

**WRENCHES TECHNICAL INFORMATION**

**Brittool wrench features**

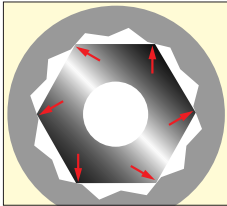
- Stress relief drive on rings – promotes higher torque loads
- Thin wall rings – ease of access
- Special formulation steel – increases load carrying capabilities
- Drop forged – ensures uniform grain structure for strength and durability
- Broached jaw and ring – greater accuracy and prolongs tool life
- Controlled heat treatment – ensures optimum wear characteristics without being brittle
- Chrome plating – corrosion protection

**Stress Relief Drive – SRD**

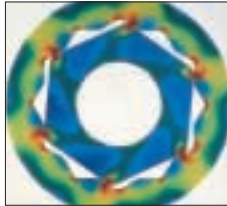
The 12 point SRD configuration is generated by a series of successive radii, which have the effect of increasing the contact area between the socket and fastener and moves the contact point away from the corner of the fastener, thus relieving the stress areas. Stress relieved drive prolongs tool life increases tightening torque and prevents damage to fasteners.



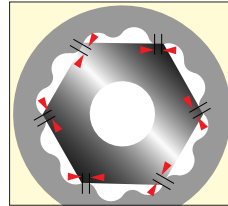
Brittool 3D CAD drawing showing construction of a combination wrench.



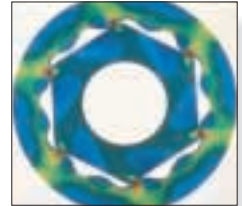
**CONVENTIONAL PROFILE**  
Corner point contact high stress areas



Highlights show contact points on the corner of the fastener



**SRD PROFILE**  
Distributed surface loads relieves possible stress area



Highlights show contact points away from the corner of the fastener

A combination of special formulation steel and carefully controlled heat treatment facilitates Brittool's thin walled construction. It ensures the correct balance of hardening and tempering, maintaining optimum hardness without being brittle.

Load testing illustrates the amount of flexing Brittool wrenches can withstand without taking permanent deformation. The load required to produce a permanent deformation far exceeds British and ISO standards.

The following wrenches illustrate the load at which deformation occurred. Note, the final wrench broke after continual overloading above 1020N.m and the fracture point occurred on the shank not on the ring.

**408N.m 840N.m 960N.m 1020N.m 1020N.m+**



## Drop Forging

The forge-maker art is a vital process in Britool's manufacturing capability.

- Drop forging ensures uniform grain flow. Giving strength and durability
- Compact grain structure reduces the likelihood of chipping and breaking



## Chromium Plating

Computer controlled plating process ensures a consistently high quality of nickel and chrome plating.

- Nickel and chrome plating ensures binding of chrome and maximum corrosion resistance



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## Broaching

- Broached jaws and rings ensure close and consistent tolerances



## Standards applying to Britool range of wrenches

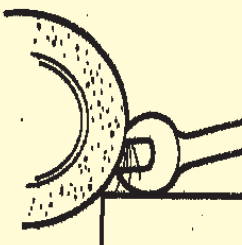
Combination wrench dimensions conform to BS 7586: 1992.

Open jaw wrench dimensions conform to BS 192: 1982.

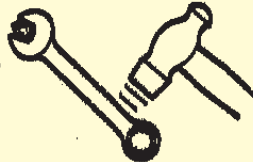
Ring wrench dimensions conform to BS 3555: 1988.

Chrome plating conforms to BS 1224: 1970, service condition No. 1.

### SAFETY MEASURES



Never grind or alter the shape of the wrench



Never hammer or strike a wrench unless it is designed for this use



Never work with damaged or chipped tools



Always ensure there is a positive fit onto the fastener



Do not extend length of wrench by locking two together

**COMBINATION WRENCHES**

Brittool combination wrenches have a broached ring at one end and an open jaw at the other, both ends fit the same fastener size. The jaw and ring are offset at an angle of 15°. Manufactured from the highest quality alloy steel. Bright nickel and chrome plated finish to BS 1224: 1970, service condition No. 1.  
**All dimensions conform to BS 7586: 1992.**



Large combination wrench with black phosphate finish and cranked ring end.



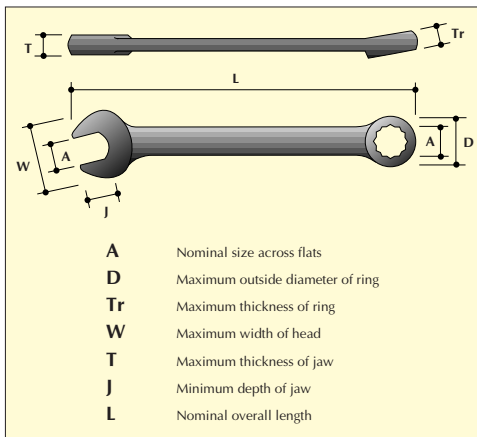
**Metric – Bihexagon Ring**

Ref.	A mm	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJM6	6	10.3	3.8	13.1	3.1	7.1	79	0.02
RJM7	7	10.5	4.3	14.9	3.3	8.0	92	0.02
RJM8	8	12.1	5.0	17.1	3.9	9.1	106	0.02
RJM9	9	13.1	5.4	18.0	4.2	9.6	114	0.03
RJM10	10	14.6	6.1	20.6	4.6	10.9	130	0.04
RJM11	11	17.5	6.8	23.0	5.1	12.1	144	0.05
RJM12	12	17.8	7.4	25.3	5.5	13.2	159	0.07
RJM13	13	20.5	8.1	27.5	6.0	14.3	173	0.09
RJM14	14	21.9	8.8	29.8	6.5	15.5	192	0.11
RJM15	15	23.5	9.4	31.4	6.9	16.5	206	0.12
RJM16	16	24.5	9.9	33.6	7.2	17.4	216	0.14
RJM17	17	26.3	10.7	36.3	7.8	18.7	233	0.16
RJM18	18	27.4	11.2	37.9	8.1	19.5	241	0.17
RJM19	19	29.0	11.8	40.0	8.5	20.6	254	0.23
RJM20	20	30.2	12.4	42.1	8.9	21.6	268	0.25
RJM21	21	31.4	12.9	43.9	9.2	22.5	283	0.31
RJM22	22	33.2	13.7	46.6	9.8	23.9	300	0.37
RJM23	23	34.5	14.3	48.4	10.2	24.8	308	0.40
RJM24	24	35.5	14.7	49.9	10.5	25.5	321	0.48
RJM25	25	37.3	15.5	52.6	11.0	26.1	333	0.56
RJM26	26	38.5	16.0	54.4	11.2	27.8	349	0.51
RJM27	27	39.8	16.7	56.8	11.8	29.0	362	0.57
RJM28	28	42.4	16.4	62.4	12.0	30.0	378	0.62
RJM30	30	45.4	16.4	62.4	12.0	32.0	380	0.77
RJM32	32	48.4	16.4	67.4	12.0	34.0	402	0.88
RJM34	34	50.0	17.8	71.0	12.3	40.0	417	1.00
RJM36	36	54.4	18.4	74.4	12.8	39.0	456	1.30
RJM41	41	65.4	23.4	88.4	15.6	47.0	550	1.87
RJM46*	46	69.0	24.0	95.0	15.0	47.0	520	1.30
RJM50*	50	75.0	26.0	103.0	16.5	52.0	560	1.45
RJM55*	55	84.5	28.0	113.0	18.0	57.0	610	1.55
RJM60*	60	90.0	31.0	123.0	20.0	61.0	660	2.30
RJM65*	65	98.0	33.0	133.0	22.0	66.0	710	2.65
RJM70*	70	105.0	35.0	143.0	24.0	72.0	760	3.00
RJM75*	75	110.0	38.0	153.0	26.0	76.0	810	3.10
RJM80*	80	119.0	41.0	163.0	28.0	82.0	860	4.00

