

# 12 POINT OPENING

# FLAT STRIKING WRENCHES

## FRACTIONAL SIZES

PART#	SIZE	D	C	L
FSW14	7/8	1-13/16	9/16	6-1/2
FSW15	15/16	1-13/16	9/16	6-1/2
FSW16	1	1-13/16	9/16	6-1/2
FSW17	1-1/16	1-13/16	5/8	7-1/16
FSW18	1-1/8	1-13/16	5/8	7-1/16
FSW19	1-3/16	2-1/16	11/16	7-1/2
FSW20	1-1/4	2-1/16	11/16	7-1/2
FSW21	1-5/16	2-1/16	11/16	7-1/2
FSW22	1-3/8	2-1/16	11/16	7-1/2
FSW23	1-7/16	2-15/16	11/16	8-1/16
FSW24	1-1/2	2-15/16	11/16	8-1/16
FSW25	1-9/16	2-15/16	11/16	8-1/16
FSW26	1-5/8	2-15/16	13/16	9-1/16
FSW27	1-11/16	2-15/16	13/16	9-1/16
FSW28	1-3/4	2-15/16	13/16	9-1/16
FSW29	1-13/16	2-15/16	7/8	9-7/16
FSW30	1-7/8	2-15/16	7/8	9-7/16
FSW31	1-15/16	2-15/16	7/8	9-7/16
FSW32	2	3-1/8	15/16	10-1/16
FSW33	2-1/16	3-1/8	15/16	10-1/16
FSW34	2-1/8	3-1/8	15/16	10-1/16
FSW35	2-3/16	3-3/8	1	10-5/8
FSW36	2-1/4	3-3/8	1	10-5/8
FSW37	2-5/16	3-3/8	1	10-5/8
FSW38	2-3/8	3-11/16	1	11
FSW39	2-7/16	3-11/16	1	11
FSW40	2-1/2	3-11/16	1	11
FSW41	2-9/16	4	1-3/16	11-13/16
FSW42	2-5/8	4	1-3/16	11-13/16
FSW43	2-11/16	4	1-3/16	11-13/16
FSW44	2-3/4	4-5/16	1-5/16	13
FSW45	2-13/16	4-5/16	1-5/16	13
FSW46	2-7/8	4-5/16	1-5/16	13
FSW47	2-15/16	4-5/16	1-5/16	13
FSW48	3	4-5/16	1-5/16	13
FSW49	3-1/16	4-5/16	1-5/16	13
FSW50	3-1/8	4-15/16	1-7/16	14-3/16
FSW51	3-3/16	4-15/16	1-7/16	14-3/16
FSW52	3-1/4	4-15/16	1-7/16	14-3/16
FSW53	3-5/16	4-15/16	1-7/16	14-3/16
FSW54	3-3/8	4-15/16	1-7/16	14-3/16
FSW55	3-7/16	4-15/16	1-7/16	14-3/16
FSW56	3-1/2	4-15/16	1-7/16	14-3/16
FSW57	3-9/16	5-9/16	1-9/16	15-3/8
FSW58	3-5/8	5-9/16	1-9/16	15-3/8
FSW59	3-11/16	5-9/16	1-9/16	15-3/8
FSW60	3-3/4	5-9/16	1-9/16	15-3/8
FSW61	3-13/16	5-9/16	1-9/16	15-3/8
FSW62	3-7/8	5-9/16	1-9/16	15-3/8
FSW63	3-15/16	6-1/8	1-3/4	16-9/16
FSW64	4	6-1/8	1-3/4	16-9/16
FSW65	4-1/16	6-1/8	1-3/4	16-9/16
FSW66	4-1/8	6-1/8	1-3/4	16-9/16
FSW67	4-3/16	6-1/8	1-3/4	16-9/16
FSW68	4-1/4	6-1/8	1-3/4	16-9/16

