

“Click” Type Torque Sensing Wrenches

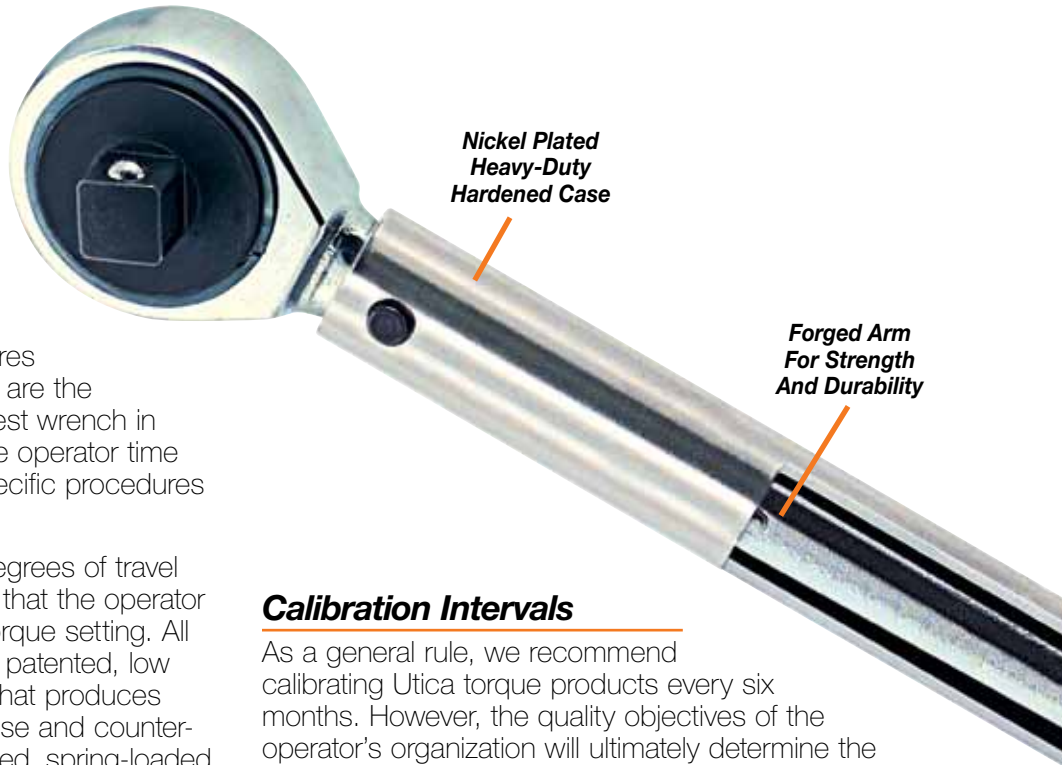
Introduction



Click Wrenches

Utica click style torque wrenches are built to exacting standards to maintain maximum accuracy. Only top grade materials are used in Utica click wrenches. Working parts are heat-treated to increase durability and service life. Each wrench is tested with equipment traceable to NIST standards. Because of a high commonality of parts, the procedures for calibrating Utica click wrenches are the same from the smallest to the largest wrench in our product offering. This saves the operator time and the expense of developing specific procedures for different wrench sizes.

Utica’s audible “click” plus a few degrees of travel provides a simple, quick indication that the operator has achieved the predetermined torque setting. All Utica click wrenches incorporate a patented, low friction torque control mechanism that produces highly accurate readings in clockwise and counter-clockwise directions. Plus, a patented, spring-loaded locking collar locks the scale on the desired torque setting. This prevents the operator from accidentally using the wrench in the unlocked position.