**A/F – Bihexagon Ring**

Ref.	A in	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJ250	1/4	10.3	3.8	13.1	3.1	7.1	80	0.02
RJ312	5/16	12.1	5.0	17.1	3.9	9.1	106	0.03
RJ344	11/32	13.1	5.4	18.0	4.2	9.6	114	0.03
RJ375	3/8	16.2	6.1	20.7	4.6	10.9	130	0.04
RJ437	7/16	17.5	6.8	23.0	5.1	12.1	144	0.05
RJ500	1/2	20.5	8.1	27.5	6.0	14.3	173	0.08
RJ562	9/16	21.9	8.8	29.8	6.5	15.5	192	0.11
RJ625	5/8	24.5	9.9	33.6	7.2	17.4	216	0.14
RJ687	11/16	26.3	10.7	36.3	7.8	18.7	233	0.17
RJ750	3/4	28.8	11.8	40.0	9.1	20.6	254	0.23
RJ812	13/16	31.6	12.9	43.9	9.2	22.5	283	0.28
RJ875	7/8	33.2	13.7	46.6	9.8	23.9	300	0.33
RJ937	15/16	35.5	14.7	49.9	10.5	25.5	320	0.41
RJ1000	1	37.3	15.5	52.6	11.0	26.1	333	0.45
RJ1062	11/16	40.1	16.7	56.8	11.8	29.0	362	0.54
RJ1125	1 1/8	42.4	16.4	62.4	12.0	30.0	378	0.68
RJ1250	1 1/4	48.4	16.4	67.4	12.0	34.0	402	0.91
RJ1312	1 1/8	48.4	16.4	67.4	12.0	34.0	402	0.96
RJ1375	1 3/8	54.4	18.4	74.4	12.8	39.0	456	1.19
RJ1437	17/16	54.4	18.4	74.4	12.8	39.0	456	1.33
RJ1500	1 1/2	60.4	20.4	81.4	13.4	44.0	504	1.47
RJ1625*	1 5/8	65.4	23.4	88.4	15.6	47.0	550	1.88
RJ1687*	1 7/8	62.0	22.0	85.0	13.5	46.0	470	0.95
RJ1750*	1 3/4	62.0	22.0	85.0	13.5	47.0	470	0.95
RJ1812*	1 13/16	69.0	24.0	95.0	15.0	47.0	520	1.30
RJ1875*	1 7/8	69.0	24.0	95.0	15.0	52.0	520	1.30
RJ2000*	2	75.0	26.0	103.0	16.5	53.0	560	1.45
RJ2062*	2 1/16	75.0	26.0	103.0	16.5	58.0	560	1.45
RJ2125*	2 1/8	84.5	28.0	113.0	18.0	61.0	610	1.55
RJ2250*	2 1/4	84.5	28.0	113.0	18.0	62.0	610	1.55
RJ2375*	2 3/8	90.0	31.0	123.0	20.0	62.0	660	2.30
RJ2437*	2 7/16	90.0	31.0	123.0	20.0	65.0	660	2.30
RJ2500*	2 1/2	98.0	33.0	133.0	22.0	65.0	710	2.65
RJ2750*	2 3/4	105.0	35.0	143.0	24.0	73.0	760	3.00
RJ3000*	3	110.0	38.0	153.0	26.0	76.0	810	3.10
RJ3250*	3 1/4	119.0	41.0	163.0	28.0	85.0	860	4.00

\*Phosphate (black) rust proof finish with cranked ring end.



**Whitworth – Bihexagon Ring**

Ref.	A in	Whit BA	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg	
RJ248	0.25	-	4	10.3	3.8	13.1	3.1	7.1	80	0.02
RJ324	0.32	-	2	12.1	5.0	17.1	3.9	9.1	106	0.03
RJ338	0.34	1/8	-	13.1	5.4	18.0	4.2	9.6	114	0.03
RJ413	0.41	-	0	17.5	6.8	23.0	5.1	12.1	144	0.05
RJ445	0.45	3/16	-	17.5	6.8	23.0	5.1	12.1	144	0.05
RJ525	0.53	1/4	-	20.5	8.1	27.5	6.0	14.3	173	0.08
RJ600	0.60	5/16	-	23.3	9.4	31.4	6.9	16.5	206	0.12
RJ710	0.71	3/8	-	27.4	11.2	37.9	8.1	19.5	241	0.20
RJ820	0.82	7/16	-	31.4	12.9	43.9	9.2	22.5	283	0.29
RJ920	0.92	1/2	-	35.5	14.7	49.9	10.5	25.5	320	0.41
RJ1010	1.01	9/16	-	38.5	16.0	54.4	11.4	27.8	349	0.48
RJ1100	1.10	5/8	-	42.4	16.4	62.4	10.4	30.0	378	0.65
RJ1200	1.20	11/16	-	45.4	16.4	62.4	10.4	32.0	380	0.79
RJ1300	1.30	3/4	-	48.4	16.4	67.4	10.4	34.0	403	1.02
RJ1480	1.48	7/8	-	60.4	20.4	81.4	13.4	44.0	505	1.45

## MINI COMBINATION WRENCHES

### Metric – Bihexagon Ring

Ref.	A mm	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJSM6	6	10.26	3.80	12.95	3.10	7.60	80	0.01
RJSM7	7	11.68	4.30	15.00	3.40	9.20	83	0.01
RJSM8	8	12.10	5.00	16.70	3.90	9.80	92	0.01
RJSM9	9	13.30	5.40	18.70	4.20	10.30	99	0.02
RJSM10	10	16.27	6.07	21.50	4.60	12.60	110	0.03
RJSM11	11	17.52	6.70	23.50	5.10	13.40	119	0.04
RJSM12	12	18.70	7.40	24.40	5.50	14.40	127	0.05
RJSM13	13	20.34	8.00	26.50	6.00	16.20	136	0.05
RJSM14	14	21.87	8.76	29.00	6.45	17.40	148	0.07
RJSM15	15	23.54	9.40	30.80	6.80	18.80	155	0.08
RJSM16	16	24.62	9.88	32.70	7.20	19.60	166	0.09
RJSM17	17	25.48	10.60	35.20	7.70	21.30	176	0.11
RJSM18	18	26.62	11.20	36.60	8.10	22.20	186	0.13
RJSM19	19	28.06	11.70	38.70	9.10	23.70	194	0.16

### A/F – Bihexagon Ring

Ref.	A in	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJS187	3/16	9.00	3.10	10.70	2.70	6.00	66	0.01
RJS218	7/32	10.00	3.50	11.80	3.00	7.20	73	0.01
RJS250	1/4	10.26	3.80	12.95	3.10	7.60	80	0.01
RJS281	9/32	11.68	4.30	15.00	3.40	9.20	83	0.01
RJS312	5/16	12.10	5.00	16.70	3.90	9.80	92	0.01
RJS344	11/32	13.30	5.40	18.70	4.20	10.30	99	0.02
RJS375	3/8	14.58	6.07	21.50	4.60	12.60	110	0.03
RJS437	7/16	17.52	6.70	23.50	5.10	13.40	119	0.04
RJS500	1/2	20.34	8.00	26.50	6.00	16.20	136	0.05
RJS562	9/16	21.87	8.76	29.00	6.45	17.40	148	0.07
RJS625	5/8	24.62	9.88	32.70	7.20	19.60	166	0.09
RJS687	11/16	25.48	10.60	35.20	7.70	21.30	176	0.11
RJS750	3/4	28.06	11.70	38.70	9.10	23.70	194	0.16

See page 5 for combination wrench sets.



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## HEXAGON COMBINATION WRENCHES

### Metric

Designed for users who prefer a hexagon ring form which gives a strong positive location on the fastener.

Ref.	A mm	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJHM10	10	16.3	6.1	21.5	4.6	12.6	137	0.04
RJHM11	11	17.5	6.7	23.5	5.1	13.4	148	0.05
RJHM12	12	18.7	7.4	24.4	5.5	14.4	164	0.07
RJHM13	13	20.3	8.0	26.5	6.0	16.2	173	0.09
RJHM14	14	21.9	8.8	29.0	6.5	17.4	195	0.11
RJHM15	15	23.5	9.4	30.8	6.8	18.8	204	0.12
RJHM16	16	24.6	9.9	32.7	7.2	19.6	218	0.14
RJHM17	17	25.5	10.6	35.2	7.7	21.3	235	0.16
RJHM18	18	26.6	11.2	36.6	8.1	22.3	244	0.17
RJHM19	19	28.0	11.7	38.7	9.1	23.7	257	0.23



### A/F

Ref.	A in	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJH375	3/8	14.6	6.1	21.5	4.6	12.6	137	0.04
RJH437	7/16	17.5	6.7	23.5	5.1	13.4	148	0.05
RJH500	1/2	20.3	8.0	26.5	6.0	16.2	173	0.08
RJH562	9/16	21.9	8.8	29.0	6.5	17.4	195	0.11
RJH625	5/8	24.6	9.9	32.7	7.2	19.6	218	0.14
RJH687	11/16	25.5	10.6	35.2	7.7	21.3	235	0.17
RJH750	3/4	28.0	11.7	38.7	9.1	23.7	257	0.23

See page 6 for hexagon combination wrench sets.