Table continued next column

## FRACTIONAL SIZES

PART#	SIZE	D	C	L
FSW69	4-5/16	6-11/16	1-7/8	17-11/16
FSW70	4-3/8	6-11/16	1-7/8	17-11/16
FSW71	4-7/16	6-11/16	1-7/8	17-11/16
FSW72	4-1/2	6-11/16	1-7/8	17-11/16
FSW74	4-5/8	6-11/16	1-7/8	17-11/16
FSW76	4-3/4	7-3/16	2-1/8	18-7/8
FSW78	4-7/8	7-3/16	2-1/8	18-7/8
FSW80	5	7-3/16	2-1/8	18-7/8
FSW82	5-1/8	7-15/16	2-5/16	20-1/2
FSW83	5-3/16	7-15/16	2-5/16	20-1/2
FSW84	5-1/4	7-15/16	2-5/16	20-1/2
FSW86	5-3/8	7-15/16	2-5/16	20-1/2
FSW88	5-1/2	8-1/4	2-5/16	20-1/2
FSW90	5-5/8	8-1/4	2-5/16	20-1/2
FSW92	5-3/4	9	2-1/2	22-13/16
FSW94	5-7/8	9	2-1/2	22-13/16
FSW96	6	9	2-1/2	22-13/16
FSW98	6-1/8	9	2-1/2	22-13/16
FSW100	6-1/4	9	2-1/2	22-13/16
FSW102	6-3/8	9-7/16	2-1/2	22-13/16
FSW104	6-1/2	10-7/16	2-3/4	25-9/16
FSW106	6-5/8	10-7/16	2-3/4	25-9/16
FSW108	6-3/4	10-7/16	2-3/4	25-9/16
FSW110	6-7/8	10-7/16	2-3/4	25-9/16
FSW112	7	10-7/16	2-3/4	25-9/16
FSW114	7-1/8	10-7/16	2-3/4	25-9/16
FSW116	7-1/4	11-7/16	2-15/16	27-9/16
FSW118	7-3/8	11-7/16	2-15/16	27-9/16
FSW120	7-1/2	11-7/16	2-15/16	27-9/16
FSW122	7-5/8	11-7/16	2-15/16	27-9/16
FSW124	7-3/4	11-7/16	2-15/16	27-9/16
FSW125	7-13/16	11-7/16	2-15/16	27-9/16
FSW126	7-7/8	11-7/16	2-15/16	27-9/16
FSW128	8	11-7/16	2-15/16	27-9/16
FSW130	8-1/8	11-7/16	2-15/16	27-9/16
FSW132	8-1/4	12-5/8	3-1/8	29-1/2
FSW134	8-3/8	12-5/8	3-1/8	29-1/2
FSW136	8-1/2	12-5/8	3-1/8	29-1/2
FSW140	8-5/8	12-5/8	3-1/8	29-1/2
FSW142	8-7/8	12-5/8	3-1/8	29-1/2
FSW144	9	12-5/8	3-1/8	29-1/2