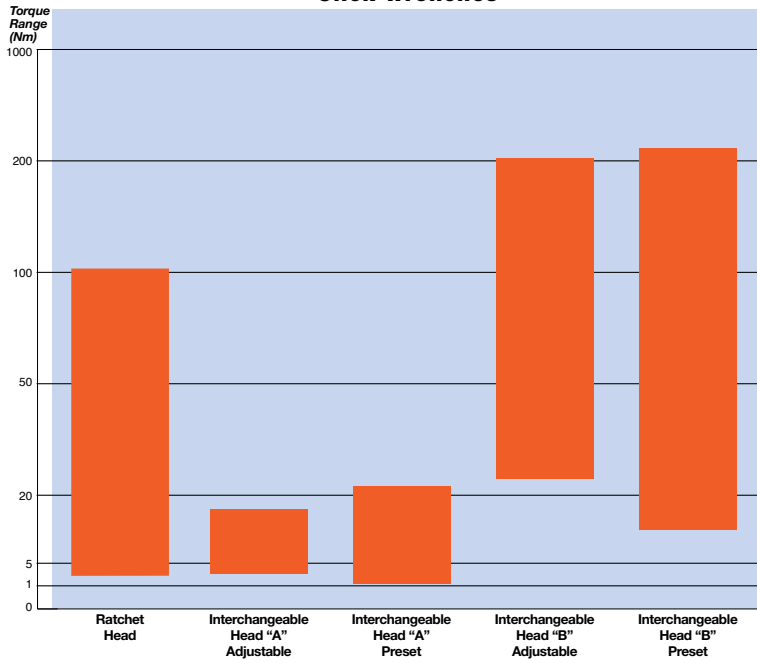
Calibration Intervals

As a general rule, we recommend calibrating Utica torque products every six months. However, the quality objectives of the operator’s organization will ultimately determine the frequency of tool calibration.

Visit our website at www.uticatools.com to locate your nearest Utica Service Center for calibration.



