



*Sturtevant
Richmont®*



ACCURACY, DURABILITY, & SAFETY
***INTERCHANGEABLE
HEADS***



www.srtorque.com

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Interchangeable Heads

Why Our Customers Say the S/R System is the World's Best

Virtually all interchangeable heads on these pages are made as a single piece from alloy steel. This construction method provides strength and durability rarely attained by the more common cut and weld method. In addition, to achieve constant torque values when changing heads, exact lever length must be maintained. S/R heads share a precise distance from end of wrench to center of fastener. This is referred to as a Common Centerline and is very difficult to maintain when using the welded construction method.

The unique dovetail design used to join head and wrench provides exceptionally strong connection and allows complete interchange-ability. Competing manufacturers find it necessary to increase the size of the mating connection at higher torque values, creating duplication of wrenches and heads while losing interchangeability.



Open End 17/16" COMMON CENTERLINE

ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819000	OE-1/4	1/4"	100
819001	OE-5/16	5/16"	150
819002	OE-3/8	3/8"	200
819003	OE-7/16	7/16"	300
819004	OE-1/2	1/2"	350
819005	OE-9/16	9/16"	400
819006	OE-5/8	5/8"	600
819007	OE-11/16	11/16"	800
819008	OE-3/4	3/4"	1000
819009	OE-13/16	13/16"	1250
819010	OE-7/8	7/8"	1500
819011	OE-15/16	15/16"	1750
819012	OE-1	1"	2000
819013	OE-1 1/16	1 1/16"	2250
819014	OE-1 1/8	1 1/8"	2500
819015	OE-1 3/16	1 3/16"	2750
819016	OE-1 1/4	1 1/4"	3000

METRIC			
Part #	Model	Hex Size	Max. Torque (Nm)
809294	OE-5mm	5mm	8
809290	OE-6mm	6mm	9
809291	OE-7mm	7mm	11
809292	OE-8mm	8mm	16
809293	OE-9mm	9mm	22
819943	OE-10mm	10mm	22
819944	OE-11mm	11mm	34
809226	OE-12mm	12mm	39
819945	OE-13mm	13mm	39
819946	OE-14mm	14mm	45
809227	OE-15mm	15mm	67
819947	OE-16mm	16mm	67
819948	OE-17mm	17mm	90
809228	OE-18mm	18mm	90
819949	OE-19mm	19mm	113
819950	OE-21mm	21mm	141
819951	OE-22mm	22mm	169
819952	OE-24mm	24mm	197
809229	OE-27mm	27mm	254
819956	OE-30mm	30mm	310
819958	OE-32mm	32mm	338



Square Drive (SD)

17/16" COMMON CENTERLINE

Part #	Model	Drive Size	Max. Torque (in. lbs.)
819057	SD-1/4"	1/4"	250
819058	SD-3/8"	3/8"	1250
819059	SD-1/2"	1/2"	2500
819119	SD-3/4"	3/4"	4800

* 3 7/8" Common Centerline

Square Drive Ratchet (SDRT)

17/16" COMMON CENTERLINE

Part #	Model	Drive Size	Max. Torque (in. lbs.)
809504	SDRT-1/4"	1/4"	250
809505	SDRT-3/8"	3/8"	1250
809506	SDRT-1/2"	1/2"	2500
809507	SDRT-3/4"	3/4"	4800

* 3 7/8" Common Centerline



Ratchet Renewal Kits

FOR RATCHETING WRENCHES AND SDRT HEADS

- 1/4" Ratchet Renewal Kit P/N 816998
- 3/8" Ratchet Renewal Kit P/N 816958
- 1/2" Ratchet Renewal Kit P/N 816956
- * 3 7/8" Common Centerline

Flare Nut (FN)

17/16" COMMON CENTERLINE

ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819025	FN-1/4	1/4"	100
819026	FN-5/16	5/16"	150
819028	FN-7/16	7/16"	250
819029	FN-1/2	1/2"	300
819030	FN-9/16	9/16"	350
819031	FN-5/8	5/8"	400
819033	FN-3/4	3/4"	600
819034	FN-13/16	13/16"	700
819035	FN-7/8	7/8"	800
819036	FN-15/16	15/16"	900
819038	FN-1 1/16	1 1/16"	1050

