP
8 X 9 mm	5-3/32	0.06	BWE-89MP
10 X 11 mm	5-51/64	0.1	BWE-1011MP
12 X 13 mm	6-13/32	0.14	BWE-1213MP
14 X 15 mm	7-19/32	0.28	BWE-1415MP
16 X 17 mm	8-19/64	0.37	BWE-1617MP
18 X 19 mm	8-29/32	0.5	BWE-1819MP
20 X 22 mm	9-1/2	0.77	BWE-2022MP

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10 PIECE OPEN-END IGNITION WRENCH SET

Item #: EW-40NB

• Weight (lbs): 1.90



Contents	Size (in)	Overall Length (in)
3114	13/64 X 15/64	3-13/64
3116	7/32 X 1/4	3-13/64
3118	15/64 X 13/64	3-13/64
3120	1/4 X 7/32	3-13/64
3122	17/64 X 19/64	3-1/2
3124	9/32 X 5/16	3-1/2
3128	5/16 X 9/32	3-1/2
3130	11/32 X 3/8	3-51/64
3132	3/8 X 11/32	3-51/64
3134	7/16 X 1/2	4-1/2

OPEN-END IGNITION WRENCHES



Size (in)	Open-End Width (in)	Overall Length (in)	Weight (lbs)	Item No.
13/64 X 15/64	1-7/64	3-13/64	0.2	3114
7/32 X 1/4	1-7/32	3-13/64	0.2	3116
15/64 X 13/64	1-11/32	3-13/64	0.2	3118
1/4 X 7/32	1-7/32	3-13/64	0.2	3120
17/64 X 19/64	1-21/64	3-1/2	0.3	3122
9/32 X 5/16	1-7/16	3-1/2	0.3	3124
5/16 X 9/32	1-11/16	3-1/2	0.3	3128
11/32 X 3/8	1-51/64	3-51/64	0.4	3130
3/8 X 11/32	1-59/64	3-51/64	0.4	3132
7/16 X 1/2	2-1/64	4-1/2	0.75	3134

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WRENCHES

OPEN-END IGNITION WRENCHES

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6 PIECE LONG BOX-END WRENCH SET

Item #: **BW-6PTNB**

• Weight (lbs): 3.36



Contents	Size (in)	Overall Length (in)
BWS-1202P	5/16 X 3/8	6-61/64
BWS-1206P	7/16 X 1/2	8-1/16
BWS-1211P	9/16 X 5/8	9-29/64
BWS-1214P	11/16 X 3/4	11-3/32
BWS-1216P	13/16 X 7/8	13-1/64
BWS-1218P	15/16 X 1	15-9/64

LONG BOX-END WRENCH



Size (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
5/16 X 3/8	37/64	35/64	6-61/64	0.1	BWS-1202P
7/16 X 1/2	3/4	21/64	8-1/16	0.18	BWS-1206P
1/2 X 9/16	57/64	3/8	8-7/16	0.22	BWS-1210P
9/16 X 5/8	15/16	25/64	9-29/64	0.36	BWS-1211P
11/16 X 3/4	49/64	29/64	11-3/32	0.48	BWS-1214P
13/16 X 7/8	57/64	33/64	13-1/64	0.67	BWS-1216P
15/16 X 1	1-11/64	37/64	15-9/64	1.08	BWS-1218P

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4 PIECE FLARE NUT WRENCH SET

Item #: **FN-4PTNB**

• Weight (lbs): 1.11

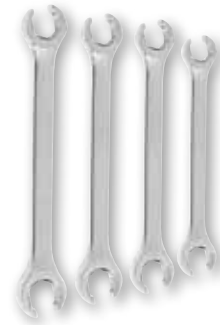


Contents	Size (in)	Overall Length (in)
FN-1402P	3/8 X 7/16	6-5/16
FN-1404P	1/2 X 9/16	7-9/16
FN-1406P	5/8 X 11/16	8-53/64
FN-1410P	3/4 X 1	9-9/32

4 PIECE METRIC FLARE NUT WRENCH SET

Item #: **FN-4MNB**

• Weight (lbs): 1.11



Contents	Size (mm)	Overall Length (in)
FN-1012MP	10 X 12 mm	6-15/16
FN-1314MP	13 X 14 mm	7-9/16
FN-1517MP	15 X 17 mm	8-3/16
FN-1921MP	19 X 21 mm	8-25/32