## LONG COMBINATION WRENCHES

### Metric

For use where access is restricted or when higher tightening torque loads are required.

Ref.	A mm	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJXM10	10	16.3	6.1	21.5	4.6	12.6	190	0.05
RJXM11	11	17.5	6.7	23.5	5.1	13.4	208	0.06
RJXM12	12	18.7	7.4	24.4	5.5	14.4	226	0.08
RJXM13	13	20.3	8.0	26.5	6.0	16.2	244	0.09
RJXM14	14	21.9	8.8	29.0	6.5	17.4	262	0.13
RJXM15	15	23.5	9.4	30.8	6.8	18.8	280	0.14
RJXM16	16	24.6	9.9	32.7	7.2	19.6	298	0.17
RJXM17	17	25.5	10.6	35.2	7.7	21.3	315	0.19
RJXM18	18	26.6	11.2	36.6	8.1	22.3	334	0.21
RJXM19	19	28.0	11.7	38.7	9.1	23.7	351	0.27

### A/F

Ref.	A in	D mm	Tr mm	W mm	T mm	J mm	L mm	Wt. kg
RJX375	3/8	14.6	6.1	21.5	4.6	12.6	190	0.05
RJX437	7/16	17.5	6.7	23.5	5.1	13.4	208	0.06
RJX500	1/2	20.3	8.0	26.5	6.0	16.2	244	0.09
RJX562	9/16	21.9	8.8	29.0	6.5	17.4	262	0.13
RJX625	5/8	24.6	9.9	32.7	7.2	19.6	298	0.17
RJX687	11/16	25.5	10.6	35.2	7.7	21.3	315	0.19
RJX750	3/4	28.0	11.7	38.7	9.1	23.7	351	0.27

See page 6 for long combination wrench sets.



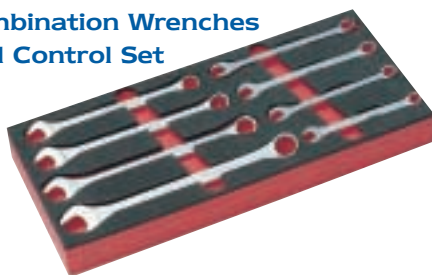
**COMBINATION WRENCH SETS**

Wrench sets marked \* are supplied in red PVC wallets.  
 Wrench sets marked # can be supplied in blue canvas wallets,  
 to order use Ref. plus BW (eg ND336TBW).

**Combination Wrenches**



**Combination Wrenches  
 Tool Control Set**



Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
ND336T*#	10, 11, 12, 13, 14, 17, 19mm	7	0.73
ND349K#	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	12	1.23
ND360E	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24mm	17	2.81

Ref.	Sizes	Pieces per set	Wt. kg
	<b>A/F</b>		
ND235C*#	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	0.82
ND243L#	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16 in	10	1.84
ND251D	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4 in	14	4.42

Ref.	Sizes	Pieces per set	Wt. kg
	<b>Whitworth</b>		
ND130A	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 W	7	1.18
ND150J	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, W	11	4.13

Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
SRJM7	10, 11, 12, 13, 14, 17, 19mm	7	0.88

Ref.	Sizes	Pieces per set	Wt. kg
	<b>A/F</b>		
SRJ7	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	0.95

Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
RJM10/STC	10, 11, 12, 13, 14, 16, 17, 19mm	8	0.89

## COMBINATION WRENCH SETS

Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
RJXM7/S	10, 11, 12, 13, 14, 15, 17mm	7	0.88
RJXM7/S19	10, 11, 12, 13, 14, 17, 19mm	7	1.03
RJXM10/S	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	10	1.61

Ref.	Sizes	Pieces per set	Wt. kg
	<b>A/F</b>		
RJX7/S	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	1.14

### Long Combination Wrenches



Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
RJHM7/S	10, 11, 12, 13, 14, 15, 17mm	7	0.70
RJHM7/S19	10, 11, 12, 13, 14, 17, 19mm	7	0.80
RJHM10/S	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	10	1.23

Ref.	Sizes	Pieces per set	Wt. kg
	<b>A/F</b>		
RJH7/S	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	0.85

### Hexagon Combination Wrenches



Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
SRJSM14	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	14	0.86

Ref.	Sizes	Pieces per set	Wt. kg
	<b>A/F</b>		
SRJS11	1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	11	0.60

### Mini Combination Wrenches



Ref.	Sizes	Pieces per set	Wt. kg
	<b>Metric</b>		
RJXM7/STC	10, 11, 12, 13, 14, 17, 19mm	7	1.04

### Long Combination Wrenches Tool Control Set

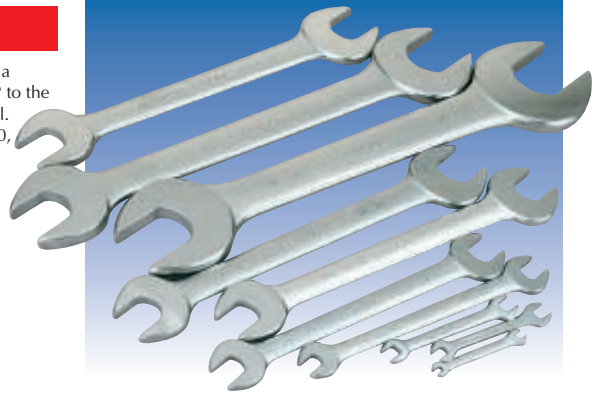


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**OPEN JAW WRENCHES**

Brittool open jaw wrenches are double-ended and have a different size at each end. The jaws are broached at 15° to the shank. Manufactured from the highest quality alloy steel. Bright nickel and chrome plated finish to BS 1224: 1970, service condition No. 1 unless otherwise stated. All dimensions conform to BS 192: 1982.



**Metric**

Ref.	A mm	T mm	D		W		L mm	Wt. kg
			Small mm	Large mm	Small mm	Large mm		
2JM45	4 x 5	3.4	5.5	6.8	12.3	13.5	96	0.02
2JM557	5.5 x 7	4.1	7.6	9.2	15.5	18.5	122	0.02
2JM67	6 x 7	4.1	7.1	8.7	16.7	19.8	121	0.02
2JM78	7 x 8	4.2	8.7	8.7	19.8	19.8	138	0.03
2JM89	8 x 9	4.1	8.7	10.3	19.8	24.6	140	0.03
2JM810	8 x 10	4.2	8.7	10.3	19.8	24.6	140	0.03
2JM1011	10 x 11	4.7	11.1	12.7	23.0	27.0	157	0.05
2JM1013	10 x 13	4.9	10.3	15.1	24.6	32.5	168	0.06
2JM1213	12 x 13	5.1	13.5	15.1	28.6	32.5	171	0.07
2JM1317	13 x 17	6.7	15.1	18.3	32.5	40.5	200	0.12
2JM1415	14 x 15	5.5	15.1	16.7	32.5	35.7	184	0.10
2JM1617	16 x 17	6.7	16.7	19.1	35.7	40.5	200	0.13
2JM1618	16 x 18	6.7	17.8	19.7	35.7	40.5	198	0.12
2JM1719	17 x 19	7.2	19.8	21.4	40.5	46.0	213	0.18
2JM1819	18 x 19	7.2	19.8	21.4	40.5	46.0	213	0.20
2JM1922	19 x 22	7.6	21.4	24.6	46.0	50.8	245	0.23
2JM1924	19 x 24	7.8	21.4	24.6	19.2	24.2	244	0.23
2JM2022	20 x 22	7.9	21.4	24.6	46.0	50.8	245	0.23
2JM2123	21 x 23	7.9	21.4	24.6	46.0	50.8	245	0.23
2JM2224	22 x 24	8.1	24.6	26.2	50.8	57.2	259	0.33
2JM2426	24 x 26	8.3	24.6	26.2	50.8	57.2	259	0.33
2JM2427	24 x 27	8.1	26.2	29.4	57.2	61.9	286	0.38
2JM2430	24 x 30	9.3	28.0	33.5	56.5	66.0	313	0.38
2JM2528	25 x 28	9.0	28.3	31.4	57.0	60.0	285	0.38
2JM2730	27 x 30	9.8	29.4	31.8	61.9	66.7	315	0.53
2JM2732	27 x 32	10.5	29.3	34.9	61.9	71.4	317	0.53
2JM3032	30 x 32	10.5	31.8	34.9	66.7	71.4	321	0.56
2JM3036	30 x 36	11.4	37.0	45.5	64.0	80.0	326	1.10
2JM3236	32 x 36	14.6	39.0	44.0	73.0	81.8	368	1.19
2JM3641	36 x 41	16.3	43.9	49.5	80.8	89.0	343	1.62
2JM4146*	41 x 46	17.0	48.0	54.0	89.0	99.0	432	2.08
2JM4650*	46 x 50	17.7	54.0	57.5	94.0	106.0	466	2.46
2JM5055*	50 x 55	19.3	59.0	65.0	109.0	119.5	508	3.30
2JM5560*	55 x 60	19.3	59.0	65.0	106.0	116.0	508	3.30

