



4. Wrenches

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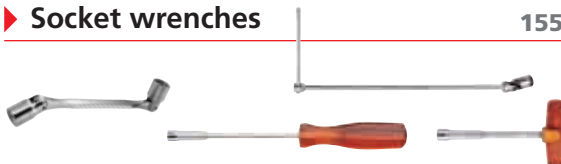
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NEW

"JP" sleeve set



Your wrenches always close to hand

Advantages

- ▶ Immediately find the right wrench
- ▶ No more tools left on site
- ▶ Super compact



N 130

NEW

Ratchet wrenches: a comprehensive range



The advantages of a ratchet wrench

Advantages

- ▶ Fast
- ▶ Compact
- ▶ Manoeuvrable



N 136

The combination wrench reinvented for you

Advantages

440

Manoeuvrable...

Precise...

Powerful...



- ▶ More control
- ▶ Better ring head accessibility
- ▶ More efficient open-end
- ▶ More power, delivered safely



N 128



► Standard series

Fixed-size and adjustable wrenches

440

THE "NEW GENERATION"
"COMBINATION WRENCH"

THE COMBINATION WRENCH REINVENTED FOR YOU

More control*During pre-tightening :*

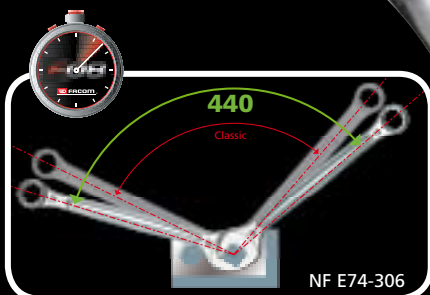
- More stable
- Easier to guide
- Wrench does not turn in the hand.

**More comfortable**

- Variable handle cross section doubles the surface in contact with the hand.

Painless torque application**Better ring head accessibility**

- Ring head provides better clearance for reaching recessed or closely spaced nuts.

**More efficient open-end***The open-end / handle geometry provides 20 % better accessibility.***More power, delivered safely**

- Meets the requirements of aerospace standard SAE AS954E.
- Up to 400 % spare capacity for tightening high-strength bolts.
- Tightening torques guaranteed significantly above NF ISO 1711-1 specifications.

ISO 898-1*	60 N.m	+ 400 %
ISO 1711-1	175 N.m	+ 80 %
SAE AS 954E	**253 N.m	+ 25 %
440		310 N.m !

* ISO bolt class, $\mu = 0.10$, see page / ** imperial-metric equivalence.

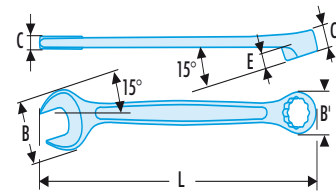
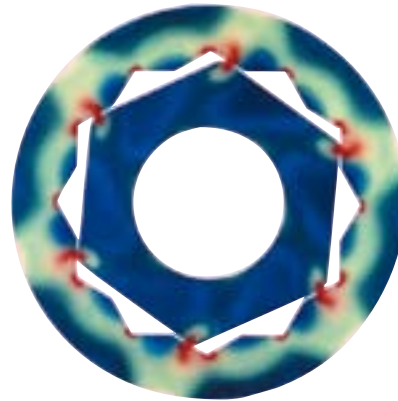
Combination wrenches

440 OGV® metric and inch combination wrenches

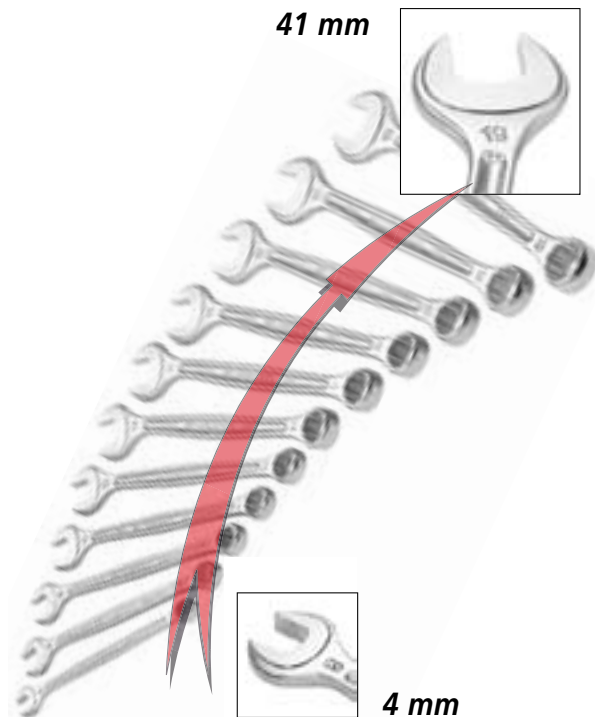
▷ Industrial and automotive : ISO 691, NF ISO 691, ISO 7738, NF ISO 7738, ISO 3318, NF ISO 3318, ISO 1711-1, NF ISO 1711-1, NF E74-306.

▷ Aerospace : SAE AS 954E.

- Wide range of openings :
 - Metric sizes : 4 to 41 mm.
 - Inch sizes : 1/4" to 1 1/2".
- High mechanical performance combined with compact design complying with aeronautical standards :
 - Ring head :
 - Ring clearance (dimension E) designed for better access to recessed or closely spaced screws.
 - 12-point OGV profile for a high torque without damaging the nut / prefix H : 6-point ring.
 - Angled at 15°.
 - Open-end :
 - Optimised open end / handle geometry for increased accessibility.
 - Ground contact faces.
- Satin chrome finish.



mm	"	C' mm	B' mm	L mm	B mm	C mm	E mm	ΔΔ g
440.4H		3,5	7,8	106	10	3	2,1	7
440.5H		6,0	9,2	115	13,3	3,6	3,1	16
440.5,5H		6,0	9,2	115	13,3	3,8	3,1	17
440.6	440.1/4	6,0	10,0	115	14,1	3,8	3,1	17
440.7		6,2	11,2	122	17,2	3,9	3,4	21
440.8	440.5/16	6,7	12,8	133	19,2	4,7	3,5	29
440.9	440.11/32	7,1	14,2	138	21,2	4,7	3,9	34
440.10	440.3/8	7,6	15,0	145	23	5,2	4,2	42
440.11	440.7/16	8,1	16,9	155	24,5	5,5	4,6	49
440.12		8,4	18,0	162	27	5,8	4,4	57
440.13	440.1/2	8,6	19,3	170	28,7	6,1	4,8	70
440.14	440.9/16	9,5	21,1	180	31	6,4	5,7	82
440.15		10,0	22,2	185	32,6	6,8	5,9	95
440.16	440.5/8	10,5	23,9	195	35,6	7,3	6,4	113
440.17	440.11/16	10,9	25,3	202	37	7,6	6,5	127
440.18		11,4	26,0	208	38,7	8,1	7,2	146
440.19	440.3/4	11,9	27,8	216	41,2	8,3	7,2	167
440.20	440.13/16	12,3	29,5	224	43,1	8,6	6,3	184
440.21		12,8	30,9	233	45,4	8,8	7,8	205
440.22	440.7/8	13,3	32,3	248	46,9	9	8,3	230
440.23		13,8	33,6	257	49	9,3	8,7	254
440.24	440.15/16	14,2	35,0	267	51	9,7	8,9	289
440.25	440.1"	14,7	36,4	274	53	9,9	9,4	311
440.26		15,1	37,8	285	55,5	10,1	9,8	342
440.27	440.11/16	15,6	39,2	295	58	10,4	8,9	376
440.28	440.11/8	16,1	40,6	305	60,7	10,7	10,6	416
440.29		16,6	42,0	320	63	11,2	10,8	473
440.30		17,1	43,5	340	65	11,5	11,2	531
440.32	440.11/4	18,0	46,1	355	68	12,5	11,5	639
440.33	440.15/16	18,5	47,0	380	69,8	12,8	11,8	716
440.34		19,0	48,9	390	72	13	12,8	741
440.35	440.13/8	19,5	51,0	430	74,3	13,5	12,8	888
440.36	440.17/16	20,0	53,0	440	76	14	13,2	941
440.38	440.11/2	22,0	56,0	450	80	15,2	14,1	1128
440.41		23,0	58,3	460	85	16	14,7	1286



New 440 combination wrench

UNCOMPROMISING PRODUCTION AND INSPECTION

- Facom has designed a wrench that is optimised for users and their needs :
The optimised shape of the 440 wrench combines power, comfort and agility.
In order to produce this complex shape, Facom has developed a special manufacturing process involving new technologies.
- Each production batch undergoes dimensional inspection, as well as static and fatigue mechanical performance, wear and corrosion resistance testing.



Endurance test under load

New**440.JP9 - 440.JP12****9 or 12 piece combination wrench clip set**

440.JP9



440.JP12

**YOUR WRENCHES WITH YOU AT ALL TIMES****Practical : save time**

- Easy, clear wrench identification.
- Quick, foolproof tool storage.
- No more loose wrenches in your tool box.
- Belt hook.
- Hole for wall hook.

Safe : no more lost wrenches.

- Missing wrenches readily identified : no more tools left on site at the end of the job.
- Durable wrench locking system.

Ultra compact

Total overall dimensions :
219x66x38 mm for 440.JP9.
280x87x47 for 440.JP12.

**Easy to store.**

- In any storage compartments of any Facom tool box (BT11, BT13, Probox, etc.).
- In any roller cabinet drawer.

Combination wrenches

440 Clip set of OGV® combination wrenches

- Quickly stored, quickly identified, always with you.
- Chemical product-resistant.

	mm	ΔΔ g
440.JP9	8-10-11-12-13-16-17-18-19	940
440.JP12	7-8-10-11-12-13-16-17-18-19-22-24	1548

440 Metric OGV® combination wrench sets

- Supplied as box, roll or panel sets.

		mm	ΔΔ g
440.JN8	•	8-10-11-13-17-19-22-24	1003
440.JN8T	N.38A-8C	8-10-11-13-17-19-22-24	1133
440.JE9	•	8-9-10-11-12-13-14-17-19	657
440.JE11	•	7-8-10-11-12-13-14-16-17-18-19	903
440.JE16	•	8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	1989
440.JE16T	N.38A-17A	8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	2164
440.JE18	•	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	1989
440.JE25	•	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32-34	5545
440.P25M	•	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32-34	5545

440 Inch OGV® combination wrench sets

		mm/"	ΔΔ g
440.JU6T	N.38A-6B	3/8-7/16-1/2-9/16-5/8-11/16	603
440.JU9	•	1/4-5/16-3/8-7/16-1/2-9/16-5/8-11/16-3/4	696
440.JU12	•	1/4-5/16-3/8-7/16-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16	1399
440.JU17T	N.38A-17	1/4-5/16-11/32-3/8-7/16-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16-1"-11/16"-11/8"-11/4"	3350

440 OGV® combination wrench sets in thermo-formed modules

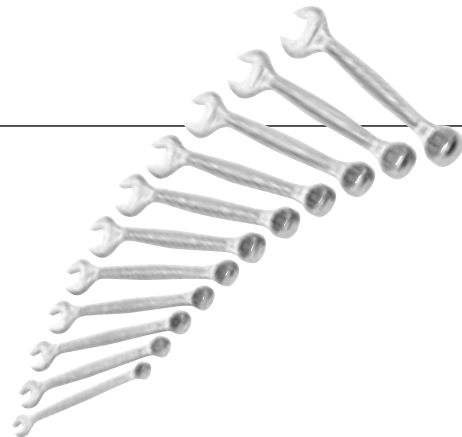
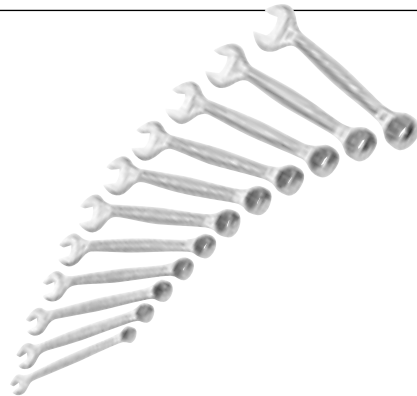
- Compatible with the FACOM modular storage system (all roller cabinets).
- MOD.440-1XL and MOD.440-2XL : to fit XL roller cabinets.
- MOD.440-1, MOD.440-2 and MOD.440-4 : to fit all roller cabinets.

		mm/"	ΔΔ g
MOD.440-1XL	PL.313	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-24	1938
MOD.440-1	PL.670	6-7-8-9-10-11-12-13-14-15-16-17-18-19-22-24	1733
MOD.440-2XL	PL.671	27-29-30-32-34	2920
MOD.440-2	PL.314A	27-29-30-32	1733
MOD.440-4	PL.673	1/4-5/16-11/32-3/8-7/16-1/2-9/16-5/8-11/16-3/4-13/16-7/8-15/16	1593

440 OGV® combination wrench sets in foam modules

- Compatible with the FACOM modular storage system (XL roller cabinets).

		mm/"	ΔΔ g
MODM.440-1	PM.MOD440-1	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-24	1868
MODM.440-2	PM.MOD440-2	27-29-30-32-34	2855





Ratchet wrenches

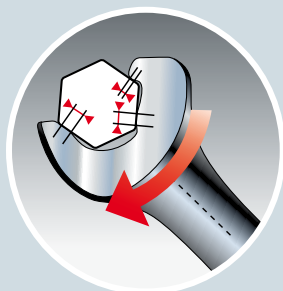
For our ratchet wrench range, see
section 4, page 136



Fast series

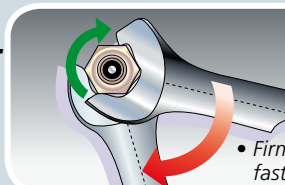


TWICE AS FAST

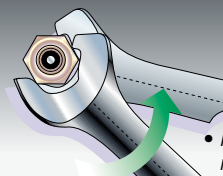


40R - Ratchet-effect combination wrench

Ratchet effect.



- Firm pressure on fastener flats.