Click Wrenches



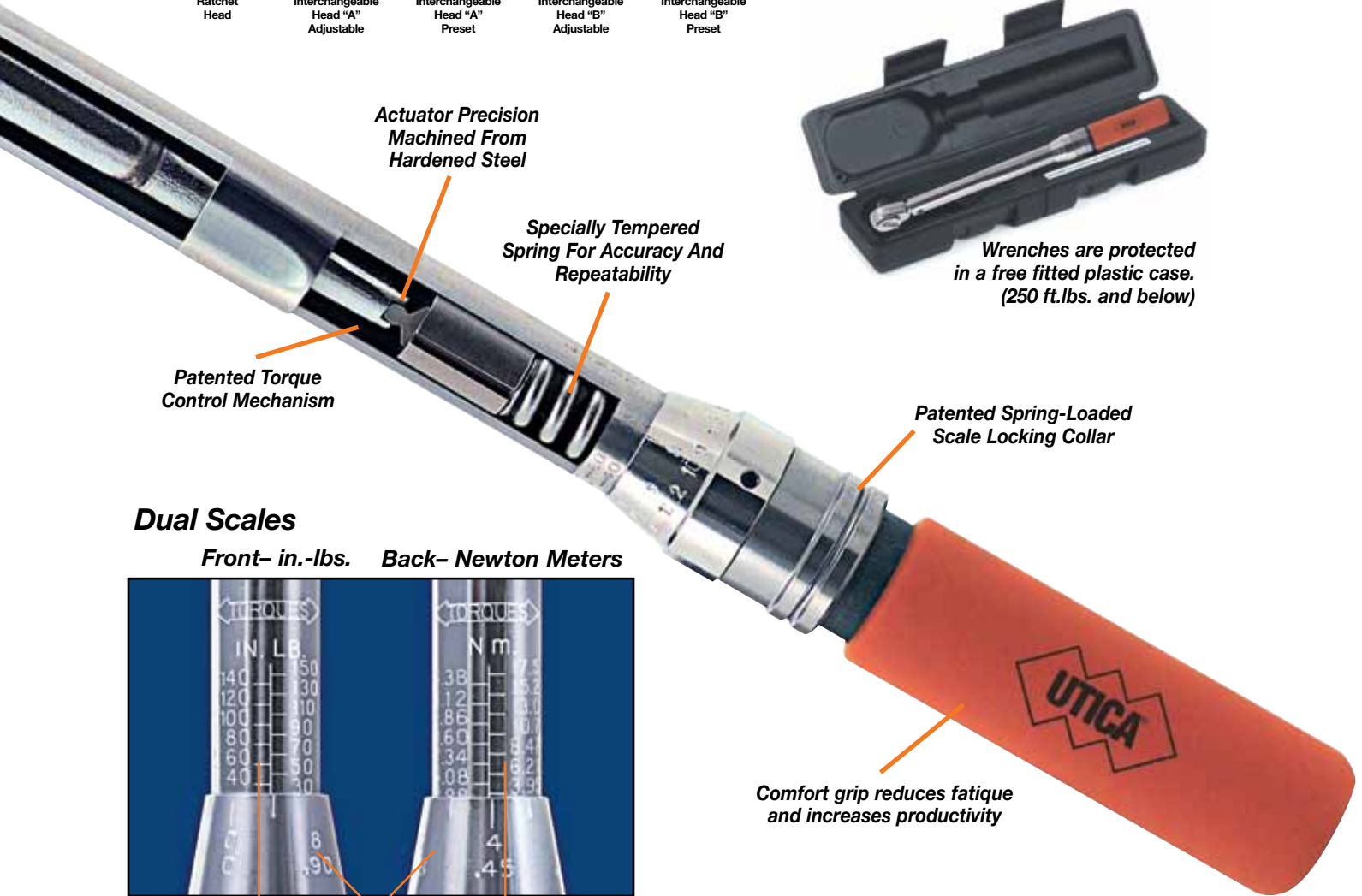
Ratchet Head Wrenches

Ratchets are mainly used in maintenance and assembly applications and provide fastening in both clockwise and counter-clockwise directions. A quick shift lever allows for easy single-hand shifting.



Interchangeable Head Wrenches

Interchangeable head wrenches accept a variety of heads, allowing for greater versatility. Bi-directional versatility is obtained by simply removing the head, turning the wrench over and replacing the head.



Actuator Precision Machined From Hardened Steel

Specially Tempered Spring For Accuracy And Repeatability

Patented Torque Control Mechanism

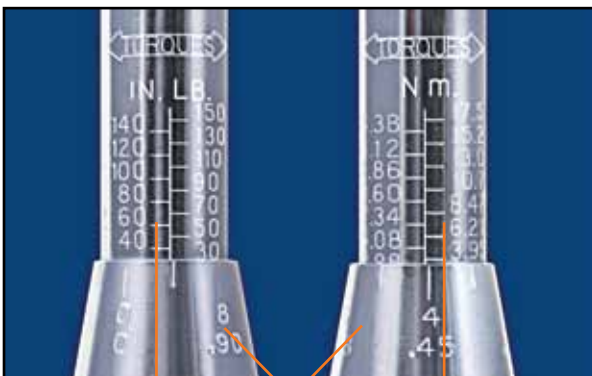
Patented Spring-Loaded Scale Locking Collar



Wrenches are protected in a free fitted plastic case. (250 ft.lbs. and below)

Dual Scales

Front- in.-lbs. Back- Newton Meters



Fine Adjustment
Major Adjustment

Comfort grip reduces fatigue and increases productivity

“Click” Type Torque Sensing Wrenches

Ratchet Head



- Drive Sizes: 1/4" through 1/2"
- Audible “click” and/or a few degrees of travel provide simple, fast indication of micrometer – accurate torque settings.
- Patented, low friction torque control mechanism produces accurate readings in either direction.
- Accuracy is $\pm 4\%$ of setting right hand (clockwise) and $\pm 6\%$ of setting left hand (counterclockwise) within upper 80% of scale.
- Two calibration adjustments (major and fine) permit easy and precise torque settings. Most conventional torque wrenches have only one adjustment.
- Dual scale models give readings in in.-lbs./Newton Meters or ft.-lbs./Newton Meters.
- Patented spring-loaded locking collar locks scale on desired reading and remains in locked position. Wrench cannot be left inadvertently unlocked.
- Heavy-duty, reversible ratchet models have quick-shift lever to allow easy single-hand shifting.
- Slim, lightweight design reduces fatigue and facilitates use in confined work areas.
- Store all adjustable models at their lowest torque setting.
- Calibration certificate can be requested when ordering.