METRIC			
Part #	Model	Hex Size	Max. Torque (Nm)
809243	FN-8	8	16
809217	FN-9	9	19
809218	FN-10	10	22
809221	FN-11	11	28
809241	FN-12	12	30
809000	FN-12*	12	30
809219	FN-13	13	33
809238	FN-16	16	50
809223	FN-17	17	54
809239	FN-18	18	61
809224	FN-19	19	68
809240	FN-21	21	80
809242	FN-22	22	90
809225	FN-24	24	105

* 6 pt hex



Box Head (BH)

17/16" COMMON CENTERLINE - ENGLISH

ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819060	BH-1/4	1/4	250
819061	BH-5/16	5/16	350
819062	BH-3/8	3/8	450
819063	BH-7/16	7/16	650
819064	BH-1/2	1/2	850
819065	BH-9/16	9/16	1050
819066	BH-5/8	5/8	1250
819067	BH-11/16	11/16	1450
819068	BH-3/4	3/4	1800
819069	BH-13/16	13/16	2100
819070	BH-7/8	7/8	2400
819071	BH-15/16	15/16	2700
819072	BH-1	1	3000
819073	BH-1 1/16	1 1/16	3150
819085	BH-1 3/16	1 3/16	3450
819075	BH-1 1/4	1 1/4	3600

METRIC			
Part #	Model	Hex Size	Max. Torque (Nm)
809301	BH-7mm	7mm	28
809302	BH-8mm	8mm	39
809303	BH-9mm	9mm	50
809230	BH-10mm	10mm	50
809231	BH-11mm	11mm	73
809304	BH-12mm	12mm	96
809232	BH-13mm	13mm	96
809233	BH-14mm	14mm	119
809234	BH-15mm	15mm	141
809305	BH-16mm	16mm	141
809235	BH-17mm	17mm	163
809306	BH-18mm	18mm	163
809236	BH-19mm	19mm	203
809309	BH-20mm	20mm	225
809312	BH-26mm	26mm	355
809307	BH-21mm	21mm	237
809308	BH-22mm	22mm	271
809237	BH-24mm	24mm	305
809352	BH-27mm	27mm	355



Ratcheting Open End (ROE)

17/16" COMMON CENTERLINE

Slight disengagement from the fastener allows operator to rapidly rotate wrench.

ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819201	ROE-5/16	5/16"	90
819203	ROE-7/16	7/16"	180
819204	ROE-1/2	1/2"	210
819205	ROE-9/16	9/16"	240
819206	ROE-5/8	5/8"	360
819208	ROE-3/4	3/4"	600
819209	ROE-13/16	13/16"	750
819210	ROE-7/8	7/8"	900
819215	ROE-1 3/16	1 3/16"	1650

METRIC			
Part #	Model	Hex Size	Max. Torque (Nm)
819219	ROE-9mm	9mm	13
819220	ROE-10mm	10mm	13
819221	ROE-11mm	11mm	20
819222	ROE-12mm	12mm	23
819223	ROE-13mm	13mm	23
819224	ROE-14mm	14mm	27
819226	ROE-16mm	16mm	40
819227	ROE-17mm	17mm	54
819228	ROE-18mm	18mm	54
819229	ROE-19mm	19mm	68
819231	ROE-22mm	22mm	101
819232	ROE-24mm	24mm	118
819233	ROE-27mm	27mm	152
819234	ROE-28mm	28mm	170
819235	ROE-29mm	29mm	152
819238	ROE-32mm	32mm	203



ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819687	HD-3/32	3/32"	30
819691	HD-5/32	5/32"	135
819692	HD-3/16	3/16"	235
819693	HD-7/32	7/32"	340
819694	HD-1/4	1/4"	450
819695	HD-5/16	5/16"	850
819696	HD-3/8	3/8"	850
819697	HD-7/16	7/16"	1450
819699	HD-9/16	9/16"	1450
819701	HD-3/4	3/4"	2400
819702	HD-7/8	7/8"	2700

Hex Drive (HD)

17/16" COMMON CENTERLINE

METRIC			
Part #	Model	Hex Size	Max. Torque (Nm)
809315	HD-4mm	4mm	15
809316	HD-5mm	5mm	27
809317	HD-6mm	6mm	38
809328	HD-8mm	8mm	96
809330	HD-10mm	10mm	141
809339	HD-19mm	19mm	270



Ratcheting Flare Nut (RFN)

17/16" COMMON CENTERLINE

Single-direction ratchet for use with hydraulic or pneumatic fittings

ENGLISH			
Part #	Model	Hex Size	Max. Torque (in. lbs.)
819086	RFN-10mm	10mm	25
819087	RFN-11mm	11mm	25



Standard Tooling Adapters*

When fabricating special heads to be used with CCM torque handles other than Model CCM 300 and CCM 400, the 17/16 in. dimension must be maintained between the inside of the attachment block and the centerline of the wrench head. Model CCM 300 and CCM 400 are calibrated to 3/8 in. common centerline.