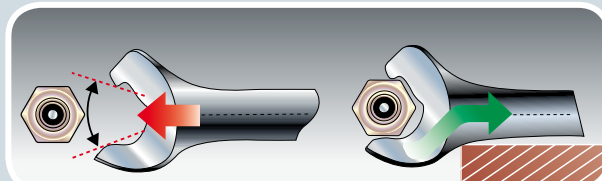


- Rewind action without removing the tool.

3 drive surfaces.

- Less wear.
- Less risk of tool slippage.

Easier positioning and withdrawal.

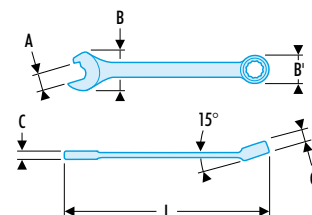
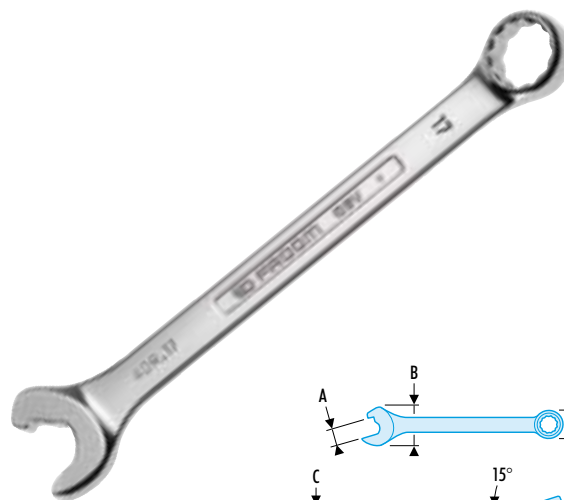


40R Metric fast combination wrenches

▷ ISO 7738, DIN 3113, NF ISO 7738.

- Metric sizes 8 to 24 mm.
- 12-point OGV® ring angled at 15°.
- Satin chrome finish.

40R	A mm	B x B' mm	C x C' mm	L mm	ΔΔ g
40R.8	8	18,5 x 12,9	4,3 x 6	126	26
40R.9	9	20,5 x 14	4,3 x 6,1	133	29
40R.10	10	22,9 x 15,9	4,8 x 6,6	141	39
40R.11	11	24,9 x 17	5,1 x 7	148	45
40R.12	12	26,8 x 18,4	5,3 x 7,5	157	56
40R.13	13	28,8 x 19,8	5,6 x 8	165	61
40R.14	14	30,6 x 21,2	6 x 8,5	172	73
40R.15	15	32 x 22,4	6,6 x 9,2	179	79
40R.16	16	34,8 x 23,8	6,9 x 9,8	187	93
40R.17	17	36,7 x 25	7 x 10,3	193	113
40R.18	18	38,5 x 26,4	7,4 x 10,9	201	120
40R.19	19	40,9 x 29,4	7,6 x 11,3	209	140
40R.20	20	42,5 x 29,4	8 x 11,6	217	165
40R.21	21	45 x 30,7	8,1 x 11,9	223	182
40R.22	22	47 x 32	8,2 x 12,3	240	205
40R.23	23	48,5 x 33,4	8,4 x 12,6	250	236
40R.24	24	50,5 x 34,7	8,5 x 12,9	260	260



Combination wrenches

40R Metric fast combination wrench sets

- Supplied as box, roll or module sets.

				mm	kg
40R.JE9	•			8-9-10-11-12-13-14-17-19	0,607
40R.JE17	•			8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24	1,947
40R.JE9T		N.38A-9E		8-9-10-11-12-13-14-17-19	0,737
MOD.40R		PL.352A		8-9-10-11-12-13-14-15-16-17-18-19-22-24	1,638



► Compact series

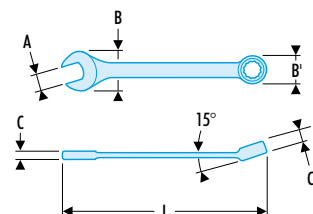
39 Metric and inch short combination wrenches

► ISO 7738, NF ISO 7738.

- Short shank and compact heads.
- Ideal where access is restricted.
- Metric sizes from 3.2 to 17 mm.
- Inch sizes from 1/8" to 11/16".
- 12-point ring angled at 15°.
- H : 6-point ring angled at 15°.
- Satin chrome finish.



		L		B x B'	C x C'	ΔΔ
A mm	A"	mm	mm	mm	mm	g
39.3,2H	39.1/8H	77	6	10 x 7	3,1 x 3,1	9
39.4H	39.5/32H	77	6	10 x 8	3,1 x 3,1	9
39.5H	39.3/16H	82	6	11,8 x 9	3,5 x 4	10
39.5,5H	39.7/32H	84	6	11,8 x 9,5	3,5 x 4	10
39.6	39.1/4	90	6	15 x 10,4	4,1 x 5	13
39.7	39.9/32	90	6	15 x 11,5	4,1 x 5	13
39.8	39.5/16	94	6	17,2 x 12,5	4,5 x 5,8	18
39.9	39.11/32	98	6	19,4 x 14	4,8 x 6	25
39.10	39.3/8	103	6	21,5 x 15,3	5,1 x 6,4	30
39.11	39.7/16	109	6	23,7 x 16,8	5,3 x 6,8	35
39.12		127	6	26 x 18	5,5 x 7,5	47
39.13	39.1/12	141	6	28 x 19,5	5,8 x 8	54
39.14	39.9/16	147	6	30,2 x 20,8	6,0 x 8,5	70
39.15		152	6	32,3 x 22,1	6,4 x 9	80
39.16	39.5/8	158	6	34,4 x 23,6	6,7 x 9,6	90
39.17	39.11/16	165	6	36,5 x 25	6,9 x 10	100



39 Metric and inch short combination wrench sets

- Supplied as rack or roll sets.

	rack		mm/"	ΔΔ g
39.JP6	CK.67SJ1		8 - 10 - 11 - 12 - 13 - 14	285
39.JE9T		N.38A-9E	7 - 8 - 10 - 11 - 12 - 13 - 14 - 16 - 17	580
39.JE10T		N.38A-10A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11	250
39.JE16T		N.38A-16A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17	700
39.JU10T		N.38A-10A	1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16	250
39.JU14T		N.38A-16A	1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	560



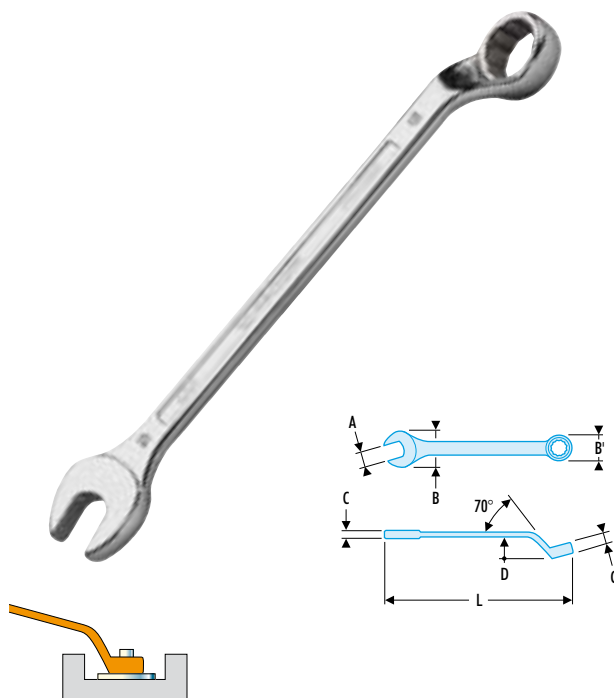
► Offset series

41 Metric offset combination wrenches

► ISO 7738, DIN 3113, NF ISO 7738.

- 12-point ring offset to clear fingers or obstacles
- Metric sizes from 6 to 32 mm.
- Chrome finish.

	A mm	B x B' mm	C x C' mm	D mm	L mm	ΔΔ g
41.6	6	14,5 x 11	4 x 6	12,5	113	27
41.7	7	18,5 x 13	4,5 x 7	15	127	35
41.8	8	18,5 x 13	4,5 x 7	15	127	35
41.9	9	23,5 x 15,5	5 x 8	16,5	142	50
41.10	10	23,5 x 15,5	5 x 8	16,5	142	50
41.11	11	27,5 x 18,5	5,5 x 8,6	18,5	160	75
41.12	12	27,5 x 18,5	5,5 x 8,6	18,5	160	75
41.13	13	31,5 x 21,5	5,5 x 9	18,5	180	100
41.14	14	31,5 x 21,5	5,5 x 9	18,5	180	100
41.15	15	36,5 x 24,5	6,6 x 10,3	20,5	200	130
41.16	16	36,5 x 24,5	6,6 x 10,3	20,5	200	130
41.17	17	40,5 x 27	7,3 x 11,2	22	224	195
41.18	18	40,5 x 27	7,3 x 11,2	22	224	195
41.19	19	43,0 x 30	7,8 x 12,6	24	248	250
41.21	21	48,0 x 33	8,2 x 13	26,5	275	320
41.22	22	48,0 x 33	8,2 x 13	26,5	275	320
41.23	23	53,0 x 36	9 x 14	28,5	302	415
41.24	24	53,0 x 36	9 x 14	28,5	302	415
41.26	26	59,0 x 40	9,5 x 15	31,5	332	555
41.27	27	59,0 x 40	9,5 x 15	31,5	332	555
41.28	28	63,0 x 43,5	10 x 15,6	33,5	364	700
41.29	29	63,0 x 43,5	10 x 15,6	33,5	364	700
41.30	30	68,0 x 46,5	10,5 x 16,5	35,5	398	850
41.32	32	68,0 x 46,5	10,5 x 16,5	35,5	398	850



41 Metric offset combination wrench sets

- Supplied as box, roll and panel sets.

			mm	ΔΔ kg
41.JE9			8-9-10-11-12-13-14-17-19	0,930
41.JE18			6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	3,017
41.JE9T	N.38A-9B		8-9-10-11-12-13-14-17-19	1,050
41.JE12T	N.38A-12B		8-10-11-12-13-14-16-17-18-19-21-22	2,095
41.P24M			6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32	9,380



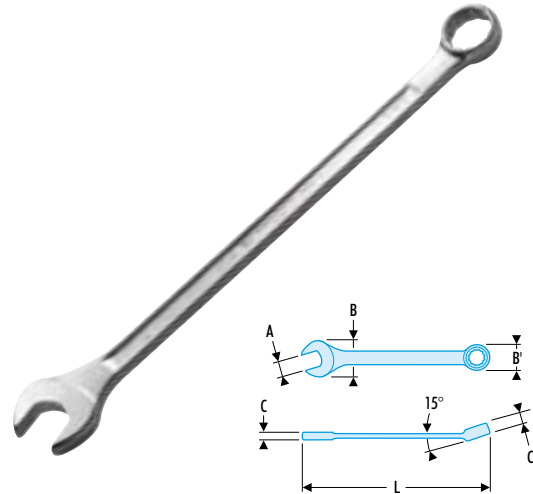
Power series

40LA Metric and inch long combination wrenches

▷ Strength to ISO 3318, ISO 7738, NF ISO 3318, NF ISO 7738.

- Long handle for increased torque.
- Metric sizes from 19 to 50 mm.
- Inch sizes from 3/4" to 2".
- 12-point OGV® ring angled at 15°.

➤ A mm	➤ A"	L mm	B x B' mm	C x C' mm	ΔΔ g
40.19LA	40.3/4LA	329	45 x 29,6	8,7 x 12	240
40.21LA	40.13/16LA	355	49 x 32,3	9,5 x 13	305
40.22LA	40.7/8LA	368	51 x 33,8	9,9 x 14	360
40.23LA	40.15/16LA	381	53 x 35,4	10,3 x 14,5	370
40.24LA		394	55 x 36,9	10,7 x 15	455
40.26LA	40.1"LA	420	59 x 39,4	11,5 x 15,5	520
40.27LA	40.1"1/16LA	433	61 x 40,6	11,9 x 16	590
40.28LA	40.1"1/8LA	446	62,4 x 42,2	12,3 x 16,5	600
40.29LA		446	62,4 x 42,2	12,3 x 16,5	600
40.30LA	40.1"1/4LA	472	65 x 45,2	13,1 x 17	800
40.32LA		498	69,5 x 47,8	13,9 x 18	850
40.33LA	40.1"5/16LA	498	69,5 x 47,8	13,9 x 18	850
40.34LA		524	72,7 x 50,7	14,7 x 19	1040
40.35LA		524	72,7 x 50,7	14,7 x 19	1040
40.36LA	40.1"7/16LA	550	76 x 53,6	15,5 x 20	1200
40.38LA	40.1"1/2LA	576	80 x 56	16,3 x 22	1435
40.41LA		615	86 x 59,2	17,5 x 23	1720
40.42LA	40.1"5/8LA	615	86 x 59,2	17,5 x 23	1720
40.46LA	40.1"13/16LA	680	95 x 65,85	19,5 x 25	2435
40.50LA	40.2"LA	732	103 x 71	21,1 x 30	3500



40LA Metric and inch long combination wrench sets

- Supplied as box sets.

➤	➤	Q, mm/"	ΔΔ kg
40LA.JE17	•	19-21-22-23-24-26-27-28-29-30-32-33-35-36-38-41-42	13,8
440.40LAJE26		(440)-8-9-10-11-12-13-14-15-16-17-18(40LA)-19-21-22-23-24-26-27-28-29-30-32-33-35-36-38	11,1
440.40LAJU20	•	(440)-1/4-5/16-3/8-7/16-1/2-9/16-5/8-11/16-(40LA)3/4-13/16-7/8-15/16-1-11/16-1-11/8-1-1/4-15/16-13/8-17/16-1-1/2	9,0

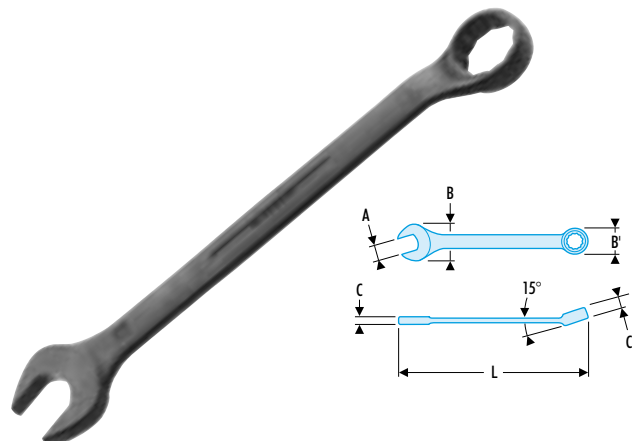


41L Metric heavy-duty combination wrenches

▷ ISO 691, NF ISO 691.