“Click” Type Torque Sensing Wrenches

Ratchet Head



Ratchet Head (in.-lb. Graduations)

Drive Size (in.)	Model No.	Range		Graduations		Length		Weight	
		in.-lb.	Nm	in.-lb.	Nm	in.	mm	lb.	kg
1/4	TCI-150RA*	30-150	3.4-17.0	1.0	.11	9.5	241.3	0.9	0.4
3/8	TCI-150RA-3/8*	30-150	3.4-17.0	1.0	.11	9.5	241.3	0.9	0.4
3/8	TCI-250R*	50-250	5.7-28.3	1.0	.11	12.5	317.5	3.0	1.4
3/8	TCI-750R	150-750	-	5.0	-	14.25	362.0	3.4	1.5
1/2	TCI-750R-1/2	150-750	-	5.0	-	14.5	368.3	2.5	1.1

Ratchet Head (ft.-lb. Graduations)

Drive Size (in.)	Model No.	Range		Graduations		Length		Weight	
		ft.-lb.	Nm	ft.-lb.	Nm	in.	mm	lb.	kg
3/8	TCI-75FRN*	15-75	20.3-102	0.5	0.7	14.25	362.0	2.2	1.0

*Dual Scale Models: Either in.-lb./Nm graduations, or ft.-lb./Nm graduations.

Torque Wrench Repair Kits



Part No.	Repair Kit For:
V702KR	TCI-150RA
V152KR	TCI-150RA3/8, TCI-250R
T702KR	TCI-75FRN, TCI-750R
T153KR	TCI-750R-1/2, TCI-1600R

NOTE: Unless otherwise specified, all Utica® micrometer adjustable torque sensing wrenches are calibrated for use in both left and right hand directions.

“Click” Type Torque Sensing Wrenches

Interchangeable Head “A” Size Series



- Drive Sizes: 1/4" through 3/4"
- Accept variety of heads to suit specific application requirements.
- Common center principal allows simple exchange or replacement of heads without need for recalibration.
- Choice of micrometer adjustable or single setting (preset) models.
- Accuracy is $\pm 4\%$ of setting right hand and $\pm 6\%$ of setting left hand within upper 80% of scale.
- Calibration certificate can be requested when ordering.

Micrometer Adjustable Wrench – “A” Size

Model No.	Range		Graduations		Length		Weight	
	in.-lb.	Nm	in.-lb.	Nm	in.	mm	lb.	kg
CH-150*	30-150	3.4-17.0	1.0	.11	9.0	228.6	1.0	0.5

*Note: Dual Scale Models: Either in.-lb./Nm graduations, or ft.-lb./Nm graduations.

Single Setting (Preset) Wrench – “A” Size*

Model No.	Range				Length		Weight	
	in.-lb.	Nm	ft.-lb.	cm-kg	in.	mm	lb.	kg
CHA-6	10-50	1.2-6	0.9-4.5	12-60	5.32	135.1	0.17	0.08
CHA-11	20-100	2.2-11	1.6-8	22-110	5.75	146.1	0.3	0.14
CHA-23	40-200	4.6-23	3.4-17	46-230	7.75	196.9	0.4	0.18

NOTE: Single setting wrenches do not have a scale and must be set on torque tester.
When ordering these preset tools, specify desired torque setting.



Head changes are quick and easy without the need for recalibration.