# 12 POINT OPENING

# FLAT STRIKING WRENCHES

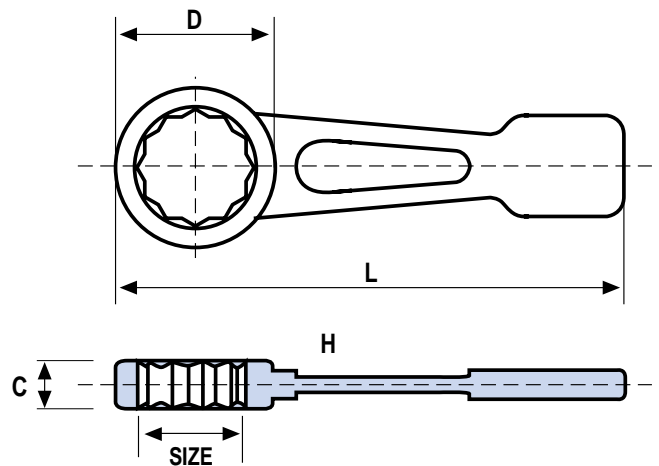
## METRIC SIZES

PART#	SIZE	D	C	L
FSWM22	22	43	15	165
FSWM23	23	43	15	165
FSWM24	24	43	15	165
FSWM25	25	43	15	165
FSWM26	26	43	15	165
FSWM27	27	46	16	180
FSWM28	28	46	16	180
FSWM29	29	46	16	180
FSWM30	30	52	17	190
FSWM31	31	52	17	190
FSWM32	32	52	17	190
FSWM33	33	52	17	190
FSWM34	34	52	17	190
FSWM35	35	52	17	190
FSWM36	36	58	18	205
FSWM37	37	58	18	205
FSWM38	38	58	18	205
FSWM39	39	58	18	205
FSWM40	40	58	18	205
FSWM41	41	66	20	230
FSWM42	42	66	20	230
FSWM43	43	66	20	230
FSWM44	44	66	20	230
FSWM45	45	66	20	230
FSWM46	46	74	22	240
FSWM47	47	74	22	240
FSWM48	48	74	22	240
FSWM49	49	74	22	240
FSWM50	50	80	24	255
FSWM51	51	80	24	255
FSWM52	52	80	24	255
FSWM54	54	80	24	255
FSWM55	55	86	25	270
FSWM56	56	86	25	270
FSWM57	57	86	25	270
FSWM58	58	86	25	270
FSWM59	59	86	25	270
FSWM60	60	93	26	280

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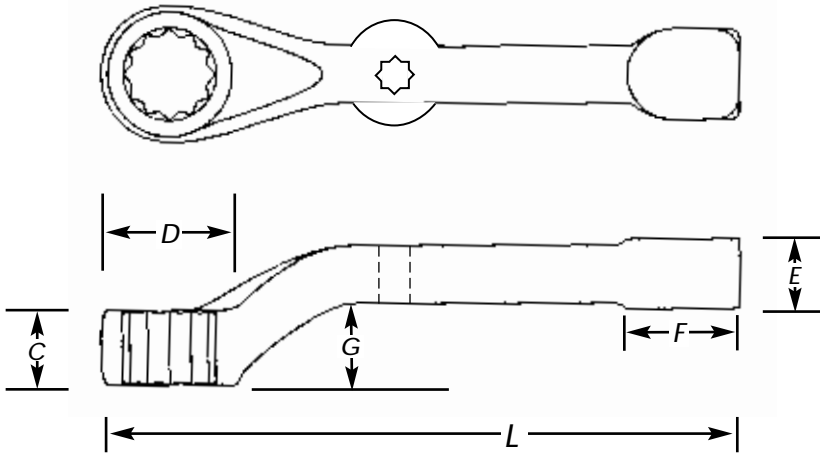
## METRIC SIZES

PART#	SIZE	D	C	L
FSWM61	61	93	26	280
FSWM62	62	93	26	280
FSWM65	65	102	30	300
FSWM67	67	102	30	300
FSWM70	70	110	33	330
FSWM73	73	110	33	330
FSWM75	75	110	33	330
FSWM76	76	110	33	330
FSWM80	80	125	36	360
FSWM85	85	125	36	360
FSWM86	86	125	36	360
FSWM90	90	142	40	390
FSWM95	95	142	40	390
FSWM100	100	115	45	420
FSWM105	105	155	45	420
FSWM110	110	170	48	450
FSWM115	115	170	48	450
FSWM120	120	182	54	480
FSWM125	125	182	54	480
FSWM130	130	202	58	520
FSWM135	135	202	58	520
FSWM140	140	210	58	520
FSWM145	145	228	64	580
FSWM150	150	228	64	580
FSWM155	155	228	64	580
FSWM160	160	240	64	580
FSWM165	165	265	70	650
FSWM170	170	265	70	650
FSWM175	175	265	70	650
FSWM180	180	265	70	650
FSWM185	185	290	75	700
FSWM190	190	290	75	700
FSWM195	195	290	75	700
FSWM200	200	290	75	700
FSWM210	210	320	80	750
FSWM215	215	320	80	750
FSWM225	225	320	80	750
FSWM230	230	320	80	750