- Metric sizes from 46 to 65 mm.
- Forged in high-strength steel.
- Burnished finish.

➤	A mm	B x B' mm	C x C' mm	L mm	ΔΔ kg
41.46L	46	95 x 69	15 x 24	520	1,3
41.50L	50	103 x 75	16,5 x 26	560	1,45
41.55L	55	113 x 84,5	18 x 28	610	1,58
41.60L	60	123 x 90	20 x 31	660	2,3
41.65L	65	133 x 98	22 x 31	710	2,65



4 Ratchet wrenches

► Ratchet combination wrench series

67 range

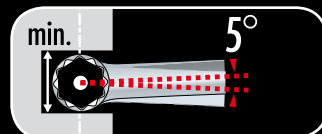
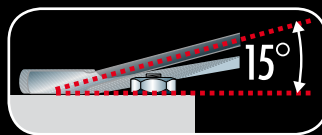
RATCHET COMBINATION WRENCHES

Raise your expectations

UNBEATABLY COMPACT

- Reversible ratchet system incorporated within a compact ring head.

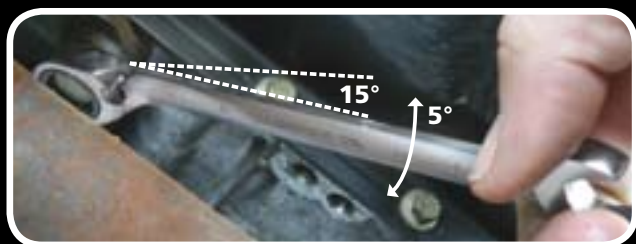
Ideal for reaching into awkward spaces, FACOM's new ratchet combination wrench is easier to use for both tightening and loosening..



GUARANTEED compliance with ISO 1711-1

Ultra-fast operation

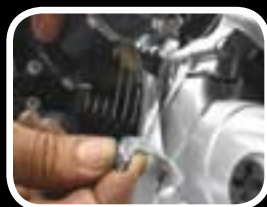
- Increment : 5° (6° for sizes 8 and 9).
Small increments for better performance.
- Perfectly suited to quick pre-tightening and loosening operations, for maximum productivity, even where access is restricted.



Guaranteed safety for all professional applications.

Particular care has been taken in the design of the new FACOM reversible ratchet combination wrench to avoid the risk of accidental reversal.

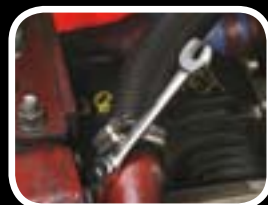
Facom's 67 and 67S range incorporates a recessed reversing lever which protects it during torquing.



Guaranteed safety for all professional applications.

Working conditions are changing. The related constraints of compact, cluttered work spaces and increasingly difficult access are a focus of Facom's concerns.

- A range to cater for changing working environments.
- The 67 range includes :
 - The 67S ultra-compact short ratchet combination wrench.
 - The highly versatile 67F hinged ratchet combination wrench.



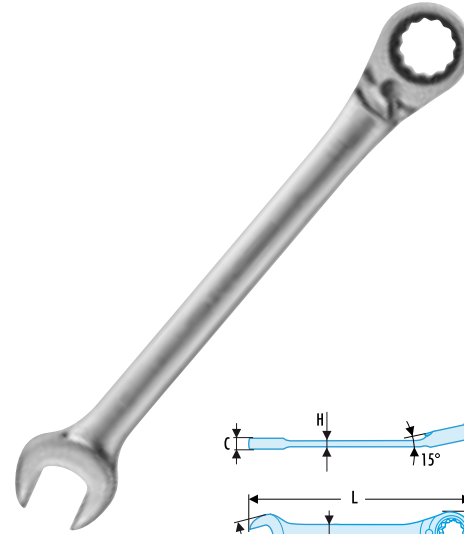
Ratchet wrenches

67 Ratchet combination wrenches

▷ ISO 1711-1.

- Reversible ratchet system incorporated within a compact ring head.
- High performance, suitable for aircraft fasteners.
- Integral reversing lever avoids any risk of accidental reversal.
- Wrench angled at 15°.
- 5° increments (6° for sizes 8 and 9).
- Satin chrome finish.

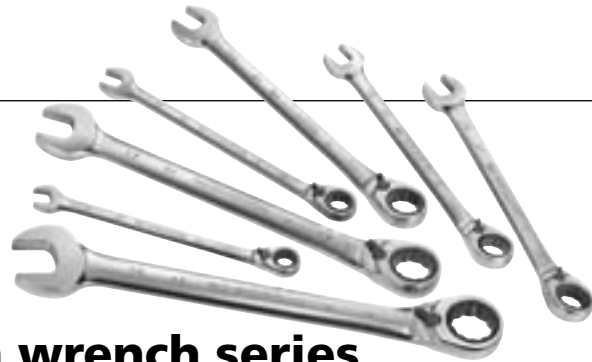
	B mm	D mm	B' mm	C mm	C' mm	L mm	H mm	ΔΔ g
67.6	15	7,5	14	4	6,3	128	2,8	27
67.7	16,7	7,5	17	4,3	6,5	140	2,8	32
67.8	16,7	7,5	17	4,3	6,5	140	2,8	42
67.9	18,7	8	18,6	4,5	6,9	149	3	50
67.10	20,8	8,8	20,2	5	7,3	158	3,4	59
67.11	23	9,9	22	5,3	7,7	165	3,7	71
67.12	24,6	10,8	23,4	5,5	8,2	171	4	88
67.13	26,8	11,8	25,5	6,1	8,6	178	4,3	101
67.14	29	12,6	26,9	6,5	9	190	4,5	119
67.15	31	13,4	28,3	6,8	9,4	199	4,7	138
67.16	33	14,1	29,8	7,1	9,9	208	4,9	153
67.17	35,5	15,2	31,8	7,5	10,3	225	5,3	186
67.18	37,5	16,1	32,7	8,1	10,7	236	5,5	211
67.19	39,4	16,8	34	8,6	11,2	247	5,7	243
67.21	45,8	19,5	40,1	9	13	287,8	6,3	343
67.22	45,8	19,5	40,1	9	13	287,8	6,3	343
67.24	51,8	22,1	46,5	10	14,5	321	6,5	476
67.27	56,4	25	52,4	10,8	15,5	356,6	8,4	693
67.30	62,7	27	58,1	11,5	17	400,7	8,5	891
67.32	66,4	29,2	61,9	12,4	17,5	423,5	9,5	1079



67 Metric ratchet combination wrench sets

- Supplied as rack, module or box sets.

			mm	kg
67.JP9			8-10-11-12-13-16-17-18-19	1,195
67.J7	•		8-10-12-13-14-17-19	0,876
MOD.67.J12		PL.652	8-9-10-11-12-13-14-15-16-17-18-19	1,590
MOD.67.XL		PL.653	21-22-24-27-30-32	4,090



▶ Short ratchet combination wrench series

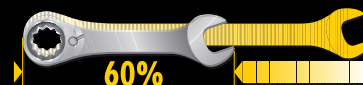
67S

Short reversible ratchet combination wrenches

ACCESSIBILITY FIRST

Easier servicing and repair.

- Ideal for applications that present problems in terms of :
 - congestion,
 - visibility and accessibility.
- Saves time.
- Comfortable to use.
- Automotive applications : working around the engine block or gearbox, instrument panel, steering column, electric or control panels.



Unbeatably ultra-compact.

- 40% more compact than a traditional ratchet combination wrench.

Ideal for applications where access is limited.

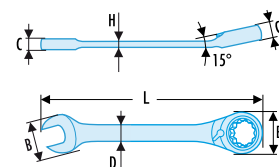
67S Short ratchet combination wrenches

▷ ISO 1711-1.

- Reversible ratchet system incorporated within a compact ring head.
- Head angled at 13°.
- 5° increments (6° for sizes 8 and 9).
- Integral reversing lever avoiding accidental reversal.
- Satin chrome finish.



67S	B mm	D mm	B' mm	C mm	C' mm	L mm	H mm	ΔΔ g
67S.7	16,2	7,8	16,7	4	6,5	90	2,8	22
67S.8	16,2	7,8	16,7	4	6,5	90	2,8	22
67S.9	18,2	8,8	18,6	4,4	6,9	93	2,9	29
67S.10	20,3	9,3	20,0	4,8	7,3	95	3,3	35
67S.11	22,5	10,2	21,8	5,2	7,7	103	3,7	44
67S.12	24,3	10,8	23,0	5,3	8,2	106	3,9	51
67S.13	26,8	11,8	25,2	5,8	8,6	108	4,0	63
67S.14	28,7	12,6	26,8	6,2	9	115	4,4	77
67S.15	30,5	13,3	28,3	6,5	9,4	119	4,5	88
67S.16	32,9	14,1	29,8	6,8	9,9	123	4,7	105
67S.17	34,9	15,2	31,8	7,2	10,3	127	5,0	117



6-piece set of short ratchet combination wrenches

67S.JP6

- 6-piece set of short ratchet combination wrenches.
- Sizes : 8 - 10 - 11- 12 - 13 - 14.
- FACOM Design Support.
- Support ref : CK.67SJ1.



► Hinged ratchet combination wrench series

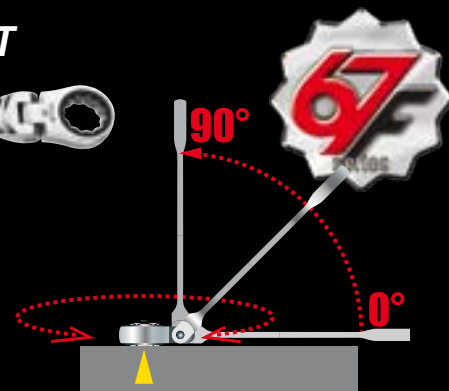
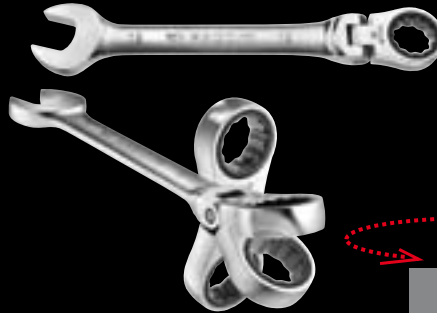
67F

Hinged ratchet combination wrenches

VERSATILE, COMPACT AND ULTRA-EFFICIENT

Accessibility and Comfort.

- Overcomes the problems of tightening and loosening in applications where the operator must work blind.
- The hinged head adapts to each application for maximum efficiency and working comfort.
- Hand remains clear, limiting the risk of scratching or injury.
- Perfect grip, better torque transfer, faster.



Versatile ring head.

The hinged ring head is ideally suited to applications requiring :

- An ultra-compact ratchet.
- An extra low profile wrench.
- Extreme manoeuvrability.

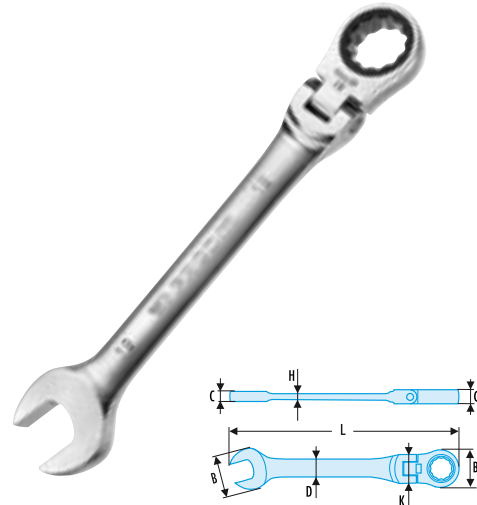


67F Hinged ratchet combination wrenches

► ISO 1711-1.

- Ratchet system incorporated within a compact ring head.
- 180° wrench movement.
- 5° increments (6° for sizes 8 and 9).
- Satin chrome finish.

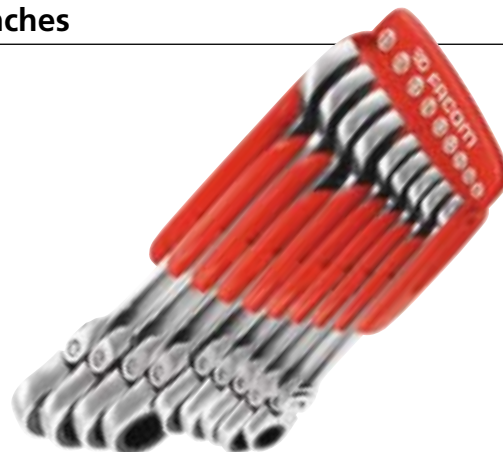
67F	B	D	B'	C	C'	K	L	H	ΔΔ
	mm	mm	mm	mm	mm	mm	mm	mm	g
67F.8	16,2	7,8	16,7	4,3	6,5	13	127	3	35
67F.9	18,2	8,8	18,6	4,6	6,9	14,6	131,5	3,1	45
67F.10	20,3	9,3	20	5	7,3	16	136	3,4	52
67F.11	22,5	10,2	21,8	5,4	7,7	17	141	3,8	64
67F.12	24,8	10,8	23	5,8	8,2	18	147,5	4	78
67F.13	26,8	11,8	25,2	6,1	8,6	19	154	4,1	94
67F.14	28,7	12,6	26,8	6,4	9	20	160	4,6	108
67F.15	30,5	13,3	28,3	6,9	9,4	21	169	4,8	127
67F.16	32,9	14,1	29,8	7,2	9,9	22	179	5	149
67F.17	34,5	15,2	31,8	7,6	10,3	23	190	5,3	181
67F.18	37	15,9	32,8	8	10,7	24	203	5,5	204
67F.19	39,2	16,8	33,9	8,6	11,2	25	215	5,8	236



9-piece set of hinged ratchet combination wrenches

67F.JP9

- 9-piece set of hinged ratchet combination wrenches
- Sizes : 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19.
- FACOM Design Support.
- Support ref : CK.CLE.