\*Phosphate (black) rust proof finish.



Large open jaw wrench with black phosphate finish.

**A/F**

Ref.	A in	T mm	D		W		L mm	Wt. kg
			Small mm	Large mm	Small mm	Large mm		
2J2531	1/4 x 5/16	4.1	7.1	8.7	16.7	19.8	121	0.02
2J3137	5/16 x 3/8	4.1	8.7	10.3	19.8	24.6	140	0.03
2J3743	3/8 x 7/16	4.7	11.1	13.5	23.0	27.0	157	0.05
2J4350	7/16 x 1/2	5.1	13.5	15.1	28.6	32.5	171	0.07
2J5056	1/2 x 9/16	5.5	15.1	16.7	32.5	35.7	184	0.10
2J5662	9/16 x 5/8	5.5	15.1	16.7	32.5	35.7	184	0.12
2J5668	9/16 x 11/16	6.7	15.1	18.3	32.5	40.5	200	0.12
2J6268	5/8 x 11/16	6.7	16.7	19.1	35.7	40.5	200	0.14
2J6275	5/8 x 3/4	6.9	18.3	21.4	40.5	46.0	213	0.14
2J6875	11/16 x 3/4	7.2	18.3	21.4	40.5	46.0	213	0.15
2J7587	3/4 x 7/8	7.9	21.4	24.6	46.0	50.8	245	0.23
2J8187	13/16 x 7/8	7.9	21.4	24.6	46.0	50.8	245	0.24
2J8193	13/16 x 15/16	7.9	21.4	24.6	46.0	50.8	245	0.24
2J93100	15/16 x 1	8.3	24.6	26.2	50.8	57.2	259	0.31
2J93112	15/16 x 1 1/8	9.0	28.5	31.4	57.0	60.0	285	0.30
2J106112	11/16 x 1 1/8	9.8	29.4	31.8	61.9	65.7	315	0.32
2J106125	11/16 x 1 1/4	9.1	29.4	34.9	61.9	71.4	317	1.10
2J112131	11/8 x 1 3/16	10.5	29.3	34.9	61.9	71.4	317	0.53
2J125143	1 1/4 x 1 1/16	12.0	39.0	44.0	70.0	78.5	330	1.13
2J131150	1 1/2 x 1 1/2	12.0	39.0	44.0	70.0	78.5	330	1.08
2J143162	1 7/16 x 1 5/8	16.3	43.2	48.3	80.8	89.0	384	1.62
2J162181*	1 5/8 x 1 13/16	16.4	48.0	54.0	86.0	96.0	432	2.08
2J168187*	1 11/16 x 1 7/8	16.4	48.0	54.0	86.0	96.0	432	2.08
2J181200*	1 13/16 x 2	17.7	54.0	57.5	94.0	106.0	467	2.46
2J206225*	2 1/16 x 2 1/4	19.3	59.0	65.0	107.0	118.0	508	3.30
2J218237*	2 3/16 x 2 3/8	19.3	59.0	65.0	106.0	116.0	508	3.30

\*Phosphate (black) rust proof finish.



**Whitworth**

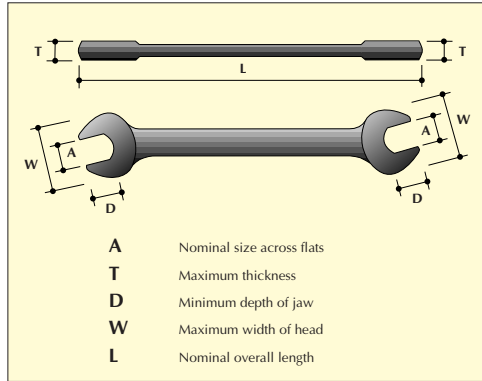
Ref.	A in	Whit size	T mm	D		W		L mm	Wt. kg
				Small mm	Large mm	Small mm	Large mm		
2J3344	0.34 x 0.45	1/8 x 3/16	4.7	11.1	13.5	23.0	27.0	157	0.05
2J4452	0.45 x 0.53	3/16 x 1/4	5.1	13.5	15.1	28.6	32.5	171	0.06
2J5260	0.53 x 0.60	1/4 x 5/16	5.5	15.1	16.7	32.5	35.7	184	0.09
2J6071	0.60 x 0.71	5/16 x 3/8	6.7	16.7	19.1	35.7	40.5	200	0.13
2J7182	0.71 x 0.82	3/8 x 7/16	7.2	19.8	21.4	40.5	46.0	213	0.16
2J8292	0.82 x 0.92	7/16 x 1/2	7.9	21.4	24.6	46.0	50.8	245	0.24
2J92101	0.92 x 1.01	1/2 x 9/16	8.3	24.6	26.2	50.8	57.2	259	0.31
2J92110	0.92 x 1.10	1/2 x 5/8	9.0	28.5	31.4	57.0	60.0	285	0.38
2J101110	1.01 x 1.10	9/16 x 5/8	9.0	26.2	29.4	57.2	61.9	283	0.39
2J110120	1.01 x 1.20	9/16 x 11/16	10.5	31.5	37.0	60.0	71.0	322	0.53
2J110120	1.10 x 1.20	5/8 x 11/16	9.8	29.4	31.8	61.9	66.7	317	0.53
2J110130	1.10 x 1.30	5/8 x 3/4	10.5	29.3	34.9	61.9	71.4	317	0.53
2J120130	1.20 x 1.30	11/16 x 3/4	10.5	31.8	34.9	66.7	71.4	321	0.96
2J130148	1.30 x 1.48	3/4 x 7/8	12.0	39.0	44.0	70.0	78.5	330	1.13
2J148167	1.48 x 1.67	7/8 x 1	16.3	43.2	48.3	80.8	89.0	384	1.62
2J167186*	1.67 x 1.86	1 x 1 1/8	16.4	48.0	54.0	86.0	96.0	432	2.08
2J186205*	1.86 x 2.05	1 1/8 x 1 1/4	17.7	54.0	57.5	94.0	106.0	467	2.46
2J205222*	2.05 x 2.22	1 1/4 x 1 3/8	19.3	59.0	65.0	107.0	118.0	508	3.30
2J222241*	2.22 x 2.41	1 3/8 x 1 1/2	19.3	59.0	65.0	107.0	118.0	508	3.30

\*Phosphate (black) rust proof finish.

