



2. CONVENTIONAL TOOLS

OPEN END WRENCHES and COMBINATION WRENCHES



CAUTION

Open end wrench/combination wrench sets

- Carefully read the individual safety warnings for the items included within the set.
- When carrying the set, make sure the metal fasteners are locked on.
- If the set includes a holder, take care to avoid jamming your hands when taking tools from the holder.

Open end wrench/combination wrenches

- Use wrenches that conform to the size of the bolts and nuts.
- Do not use by adding on pipes, etc.
- Firmly hold the bolts and nuts using the end of the tool mouth.
- The open end wrench can come loose when too much force is applied.
- Take care not to allow the tool to slip off.
- Do not use this tool as a hammer.
- Do not apply strong impact on this tool by hitting it with a hammer, etc.

OPEN END WRENCH SET (8pcs.) · (10pcs.) mm

No. TS208	▼kg 1.1	📦 1
Open End Wrench	S2-05507, 0810, 1012, 1113, 1214, 1417, 1921, 2224	

- Resin forming tray (L444xW184xH48mm) attached.

No. TS210	▼kg 1.6	📦 1
Open End Wrench	S2-05507, 0810, 1012, 1113, 1214, 1417, 1719, 1921, 2224, 2427,	

- Resin forming tray (L444xW184xH48mm) attached.

OPEN END WRENCH SET (6pcs.) mm

No. TS206	▼g 550	📦 1
Open End Wrench	S2-0810, 1012, 1113, 1214, 1417, 1719	
Holder	EHS-1	

No. TS206A	▼g 450	📦 1
Open End Wrench	S2-05507, 0810, 1113, 1214, 1719, 2224	
Holder	EHS-1	

OPEN END WRENCH SET (6pcs.) in

No. TS206B	▼g 700	📦 1
Open End Wrench in	S2- $\frac{5}{16} \times \frac{3}{8}$, $\frac{13}{32} \times \frac{1}{2}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{19}{32} \times \frac{11}{16}$, $\frac{5}{8} \times \frac{3}{4}$, $\frac{25}{32} \times \frac{7}{8}$	
Holder	EHS-1	

● OPEN END WRENCH SET (8pcs.) · (10pcs.)



TS208



TS210

● OPEN END WRENCH SET (6pcs.)