► Ratchet ring wrench series

Ratchet ring wrenches 64



GUARANTEED compliance
with ISO 1711-1.

EXTRA LOW-PROFILE.

Ideal for crowded or tight spaces.

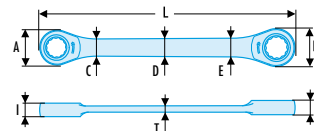
- The compact ring head perfectly replaces the ratchet and socket combination and provides the advantages of an extra low-profile ratchet.
- Extra thin walls (T) for the tightest clearances.
- Optimum diameter (D) for an unbeatably compact design.
- 5° increments.
- Ideal for low clearance applications.
- Enables quick tightening and loosening in the most difficult conditions.

64 - Metric and inch 12 point ratchet ring wrenches

► ISO 1711-1.

- Ideal for use where access is difficult.
- Ultra-compact ring head.
- 5° increments.
- High performance, suitable for aircraft fasteners.
- Satin chrome finish.

Size	A mm	B mm	C mm	D mm	E mm	I mm	J mm	t mm	L mm	ΔΔ g
64.6X7	14,2	17,2	8	8	8	6,3	6,5	3	115	35
64.8X9	16,8	20,2	8,3	8,7	9,1	6,5	6,9	3,2	128	42
64.10X11	20,2	21,8	9,1	9,7	10,3	7,3	7,7	3,6	150	60
64.12X13	23	24,8	11,3	11,8	12,3	8,2	8,6	4,2	170	81
64.14X15	26,5	29,5	13,1	13,7	14,3	9	9,4	4,7	190	128
64.16X18	29,5	33,5	14,8	15,7	16,6	9,9	10,7	5,4	210	182
64.17X19	31,5	33,5	15,2	15,9	16,6	10,3	11,2	5,4	230	187
64.21X23	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480
64.22X24	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480
64.1/4X5/16	14,2	17,2	8	8	8	6,3	6,5	3	115	35
64.5/16X11/32	16,8	20,2	8,3	8,7	9,1	6,5	6,9	3,2	128	42
64.3/8X7/16	20,2	21,8	9,1	9,7	10,3	7,3	7,7	3,6	150	60
64.1/2X9/16	23	24,8	11,3	11,8	12,3	8,6	9	4,2	180	116
64.5/8X11/16	29,5	33,5	14,8	15,7	16,6	9,9	10,7	5,4	210	182
64.3/4X13/16	33,5	40	15,2	15,9	16,6	11,2	13	5,4	245	307
64.7/8X15/16	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480



64 - Sets of metric and inch 12 point ratchet ring wrenches

- Supplied as box, roll or module sets.

Size	Sizes	Box	Roll	Module	ΔΔ kg
64.J4	10x11 - 12x13 - 16x18 - 17x19			•	0,536
64.JE6T	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	N.38A-6B			0,825
64.JU6T	1/4x5/16 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 3/4x13/16 - 7/8x15/16	N.38A-6B			1,312
MOD.64J7	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19	PL.608A			1,153



► 15° offset head ratchet ring wrench series

65

Offset ratchet ring wrenches

Angled heads

GUARANTEED compliance
with ISO 1711-1.

Accessibility and Comfort.

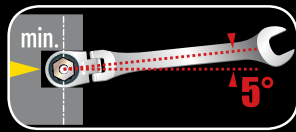
- The compact ring head perfectly replaces the ratchet and socket combination and provides the advantages of an extra low-profile ratchet.
- Head angled at 15° on each side.
- Keeps the hand away from the application.

Saves time.

- 5° increments.
- Ideal for low clearance applications.
- Enables quick tightening and loosening in the most difficult conditions.

Safe.

- Integral reversing lever avoids any risk of accidental reversal while in use.

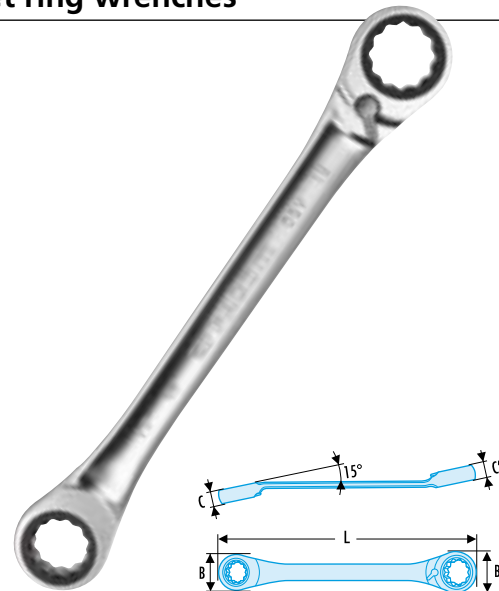


65 - 12-point metric and inch 15° angle head ratchet ring wrenches

► ISO 1711-1.

- Ideal for use where access is difficult.
- Ultra-compact ring heads angled at 15°.
- 5° increments.
- Integral reversing levers avoid any risk of accidental reversal.
- High performance, suitable for aircraft bolts.
- Satin chrome finish.

	B	B'	C	C'	L	ΔΔ
	mm	mm	mm	mm	mm	g
65.6X7	14	17	6,3	6,5	115	30
65.8X9	17	20,2	6,5	6,9	128	42
65.10X11	20,2	22	7,3	7,7	150	62
65.12X13	23,4	25,5	8,2	8,6	170	90
65.14X15	26,9	29,8	9	9,4	190	130
65.16X18	29,8	34	9,9	10,7	210	187
65.17X19	31,8	34	10,3	11,2	230	208
65.21X23	40,1	46	13	14,5	260	430
65.22X24	40,1	46,5	13	14,5	260	424
65.1/4X5/16	14	17	6,3	6,5	115	30
65.5/16X11/32	17	20,2	6,5	6,9	128	44
65.3/8X7/16	20,2	22	7,3	7,7	150	62
65.1/2X9/16	25,5	26,9	8,6	9	180	108
65.5/8X11/16	29,8	31,8	9,9	10,3	200	169
65.3/4X13/16	34	40,1	11,2	13	245	291
65.7/8X15/16	40,1	46,5	13	14,5	260	419



65 - Metric and inch 15° angle head ratchet ring wrench sets

- Supplied as rack, roll or module sets.

	Ø			ΔΔ
	mm			kg
65.JP6	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19			0,830
65.JU6T	1/4x5/16 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 3/4x13/16 - 7/8x15/16	N.38A-6B		1,312
MOD.65J7	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19	PL.608A		0,925



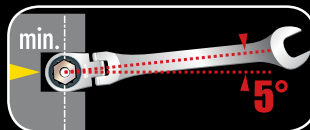
► Ratchet bit driver series

65.PE**Ratchet bit holder wrench****Facom performance**

- Reversible ratchet system incorporated within a compact ring head.
- Wrench angled at 15°.
- Increment : 5°.
- Small increments for a better increment-to-performance ratio.
- Facom reversing lever.

Ultra compact and practical.

- Spring clip bit attachment.
- Knurled head for easier pre-tightening.
- Used for installing 1/4" and 5/16" aircraft type fasteners.



GUARANTEED compliance
with ISO 1711-1

**1/4" - 5/16" bit holder wrench****65.PE**

- Takes bits :
 - Series 1 : hexagonal 1/4"
 - Series 2 : hexagonal 5/16"
- Used for installing 1/4" and 5/16" aircraft fasteners.
- 5° increments.
- Heads angled at 15°.
- Bits retained by spring-clip.
- Knurled head for fast pre-tightening.
- Length : 150 mm
- Satin chrome finish.

ΔΔ : 74 g

**Ratchet wrench and bit set****65.PEJ13**

- Wrench 65.PE.
 - 13 bits.
 - For Torx® Tamper Resistant screws® : EXR.110 - EXR.115
 - EXR.120 - EXR.125 - EXR.130 - EXR.140.
 - Hexagon socket heads : EH.103 - EH.104 - EH.105 - EH.106.
 - For Pozidriv® screw : ED.101T - ED.102T - ED.103T.
 - BP.102.
 - PL.367 A.
- ΔΔ : 400 g



Open-end wrenches

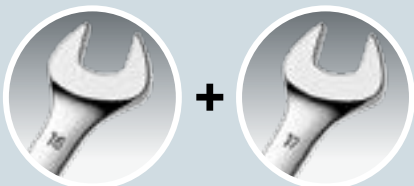
► Standard series



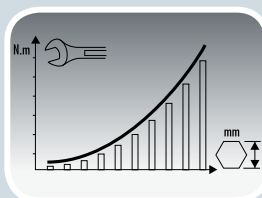
44 series open end wrenches

THE "DOUBLE-ENDED" WRENCH

2 sizes per wrench

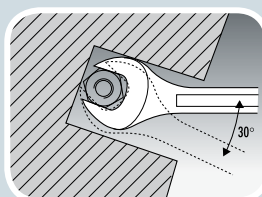


- Reduces the number and weight of tools.



Power and precision

- Tightening torque : ISO 1711, DIN 899, NF E 74.381.
- Tight tolerances on openings for a perfect fit on fasteners.



Slim profile and comfort

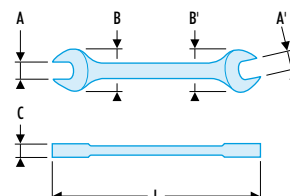
- Smaller shape and volume for better accessibility.
- Streamlined heads.
- 30° increments.

44 Metric and inch open-end wrenches

► ISO 10102, DIN 3110, NF ISO 3318, NF ISO 10102.

- Metric sizes from 3.2 to 42 mm.
- Inch sizes from 1/4" x 5/16" to 17/16" x 15/8".
- Satin chrome finish.

A mm	A"	B x B' mm	C mm	L mm	ΔΔ g
44.3.2X5,5		11 x 13,5	3,0	90	11
44.4X5		11 x 13,5	3,0	90	11
44.6X7	44.1/4X5/16	15 x 17,5	3,5	120	20
44.8X9		18,5 x 21	3,8	137	30
44.8X10	44.11/32X13/32	19 x 23	4,2	143	38
44.10X11	44.3/8X7/16	23 x 25	4,7	152	47
44.10X13		23 x 29	5,1	162	58
44.11X13		25,5 x 29	5,1	167	65
44.12X13		25,5 x 29	5,1	167	64
44.12X14	44.1/2X9/16	29 x 33,5	5,5	177	77
44.14X15		31 x 33	5,8	182	87
44.13X17		31 x 37	6,3	192	118
44.16X17		35,5 x 37	6,3	200	118
44.16X18	44.5/8X11/16	37 x 42	6,8	210	144
44.17X19	44.11/16X3/4	37 x 42	6,8	210	144
44.18X19		39 x 42	7,3	220	157
44.20X22	44.3/4X13/16	43 x 48,5	7,5	240	200
44.21X23		47 x 50,5	7,8	242	218
44.22X24	44.7/8X15/16	47,5 x 52	8,3	261	258
44.24X27		51 x 58	8,8	270	324
44.25X28		56 x 61,6	8,8	282	360
44.26X28	44.1"X1"1/16	56 x 61,6	8,8	282	360
44.27X29		59 x 64	9,5	301	450
44.27X30		59 x 64	9,5	301	450
44.27X32	44.1"1/8X1"1/4	63 x 70	9,8	318	513
44.30X32	44.1"3/16X1"5/16	63 x 70	9,8	318	513
44.33X35		71 x 75	11,5	342	720
44.34X36		71 x 75	11,5	342	720
44.36X41	44.1"3/8X1"1/2	78 x 87	12,0	381	945
44.38X42	44.1"7/16X1"5/8	78 x 87	12,0	381	945



44 Metric wrench sets

- Supplied as box, roll, module or panel sets.

			mm	ΔΔ kg
44.JE9	•		3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19	0,545
44.JE8	•		8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	0,98
44.JE12	•		6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32	2,29
44.JE17	•		3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32-33x35-36x41-38x42	4,925
44.JE8T	N.38A-8C		8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	1,02
44.JE9T	N.38A-9E		3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19	0,58
44.P17E	•		3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32-33x35-36x41-38x42	7,5
MOD.44-1	PL.315		6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	1,315
MOD.44-2	PL.316		26x28-27x29-30x32	1,578



44 Inch wrench sets

- Supplied as box or roll sets.

			mm	ΔΔ kg
44.JU6	•		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	0,65
44.JU12	•		1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 5/8 x 11/16 - 1/2 x 9/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1 x 1 1/16 - 1 1/8 x 1 1/4 - 1 3/16 x 1 5/8 - 1 3/8 x 1 7/8 - 1 7/16 x 1 5/8	3,96
44.JU8T	N.38A-8B		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1 x 1 1/16 - 1 1/8 x 1 1/4	1,56



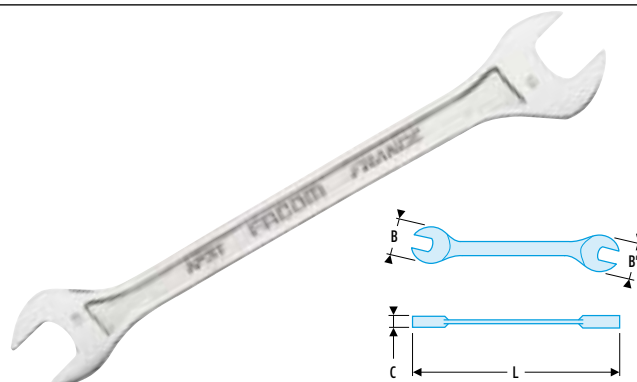
► Low-profile series

31 Metric low-profile open-end wrenches

► ISO 3318, NF E 74-304

- Metric sizes from 6 to 23 mm.
- 30 % slimmer than a conventional open-end wrench.
- Essential in confined spaces and for locknuts.
- Chrome finish.