# MIDGET OPEN JAW WRENCHES

## Metric

Ref.	A mm	T mm	D		W		L mm	Wt. kg
			Small mm	Large mm	Small mm	Large mm		
5JM324	3.2 x 4	3.2	4.0	4.8	9.1	11.4	58	0.006
5JM45	4 x 5	3.2	5.5	6.8	11.7	13.1	64	0.008
5JM555	5 x 5.5	3.2	6.8	7.3	11.7	13.1	64	0.008
5JM557	5.5 x 7	3.2	7.2	9.0	14.0	15.7	76	0.014
5JM67	6 x 7	3.2	7.2	9.0	14.0	15.7	76	0.018
5JM78	7 x 8	3.3	8.1	9.0	15.1	17.0	83	0.022



## A/F

Ref.	A in	T mm	D		W		L mm	Wt. kg
			Small mm	Large mm	Small mm	Large mm		
5J1825	3/16 x 1/4	3.2	6.8	7.3	11.7	13.1	64	0.007
5J2531	1/4 x 5/16	3.2	7.2	9.0	14.0	15.7	76	0.011
5J3134	5/16 x 11/32	3.7	9.0	10.7	17.0	21.0	94	0.017
5J3137	5/16 x 3/8	3.8	9.0	10.7	17.0	21.0	94	0.017
5J3743	3/8 x 7/16	4.5	10.7	12.7	21.0	23.8	113	0.028

## BA

Ref.	A		T mm	D		W		L mm	Wt. kg
	in	BA		Small mm	Large mm	Small mm	Large mm		
5J1013	0.10 x 0.13	11 x 9	3.2	4.0	4.8	9.1	11.4	58	0.002
5J1115	0.12 x 0.15	10 x 8	3.2	4.0	4.8	9.1	11.4	58	0.003
5J1722	0.17 x 0.22	7 x 5	3.2	5.5	6.8	11.7	13.1	64	0.004
5J1924	0.19 x 0.25	6 x 4	3.2	6.8	7.3	11.7	13.1	64	0.007
5J2432	0.25 x 0.32	4 x 2	3.2	7.2	9.0	14.0	15.7	76	0.011
5J2836	0.28 x 0.37	3 x 1	3.6	9.0	10.7	17.0	21.0	95	0.011
5J3241	0.32 x 0.41	2 x 0	4.4	10.7	12.7	21.0	23.8	114	0.018



See page 11 for open jaw wrench sets.



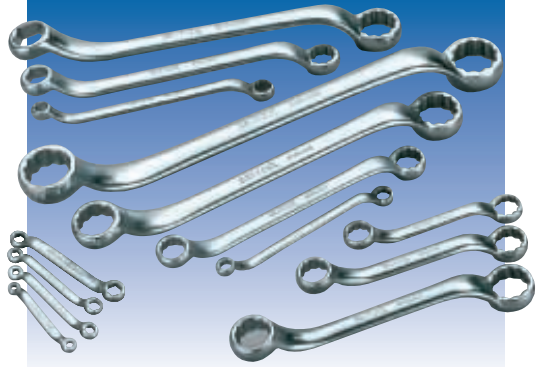
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**RING WRENCHES**

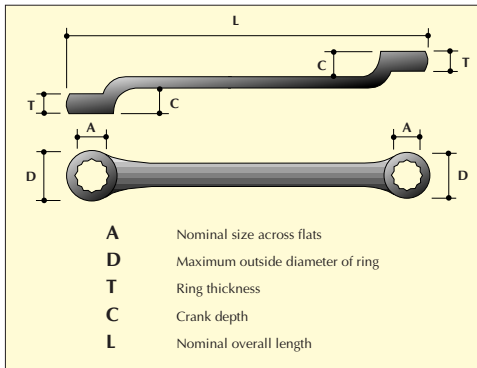
Britool ring wrenches are double ended and double offset. Manufactured from the highest quality alloy steel. Bright nickel and chrome plated finish to BS 1224: 1970, service condition No. 1.

All dimensions conform to BS 3555: 1988.



**Metric – Bihexagon**

Ref.	A mm	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
9RBM557	5.5 x 7	10.2	11.7	5.6	5.6	11.1	114	0.03
9RBM67	6 x 7	10.7	12.2	5.6	5.6	11.1	114	0.03
9RBM89	8 x 9	13.6	15.0	6.4	6.4	12.7	152	0.05
9RBM810	8 x 10	13.6	16.4	6.4	6.4	12.7	152	0.05
9RBM1011	10 x 11	16.4	17.8	6.4	7.1	12.7	152	0.05
9RBM1013	10 x 13	16.4	20.6	6.4	7.9	15.9	178	0.09
9RBM1213	12 x 13	19.2	20.6	7.9	7.9	15.9	178	0.09
9RBM1317	13 x 17	20.1	25.7	9.5	11.1	22.2	228	0.14
9RBM1415	14 x 15	22.0	23.5	9.5	9.5	19.1	203	0.15
9RBM1617	16 x 17	24.8	26.2	9.5	11.1	22.2	229	0.18
9RBM1719	17 x 19	26.2	29.1	11.1	11.1	25.4	254	0.20
9RBM1819	18 x 19	27.7	29.1	11.1	11.1	25.4	254	0.22
9RBM1922	19 x 22	29.1	33.4	11.1	13.5	25.4	254	0.25
9RBM1924	19 x 24	28.5	35.6	11.1	14.3	31.7	317	0.42
9RBM2022	20 x 22	30.0	32.9	12.7	14.3	28.6	279	0.33
9RBM2123	21 x 23	31.9	34.8	12.7	14.3	28.6	279	0.35
9RBM2224	22 x 24	33.4	36.1	14.3	14.3	31.8	317	0.46
9RBM2426	24 x 26	35.6	38.5	14.3	15.9	31.7	317	0.48
9RBM2427	24 x 27	36.1	40.4	15.3	16.9	34.9	356	0.59
9RBM2430	24 x 30	35.6	44.1	14.3	15.9	34.9	336	0.60
2RBM2528	25 x 28	37.7	40.9	15.9	15.9	34.9	336	0.63
2RBM2730	27 x 30	40.0	45.0	16.0	18.0	35.0	356	0.68
2RBM2732	27 x 32	41.0	48.0	17.0	18.0	35.0	356	0.85
2RBM3032	30 x 32	45.5	47.7	18.0	18.0	35.0	368	0.77
2RBM3236	32 x 36	47.5	53.0	18.0	20.0	35.0	406	0.91
2RBM3641	36 x 41	55.5	61.5	18.0	18.0	43.0	445	1.81
2RBM4146*	41 x 46	69.5	75.5	20.0	20.0	47.0	535	1.96
2RBM4650*	46 x 50	71.0	77.0	23.0	23.0	50.0	580	2.30
2RBM5560*	55 x 60	84.0	92.0	26.0	26.0	56.0	650	3.00



**A/F – Bihexagon**

Ref.	A in	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
2RB2531	1/4 x 5/16	10.7	13.0	5.6	5.6	11.1	121	0.03
2RB3137	5/16 x 3/8	13.0	15.2	6.4	6.4	12.7	152	0.04
2RB3743	3/8 x 7/16	15.2	17.5	6.4	6.4	12.7	152	0.05
2RB4350	7/16 x 1/2	17.5	19.7	7.9	7.9	15.9	178	0.09
2RB5056	1/2 x 9/16	19.7	21.9	7.9	9.5	15.9	178	0.09
2RB5662	9/16 x 5/8	21.9	24.2	9.5	9.5	19.1	203	0.14
2RB6268	5/8 x 11/16	24.2	26.4	9.5	11.1	22.2	229	0.19
2RB6875	11/16 x 3/4	26.4	28.7	11.1	11.1	25.4	254	0.22
2RB7587	3/4 x 7/8	28.7	33.2	11.1	13.5	25.4	254	0.25
2RB8187	13/16 x 7/8	30.9	33.2	12.7	14.3	28.6	279	0.33
2RB8793	7/8 x 15/16	32.9	35.1	14.3	14.3	31.8	317	0.43
2RB87106	7/8 x 1 1/16	36.5	41.3	15.3	16.9	34.9	356	0.59
2RB93100	15/16 x 1	35.4	37.6	14.3	15.9	31.8	317	0.48
2RB93112	15/16 x 1 1/8	37.7	40.9	15.9	15.9	34.9	356	0.63
2RB106112	1 1/16 x 1 1/8	40.1	42.1	15.9	15.9	34.9	356	0.65
2RB106125	1 1/16 x 1 1/4	41.6	48.6	17.0	18.5	35.0	381	0.77
2RB112131	1 1/8 x 1 5/16	41.6	48.6	17.0	18.5	35.0	381	0.77
2RB125143	1 1/4 x 1 7/16	46.5	53.2	19.1	20.6	41.3	406	0.91
2RB131150	1 5/16 x 1 1/2	48.5	55.6	18.0	19.5	35.0	394	0.91
2RB143162	1 7/8 x 1 5/8	55.0	61.0	18.0	18.0	43.0	450	1.81
2RB162181	1 5/8 x 1 13/16	68.3	74.4	20.0	20.0	41.0	530	1.98
2RB168187*	1 11/16 x 1 7/8	69.0	73.0	20.0	20.0	47.0	540	1.96
2RB181200*	1 13/16 x 2	71.0	77.0	23.0	23.0	50.0	580	2.30