CH-150



CHA-23



"Click" Type Torque Sensing Wrenches

"A" Size Interchangeable Heads



Open End U.S. Standard "A"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/8	OP 42	20	1.7	2.3
5/32	OP 52	35	2.9	4.0
3/16	OP 62	45	3.8	5.1
7/32	OP 72	50	4.2	5.6
1/4	OP 82	67	5.6	7.6
9/32	OP 92	78	6.5	8.8
5/16	OP 102	138	12	16
11/32	OP 112	193	16	22
3/8	OP 122	275	23	31
7/16	OP 142	410	34	46
1/2	OP 162	420	35	48
9/16	OP 182	420	35	48
5/8	OP 202	420	35	48
11/16	OP 222	420	35	48
3/4	OP 242	420	35	48

Open End Metric "A"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
6mm	MO 62	62	5.1	7
7mm	MO 72	71	5.9	8
8mm	MO 82	133	11	15
9mm	MO 92	186	16	21
10mm	MO 102	274	23	31
11mm	MO 112	410	34	46
12mm	MO 122	420	35	48
13mm	MO 132	420	35	48
14mm	MO 142	420	35	48
15mm	MO152	420	35	48



Plain Square Drive "A"

Drive Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/4	PS 82	203.41	16.95	23
3/8	PS 122	203.41	16.95	23



Ratcheting Square Drive "A"

Drive Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/4	RS 82	203.41	16.95	23
3/8	RS 182	203.41	16.95	23

Ratchet Repair Kits

Part No.	Repair Kit
RS 82	V702KR
RS 182	V152KR



12 Point Box U.S. Standard "A"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
7/32	LB 72	50	4.0	5.6
1/4	LB 82	67	5.6	7.6
5/16	LB 102	138	12	7.6
3/8	LB 122	275	23	31
7/16	LB 142	410	34	48
1/2	LB 162	420	35	48
9/16	LB 182	420	35	48
5/8	LB 202	420	35	48
11/16	LB 222	420	35	48
3/4	LB 242	420	35	48

12 Point Box Metric "A"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
6mm	MB 62	62	5.2	7
7mm	MB 72	71	5.9	8
8mm	MB 82	133	11	15
9mm	MB 92	186	15	21
10mm	MB 102	274	23	31
11mm	MB 112	410	34	46
12mm	MB 122	420	35	48
13mm	MB 132	420	35	48
14mm	MB 142	420	35	48
15mm	MB 152	420	35	48



SAE Size Sockets

Part No.	Square Drive (in.)	Hex Opening (in.)
1108	1/4	1/4
1110	1/4	5/16
1112	1/4	3/8
1114	1/4	7/16
3108	3/8	1/4
3110	3/8	5/16
3112	3/8	3/8
3114	3/8	7/16
3116	3/8	1/2
3118	3/8	9/16
3120	3/8	5/8

Metric Size Sockets

Part No.	Square Drive (in.)	Hex Opening (mm)
6mm11	1/4	6mm
7mm11	1/4	7mm
8mm11	1/4	8mm
10mm11	1/4	10mm
10mm13	3/8	10mm
11mm13	3/8	11mm
12mm13	3/8	12mm
13mm13	3/8	13mm
14mm13	3/8	14mm
15mm13	3/8	15mm
16mm13	3/8	16mm



Flare Nut U.S. Standard "A"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
3/8	LF 122	130	11	15
7/16	LF 142	140	12	16
1/2	LF 162	200	17	23
9/16	LF 182	275	23	31
5/8	LF 202	325	27	37
11/16	LF 222	396	33	45
3/4	LF 242	420	35	48



Hex Keys U.S. Standard "A"

Hex Key Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/16	HX 42	8	0.6	0.9
5/64	HX 52	16	1.3	1.8
3/32	HX 62	28	2.3	3.2
7/64	HX 72	44	3.6	5.0
1/8	HX 82	65	5.4	7.3
9/64	HX 92	95	7.9	11
5/32	HX 102	128	11	14
3/16	HX 122	222	18	25
7/32	HX 142	350	29	40
1/4	HX 162	420	35	48



Bit Holders

Part No.	Square Drive (in.)	Female Hex (in.)
825	1/4	1/4
M-825	1/4	1/4 Magnetic
838	3/8	1/4
M-838	3/8	1/4 Magnetic

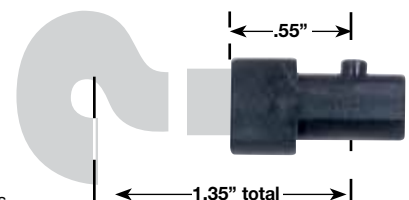


Adapters

Part No.	Female Square Drive (in.)	Male Square Drive (in.)
EX-372	1/4	3/8
EX-254	3/8	1/4
EX-503	3/8	1/2

Head Adapter "A" 28522

Weld custom heads to adapters to couple with "A" handles to meet specific applications.