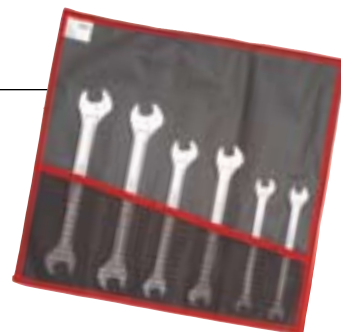
	B x B'	C	L	ΔΔ g
	mm	mm	mm	
31.6X7	16 x 19	2,2	148	18
31.8X9	20 x 24,5	2,4	175	28
31.10X11	20,5 x 25	2,4	175	28
31.12X13	28 x 33	3,6	210	68
31.14X15	29 x 33	3,6	210	68
31.16X17	38,5 x 43	4,2	250	140
31.18X19	38,5 x 43	4,2	250	140
31.20X22	49 x 53	5,6	292	270
31.21X23	49 x 53	5,6	292	270



31 Metric low-profile open-end wrench sets

- Supplied as roll sets.

		mm	ΔΔ kg
31.JE6T	N.38A-6B	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,6
31.JE9T	N.38A-9B	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	1,022



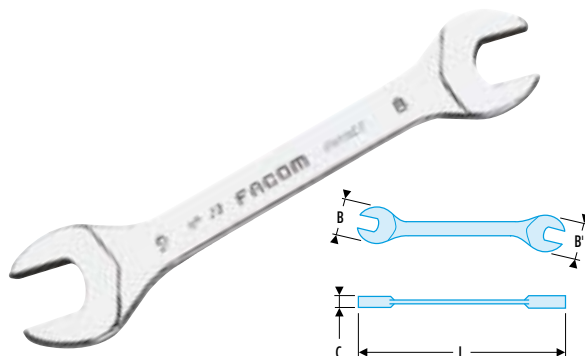
► Compact series

22 Metric and inch midget wrenches with open ends at 15°

► ISO 3318, NF ISO 3318.

- Metric sizes from 3.2 to 13 mm.
- Inch sizes from 3/16" x 1/4" to 1/2" x 9/16".
- Short shank and slim heads for access in confined spaces.
- Chrome finish.

➤ A mm	➤ A"	B x B' mm	C mm	L mm	ΔΔ g
22.3,2X5,5		10 x 13	2,4	70	6
22.4X5		10 x 13	2,4	70	6
22.6X7	22.3/16x1/4	14 x 16	2,7	80	10
	22.7/32x9/32	14x16	2,7	80	10
22.8X9	22.5/16x3/8	18 x 20	3	90	17
22.10X11	22.11/32x7/16	21 x 23	3	100	22
2.12X13	22.1/2X9/16	26 x 28	3,5	110	36



22 Metric and inch wrench sets

- Supplied as roll sets.

➤	➤	mm / "	ΔΔ g
22.JE6T	N.38-6A	3,2 x 5,5 - 4 x 5 - 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13	140
22.JU5T	N.38A-5C	3/16 x 1/4 - 7/32 x 9/32 - 5/16 x 3/8 - 11/32 x 7/16 - 1/2 x 9/16	130

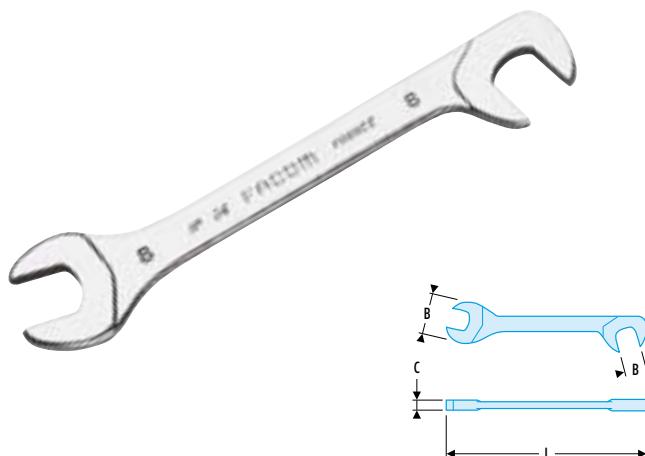


34 Metric and inch midget wrenches with open ends at 15° and 75°

► ISO 3318, DIN 3113, NF ISO 3318.

- Metric sizes from 3.2 to 17 mm.
- Inch sizes from 3/16" to 11/16".
- The heads angled at 15° and 75° give access to fasteners that are inaccessible with a standard wrenches.
- Short handle and very slim heads for manoeuvrability.
- Chrome finish.

➤ A mm	➤ A"	B mm	C mm	L mm	ΔΔ g
34.3,2		10	2,4	70	6
34.4		10	2,4	70	6
34.5	34.3/16	13	2,4	75	8
34.5,5	34.7/32	13	2,4	75	8
34.6	34.1/4	15	2,7	80	10
34.7	34.9/32	15	2,7	80	10
34.8	34.5/16	18,5	3	90	18
34.9	34.11/32	18,5	3	90	18
34.10	34.3/8	22	3	100	22
34.11	34.13/32	22	3	100	22
	34.7/16	22	3	100	22
34.12	34.1/2	27	3,5	120	36
34.13	34.9/16	27	3,5	120	36
34.14		27	3,5	120	40
34.15	34.5/8	33	4,5	140	67
34.16	34.11/16	33	4,5	140	67
34.17		33	4,5	140	67



34 Metric and inch short open-end wrench sets

- Supplied as roll sets.

➤	➤	mm / "	ΔΔ g
34.JL16T	N.38A-16A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17	560
34.JU13T	N.38A-13B	3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	430



Metric miniature open-end wrench set

34.JT8

- Set of 10 tools on a ring, holding :
 - 8 ultra-thin forged wrenches from 3.2 to 8 mm : 3.2-4-4.5-5-5.5-6-7-8 mm.
 - 1 feeler gauge 5/10°.
 - 1 screwdriver.
- Chrome finish.
- Supplied in a pouch.
- ΔΔ : 107 g.



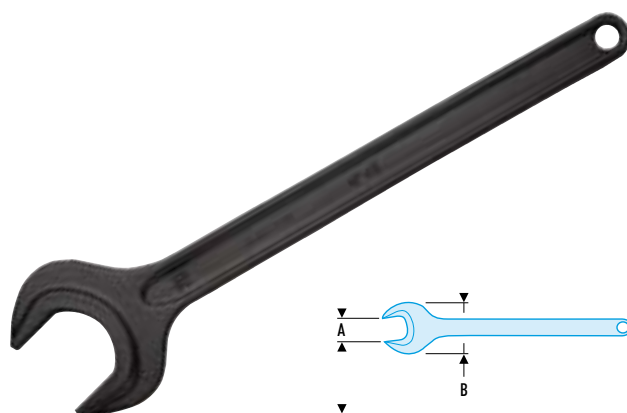
► Power series

45 Heavy-duty open-end wrenches

► DIN 894, NF E 74-301.

- Metric sizes from 30 to 75 mm.
- Forged in carbon steel and hardened to 120 kg/mm² for high torque applications (construction, railways, shipyards, farming, oil rigs, etc.).
- Hook eye.
- Burnished finish.

	A	B	C	L	ΔΔ
	mm	mm	mm	mm	kg
45.30	30	62	11	255	0,26
45.32	32	66	12	270	0,315
45.34	34	66	12	270	0,315
45.36	36	74	13	300	0,43
45.38	38	74	13	300	0,43
45.41	41	85,5	13,5	346	0,58
45.46	46	95,5	15,5	381	0,75
45.50	50	102	16	415	1,05
45.55	55	112,5	16	460	1,2
45.60	60	122,5	18	493	1,7
45.65	65	130,5	18	518	1,7
45.70	70	143	20	573	2,2
45.75	75	151	21	605	2,8



VSE 1,000 V insulated tools

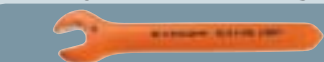
1,000 V insulated wrenches



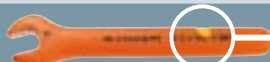
For "VE" series
1,000 V insulated
wrenches, see page

653

Safety colour coding



ORANGE : 1,000 V protection.



YELLOW visible : STOP and change tool.



Ring wrenches

► Standard series



Series 55A ring wrenches

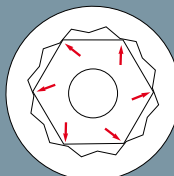
Facom OGV® profile.

Higher torque.

Increased durability.

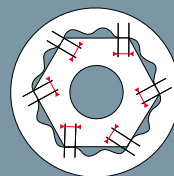
Reduced socket-fastener wear with 12-point OGV® ring.

Standard profile

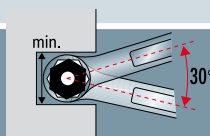


• Stress applied to edges

OGV® profile



• Bears against the side faces.



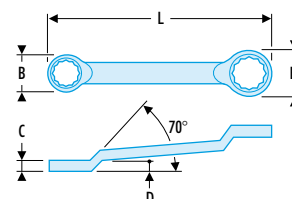
55A Metric and inch OGV® offset ring wrenches

► DIN 838.

- Metric sizes from 6 to 50 mm.
- Inch sizes from 1/4" to 1 1/4".
- 12-point OGV® ring.
- Satin chrome finish.



A mm	A"	B x B' mm	C x C' mm	D mm	L mm	ΔΔ g
55A.6X7		10,7 x 12,2	5,5 x 6,2	19 x 20	167	42
	55A.1/4X5/16	11 x 14	5,5 x 6,5	20 x 21	172	47
55A.7X8		12 x 14	5,5 x 6,5	20 x 21	172	45
55A.8X9		13,7 x 15,5	6,5 x 7,2	20 x 21	182	58
55A.8X10		13,7 x 15,5	6,5 x 7,2	20 x 21	182	64
	55A.11/32X13/32	15,5 x 18	7,5 x 8,7	22 x 23	197	85
55A.10X11	55A.3/8X7/16	16,5 x 18	7,5 x 17	22 x 23	197	82
55A.11X13	55A.7/16X1/2	18 x 21	8,9 x 9,2	24 x 25	217	108
55A.12X13		19,5 x 21,5	8,9 x 9,2	24 x 25	218	117
	55A.1/2X9/16	21,5 x 23	9,2 x 9,7	25 x 26	238	143
55A.13X15		21,5 x 23,5	9,2 x 9,7	25 x 26	238	147
55A.14X15	55A.9/16X5/8	22 x 23,5	9,2 x 9,7	25 x 26	238	135
55A.13X16		21,5 x 26	9,4 x 10,7	27 x 28	245	155
55A.13X17		21 x 26	9,4 x 10,7	27 x 28	245	156
55A.16X17	55A.5/8X11/16	25,7 x 27	10,7 x 11,2	27 x 28	258	196
55A.16X18	55A.19/32X25/32	25,7 x 27,2	10,7 x 11,2	27 x 28	258	197
55A.17X19	55A.5/8X3/4	27 x 29,7	11,2 x 12,2	29 x 30	290	263
55A.18X19	55A.11/16X3/4	27 x 29,7	11,2 x 12,2	29 x 30	290	254
55A.18X21	55A.3/4X13/16	29 x 33	11,7 x 12,7	31 x 32	296	289
55A.19X22		29 x 33,7	11,7 x 12,7	31 x 32	296	283
55A.20X22	55A.13/16X7/8	32 x 35	12,2 x 13,2	31 x 32	316	363
55A.21X23		32 x 35	12,2 x 13,2	31 x 32	316	361
55A.22X24	55A.7/8X15/16	33,7 x 36,7	12,2 x 13,2	33 x 34	324	391
55A.24X26	55A.15/16X1"	37,2 x 41	12,7 x 14,3	33 x 34	328	470
55A.24X27		37,2 x 41,2	12,7 x 14,3	33 x 34	328	464
	55A.1"X1"1/16	39,7 x 42	13,7 x 14,7	34 x 35	345	519
55A.25X28		39,7 x 43	13,7 x 14,7	34 x 35	345	514
55A.26X28		39,7 x 43	13,7 x 14,7	34 x 35	345	507
55A.27X29	55A.1"1/16X1"1/8	41,5 x 46	14,3 x 15,7	35 x 36	353	574
55A.27X30		41,5 x 46	14,3 x 15,7	35 x 36	353	569
55A.27X32		41,5 x 46,2	14,3 x 15,7	35 x 36	353	572
55A.30X32	55.1"1/8X1"1/4	45,3 x 48,7	15,2 x 16,7	36 x 38	360	638
55A.30X34		46 x 52	17,2 x 19,2	37 x 39	402	818
55A.34X36		52 x 55	18,2 x 20,2	40 x 42	440	1074
55A.36X41		53,7 x 61,7	18,2 x 20,2	40 x 42	440	1073
55A.38X42		41,5 x 46	14,3 x 15,7	35 x 36	353	1060
55A.46X50		70,7 x 76,7	20,7 x 21,7	44 x 48	510	1884



55A Metric and inch ring wrench sets

• Supplied as box, roll, module or panel sets.

			mm/"	ΔΔ kg
55A.JN6	•		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,738
55A.JD8	•		6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22	1,034
55A.JE8	•		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26	1,422
55A.JD10	•		6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32	2,03
55A.JE12	•		6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26 - 26 x 28 - 27 x 29 - 30 x 32	3,288
55A.JD12	•		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 - 25 x 28 - 27 x 32	3,076
55A.JD12A	•		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 27 - 25 x 28 - 30 x 32	3,116
55A.JE14	•		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 - 26 x 28 - 27 x 29 - 30 x 32 - 36 x 41 - 38 x 42	6,178
55A.JU6A	•		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	0,99
55A.JU8	•		1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 19/32 x 25/32 - 3/4 x 13/16 - 7/8 x 15/16	1,266
55A.JU10	•		1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 19/32 x 25/32 - 3/4 x 13/16 - 7/8 x 15/16 - 1" x 1 1/16 - 1 1/8" x 1 1/4"	2,4
55A.JN6T	N.38A-6B		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,83
55A.JD8T	N.38A-6B		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22	1,12
55A.JE8T	N.38A-6B		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26	1,51
55A.JU6AT	N.38A-6B		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	1,08
55A.JU8T	N.38A-6B		1/4x5/16-11/32x13/32-3/8x7/16-1/2x9/16-5/8x11/16-19/32x25/32-3/4x13/16-7/8x15/16	1,356
55A.JU8AT	N.38A-6B		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1" x 1 1/16 - 1 1/8" x 1 1/4"	1,22
55A.P14E	•		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 - 26 x 28 - 27 x 29 - 30 x 32 - 36 x 41 - 38 x 42	8,5
MOD.55-1	PL.317A		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19	0,920
MOD.55-2	PL.318		21x23 - 22x24 - 26x28	1,450
MOD.55-3	PL.600		1/4x5/16 - 11/32x13/32 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 19/32x25/32 - 3/4x13/16	1,020



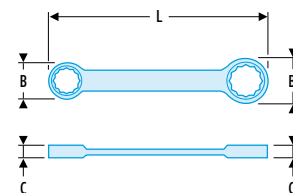
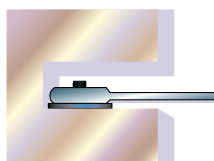
59 Metric straight ring wrenches

▷ ISO 10103, DIN 837, NF ISO 10103.