**Whitworth – Bihexagon**

Ref.	A in	Whit	D		T		C mm	L mm	Wt. kg
			Small mm	Large mm	Small mm	Large mm			
2RB3344	0.34 x 0.45	1/8 x 3/16	13.9	17.7	6.4	6.4	12.7	152	0.05
2RB4452	0.45 x 0.53	3/16 x 1/4	17.7	20.6	7.9	7.9	15.9	178	0.09
2RB5260	0.53 x 0.60	1/4 x 5/16	20.6	23.3	9.5	9.5	19.1	203	0.18
2RB6071	0.60 x 0.71	5/16 x 3/8	23.3	27.2	9.5	11.1	22.2	229	0.18
2RB7182	0.71 x 0.82	3/8 x 7/16	27.2	31.1	11.1	11.1	25.4	254	0.35
2RB8292	0.82 x 0.92	7/16 x 1/2	31.5	34.7	12.7	14.3	28.6	279	0.33
2RB92101	0.92 x 1.01	1/2 x 9/16	34.7	38.0	14.3	15.9	31.8	317	0.48
2RB101110	1.01 x 1.10	9/16 x 5/8	38.0	41.2	15.9	15.9	34.9	356	0.63
2RB110130	1.10 x 1.30	5/8 x 3/4	41.6	46.6	17.0	18.5	35.0	381	0.77
2RB120130	1.20 x 1.30	1 1/16 x 3/4	46.0	49.2	18.0	18.0	35.0	369	0.77
2RB130148	1.30 x 1.67	3/4 x 7/8	50.0	57.0	18.5	20.0	35.0	406	0.91
2RB148167	1.48 x 1.67	7/8 x 1	55.7	62.7	18.0	18.0	43.0	483	1.81
2RB167186*	1.67 x 1.86	1 x 1 1/8	61.6	68.4	20.0	20.0	50.8	535	1.96
2RB186205*	1.86 x 2.22	1 1/8 x 1 1/4	71.0	77.0	23.0	23.0	50.0	580	2.30

\*Shot blast chrome finish.



## Mini Ring Wrenches Double-ended, Double-offset

These wrenches have shorter overall lengths and are ideal for use in confined spaces.

### Metric

Ref.	A mm	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
6RBM67	6 x 7	10.2	11.2	6.8	6.8	12.7	108	0.02
6RBM89	8 x 9	12.7	14.0	7.1	7.1	12.7	108	0.02
6RBM1011	10 x 11	15.4	16.6	7.1	7.1	12.7	108	0.03
6RBM1213	12 x 13	18.0	19.3	7.1	7.1	12.7	108	0.03
6RBM1415	14 x 15	20.6	21.8	8.7	8.7	15.9	133	0.07
6RBM1618	16 x 18	23.1	25.9	11.1	11.1	20.6	171	0.10
6RBM1719	17 x 19	24.6	27.2	11.1	11.1	20.6	171	0.12



## Midget Ring Wrenches Double-ended, Double-offset

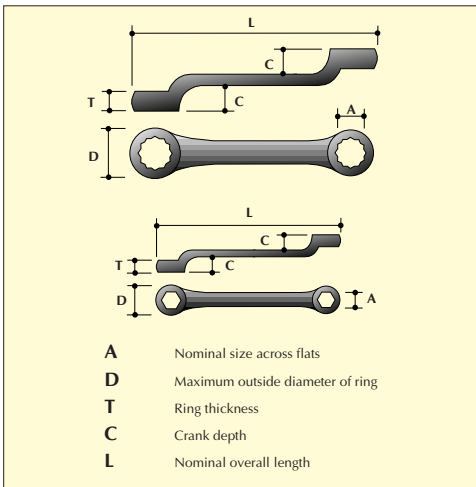
These miniature wrenches are ideal for servicing of electrical, radio and similar assemblies.

### Metric

Ref.	A mm	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
RHM45	4 x 5	7.3	9.3	4.0	4.0	7.9	70	0.01
RHM556	5.5 x 6	8.5	9.6	4.0	4.0	7.9	70	0.01
RHM78	7 x 8	11.7	12.8	4.0	4.8	7.9	80	0.01

### BA

Ref.	A		D		T		C mm	L mm	Wt. kg
	in	BA	Small mm	Large mm	Small mm	Large mm			
RH3241	0.32 x 0.41	2 x 0	13.2	15.5	4.8	4.8	7.9	90	0.01
RH1924	0.19 x 0.25	6 x 4	8.3	9.6	4.0	4.0	7.9	70	0.01
RH1115	0.12 x 0.15	10 x 8	6.4	7.3	3.2	4.0	7.9	57	0.01



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**OPEN JAW WRENCH SETS**

Wrench sets marked \* are supplied in red PVC wallets.

**Open Jaw Wrenches**



Ref.	Sizes	Pieces per set	Wt. kg
<b>NB331T*</b>	<b>Metric</b> 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19mm	7	0.57
<b>NB351C</b>	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 27 x 30mm	11	1.90

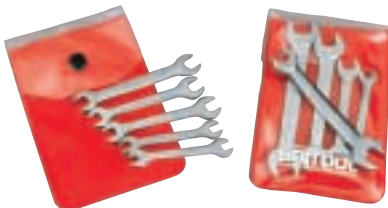
Ref.	Sizes	Pieces per set	Wt. kg
<b>NB227D*</b>	<b>A/F</b> 5/16 x 3/8, 7/16 x 1/2, 9/16 x 5/8, 11/16 x 3/4, 13/16 x 7/8, 15/16 x 1 in	6	0.90
<b>NB231E*</b>	5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 5/8 x 11/16, 11/16 x 3/4 in	7	0.64
<b>NB250P</b>	1/4 x 5/16, 5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 5/8 x 11/16, 11/16 x 3/4, 3/4 x 7/8, 15/16 x 1 in	10	1.22

Ref.	Sizes	Pieces per set	Wt. kg
<b>NB131R</b>	<b>Whitworth</b> 1/8 x 3/16, 3/16 x 1/4, 1/4 x 5/16, 5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16 W	7	1.08
<b>NB141C</b>	1/8 x 3/16, 3/16 x 1/4, 1/4 x 5/16, 5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 5/8 x 11/16 W	9	1.96

Ref.	Sizes	Pieces per set	Wt. kg
<b>S2JM7</b>	<b>Metric</b> 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19mm	7	0.76

Ref.	Sizes	Pieces per set	Wt. kg
<b>S2J7</b>	<b>A/F</b> 5/16 x 3/8, 3/8 x 7/16, 7/16 x 1/2, 1/2 x 9/16, 9/16 x 5/8, 5/8 x 11/16, 11/16 x 3/4 in	7	0.83

**Midget Open Jaw Wrenches**



Ref.	Sizes	Pieces per set	Wt. kg
<b>NB310F*</b>	<b>Metric</b> 3.2 x 4, 4 x 5, 5 x 5.5, 5.5 x 7, 6 x 7, 7 x 8mm	6	0.08

Ref.	Sizes	Pieces per set	Wt. kg
<b>NB209E*</b>	<b>A/F</b> 3/16 x 1/4, 1/4 x 5/16, 5/16 x 11/32, 5/16 x 3/8, 3/8 x 7/16 in	5	0.08

Ref.	Sizes	Pieces per set	Wt. kg
<b>NB108T*</b>	<b>BA</b> 11 x 9, 10 x 8, 7 x 5, 6 x 4, 3 x 1, 2 x 0 BA	6	0.12

## RING WRENCH SETS

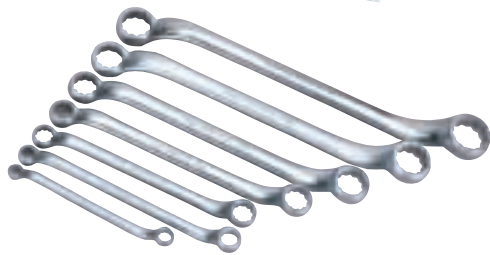
Ref.	Sizes	Pieces per set	Wt. kg
<b>NC381T</b>	<b>Metric</b> 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19 mm	7	0.77
<b>NC389N</b>	6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 21 x 23, 22 x 24, 24 x 27mm	10	2.17