Part #	Model	Max. Torque (in. lbs.)
819901	STA-1	1600
819902	STA-2	2500
819917	STA-3	4800

* Made of heat treated 4140 alloy steel.

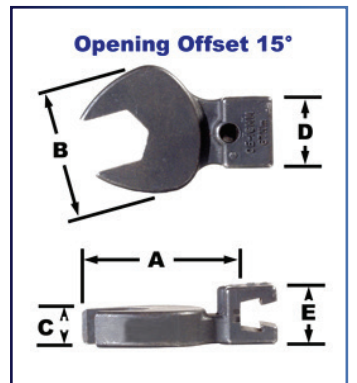
Specifications

Straight Extension

Part #	Model	Angle (degrees)	Max. Torque (in. lbs.)
819424	LTCE-4	0	300
819467	LTCE-6	0	800
819021	LTCE-14	0	4800
819768	LTCE-20	0	4800

15° Angle Extension

Part #	Model	Angle (degrees)	Max. Torque (in. lbs.)
819487	LTCE-4-15°	15	300
819504	LTCE-6-15°	15	800



Part #	Model	A	B	C	D	E	WEIGHT	RATING (in. lbs.)
819724	OE 1 5/16	4 5/8	2 15/16	5/8	1 1/2	1	1.531	4800
819725	OE 1 3/8	4 39/64	2 15/16	5/8	1 1/2	1	1.507	4800
819726	OE 1 7/16	4 39/64	2 15/16	5/8	1 1/2	1	1.487	4800
819727	OE 1 1/2	4 19/32	2 15/16	5/8	1 1/2	1	1.468	4800
819728	OE 1 9/16	4 37/64	2 15/16	5/8	1 1/2	1	1.443	4800
819729	OE 1 5/8	4 9/16	2 15/16	5/8	1 1/2	1	1.422	4800
819730	OE 1 11/16	4 9/16	2 15/16	5/8	1 1/2	1	1.399	4800
819731	OE 1 3/4	4 35/64	2 15/16	5/8	1 1/2	1	1.372	4800
819732	OE 1 13/16	4 33/64	2 15/16	5/8	1 1/2	1	1.362	4800
819733	OE 1 7/8	4 15/16	4 11/32	5/8	1 1/2	1	2.322	4800
819734	OE 1 15/16	4 59/64	4 11/32	5/8	1 1/2	1	2.293	4800
819735	OE 2	4 59/64	4 11/32	5/8	1 1/2	1	2.259	4800
819736	OE 2 1/16	4 29/32	4 11/32	5/8	1 1/2	1	2.23	4800
819737	OE 2 1/8	4 29/32	4 11/32	5/8	1 1/2	1	2.201	4800
819738	OE 2 3/16	4 57/64	4 11/32	5/8	1 1/2	1	2.15	4800
819739	OE 2 1/4	4 7/8	4 11/32	5/8	1 1/2	1	2.133	4800
819740	OE 2 5/16	4 7/8	4 11/32	5/8	1 1/2	1	2.104	4800
819741	OE 2 3/8	4 55/64	4 11/32	5/8	1 1/2	1	2.065	4800
819742	OE 2 7/16	4 27/32	4 11/32	5/8	1 1/2	1	2.034	4800
819743	OE 2 1/2	4 53/64	4 11/32	5/8	1 1/2	1	1.987	4800
819744	OE 2 9/16	4 13/16	4 11/32	5/8	1 1/2	1	1.964	4800
819745	OE 2 5/8	4 51/64	4 11/32	5/8	1 1/2	1	1.941	4800
819746	OE 2 11/16	5 31/64	5 5/8	5/8	1 1/2	1	2.103	4800
819747	OE 2 3/4	5 31/64	5 5/8	5/8	1 1/2	1	2.1	4800
819748	OE 2 13/16	5 31/64	5 5/8	5/8	1 1/2	1	2.091	4800
819749	OE 2 7/8	5 31/64	6	5/8	1 1/2	1	2.214	4800
819750	OE 2 15/16	5 31/64	6	5/8	1 1/2	1	2.186	4800
819751	OE 3	5 31/64	6	5/8	1 1/2	1	2.149	4800
819752	OE 3 1/4	5 13/32	6	5/8	1 1/2	1	2.106	4800
819761	OE 33mm	4 5/8	2 15/16	5/8	1 1/2	1	1.535	350
819762	OE 34mm	4 5/8	2 15/16	5/8	1 1/2	1	1.52	350
819763	OE 35mm	4 39/64	2 15/16	5/8	1 1/2	1	1.509	350
819766	OE 36mm	4 39/64	2 15/16	5/8	1 1/2	1	1.495	350
819764	OE 37mm	4 19/32	2 15/16	5/8	1 1/2	1	1.481	400
819765	OE 38mm	4 19/32	2 15/16	5/8	1 1/2	1	1.468	400
819771	OE 40mm	4 37/64	2 15/16	5/8	1 1/2	1	1.438	400
819755	OE 41mm	4 37/64	2 15/16	5/8	1 1/2	1	1.424	400
819769	OE 42mm	4 9/16	2 15/16	5/8	1 1/2	1	1.411	400
853545	OE 46mm	4 15/16	4 11/32	5/8	1 1/2	1	2.349	400
819770	OE 48mm	4 29/32	4 11/32	5/8	1 1/2	1	2.311	400
819756	OE 50mm	4 59/64	4 11/32	5/8	1 1/2	1	2.275	400
819757	OE 55mm	4 57/64	4 11/32	5/8	1 1/2	1	2.175	400
819753	OE 60mm	4 55/64	4 11/32	5/8	1 1/2	1	2.068	400