- Slim rings and short shank for working in congested spaces.
- 12-point heads giving 30° increments.
- Satin chrome finish.



	B x B'	C	L	ΔΔ
	mm	mm	mm	g
59.6X7	9,9 x 11,2	4,7	100	10
59.8X9	12,5 x 14	5,2	115	16
59.10X11	15,5 x 16,5	6,4	128	28
59.12X13	18,5 x 20,5	7,3	143	40
59.14X15	21 x 22,5	7,3	157	50
59.16X17	23,5 x 24,5	8,5	168	65
59.18X19	26 x 27,5	9,2	189	80
59.21X23	31,2 x 33,8	11,6	217	130
59.22X24	31,2 x 33,9	11,6	217	130
59.26X28	36,5 x 40,5	11,8	265	230
59.27X29	38,9 x 43,4	12,8	285	270
59.30X32	42,5 x 45	12,8	285	280



Ring wrenches

59 Straight ring wrench sets

- Supplied as box or roll sets.

			mm	ΔΔ kg
59.JN6		•	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,279
59.JE12		•	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 - 26 x 28 - 27 x 29 - 30 x 32	1,329
59.JN8T	N.38A-8C		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 22 x 24	0,570

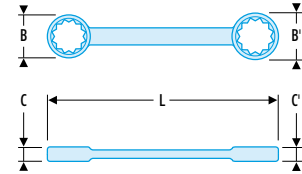


59TX Torx® ring wrenches

- Torx® pattern with 30° increments by reversing the tool.
- "Tear-drop" profile of ring outer walls ensures even stress distribution and higher strength.
- Polished chrome finish.



	N° Torx®	B x B' mm	C x C' mm	L mm	ΔΔ g
59TX.6X8	E6 x E8	9 x 11	5 x 6	115	15
59TX.10X12	E10 x E12	13 x 15	7 x 8	150	35
59TX.14X18	E14 x E18	17 x 21	8 x 9,5	190	65
59TX.20X24	E20 x E24	24 x 28	11 x 13,5	240	190



Set of 4 Torx® ring wrenches

59TX.J4

- Torx® pattern with 30° increments by reversing the tool.
- "Tear-drop" profile of ring outer walls ensures even stress distribution and higher strength.
- Set of 4 Torx® wrenches : E6 x E8, E10 x E12, E14 x E18, E20 x E24.
- Polished chrome finish.
- ΔΔ 315 g.

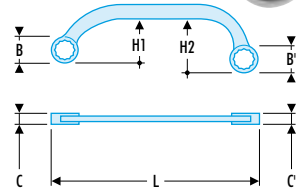
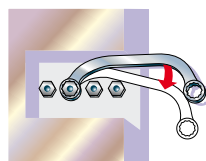


Half-moon series

57 Metric half-moon ring wrenches

- ▷ ISO 3318, NF ISO 3318.
- Half-moon shape reaches where standard tools cannot.
- 12-point ring giving 30° increments.
- Satin chrome finish.

	H1 x H2 mm	B x B' mm	C x C' mm	L mm	ΔΔ g
57.10X12	24 x 26	17 x 19,5	8 x 8	143	85
57.11X13	24 x 26	17 x 19,5	8 x 8	143	85
57.13X15	28 x 31	20 x 23	8,5 x 9	166	100
57.14X16	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.14X17	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.15X17	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.16X18	33 x 35	24 x 27	9,5 x 10	200	215
57.19X22	32 x 41	28,5 x 32,5	10 x 11	235	280



Set of 5 metric half-moon ring wrenches

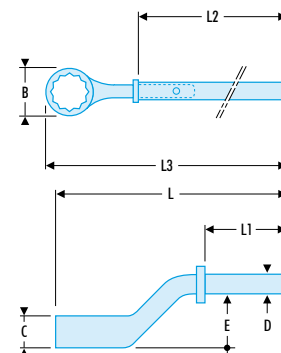
57.JE5

- Supplied as box sets.

		mm	ΔΔ g
57.JE5	•	10 x 12 - 11 x 13 - 14 x 17 - 16 x 18 - 19 x 22	850

▶ **Power series****54 Metric heavy-duty offset ring wrenches**

- Metric sizes from 24 to 70 mm.
- Offset 12-point ring giving 30° increments.
- High power from resilient ring combined with long removable handle (order separately).
- Chrome finish.

**Wrenches**

	B x C mm	Ø D x L1 mm	E x L mm	ΔΔ kg
54A.24	38 x 17,0	18,5 x 85	29,5 x 180	0,380
54A.30	48 x 18,0	18,5 x 95	33,5 x 200	0,550
54A.32	49 x 18,0	21,5 x 116	34,0 x 235	0,700
54A.36	54 x 20,0	21,5 x 120	35,5 x 245	0,840
54A.41	62 x 22,0	21,5 x 127	39,5 x 265	1,000
54A.46	69 x 23,0	24,5 x 129	40,0 x 280	1,300
54A.50	76 x 25,5	24,5 x 129	42,5 x 290	1,450
54A.55	81 x 28,0	24,5 x 136	45,5 x 300	1,500
54A.60	90 x 30,5	29,5 x 156	49,0 x 345	2,300
54A.65	98 x 33,0	29,5 x 158	53,0 x 355	2,400
54A.70	105 x 35,5	29,5 x 160	55,0 x 365	2,800

Handles*

	L2 mm	L3 mm	ΔΔ kg
54.M1B	460	555 565	0,58
54.M2B	610	730 735 748	1,112
54.M3B	760	910 920 925	2,214
54.M4B	860	1050 1060 1065	2,881

Handles* * Suitable handles listed opposite wrench sizes.

Metric heavy-duty ring wrench set**54.P9M**

- Supplied as panel sets..

	Handles	mm	ΔΔ kg
54.P9M	54.M1B, 54.M2B, 54.M3B	• 24 - 30 - 32 - 36 - 41 - 46 - 50 - 55	13,5

**Ratchet ring wrenches**

For ratchet
ring wrenches,
see page p.

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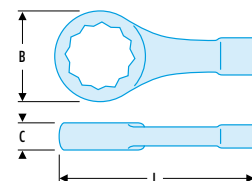


► Slogging wrench series

50 Metric and inch slogging ring wrenches

- 12-point ring giving 30° increments.
- For use with a sledge or air hammer for tightening or loosening fasteners on heavy equipment.
- Forged in high impact-strength steel.
- Paint finish

►	B x C mm	L mm	ΔΔ kg
50.24	50 x 18	170	0,548
50.27	50 x 18	170	0,524
50.30	50 x 18	170	0,502
50.32	62 x 21	190	0,880
50.34	62 x 21	190	0,873
50.35	62 x 21	190	0,852
50.36	62 x 21	190	0,826
50.38	62 x 21	190	0,800
50.40	72 x 24	209	1,452
50.41-1'5/8	72 x 24	209	1,418
50.42	72 x 24	209	1,277
50.43-1'11/16	72 x 24	209	1,319
50.44	72 x 24	209	1,264
50.45	72 x 24	209	1,274
50.46-1'13/16	87,5 x 28	238	2,145
50.47	87,5 x 28	238	2,146
50.48	87,5 x 28	238	2,186
50.50	87,5 x 28	238	2,072
50.52	87,5 x 28	238	2,030
50.54	87,5 x 28	238	2,015
50.55	102 x 30	275	2,969
50.56	102 x 30	275	2,805
50.57-2'1/4	102 x 30	275	2,727
50.58	102 x 30	275	2,807
50.59	102 x 30	275	2,724
50.60-2'3/8	102 x 30	275	2,761
50.65-2'9/16	102 x 30	275	2,553
50.67-2'5/8	102 x 30	275	4,346

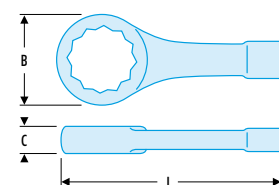


►	B x C mm	L mm	ΔΔ kg
50.70-2'3/4	102 x 30	275	4,221
50.75-2'15/16	102 x 30	275	4,068
50.76-3'	102 x 30	275	3,962
50.78	142 x 38	358	6,440
50.80	142 x 38	358	6,301
50.85	142 x 38	358	6,041
50.90	142 x 38	358	5,750
50.95	142 x 38	358	9,245
50.100	142 x 38	358	8,946
50.105	142 x 38	358	8,705
50.110	142 x 38	358	14,633
50.115	142 x 38	358	13,941
50.120	142 x 38	358	13,698

51A Thin wall slogging ring wrenches

- Metric sizes from 32 to 85 mm.
- 12-point ring giving 30° increments.
- Thinner but higher walls fit into narrower spaces without compromising wrench strength.
- Paint finish

►	B x C mm	L mm	ΔΔ kg
51A.32	49,0 x 23	195	0,6
51A.36	56,0 x 26	195	0,65
51A.41	61,0 x 29	200	0,8
51A.46	70,0 x 32	250	1,23
51A.50	73,0 x 35	280	1,35
51A.55	77,0 x 38	300	1,7
51A.58	77,0 x 38	300	1,58
51A.60	82,5 x 42	300	1,97
51A.65	90,5 x 45	320	2,52
51A.70	99,0 x 47	355	2,94
51A.75	106,0 x 53	360	3,77
51A.80	114,0 x 57	440	5,12
51A.85	117,0 x 57	440	5,1



For manual
impact wrenches
see page

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The power to free or secure very tight fasteners



Standard series

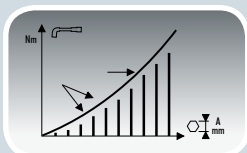
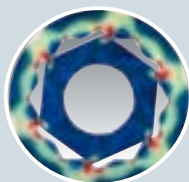


OGV® angled open-socket wrenches

Facom OGV® profile

- Facom OGV® 6 and 12-point profiles. extend contact area while reducing stress.

- Increased torque.
- Longer tool life.
- Protected fastener corners.



Through-hole and deep recess

- Angle and through-hole design accommodates threaded rods or a bar for extra leverage, without affecting wrench strength.
- Deep recess at one end and open-end socket at the other fit over protruding studs

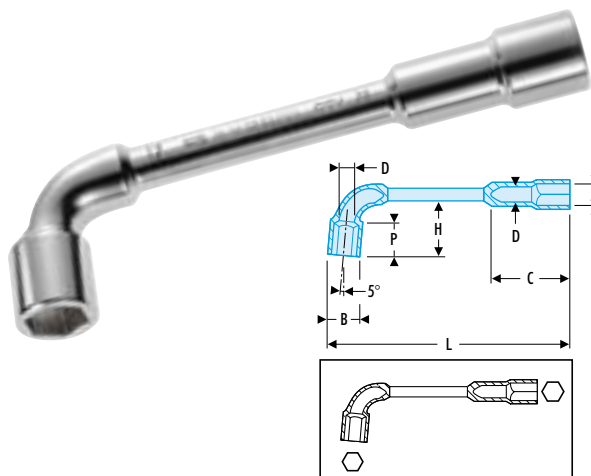


75 Forged metric and inch 6 x 6 point OGV® angled open-socket wrenches

▷ ISO 2236, NF ISO 2236.

- Satin chrome finish.

Ø A mm	Ø A"	B mm	C mm	P mm	D mm	H mm	L mm	ΔΔ g
75.6	75.1/4	10	21	6	5	15	102	32
75.7		11	22	7	5	17	106	35
75.8	75.5/16	12,5	25	8	7	19	114	60
75.9		13,5	26	9	7	20	122	65
75.10	75.3/8	15	28	10	8	24	129	95
75.11	75.7/16	16,5	30	11	8	25	136	114
75.12		18	36	12	9	28	144	152
75.13	75.1/2	19,5	38	13	9	30	152	175
75.14		21	40	14	10,5	32	160	202
75.15	75.9/16	22,5	42	15	10,5	34	169	226
75.16	75.5/8	24	46	16	13	37	178	285
75.17		25,5	48	17	13	39	187	312
75.18	75.11/16	26,5	50	18	13	40	195	365
75.19	75.3/4	28,5	51	19	15	41	204	430
75.20		29,5	53	20	15	43	212	440
75.21	75.13/16	30,5	55	21	15	46	221	490
75.22		32	57	22	15	48	230	536
75.23	75.7/8	33,5	64	23	18	51	240	626
75.24	75.15/16	34,5	67	24	18	54	250	660
75.25		36	69	25	20	56	260	785
75.26	75.1"	37	70	26	20	57	270	795
75.27		38,5	73	27	22	58	280	950
75.28		39,5	75	28	22	60	290	950
75.29		41	76	29	22	62	300	1050
75.30		42	83	30	24	64	310	1300



Ø A mm	Ø A"	B mm	C mm	P mm	D mm	H mm	L mm	ΔΔ g
75.31		43,5	86	30	24	70	320	1385
75.32		44,5	88	31	24	74	330	1400
75.33		46	92	32	27	79	340	1480
75.34		47,5	95	33	27	80	350	1550
75.35		48,5	96	34	27	81	360	1630
75.36		49,5	97	35	27	82	370	1700
75.38		52	99	37	28	85	390	2080

75 Metric and inch angled socket wrench sets

- Supplied as box, module and panel sets.