TS206

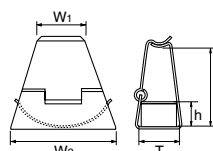


TS206A

OPEN END WRENCH HOLDER

No.	H	h	W ₁	W ₂	T	▼g	📦
EHS-1	42	14	27	60	24	55	1

● OPEN END WRENCH HOLDER



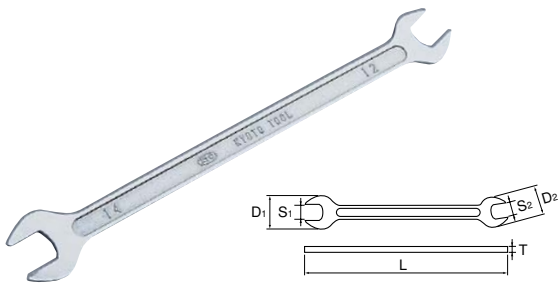
● OPEN END WRENCH



OPEN END WRENCH										mm
No.	S ₁ ×S ₂	D ₁	D ₂	T ₁	T ₂	L	▼g	📦		
S2- 05507	5.5× 7	12.5	15.5	3.5	3.5	102	15	5		
- 0607	6× 7	13	15.5	3.5	3.5	102	15	5		
- 0608	6× 8	13	17.5	4	4	107	18	5		
- 0708	7× 8	15.5	17.5	4	4	112	20	5		
- 0809	8× 9	17.5	19.5	4.5	4.5	118	30	5		
- 0810	8×10	17.5	21.5	4.5	4.5	122	40	5		
- 1011	10×11	21.5	23.5	5	5	133	45	5		
- 1012	10×12	21.5	25.5	5.5	5.5	138	60	5		
- 1013	10×13	21.5	27.5	6	6	143	60	5		
- 1014	10×14	21.5	29.5	6.5	6.5	148	65	5		
- 1113	11×13	23.5	27.5	6	6	147	65	5		
- 1214	12×14	25.5	29.5	6.5	6.5	157	75	5		
- 1315	13×15	27.5	31.5	7	7	164	90	5		
- 1317	13×17	27.5	36	7	7	168	100	5		
- 1417	14×17	29.5	36	7	7	173	105	5		
- 1618	16×18	33.5	38	8	8	188	135	5		
- 1719	17×19	36	40	7.5	7.5	195	145	5		
- 1721	17×21	36	44	8	8	203	170	5		
- 1921	19×21	40	44	8	8	218	195	5		
- 1922	19×22	40	46	8.5	8.5	223	205	5		
- 2022	20×22	42	46	8.5	8.5	228	215	5		
- 2123	21×23	44	48	8.5	8.5	233	240	5		
- 2126	21×26	44	54	8.5	8.5	238	260	5		
- 2224	22×24	46	50	9	9	244	260	5		
- 2326	23×26	48	54	9	9	248	300	5		
- 2427	24×27	50	55.5	9	9	253	320	5		
- 2528	25×28	52	57.5	9.5	9.5	263	365	5		
- 2632	26×32	54	65.5	10.5	10.5	273	460	5		
- 2730	27×30	55.5	61.5	10	10	274	430	5		
- 2732	27×32	55.5	65.5	10.5	10.5	284	480	5		
- 2932	29×32	60	65.5	10.5	10.5	288	510	5		
- 3032	30×32	61.5	65.5	10.5	10.5	294	525	5		
- 3236	32×36	65.5	74	12	12	318	710	5		
- 3538	35×38	72	78	13.5	13.5	334	905	5		
- 3638	36×38	74	78	13.5	13.5	354	945	5		
- 4146	41×46	84	94	14	14	399	1315	5		

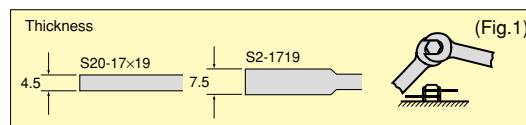
OPEN END WRENCH										in
No.	S ₁ ×S ₂	D ₁	D ₂	T ₁	T ₂	L	▼g	📦		
S2-1/4×5/16	6.3× 7.9	13	17.5	4	4	107	18	5		
-5/16×3/8	7.9× 9.5	17.5	21.5	4.5	4.5	122	40	5		
-3/4×1/16	9.5×11.1	21.5	23.5	5	5	133	45	5		
-13/32×1/2	10.3×12.7	21.5	27.5	6	6	143	60	5		
-7/16×1/2	11.1×12.7	23.5	27.5	6	6	147	65	5		
-1/2×9/16	12.7×14.2	27.5	29.5	6.5	6.5	160	74	5		
-9/16×5/8	14.2×15.8	29.5	33.5	7	7	169	97	5		
-19/32×11/16	15 ×17.4	31.5	36	7	7	175	106	5		
-5/8×11/16	15.8×17.4	33.5	36	7	7	177	110	5		
-5/8×3/4	15.8×19	33.5	40	7.5	7.5	192	133	5		
-11/16×3/4	17.4×19	36	40	7.5	7.5	195	145	5		
-3/4×25/32	19 ×19.8	40	42	8	8	216	177	5		
-3/4×13/16	19 ×20.6	40	44	8	8	218	195	5		
-25/32×7/8	19.8×22.2	42	46	8.5	8.5	228	215	5		
-13/16×7/8	20.6×22.2	44	46	8.5	8.5	231	224	5		
-15/16×1	23.8×25.4	50	52	9	9	249	300	5		
-1×1-1/16	25.4×26.9	52	55.5	9	9	256	327	5		
-1-1/8×1-1/4	28.5×31.7	60	65.5	10.5	10.5	288	510	5		

● SLIM TYPE OPEN END WRENCH · SET (6pcs.)



SLIM TYPE OPEN END WRENCH (S20)·SET (6pcs.)										mm
No. S206		▼g 544		📦 1						
Slim Type Open End Wrench (mm)						S20-10×12, 12×10, 12×14, 14×12, 17×19, 19×17				
• Set of each 2 pcs. of same size combination with different angles.										
No.	S ₁ ×S ₂	D ₁	D ₂	T	L	▼g	📦			
S20-10×12	10×12	21	26	4	210	64	5			
-12×10	12×10	26	21	4	210	64	5			
-12×14	12×14	26	30	4	215	75	5			
-14×12	14×12	30	26	4	215	75	5			
-17×19	17×19	36	40	4.5	235	120	5			
-19×17	19×17	40	36	4.5	235	120	5			

• Fit to use in small spaces for tightening/loosening double nuts (Fig.1)