Adapters for DIN Style Heads

- Can be used to convert most DIN style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the DIN plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part #	Model
819136	Adapter, 9mm x 12mm
819137	Adapter, 14mm x 18mm



Adapters for Round Style Heads

- Can be used to convert most round style heads to a female dovetail for use on all S/R LTC series wrenches. Torque values should be set with the adapter and head attached to the wrench.
- Because of the variation in the length of the round plug type heads it is not recommended that this adapter be used with CCM micrometer adjustable wrenches.

Part #	Model	Description
853021	BAJ	"J" size female-female dovetail
853022	BAY	"Y" size female-female dovetail



**Sturtevant
Richmont®**
Torque Measurement Systems



Common Center Line Length

What is Common Center Line?

The centerline is the distance between the head end of the wrench and the center of the fastener. When that distance changes, the wrench output changes and no longer matches the scale or is in sync with the calibration formula.

Several factors impact common center line length. Extensions and adapters are a significant factor causes wrenches to be recalibrated for the different centerline length. Smaller unintended differences also cause a change in wrench output.

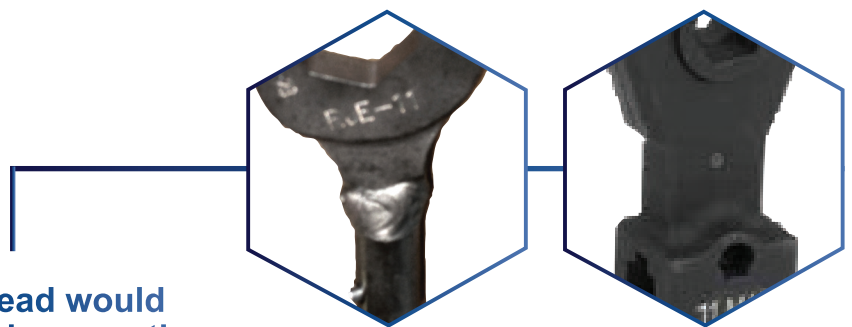
The interchangeable heads produced by the cut and weld method also change torque output.

For more information go to:
www.youtube.com/watch?v=YESc2JdXQn4



Here is an example of two click wrenches, set to identical settings. If they had the same head length the output would be the same. But, one wrench has an extended head length and that increases the overall lever length. That change in lever length changes the output of the wrench.

When a wrench is calibrated with one head length and a different head length is used during torque applications, the wrench output is different. The difference can be found by plugging in the actual measurements of Lever Length (L) and Force (F).



Which head would you rather have on the end of your wrench?

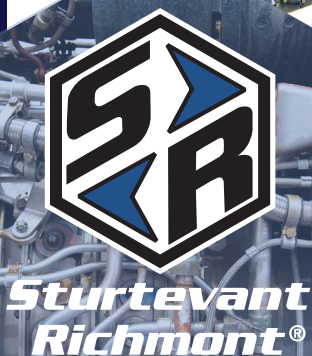
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