# 12 POINT OPENING

## OFFSET STRIKING WRENCHES STRIKE FORCE MARK SAFETY



### OFFSET FRACTIONAL SIZES

PART#	SIZE	D	C	L
SW17	1-1/16	2-1/16	1	10-5/8
SW18	1-1/8	2-1/16	1	10-5/8
SW20	1-1/4	2-1/16	1	10-5/8
SW21	1-5/16	2-1/16	1	10-5/8
SW23	1-7/16	2-11/16	1-1/4	12-1/4
SW24	1-1/2	2-11/16	1-1/4	12-1/4
SW26	1-5/8	2-11/16	1-1/4	12-1/4
SW27	1-11/16	3-1/4	1-3/8	13-3/8
SW28	1-3/4	3-1/4	1-3/8	13-3/8
SW29	1-13/16	3-1/4	1-3/8	13-3/8
SW30	1-7/8	3-1/4	1-3/8	13-3/8
SW31	1-15/16	3-1/4	1-3/8	13-3/8
SW32	2	3-1/4	1-3/8	13-3/8
SW34	2-1/8	3-1/4	1-1/2	14-3/16
SW35	2-3/16	3-1/4	1-1/2	14-3/16
SW36	2-1/4	3-1/4	1-1/2	14-3/16
SW37	2-5/16	3-1/4	1-1/2	14-3/16
SW38	2-3/8	4-5/16	1-3/4	15
SW40	2-1/2	4-5/16	1-3/4	15
SW41	2-9/16	4-5/16	1-3/4	15
SW42	2-5/8	4-5/16	1-3/4	15
SW44	2-3/4	5	2	15-3/4
SW46	2-7/8	5	2	15-3/4
SW47	2-15/16	5	2	15-3/4
SW48	3	5	2	15-3/4
SW50	3-1/8	5	2	15-3/4

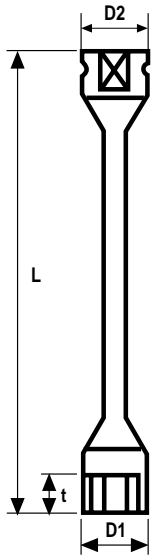


### Strike Force Mark Safety Wrenches

Fractional Sizes	Size	D	C	L	E	G	F
Part #							
SW17-SP	1-1/16"	2-1/16"	13/16"	12"	1-1/4"	1-5/8"	3-1/4"
SW20-SP	1-1/4"	2-1/16"	13/16"	12"	1-1/4"	1-5/8"	3-1/4"
SW23-SP	1-7/16"	2-19/32"	1-1/16"	12"	1-1/4"	1-5/8"	3-1/4"
SW26-SP	1-5/8"	2-19/32"	1-1/16"	12"	1-1/4"	1-5/8"	3-1/4"
SW29-SP	1-13/16"	3-1/16"	1-1/4"	14-3/8"	1-1/2"	1-7/8"	3-11/16"
SW32-SP	2"	3-1/16"	1-1/4"	14-3/8"	1-1/2"	1-7/8"	3-11/16"
SWBB-18	Flex Breaker Bar - 1/2" sq. drive, 18" long						

All Fractional Offset sizes listed above are also available for Strike Force Mark Safety Wrenches. Other sizes in inch and metric are available upon request.

ATP can manufacture specialized striking wrenches to suit your individual applications. Sizes larger than shown in the charts, open ended, short handled, six point, etc. are available on a special order basis.



## 1/2" SQUARE DRIVE TORSION BARS

NOMINAL OPENING		CATALOG No.	COLOR	D1	D2	L	tmin	TORQUE	Foot	Weight
mm	A/F Inch			mm	mm	mm	mm	(N/M)	Lbs.	gr
17		Z-08M17Q75	BROWN	26	30	205	20	75	55	290
17		Z-08M17Q95	GREEN	26	30	205	20	95	70	300
17		Z-08M17Q110	CREAM	26	30	205	20	110	80	320
19	3/4"	Z-08M19Q75	BLUE	28	30	205	20	75	55	290
19	3/4"	Z-08M19Q90	YELLOW	28	30	205	20	90	66	300
19	3/4"	Z-08M19Q110	LIGHT BLUE	28	30	205	20	110	80	330
19	3/4"	Z-08M19Q135	RED	28	30	205	20	135	100	360
21		Z-08M21Q80	BLACK	30	30	205	20	80	60	290
21		Z-08M21Q110	WHITE	30	30	205	20	110	80	330