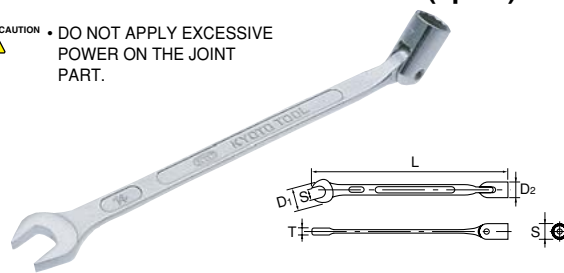
FLEX-SOCKET SPANNER-SET (6pcs.) mm

No. FBS6	▼g 800		☞ 1				
Flex-Socket Spanner	FBS-10, 12, 13, 14, 17, 19						
No.	S	D ₁	D ₂	T	L	▼g	☞
FBS-10	10	22	14	6	180	66	5
-12	12	26	17	6.5	205	100	5
-13	13	28	18	6.5	210	105	5
-14	14	29	19	6.5	230	140	5
-17	17	36	23	7	250	200	5
-19	19	40	26	7.5	265	230	5

• Quick turning at open end side and tight fastening at socket side.

● FLEX-SOCKET SPANNER · SET (6pcs.)

CAUTION • DO NOT APPLY EXCESSIVE POWER ON THE JOINT PART.



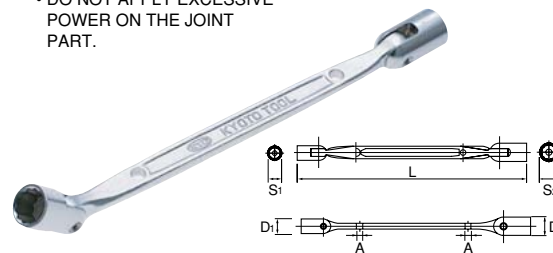
FLEX-HEAD SOCKET-SET (3pcs.) mm

No. FBH103	▼g 370		☞ 1				
Flex-Head Socket	FBH1-8x9, 10x12, 13x14						
No.	S ₁ ×S ₂	D ₁	D ₂	A	L	▼g	☞
FBH1 - 8×9	8×9	12	13.5	5.5	200	80	10
- 8×10	8×10	12	14.5	5.5	200	90	10
-10×12	10×12	14.5	17	5.5	215	120	10
-12×14	12×14	17	20	6.5	230	160	10
-13×14	13×14	18.5	20	6.5	230	170	10
-14×17	14×17	20	23.5	7.5	245	220	10
-17×19	17×19	23.5	26	7.5	250	250	10

• Convenient for use in narrow space and for quick turning.

● FLEX-HEAD SOCKET · SET (3pcs.)

CAUTION • DO NOT APPLY EXCESSIVE POWER ON THE JOINT PART.



COMBINATION WRENCH SET (8pcs.) · (10pcs.) · (12pcs.) mm

No. TMS208	▼kg 1		☞ 1	
Combination Wrench	MS2-07, 08, 10, 12, 13, 14, 17, 19			

• Pla. tray (L444xW184xH48mm)

No. TMS210	▼kg 1.1		☞ 1	
Combination Wrench	MS2-055, 07, 08, 10, 12, 13, 14, 15, 17, 19			

• Pla. tray (L444xW184xH48mm)

No. TMS212	▼kg 1.6		☞ 1	
Combination Wrench	MS2-055, 07, 08, 10, 12, 13, 14, 15, 17, 19, 21, 22			

• Pla. tray (L444xW184xH48mm)

COMBINATION WRENCH SET (8pcs.) in

No. TMS208B	▼kg 1		☞ 1	
Combination Wrench	in	MS2- 1/4, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4		

• Pla. tray (L444xW184xH48mm)

● COMBINATION WRENCH SET (8pcs.) (10pcs.) (12pcs.)