Ref.	Sizes	Pieces per set	Wt. kg
<b>NC278P</b>	<b>A/F</b> $\frac{1}{4} \times \frac{5}{16}$ , $\frac{3}{8} \times \frac{7}{16}$ , $\frac{1}{2} \times \frac{9}{16}$ , $\frac{5}{8} \times \frac{11}{16}$ , $\frac{3}{4} \times \frac{7}{8}$ , $\frac{15}{16} \times 1$ in	6	1.09

Ref.	Sizes	Pieces per set	Wt. kg
<b>NC181R</b>	<b>Whitworth</b> $\frac{1}{8} \times \frac{3}{16}$ , $\frac{1}{4} \times \frac{5}{16}$ , $\frac{3}{8} \times \frac{7}{16}$ , $\frac{1}{2} \times \frac{9}{16}$ , $\frac{11}{16} \times \frac{3}{4}$ W	5	1.78

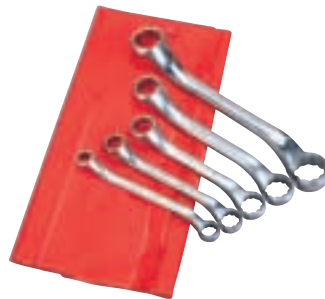
Ref.	Sizes	Pieces per set	Wt. kg
<b>S9RBM7</b>	<b>Metric</b> 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19mm	7	0.87

### Ring Wrenches



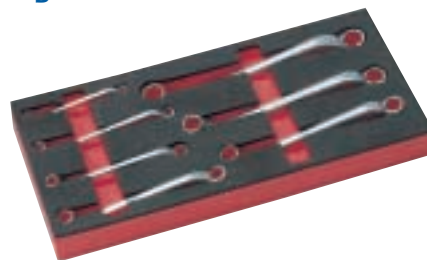
Ref.	Sizes	Pieces per set	Wt. kg
<b>NC328R</b>	8 x 9, 10 x 11, 12 x 13, 14 x 15, 17 x 19mm	5	0.28

### Mini Ring Wrenches



Ref.	Sizes	Pieces per set	Wt. kg
<b>NC391T/TC</b>	<b>Metric</b> 6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19mm	7	0.87

### Ring Wrenches Tool Control Set



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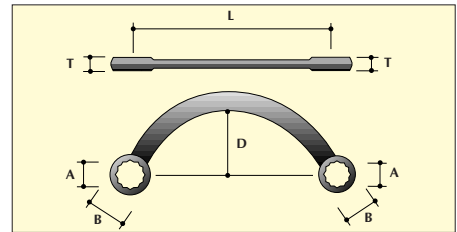
## CRESCENT AND 3/8" SQUARE DRIVE CROW FOOT WRENCHES

These wrenches are designed for use where access is restricted. Crescent wrenches enable you to reach around obstructions, while crow foot wrenches are used with 3/8" square drive ratchet and accessories to reach behind obstructions and into narrow recesses.



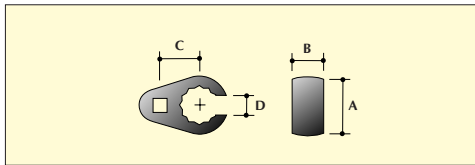
### Crescent Wrenches

Ref.	Nominal A/F		Max. Dia. of Ring		Ring thickness T mm	Depth D mm	Length L mm	Wt. kg
	small	large	small	large				
CWB4350	7/16 in	1/2 in	17.5	20.3	8.9	43	130	0.07
CWB5662	9/16 in	5/8 in	21.9	23.6	9.8	60	165	0.11
CWB1012	10mm	12mm	16.3	18.6	7.5	40	120	0.05
CWB1113	11mm	13mm	17.5	20.3	8.9	43	130	0.06
CWB1417	14mm	17mm	21.9	25.5	9.8	60	165	0.11
CWB1519	15mm	19mm	23.5	28.1	10.9	72	200	0.18



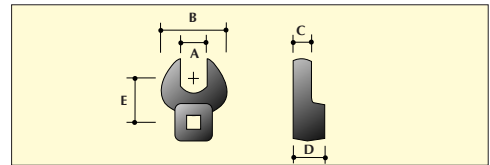
### Crescent Wrench Set

Ref.	Sizes	Pieces per set	Wt. kg
SCWB6	7/16 x 1/2, 9/16 x 5/8 in, 10 x 12, 11 x 13, 14 x 17, 15 x 19mm	6	0.58



### Metric Flare Crow Foot Wrenches

Ref.	A/F size	Max. width A mm	Max. thickness B mm	Approx. centres C mm	Gap width D mm	Wt. kg
ACFM10	10	21.5	10.9	14	7	0.03
ACFM11	11	24.0	10.9	16	8	0.04
ACFM12	12	24.0	10.9	16	9	0.03
ACFM13	13	26.7	10.9	18	10	0.04
ACFM14	14	26.7	10.9	18	11	0.04
ACFM15	15	29.0	12.2	19	12	0.05
ACFM16	16	29.0	12.2	19	13	0.05
ACFM17	17	32.0	13.4	20	14	0.06
ACFM18	18	32.0	13.4	20	14	0.06
ACFM19	19	34.8	14.4	21	15	0.07



### Metric Open Jaw Crow Foot Wrenches

Ref.	A/F size A mm	Max. width B mm	Jaw thickness C mm	Max. thickness D mm	Approx. centres E mm	Wt. kg
ACJM10	10	21.5	5.2	12.2	17.0	0.02
ACJM11	11	23.5	5.7	12.2	18.0	0.02
ACJM12	12	25.5	6.1	12.2	19.0	0.02
ACJM13	13	27.5	6.5	12.4	19.5	0.03
ACJM14	14	30.0	7.0	12.4	21.0	0.03
ACJM15	15	31.5	7.4	12.4	21.0	0.04
ACJM16	16	34.0	7.7	12.7	23.0	0.04
ACJM17	17	36.5	8.3	13.3	24.0	0.05
ACJM18	18	37.5	8.8	13.6	25.0	0.05
ACJM19	19	40.5	9.0	14.0	25.0	0.06

### A/F Flare Crow Foot Wrenches

Ref.	A/F size	Max. width A mm	Max. thickness B mm	Approx. centres C mm	Gap width D mm	Wt. kg
ACF375	3/8	21.5	10.9	14	7	0.03
ACF437	7/16	24.0	10.9	16	8	0.04
ACF500	1/2	26.7	10.9	18	10	0.04
ACF562	9/16	26.7	10.9	18	11	0.04
ACF625	5/8	29.0	12.2	19	13	0.05
ACF687	11/16	32.0	13.4	20	14	0.06
ACF750	3/4	34.8	14.4	21	15	0.07

### A/F Open Jaw Crow Foot Wrenches

Ref.	A/F size A in	Max. width B mm	Jaw thickness C mm	Max. thickness D mm	Approx. centres E mm	Wt. kg
ACJ375	3/8	21.5	5.2	12.2	17.0	0.02
ACJ437	7/16	23.5	5.7	12.2	18.0	0.02
ACJ500	1/2	27.5	6.5	12.4	19.5	0.03
ACJ562	9/16	30.0	7.0	12.4	21.0	0.03
ACJ625	5/8	34.0	7.7	12.7	23.0	0.04
ACJ687	11/16	36.5	8.3	13.3	24.0	0.05
ACJ750	3/4	40.5	9.0	14.0	25.0	0.06

### Flare Crow Foot Sets

Ref.	Sizes	Pieces per set	Wt. kg
SACFM10	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	10	0.47
SACF7	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	0.33

### Open Jaw Crow Foot Sets

Ref.	Sizes	Pieces per set	Wt. kg
SACJM10	10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm	10	0.36
SACJ7	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 in	7	0.25

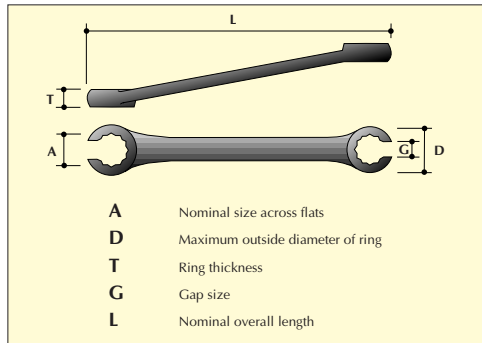
## FLARE NUT WRENCHES

A range of wrenches designed for tightening union nuts on wiring or pipes. The gap in the head allows access where the use of a standard ring wrench is not possible. Heads are set at an angle of 15° and each end is a different size, making this a versatile tool. Manufactured from the highest quality alloy steel.