Ø		mm/°	ΔΔ kg
75.JN8	•	8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	2,37
75.JN10	•	8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19	2,16
75.J12	•	7 - 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19 - 22 - 24	3,39
75.JE16	•	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	4,7
75.JU10	•	5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8	2,76
75.P22M	•	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32	13,34
MOD.75-1	PL.625	8-10-11-12-13-14-16-17-18-19	2,480

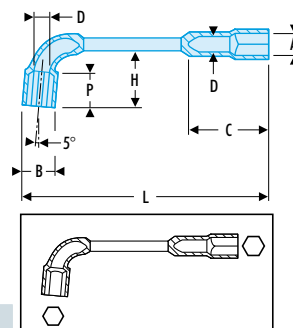
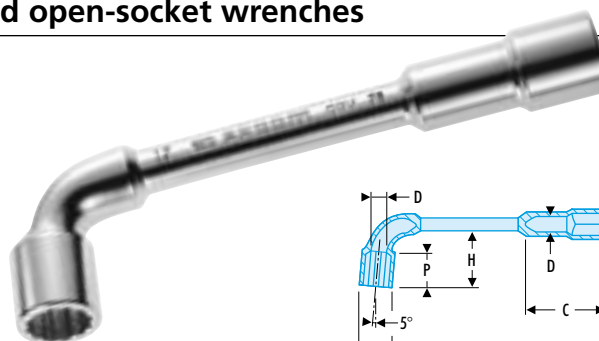


76 Forged metric 12 x 6 point OGV® angled open-socket wrenches

▷ ISO 2236, NF ISO 2236.

- Satin chrome finish.

76	B	C	P	D	H	L	ΔΔ
A mm	mm	mm	mm	mm	mm	mm	g
76.6	10	23	6	5	16	102	32
76.7	11	24	7	5	17	106	41
76.8	12,5	27	8	7	19	114	60
76.9	13,5	28	9	7	20	122	65
76.10	15	30	10	8	24	129	95
76.11	16,5	32	11	8	25	136	114
76.12	18	38	11	9	28	144	152
76.13	19,5	40	12	9	30	152	175
76.14	21	42	13	10,5	32	160	200
76.15	22,5	44	14	10,5	34	169	225
76.16	24	49	16	13	37	178	285
76.17	25,5	51	17	13	39	187	312
76.18	26,5	53	18	13	40	195	365
76.19	28,5	54	19	15	41	204	430
76.20	29,5	56	20	15	43	212	440
76.21	30,5	58	21	15	46	221	490
76.22	32	60	22	15	48	230	535
76.23	33,5	67	23	18	51	240	625
76.24	34,5	70	24	18	54	250	660
76.25	36	72	25	20	56	260	785
76.26	37	73	26	20	57	270	795
76.27	38	77	27	22	58	280	950
76.28	39,5	79	28	22	60	290	950
76.29	41	80	29	22	62	300	1050



76	B	C	P	D	H	L	ΔΔ
A mm	mm	mm	mm	mm	mm	mm	g
76.30	42	87	30	24	64	310	1300
76.31	43,5	90	30	24	70	320	1385
76.32	44,5	92	31	24	74	330	1400
76.33	46	96	32	27	79	340	1480
76.34	47	99	33	27	80	350	1550
76.35	48,5	100	34	27	81	360	1630
76.36	49,5	101	35	27	82	370	1700
76.38	52	103	37	28	85	390	2080

76 Metric and inch angled socket wrench sets

- Supplied as box or panel sets.

76		mm/°	ΔΔ
			kg
76.JN8	•	8-10-11-13-17-19-22-24	2,37
76.JN10	•	8-10-11-12-13-14-16-17-18-19	2,16
76.JE16	•	8-9-10-11-12-13-14-15-16-17-18-19 - 21-22-23-24	4,7
76.P22M	•	8-9-10-11-12-13-14-15-16-17-18-19 - 21-22-23-24-26-27-28-29-30-32	13,34



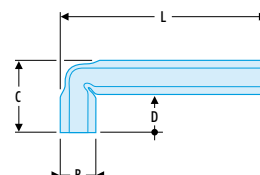
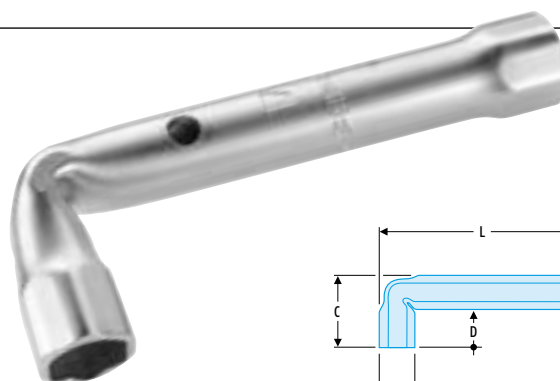
Box wrench series

92A Metric angled box wrenches

▷ ISO 2236, NF ISO 2236.

- Will reach nuts on threaded rods.
- Through hole for inserting bar 160A.
- Chrome finish.

92A	Suitable bar	B	C	D	L	ΔΔ
		mm	mm	mm	mm	g
92A.4	160A.1	6,3	23,5	16,5	95	20
92A.5	160A.1	8,8	23,5	16,5	95	20
92A.5,5	160A.1	9,3	25	18	95	25
92A.6	160A.1	9,9	26,5	17,5	100	30
92A.7	160A.1	11,1	28,5	19,5	100	30
92A.8	160A.1	12,7	31,5	20,5	109	48
92A.9	160A.1	13,9	33	22	109	46
92A.10	160A.1	15,5	36,5	23,5	118	68
92A.11	160A.1	16,7	36,5	23,5	118	70
92A.12	160A.1	18,9	43	27	127	100
92A.13	160A.1	19,5	43	27	127	110
92A.14	160A.1	21,2	49	31	136	155
92A.15	160A.1	22,3	49	31	136	160
92A.16	160A.1	23,4	55	35	145	190
92A.17	160A.1	24,5	55	35	145	200
92A.18	160A.1	25,8	61	39	154	225
92A.19	160A.1	27	61	39	154	230
92A.20	160A.1	29,1	66,5	41,5	163	320



92A	Suitable bar	B	C	D	L	ΔΔ
		mm	mm	mm	mm	g
92A.21	160A.1	30,3	67,5	41,5	163	325
92A.22	160A.1	31,4	68	42	172	350
92A.23	160A.1	32,5	72,5	46,5	172	390
92A.24	160A.2	33,7	74,5	45,5	180	415
92A.27	160A.2 or 160A.3	38,2	81	49	190	520
92A.30	160A.2 or 160A.3	41,8	86,5	53,5	205	640
92A.32	160A.2 or 160A.3	44,5	93	57	215	785

92A Metric angled box wrench sets

- Supplied as box or rack sets.

		mm	ΔΔ kg
92A.JE8	•	8-10-11-13-17-19-22-24	1,485
92A.P8M	•	8-10-11-13-17-19-22-24	1,875
92A.P16M	•	8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	4



► Tee socket series

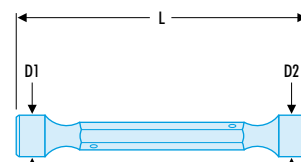
97 Metric double-ended forged socket wrenches

► ISO 2236, DIN 896, NF ISO 2236.

- Dual-size tool.
- Hollow body allows insertion over long threaded rods.
- For use with bars 160A.
- 6-point sockets, hexagon tubing.



	Suitable bar	D1 x D2 mm	Ø mm	L mm	ΔΔ g
97.6X7	160A.1	9,5 x 10,7	4	110	32
97.8X9	160A.1	12,5 x 14	4	120	48
97.10X11	160A.1	15 x 16	6	130	66
97.12X13	160A.1	17,5 x 19	6	140	106
97.14X15	160A.1	20 x 21,5	6,5	150	138
97.16X17	160A.1	22,7 x 24	8,2	160	188
97.18X19	160A.1	25,2 x 26,5	8,2	170	238
97.20X22	160A.1	27,7 x 30,2	10,2	180	262
97.21X23	160A.1	29 x 31,2	10,2	185	294
97.24X26	160A.2 or 160A.3	33 x 35,5	12,5	190	416
97.25X28	160A.2 or 160A.3	34,5 x 38	12,5	195	442
97.27X29	160A.2 or 160A.3	37 x 39,5	12,5	200	504
97.30X32	160A.2 or 160A.3	40,5 x 43	12,5	200	630



97 Metric double-ended forged socket wrench sets

- Supplied as box or module sets

		mm	ΔΔ kg
97.JE6	•	8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19	0,77
MOD.97	PL.359	8x9-10x11 - 12x13	1.019

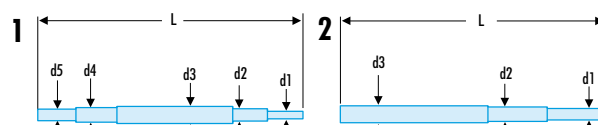


160A Bars for wrenches 91A, 92A and 97

- Hardened chrome steel.
- Shape 1 for 160A.1.
- Shape 2 for 160A.2 and 160A.3.
- Chrome finish.



	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	L mm	ΔΔ g
160A.1	3,8	5,25	9	7,4	6,25	220	80
160A.2	10,75	12,25	13	-	-	300	280
160A.3	12,25	14,25	18	-	-	350	380



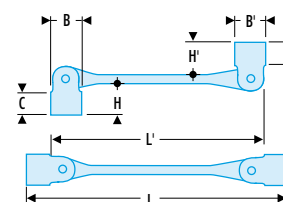
Hinged series

66A Metric and inch hinged socket wrenches

▷ Strength to ISO 1711-1, NF ISO 1711-1.

- Spring-steadied pivoting 12-point OGV®.
- socket.
- Satin chrome finish.

	B x B'	C x C'	H x H'	L'	L	ΔΔ
	mm	mm	mm	mm	mm	g
66A.6X7	10,3 x 11,5	15 x 15	23 x 23	156	188,5	95
66A.8X9	12,6 x 13,85	15 x 15	23 x 23	156	188,5	100
66A.10X11	15 x 16,5	18 x 18	26 x 26	156	194,5	105
66A.10X13	15 x 19	21 x 21	31 x 31	189,5	233,5	190
66A.12X13	17,5 x 19	21 x 21	31 x 31	189,5	233,5	195
66A.14X15	20,5 x 21,75	23 x 23	33 x 33	231	237,5	215
66A.16X17	23 x 24	23 x 23	35 x 35	231	280	325
66A.16X18	23 x 24,7	23 x 24	35 x 36	231	281	330
66A.18X19	24,7 x 26	24 x 28	36 x 40	231	286	345
66A.20X22	27,3 x 30,5	28 x 28	41,5 x 41,5	270	329	515
66A.21X23	28,6 x 31,5	28 x 30	41,5 x 43,5	270	331	535
66A.24X27	33 x 36,7	33 x 33	50,5 x 50,5	312	381	1020
66A.30X32	40,5 x 43	36 x 36	53,5 x 53,5	312	387	1100
66A.3/8X7/16	15 x 16,5	18 x 18	26 x 26	156	164,5	105
66A.1/2X9/16	19 x 20,5	21 x 23	31 x 33	189,5	235,5	215
66A.5/8X11/16	23 x 24,7	23 x 24	35 x 36	231	281	335
66A.5/8X3/4	23 x 26	23 x 28	35 x 40	231	285	340



66A Metric and inch wrench sets

• Supplied as box, roll or module sets.

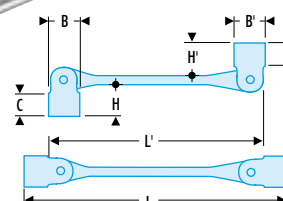
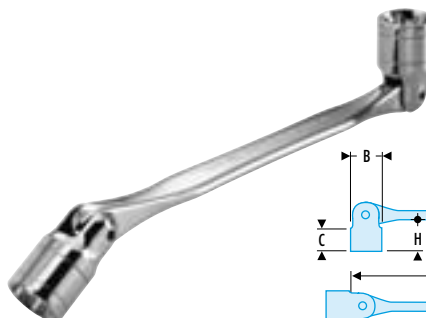
			Q, mm/°	ΔΔ
			mm/°	kg
66A.JE6		• 8x9-10x11-12x13-14x15-16x17-18x19		1,3
66A.JE9		• 6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23		2,45
66A.JU3		• 3/8x7/16-1/2x9/16-5/8x3/4		0,67
66A.JE9T	N.38A-9B	6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23		2,55
66A.JE6T	N.38A-6B	8x9-10x11-12x13-14x15-16x17-18x19		1,150
MOD.66A-1	PL.319A	6x7 - 8x9 - 10x11-12x13 - 14x15- 16x17		0,940
MOD.66A-2	PL.320	18x19- 20x22 - 21x23		1,600



66TX TORX® hinged socket wrenches

- Spring-steadied TORX® sockets.
- Satin chrome finish.

	B x B'	C x C'	H x H'	L	L'	ΔΔ
	mm	mm	mm	mm	mm	g
66TX.6X8	8 x 10	5 x 7	22 x 22	186	156	82
66TX.10X12	13 x 15	7,5 x 8	27 x 27	224,5	189,5	175
66TX.14X18	17 x 20,5	10 x 12	32 x 34	274	231	329
66TX.20X24	23,5 x 28	13 x 18	38 x 42	323	270	528



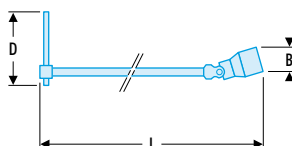
► Universal joint series

99C Tee socket-wrench with universal joint

► Strength to ISO 2236, DIN 896, NF ISO 2236.

- Spring-steadied socket.
- Satin chrome finish with polished chrome socket.