TMS208

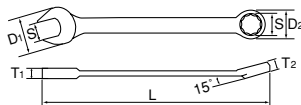


TMS210



TMS212

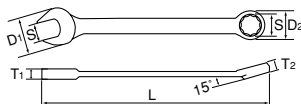
● COMBINATION WRENCH



COMBINATION WRENCH									mm
No.	S*	D ₁	D ₂	T ₁	T ₂	L	▼g	☞	
MS2-032	3.2	8	7.5	3	3	75	6	5	
-04	4	9	8.5	3	4	80	8	5	
-045	4.5	10	9	3	4	85	10	5	
-05	5	11	9.5	3	4.5	90	11	5	
-055	5.5	12.5	10	3	4.5	96	13	5	
-06	6	13	10.5	3	4.5	96	14	5	
-07	7	15.5	12	3.5	5	111	20	5	
-08	8	17.5	13	4	5.5	126	28	5	
-09	9	19.5	14.5	4.5	6	136	36	5	
-10	10	21.5	16	4.5	6.5	151	42	5	
-11	11	23.5	17	5	7	161	55	5	
-12	12	25.5	18	5.5	7.5	170	65	5	
-13	13	27.5	19	6	8.5	188	85	5	
-14	14	29.5	20.5	6	9.5	190	98	5	
-15	15	31.5	22.5	7	10	200	119	5	
-16	16	33.5	23.5	7	10.5	215	134	5	
-17	17	36	25	7	10.5	225	153	5	
-18	18	38	26.5	8	11.5	241	184	5	
-19	19	40	27.5	7.5	12	256	205	5	
-20	20	42	29.5	8	12	271	234	5	
-21	21	44	30.5	8	13	289	267	5	
-22	22	46	32	8.5	13.5	304	305	5	
-23	23	48	33.5	8.5	14.5	311	331	5	
-24	24	50	35	9	15	337	380	5	
-25	25	52	36	9	15.5	351	423	5	
-26	26	54	37.5	9	16	371	466	5	
-27	27	55.5	39	9	16.5	381	502	5	
-28	28	57.5	40.5	9.5	17	401	561	5	
-29	29	60	43.5	10	18	421	650	1	
-30	30	61.5	43.5	10	18	446	687	1	
-31	31	63.5	45.5	10.5	18	462	790	1	
-32	32	65.5	46.5	10.5	18	471	836	1	
-33	33	67.5	47.5	11	20	477	904	1	
-34	34	69.5	52	11	21	480	1030	1	
-35	35	72	52	12	21	481	1070	1	
-36	36	74	52	12	21	501	1155	1	
-38	38	78	54.5	13.5	22	521	1382	1	
-41	41	84	59	14	24.5	542	1680	1	
-46	46	94	66	14	26	562	2142	1	

* 5mm and below the offset side is the hexagonal diameter. **POWERTOOL** (Except the following from 5mm)

● COMBINATION WRENCH



COMBINATION WRENCH									in
No.	S*	D ₁	D ₂	T ₁	T ₂	L	▼g	☞	
MS2-1/8	3.1	8	7.5	3	3	75	6	5	
-5/32	3.9	9	8.5	3	4	80	8	5	
-3/16	4.7	10	9	3	4	85	10	5	
-13/64	5.1	11	9.5	3	4.5	90	11	5	
-7/32	5.5	12.5	10	3	4.5	96	13	5	
-15/64	5.9	13	10.5	3	4.5	96	14	5	
-1/4	6.3	13	10.5	3	4.5	96	14	5	
-9/32	7.1	15.5	12	3.5	5	111	20	5	
-5/16	7.9	17.5	13	4	5.5	126	28	5	
-11/32	8.7	19.5	14.5	4.5	6	136	36	5	
-3/8	9.5	21.5	16	4.5	6.5	151	42	5	
-7/16	11.1	23.5	17	5	7	161	55	5	
-1/2	12.7	27.5	19	6	8.5	188	85	5	
-9/16	14.2	29.5	20.5	6	9.5	190	98	5	
-19/32	15	31.5	22.5	7	10	200	119	5	
-5/8	15.8	33.5	23.5	7	10.5	215	134	5	
-11/16	17.4	36	25	7	10.5	225	153	5	
-3/4	19	40	27.5	7.5	12	256	205	5	
-25/32	19.8	42	29.5	8	12	271	234	5	
-13/16	20.6	44	30.5	8	13	289	267	5	
-7/8	22.2	46	32	8.5	13.5	304	305	5	
-15/16	23.8	50	35	9	15	337	380	5	
-1	25.4	52	36	9	15.5	351	423	5	
-1-1/16	26.9	55.5	39	9	16.5	381	502	5	
-1-1/8	28.5	60	43.5	10	18	421	650	5	
-1-3/16	30.1	61.5	43.5	10	18	446	687	5	
-1-1/4	31.7	65.5	46.5	10.5	18	471	836	5	
-1-5/16	33.3	67.5	47.5	11	20	477	904	5	
-1-3/8	34.9	72	52	12	21	481	1070	1	
-1-7/16	36.5	74	52	12	21	501	1155	1	
-1-1/2	38.1	78	54.5	13.5	22	521	1382	1	

* 13/64in and below the offset side is the hexagonal diameter.