NOTES: 1. "A" series drive heads are not interchangeable with "B" series heads.
2. Utica torque heads when used with Utica torque wrenches, meet the accuracy statements for Utica wrenches. We cannot guarantee accuracy when other manufacturers heads or wrenches are interchanged with a Utica part.

“Click” Type Torque Sensing Wrenches

Interchangeable Head “B” Size Series



- Designed for higher torque applications than “A” size series.
- Accept a variety of head configurations to suit many fastener requirements.
- Common center principal allows simple exchange or replacement of heads without need for recalibration.
- Choice of micrometer adjustable or single setting (preset) models with same “click” action and features as “A” series wrenches.
- Accuracy is $\pm 4\%$ of setting right hand and $\pm 6\%$ of setting left hand within upper 80% of scale.
- Calibration certificate can be requested when ordering.

Micrometer Adjustable Wrench – “B” Size

Model No.	Range		Graduations		Length		Weight	
	ft.-lb.	Nm	ft.-lb.	Nm	in.	mm	lb.	kg
CH-75F*	15-75	20.3-102	0.5	0.7	14.0	355.6	2.0	0.9
CH-150F*	30-150	40.7-203	1.0	1.4	17.1	435.0	2.5	1.1

*Note: Dual Scale Models: Either in.-lb./Nm graduations, or ft.-lb./Nm graduations.

Single Setting (Preset) Wrench – “B” Size*

Model No.	Range				Length		Weight	
	in.-lb.	Nm	ft.-lb.	cm-kg	in.	mm	lb.	kg
CHB-55	100-500	11-55	8-40	112-560	8.25	209.6	1.0	0.5
CHB-85	150-750	17-85	12.5-62.5	172-860	10.5	266.7	1.3	0.6
CHB-110	200-1000	22-110	16-80	224-1120	12.5	317.5	1.5	0.7
CHB-170	300-1500	34-170	25-125	346-1730	14.25	362.0	1.7	0.8
CHB-225	400-2000	45-225	33-165	460-2300	16.25	412.8	1.9	0.9

NOTE: Single setting wrenches do not have a scale and must be set on torque tester.
When ordering these preset tools, specify desired torque setting.



CH-75F



CHB-110



"Click" Type Torque Sensing Wrenches

"B" Size Interchangeable Heads



12 Point Flare Nut U.S. Standard "B"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/2	LF 164	200	17	23
9/16	LF 184	275	23	31
5/8	LF 204	325	27	37
11/16	LF 224	396	33	45
3/4	LF 244	500	42	56
7/8	LF 284	800	67	90
1	LF 324	1000	83	113
1 1/8	LF 364	1000	83	113



Open End U.S. Standard "B"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/2	OP 164	550	46	62
9/16	OP 184	770	64	87
5/8	OP 204	1100	92	124
11/16	OP 224	1375	115	155
3/4	OP 244	1650	138	186
13/16	OP 264	2100	175	237
7/8	OP 284	2100	175	237
15/16	OP 304	2100	175	237
1	OP 324	2100	175	237
1 1/16	OP 344	2100	175	237
1 1/8	OP 364	2100	175	237
1 3/16	OP 384	2100	175	237
1 1/4	OP 404	2100	175	237



12 Point Box U.S. Standard "B"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
1/2	LB 164	550	46	62
9/16	LB 184	770	64	87
5/8	LB 204	1100	92	124
11/16	LB 224	1375	115	155
3/4	LB 244	1650	138	186
13/16	LB 264	2100	175	237
7/8	LB 284	2100	175	237
15/16	LB 304	2100	175	237
1	LB 324	2100	175	237
1 1/16	LB 344	2100	175	237
1 1/8	LB 364	2100	175	237