\*Special order Torsion Bars, priced upon application

## 1" SQUARE DRIVE TORSION BARS

NOMINAL OPENING		CATALOG No.	COLOR	D1	D2	L	tmin	TORQUE	Foot	Weight
mm	A/F Inch			mm	mm	mm	mm	(N/M)	Lbs.	gr
24		Z-16M24Q300	BROWN	42	54	305	28	300	220	1.10
27	11/16"	Z-16M27Q350	GREEN	46	54	305	28	350	255	1.15
27	11/16"	Z-16M27Q450	CREAM	46	54	305	28	450	330	1.20
30	13/16"	Z-16M30Q450	BLUE	50	54	305	28	450	330	1.25
30	13/16"	Z-16M30Q550	YELLOW	50	54	305	23	550	405	1.30
32		Z-16M32Q500	LIGHT BLUE	51	54	305	28	500	370	1.30
32		Z-16M32Q600	RED	51	54	305	28	600	440	1.35
32		Z-16M32Q700	BLACK	51	54	305	23	700	515	1.40
33		Z-16M33Q500	WHITE	54	54	305	23	500	370	1.40
33		Z-16M33Q600	BROWN	54	54	305	38	600	440	1.45
33		Z-16M33Q650	GREEN	54	54	305	28	650	480	1.50
38	1-1/2"	Z-16M38Q500	CREAM	60	54	305	28	500	370	1.50

\*Special order Torsion Bars, priced upon application



### Torsion-Bar, Torque Tightening Limiter

When tightening wheel nuts, and using an impact wrench is required, the exact torque becomes a problem to be solved. OZAT's Torsion-bar will allow you to tighten the nut as much as you want but will not be tightened by higher torque than necessary.

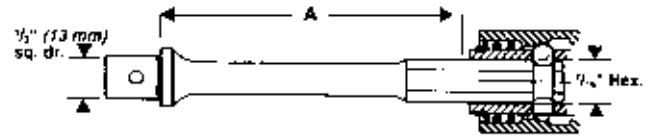
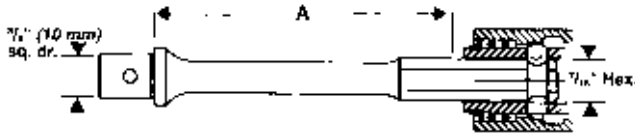
OZAT's Torsion-bar will absorb by means of Torsion all extra power generated by the impact wrench.

OZAT's Torsion-bar is pre-determinate long and narrow high quality steel socket, this socket is designed to twist and spring back when the nut reaches its correct torque and the impact wrench continues to hammer. The nut of course in this case will stop turning at the correct torque.

OZAT's Torsion-bar cannot promise minimum torque, the torque must be generated by the impact wrench used.

# TORK BAR

# QUICK CHANGE TORSION BARS

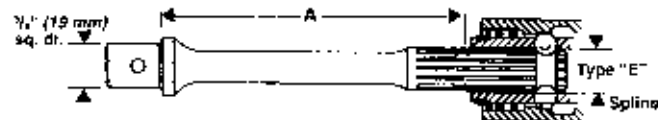
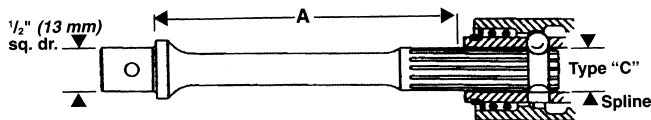


7/16" HEX DRIVE TORK BARS CP-6031-TEBAV\*

7/16" HEX DRIVE TORK BARS CP-6041-TEBAS\*

PART NUMBER	NOMINAL NUMBER & COLOR	LENGTH TORQUE RANGE				"A"
		FT. LB.	NM	IN.	MM	
C-112301	1 RED	8-10	11-14	3-3/4	95	
C-112302	2 ORANGE	10-12	14-16	3-3/4	95	
C-112303	3 YELLOW	12-15	16-20	3-3/4	95	
C-112304	4 GREEN	15-18	20-24	3-3/4	95	
C-112305	5 BLUE	18-21	24-28	3-3/4	95	
C-112306	6 PURPLE	21-24	28-33	3-3/4	95	
C-112307	7 RED/WHITE	24-27	33-37	3-3/4	95	
C-112308	8 OR/WHITE	27-30	37-41	3-3/4	95	
C-112309	9 YEL/WHITE	30-34	41-46	3-7/16	87	
C-112310 <sup>1</sup>	10 GRN/WHITE	34-38	46-52	3-7/16	87	
C-112311 <sup>1</sup>	11 BLUE/WHITE	38-42	52-57	3-7/16	87	
C-112312 <sup>1</sup>	12 PUR/WHITE	42-46	57-62	1-15/16	49	
C-113412	TORK BAR KIT					