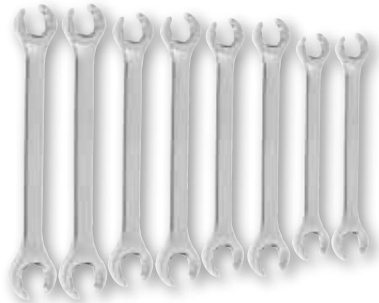




8 PIECE STANDARD AND METRIC FLARE NUT WRENCH SET

Item #: FN-8PTNB

• Weight (lbs): 2.28



Contents	Size	Overall Length (in)
FN-1402P	3/8 X 7/16	6-5/16
FN-1404P	1/2 X 9/16	7-9/16
FN-1406P	5/8 X 11/16	8-53/64
FN-1410P	3/4 X 1	9-9/32
FN-1012MP	10 X 12 mm	6-15/16
FN-1314MP	13 X 14 mm	7-9/16
FN-1517MP	15 X 17 mm	8-3/16
FN-1921MP	19 X 21 mm	8-25/32

FLARE NUT WRENCH - INCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
3/8 X 7/16	13/16	23/64	59/64	25/64	6-5/16	0.17	FN-1402P
1/2 X 9/16	1-1/64	25/64	1-5/64	29/64	7-9/16	0.26	FN-1404P
5/8 X 11/16	1-9/64	29/64	1-15/64	1/2	8-53/64	0.41	FN-1406P
3/4 X 1	1-9/32	33/64	1-19/32	41/64	9-9/32	0.5	FN-1410P

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FLARE NUT WRENCH - METRIC



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Box-End Width (in)	Box-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
9 X 11 mm	13/16	23/64	59/64	25/64	6-5/16	0.12	FN-911MP
10 X 12 mm	55/64	25/64	31/32	25/64	6-15/16	0.22	FN-1012MP
13 X 14 mm	1-1/64	25/64	1-5/64	29/64	7-9/16	0.26	FN-1314MP
15 X 17 mm	1-7/64	29/64	1-3/16	31/64	8-3/16	0.32	FN-1517MP
19 X 21 mm	1-9/32	33/64	1-23/64	35/64	8-25/32	0.49	FN-1921MP

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ADJUSTABLE WRENCH

- Tight tolerance mobile jaw. Laser etched size markings.
- Wide handle for better grip & leverage. Nickel chrome finish.



Open-End Width (in)	Open-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
1-31/64	3/8	4	0.14	AW-1004-2
1-61/64	7/16	6	0.3	AW-1006-2
2-7/16	1/2	8	0.57	AW-1008-2
2-13/16	21/32	10	1.02	AW-1010-2
3-7/32	45/64	12	1.56	AW-1012-2
4-11/64	15/16	15	2.79	AW-1015-2
4-55/64	1-1/16	18	3.82	AW-1018-2
5-9/16	1-17/64	24	7.39	AW-1024-2

AIR CONDITIONING WRENCH



Size (in)	Weight (lbs)	Item No.
1/4" and 3/16" Square Ratchet 1/2" and 9/16" Hex End	0.33	ZW-1045A-A

3/8" DRIVE CROWFOOT WRENCH



Size (in)	Open-End Width (in)	Open-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
3/8	59/64	1/4	1-7/32	0.06	BCF-12
7/16	59/64	1/4	1-3/16	0.06	BCF-14
1/2	1-7/64	1/4	1-11/32	0.07	BCF-16
9/16	1-7/64	1/4	1-5/16	0.08	BCF-18
5/8	1-23/64	1/4	1-33/64	0.09	BCF-20
11/16	1-23/64	1/4	1-31/64	0.1	BCF-22
3/4	1-39/64	1/4	2-11/16	0.11	BCF-24
13/16	1-39/64	1/4	3-11/16	0.11	BCF-26
7/8	1-39/64	1/4	4-11/16	0.12	BCF-28
1	1-11/16	1/4	1-47/64	0.14	BCF-32

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3/8" DRIVE METRIC CROWFOOT WRENCH



Size (mm)	Open-End Width (in)	Open-End Thickness (in)	Overall Length (in)	Weight (lbs)	Item No.
10 mm	59/64	1/4	1-7/32	0.06	BCF-10M
11 mm	59/64	1/4	1-7/32	0.07	BCF-11M
12 mm	1-7/64	1/4	1-11/32	0.07	BCF-12M
13 mm	2-7/64	1/4	1-11/32	0.07	BCF-13M
14 mm	1-7/64	1/4	1-11/32	0.09	BCF-14M
15 mm	1-23/64	1/4	1-33/64	0.09	BCF-15M
16 mm	1-23/64	1/4	1-33/64	0.09	BCF-16M
17 mm	1-23/64	1/4	1-33/64	0.09	BCF-17M
19 mm	1-39/64	1/4	1-11/16	0.11	BCF-19M
21 mm	1-39/64	1/4	1-11/16	0.11	BCF-21M
22 mm	1-39/64	1/4	1-11/16	0.12	BCF-22M

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