Ratcheting Square Drive "B"

Drive Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
3/8	RS 124	1199.25	99.94	135.6
1/2	RS 164	1992.0	166.0	225.0

Ratchet Repair Kits

Part No.	Repair Kit
RS124	T702KR
RS164	T153KR



SAE Size Sockets

Part No.	Square Drive (in.)	Hex Opening (in.)
3108	3/8	1/4
3110	3/8	5/16
3112	3/8	3/8
3114	3/8	7/16
3116	3/8	1/2
3118	3/8	9/16
3120	3/8	5/8
5110	1/2	5/16
5112	1/2	3/8
5114	1/2	7/16
5116	1/2	1/2
5118	1/2	9/16
5120	1/2	5/8
5122	1/2	11/16
5124	1/2	3/4
7120	3/4	5/8
7124	3/4	3/4
7128	3/4	7/8
7130	3/4	15/16
7132	3/4	1

Open End Metric "B"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
12mm	MO 124	434	36	49
13mm	MO 134	549	46	62
14mm	MO 144	761	63	86
15mm	MO 154	920	77	104
16mm	MO 164	1097	92	124
17mm	MO 174	1230	103	139
18mm	MO 184	1372	114	155
19mm	MO 194	1646	137	186
20mm	MO 204	1921	160	217
22mm	MO 224	2100	175	237
36mm	MO 364	2100	175	237

Metric Size Sockets

Part No.	Square Drive (in.)	Hex Opening (mm)
10mm13	3/8	10mm
11mm13	3/8	11mm
12mm13	3/8	12mm
13mm13	3/8	13mm
14mm13	3/8	14mm
15mm13	3/8	15mm
16mm13	3/8	16mm
13mm15	1/2	13mm
14mm15	1/2	14mm
15mm15	1/2	15mm
16mm15	1/2	16mm
17mm15	1/2	17mm
18mm15	1/2	18mm
19mm15	1/2	19mm
20mm15	1/2	20mm
21mm15	1/2	21mm
19mm17	3/4	19mm
21mm17	3/4	21mm
22mm17	3/4	22mm
14mm17	3/4	24mm
30mm17	3/4	30mm

12 Point Box Metric "B"

Opening Size	Part No.	Maximum Torque Load		
		in.-lb.	ft.-lb.	Nm
12mm	MB 124	434	36	49
13mm	MB 134	549	46	62
14mm	MB 144	761	63	86
15mm	MB 154	920	77	104
16mm	MB 164	1097	92	124
17mm	MB 174	1230	103	139
18mm	MB 184	1372	114	155
19mm	MB 194	1646	137	186
20mm	MB 204	1921	160	217
22mm	MB 224	2100	175	237

Bit Holders

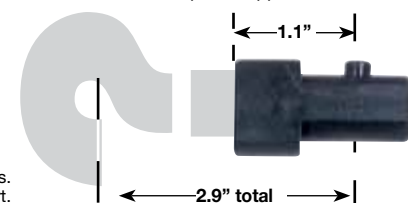
Part No.	Square Drive (in.)	Female Hex (in.)
825	1/4	1/4
M-825	1/4	1/4 Magnetic
838	3/8	1/4
M-838	3/8	1/4 Magnetic
858	1/2	1/4
M-858	1/2	1/4 Magnetic

Adapters

Part No.	Female Square Drive (in.)	Male Square Drive (in.)
EX-254	3/8	1/4
EX-503	3/8	1/2
EX-375	1/2	3/8
EX-623	1/2	5/8
EX-751	1/2	3/4

Head Adapter "B" 28523

Weld custom heads to adapters to couple with "B" handles to meet specific applications.



NOTES: 1. "A" series drive heads are not interchangeable with "B" series heads.

2. Utica torque heads when used with Utica torque wrenches, meet the accuracy statements for Utica wrenches. We cannot guarantee accuracy when other manufacturers heads or wrenches are interchanged with a Utica part.