PART NUMBER	NOMINAL NUMBER & COLOR	LENGTH TORQUE RANGE				"A"
		FT. LB.	NM	IN.	MM	
C-113201	1 RED	15-20	20-27	4-5/16	110	
C-113202	2 ORANGE	20-25	27-34	4-5/16	110	
C-113203	3 YELLOW	25-30	34-41	4-5/16	110	
C-113204	4 GREEN	30-35	41-48	4-5/16	110	
C-113205	5 BLUE	35-40	48-54	4-5/16	110	
C-113206	6 PURPLE	40-45	54-61	4-5/16	110	
C-113207	7 RED/WHITE	45-50	61-68	4-5/16	110	
C-113208	8 OR/WHITE	50-55	68-75	4-5/16	110	
C-113209	9 YEL/WHITE	55-60	75-81	4-5/16	110	
C-113210	10 GRN/WHITE	60-70	81-95	3-5/8	92	
C-113211	11 BLUE/WHITE	70-80	95-109	2-5/8	67	
C-113212	12 PUR/WHITE	80-90	109-122	1-5/8	41	
C-113765	TORK BAR KIT					



TYPE "C" SPLINE DRIVE TORK BARS CP-6041-TEBAD\*

TYPE "E" SPLINE DRIVE TORK BARS CP-6060-TESAT\*

PART NUMBER	NOMINAL NUMBER & COLOR	LENGTH TORQUE RANGE				"A"
		FT. LB.	NM	IN.	MM	
C-051531	1 RED	15-20	20-27	4-3/16	106	
C-051532	2 ORANGE	20-25	27-34	4-3/16	106	
C-051533	3 YELLOW	25-30	34-41	4-3/16	106	
C-051534	4 GREEN	30-35	41-48	4-3/16	106	
C-051535	5 BLUE	35-40	48-54	4-3/16	106	
C-051536	6 PURPLE	40-45	54-61	4-3/16	106	
C-051537	7 RED/WHITE	45-50	61-68	4-3/16	106	
C-051538	8 OR/WHITE	50-55	68-75	4-3/16	106	
C-051539	9 YEL/WHITE	55-60	75-81	4-3/16	106	
C-051540	10 GRN/WHITE	60-70	81-95	4-3/16	106	
C-051541	11 BLUE/WHITE	70-80	95-109	4-3/16	106	
C-051542	12 PUR/WHITE	80-90	109-122	4-3/16	106	
C-052329	TORK BAR KIT					

PART NUMBER	NOMINAL NUMBER & COLOR	LENGTH TORQUE RANGE				"A"
		FT. LB.	NM	IN.	MM	
C-059901	1 RED	100-110	136-149	5-9/16	141	
C-059902	2 ORANGE	110-120	149-163	5-9/16	141	
C-059903	3 YELLOW	120-130	163-176	5-9/16	141	
C-059904	4 GREEN	130-140	176-190	5-9/16	141	
C-059905	5 BLUE	140-150	190-203	5-9/16	141	
C-059906	6 PURPLE	150-160	203-217	5-9/16	141	
C-059907	7 RED/WHITE	160-170	217-230	5-9/16	141	
C-059908	8 OR/WHITE	170-180	230-244	5-9/16	141	
C-059909	9 YEL/WHITE	180-210	244-285	2-5/8	67	
C-059910	10 GRN/WHITE	210-240	285-325	2-5/8	67	
C-059911	11 BLUE/WHITE	240-270	325-366	2-5/8	67	
C-059912	12 PUR/WHITE	270-300	366-407	2-5/8	67	
C-101075	TORK BAR KIT					

Under normal working conditions a Tork Bar will hold a wrench's mean torque output within the limits listed. Under unusual work conditions it may be necessary to use a higher or lower rated bar to get desired torque. After selecting a bar for a specific job always check the selection by driving a few fasteners and measuring the torque delivered.

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