Ref.	A in/mm	D		T		G		L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm	Small mm	Large mm		
4301*	1/4 x 5/16	14.2	16.2	7.5	7.5	3.5	5.0	130	0.08
4302*	3/8 x 7/16	17.8	19.7	9.0	9.5	5.0	7.0	160	0.09
4303	7/16 x 1/2	22.2	24.6	11.1	11.9	6.35	8.0	196	0.10
4305	1/2 x 9/16	24.6	27.8	11.1	11.9	8.0	9.5	196	0.13
4306	5/8 x 11/16	29.0	32.5	13.0	14.0	11	13	242	0.14
4312	5/8 x 3/4	30.2	34.9	13.0	14.0	11	14	244	0.15
4348*	8 x 10	18.5	20.0	8.7	9.4	4.8	4.8	157	0.10
4350*	9 x 11	18.5	20.0	8.7	9.4	4.8	4.8	157	0.10
4351	13 x 15	23.8	27.6	11.0	12.0	8	9.5	196	0.25
4352	12 x 14	24.6	27.8	11.0	12.0	9	10	190	0.20
4353	16 x 18	29.0	33.2	13.0	14.0	11	12	242	0.25
4354	17 x 19	31.7	34.9	13.0	14.0	13	14	244	0.30

\*Hexagon others bihexagon

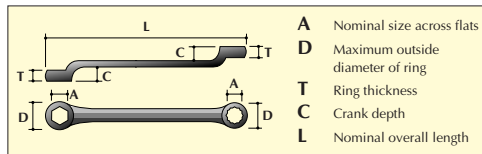


## HEXAGON/BIHEXAGON RING WRENCHES

Designed for use on nut and bolt applications, most hexagon ring sizes have a corresponding bihexagon ring within the range. The hexagon ring acts to give a strong positive location and the bihexagon ring at the other end allows for short turning movements.

### Metric Hexagon/Bihexagon Ring

Ref.	A mm	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
2RHBM810	8 x 10	13.0	15.8	6.35	6.35	12.7	152	0.05
2RHBM911	9 x 11	15.2	17.4	6.35	7.15	12.7	152	0.05
2RHBM1012	10 x 12	15.9	20.1	6.60	7.94	15.9	177	0.09
2RHBM1113	11 x 13	17.4	19.7	7.94	7.94	15.9	177	0.09
2RHBM1214	12 x 14	18.7	21.5	7.94	9.52	15.9	177	0.09
2RHBM1315	13 x 15	20.1	23.0	9.52	9.52	19.0	203	0.15
2RHBM1416	14 x 16	21.9	24.2	9.52	9.52	19.0	203	0.15
2RHBM1516	15 x 17	24.2	26.4	9.52	11.10	22.2	228	0.18
2RHBM1618	16 x 18	24.3	27.2	9.52	11.10	22.2	245	0.19
2RHBM1719	17 x 19	25.7	28.6	11.10	11.10	25.4	254	0.20
2RHBM1821	18 x 21	27.1	31.0	11.10	11.90	25.4	254	0.22
2RHBM1922	19 x 22	28.4	32.8	11.10	13.50	25.4	254	0.25



### A/F Hexagon/Bihexagon Ring

Ref.	A in	D		T		C mm	L mm	Wt. kg
		Small mm	Large mm	Small mm	Large mm			
2RHB3137	5/16 x 3/8	13.0	15.2	6.35	6.35	12.7	152	0.05
2RHB3743	3/8 x 7/16	15.2	17.4	6.35	7.15	12.7	152	0.05
2RHB4350	7/16 x 1/2	17.4	19.7	7.94	7.94	15.9	177	0.09
2RHB5056	1/2 x 9/16	19.7	21.9	7.94	9.52	15.9	177	0.09
2RHB5662	9/16 x 5/8	21.9	24.2	9.52	9.52	19.0	203	0.15
2RHB6268	5/8 x 11/16	24.2	26.4	9.52	11.10	22.2	228	0.18
2RHB6875	11/16 x 3/4	26.3	28.5	11.10	11.10	25.4	254	0.22
2RHB7587	3/4 x 7/8	28.4	32.7	11.10	13.50	25.4	254	0.25

## 'C' Hook Wrench

Specially designed for use with slotted retaining rings. The hinge facility allows for use on a range of diameters for greater flexibility.

Ref.	Capacity for circles dia. mm	Length mm	To suit Slot width mm	Wt. kg
3150	19-51	165	4.7	0.11
3151	32-76	216	5.6	0.24
3152	51-121	267	6.7	0.44



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**OFFSET RATCHETING WRENCHES**

A 25° angle gives additional clearance in restricted areas. The ratchet mechanism provides speed and convenience, the direction is changed by depressing the reversing lever.



**Metric**

Ref.	Size mm	Max. dia. of ring Small mm	Max. dia. of ring Large mm	Ring thickness mm	Length mm	Wt. kg
<b>RBOM78</b>	7 x 8	15	18	10	109	0.06
<b>RBOM910</b>	9 x 10	20	23	10	138	0.09
<b>RBOM1112</b>	11 x 12	25	29	13	168	0.12
<b>RBOM1314</b>	13 x 14	25	29	13	168	0.12
<b>RBOM1517</b>	15 x 17	33	36	13	200	0.30
<b>RBOM1921</b>	19 x 21	34	40	13	227	0.34

**A/F**

Ref.	Size in	Max. dia. of ring Small mm	Max. dia. of ring Large mm	Ring thickness mm	Length mm	Wt. kg
<b>RBO2531</b>	1/4 x 5/16	15	18	10	109	0.06
<b>RBO3743</b>	3/8 x 7/16	20	23	10	138	0.09
<b>RBO5056</b>	1/2 x 9/16	25	29	13	168	0.12
<b>RBO6268</b>	5/8 x 11/16	25	29	13	168	0.12
<b>RBO7587</b>	3/4 x 7/8	34	40	13	227	0.34

**Metric – Set**

Ref.	Contents	Pieces per set	Wt. kg
<b>RBOMSET</b>	7 x 8, 9 x 10, 11 x 12, 15 x 17, 19 x 21mm	5	0.91

**A/F – Set**

Ref.	Contents	Pieces per set	Wt. kg
<b>RBOSET</b>	1/4 x 5/16, 3/8 x 7/16, 1/2 x 9/16, 5/8 x 11/16, 3/4 x 7/8 in	5	0.73

**OFFSET RATCHETING SCREWDRIVER BIT WRENCH SETS**

- The bit wrench allows access where conventional screwdrivers and bit drivers fail to reach
- The 25° offset angle gives additional clearance in restricted areas
- Reverse direction by simply switching the reversing pawl
- Knurled spinner wheel allows finger tightening of fasteners
- The ratchet accepts both 1/4" and 5/16" hexagon drive bits



**Torx Set**



Ref.	Contents	Pieces per set	Wt. kg
<b>BWSET1</b>	T10, T15, T20, T25, T30 1/4" sq. drive offset ratcheting bit wrench	6	0.11

**Combination Set**



Ref.	Contents	Pieces per set	Wt. kg
<b>BWSET2</b>	PH1, PH2 Phillips 3/16", 1/4", 9/32" Slotted 1/4" sq. drive offset ratcheting bit wrench	6	0.11

**Combination Set**



Ref.	Contents	Pieces per set	Wt. kg
<b>BWSET3</b>	1/4" Hex - PH1, PH2 Phillips 1/4", 9/32" Slotted T10, T15, T20 Torx 5/16" Hex - T40, T50 Torx 1/4" sq. drive offset ratcheting bit wrench	10	0.11

**Hexagon Key Set**



Ref.	Contents	Pieces per set	Wt. kg
<b>BWSET4</b>	1/4" Hex - 5/64", 3/32", 7/64", 1/8", 9/64", 7/32", 1/4" 5/16" Hex - 5/32", 3/16" 1/4" square drive offset ratcheting bit wrench	10	0.11