►	B mm	D mm	L mm	ΔΔ g
99C.6	10,3	165	399	225
99C.7	10,3	165	399	225
99C.8	12,6	165	399	225
99C.9	13,8	175	399	225
99C.10	15,0	175	431	325
99C.11	16,5	175	431	325
99C.12	17,5	175	434	335
99C.13	19,0	175	466	415
99C.14	20,5	175	466	430
99C.15	21,7	180	498	545
99C.16	23,0	180	499	560
99C.17	24,0	180	499	560
99C.18	24,7	180	501	570
99C.19	26,0	220	523	860



99C Metric wrench sets

- Supplied as box or panel sets.

►			Q, mm/°	ΔΔ kg
99C.JE12	•		7; 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19	4,55
99C.JE8	•		8; 9; 10; 11; 12; 13; 14; 17	2,84
99C.P12E	•		7; 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19	6,85
99C.P8E	•		8; 9; 10; 11; 12; 13; 14; 17	5,20
MOD.99B		PL.304	7; 8; 10; 11; 13; 17; 19	4,010



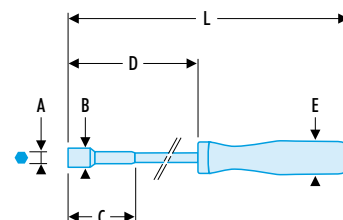
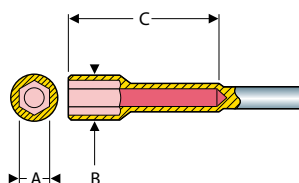
► Nut spinner series

74 Metric and inch forged 6-point nut spinners

► ISO 2236, DIN 3125, NF ISO 2236.

- High-strength forged carbon steel.
- Permanently moulded acetate handle, resists oil, grease and hydrocarbons.
- Ideal for light engineering.
- Polished chrome finish.

►	►	B mm	C mm	D mm	E mm	L mm	ΔΔ g
A mm	A°						
74.3,2		6,0	20	125	25	230	70
74.4		7,0	20	125	25	230	75
74.4,5	74.3/16	7,5	25	125	25	230	77
74.5	74.7/32	8,0	25	125	25	230	80
74.5,5		8,0	30	125	25	230	82
74.6	74.1/4	9,5	35	125	25	230	100
74.7	74.9/32	9,5	35	125	25	230	100
74.8	74.5/16	12,0	50	125	28	240	129
74.9	74.11/32	12,0	50	125	28	240	129
74.10	74.3/8	14,5	50	125	28	240	134
74.11	74.7/16	16,0	50	125	28	240	139
74.12		17,0	50	125	28	240	141
74.13		18,5	55	125	28	240	144
74.14		20,0	55	125	28	240	147



74 Metric wrench sets

- Supplied as wallet or rack sets.

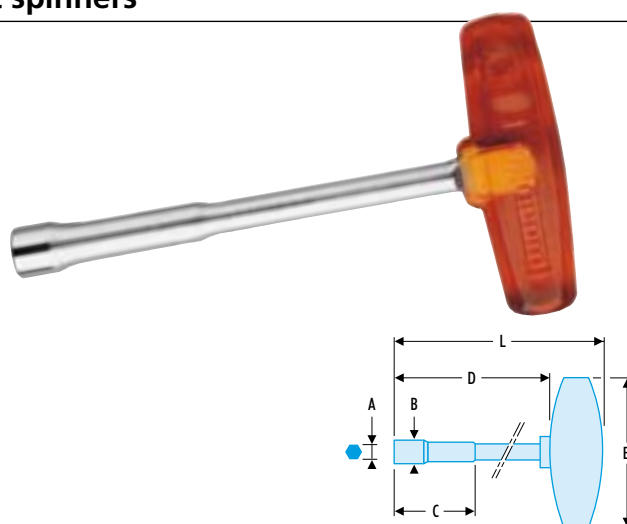
		mm	ΔΔ kg
74.JL9	N.38A-10D	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10	1
74.JL14	•	3,2 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	1,69
74.P14E	•	3,2 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	1,81



74T Metric forged Tee-handled 6-point nut spinners

- For higher torques.
- High-strength forged carbon steel.
- Permanently moulded acetate tee-handle resists oil, grease and hydrocarbons.
- Polished chrome finish.

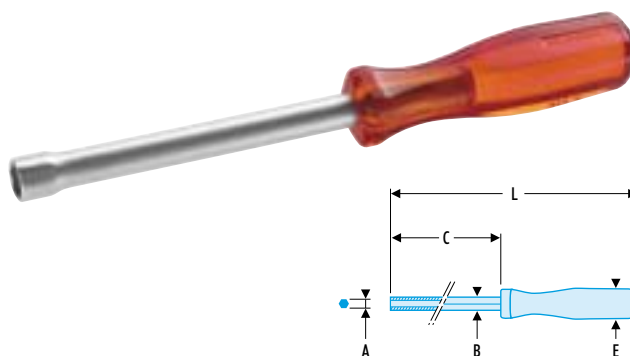
	A mm	E mm	B mm	C mm	D mm	L mm	ΔΔ g
74T.5	5	85	8	25	130	160	80
74T.5,5	5,5	85	9	30	130	160	85
74T.6	6	85	9	35	130	160	100
74T.7	7	85	11	35	130	160	115
74T.8	8	85	12	50	130	160	120
74T.9	9	85	13	50	130	160	120
74T.10	10	85	14	50	130	160	125
74T.11	11	85	16	50	130	160	130
74T.12	12	85	18	50	130	160	132
74T.13	13	85	19	55	130	160	135
74T.14	14	85	20	55	130	160	138



94A Metric box-shank nut spinners

- Ideal for long threaded rods.
- Chrome finish.

	A mm	B mm	C mm	E mm	L mm	ΔΔ g
94A.3,2	3,2	7	125	25	225	70
94A.4	4	7	125	25	225	75
94A.5	5	7	125	25	225	80
94A.5,5	5,5	7	125	25	225	100
94A.6	6	9	125	28	235	110
94A.7	7	9	125	28	235	125
94A.8	8	11	125	28	235	152
94A.9	9	11	125	28	235	160
94A.10	10	13	125	32	245	165
94A.11	11	13	125	32	245	245
94A.12	12	16	125	39	260	260
94A.13	13	16	125	39	260	275
94A.14	14	18	125	39	260	280



94A Metric box-shank nut spinner sets

- Supplied as wallet sets.

		mm	ΔΔ kg
94A.JL9	N.38A-10D	3,2-4-5-5,5-6-7-8-9-10	1,2
94A.JE13T	N.38A-14A	3,2-4-5-5,5-6-7-8-9-10-11-12-13-14	2,295

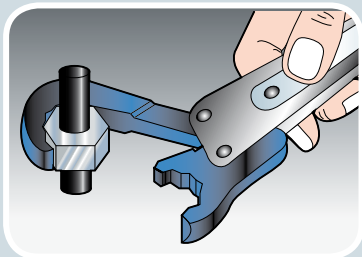


► 70 Ratchet flare-nut wrenches

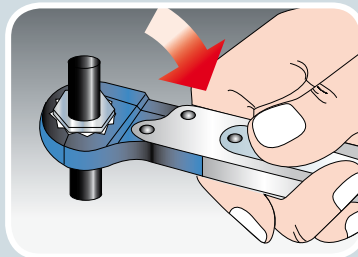


70 series - Ratchet flare-nut wrenches

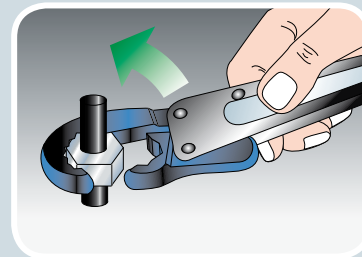
RATCHET EFFECT AND ACCESSIBILITY



- Positioning is straightforward, even with little clearance around the pipe.



- Torque is applied over all six flats for optimum drive.



- Ratchet action without wrench removal completes work five times faster than with a conventional tool.

70A Metric ratchet flare-nut wrenches

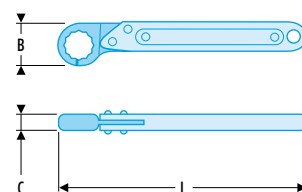
- Metric sizes from 7 to 32 mm.
- 6-point heads up to 11 mm.
- Finish :
 - chrome with burnished head up to 24 mm.
 - burnished from 27 to 32 mm.
- Fast tools for pipe unions in a variety of applications such as automotive, construction, air conditioning, refrigeration, aircraft and plumbing.
- 70A.27, 70A.30, 70A.32 : Heavy-duty model, burnished finish, PVC

Ref	B mm	C mm	L mm	ΔΔ g
70A.7	25,4	7,1	137,5	75
70A.8	25,4	7,1	137,5	75
70A.9	25,4	7,1	137,5	73
70A.10	25,4	7,1	137,5	73
70A.11	25,4	7,1	137,5	73
70A.12	25,4	7,1	137,5	70
70A.13	25,4	7,1	137,5	70
70A.14	33,5	9,6	184	140
70A.16	33,5	9,6	184	140
70A.17	33,5	9,6	184	135
70A.18	33,5	9,6	184	135
70A.19	33,5	9,6	184	130
70A.22	42,4	11,2	237,5	260
70A.24	42,4	12,9	237,5	260
70A.27	55,8	14,2	346	505
70A.30	55,8	14,2	346	480
70A.32	55,8	14,2	346	470



70A.13

70A.27



70A Metric ratchet flare-nut wrench sets

- Supplied as box or roll sets.

Ref	Box	Roll	mm	ΔΔ g
70A.JN6		•	8 - 10 - 11 - 13 - 17 - 19	560
70A.JE7T	N.38A-7B		7 - 8 - 9 - 10 - 11 - 12 - 13	550
70A.JE5T	N.38A-5A		14 - 16 - 17 - 18 - 19	720



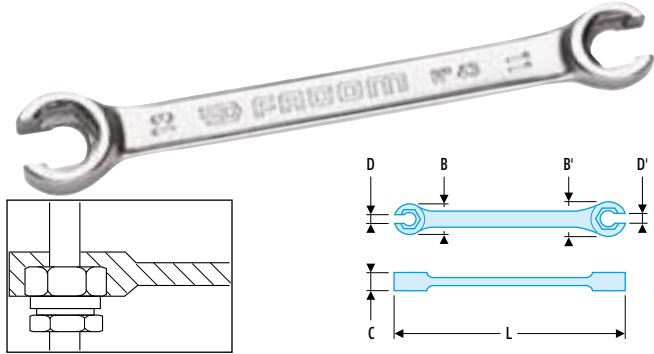
Flare-nut wrenches

Standard series

43 Flanged flare-nut wrenches

- Metric sizes from 7 to 19 mm.
- Flange strengthened 6-point split ring for use on stubborn fittings such as seized pipe unions.
- Short shank for easier handling.
- Chrome finish.

	B x B' mm	C mm	D x D' mm	L mm	ΔΔ g
43.7X9	15,6 x 18,3	10	5,0 x 6,6	124	38
43.8X10	16,6 x 19,1	10	5,9 x 7,4	124	40
43.10X11	19,1 x 20	10	7,4 x 8,1	124	43
43.11X13	20 x 22,9	11,5	8,1 x 9,5	143	63
43.12X14	22,3 x 24,6	11,5	8,9 x 10,3	143	66
43.17X19	28,3 x 31,4	13	12,6 x 14,1	162	100



43 Flanged flare-nut wrench sets

- Supplied in a wallet or module

			mm	kg
43.JE5T	N.38A-5B		7x9-8x10-11x13-12x14-17x19	0,330
MOD.43		PL.365	7x9-8x10-11x13-12x14-17x19	0,960

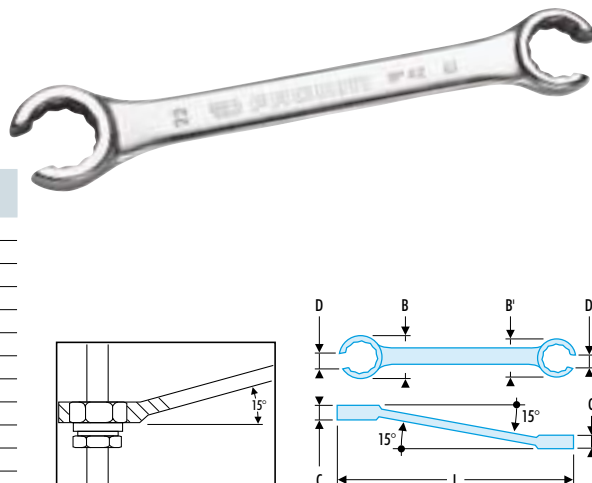


42 Metric and inch flare-nut wrenches angled at 15°

▷ DIN 3118.

- Metric sizes from 8 to 41 mm.
- Inch sizes from 5/16" x 3/8" to 1" x 1 1/8".
- 6-point heads up to 12 x 14 mm.
- Chrome finish.

A mm	A"	B x B' mm	C mm	D x D' mm	L mm	ΔΔ g
42.8X10	42.5/16x3/8	18 x 20	7 x 8,5	6 x 7	140	55
42.10X11		20 x 22	8,5 x 9	7 x 8,5	150	65
42.10X12		20 x 22	8,5 x 9	7 x 9	150	65
42.11X13	42.7/16x1/2	22 x 26	9 x 10,5	8,5 x 10	165	110
42.12X14		24 x 28	9,5 x 11	9 x 11	170	120
42.14X17	42.9/16x5/8	28 x 30	11 x 12	11 x 14	200	135
42.17X19	42.11/16x3/4	30 x 32	12 x 14	14 x 15	210	175
42.19X22	42.3/4x7/8	32 x 38	14 x 16	15 x 17	220	210
42.22X24		38 x 42	16 x 17	17 x 18	235	270
42.24X27	42.1"x1 1/8	42 x 46	17 x 18	18 x 20	255	290
42.30X32		50 x 52	21 x 23	22 x 24	275	480
42.36X41		60 x 67	25 x 27	25 x 32	310	1100



Set of 5 flare-nut wrench angled at 15°

42.JE5T

- Supplied as roll sets.

		mm	g
42.JE5T	N.38A-5A	8x10-11x13-12x14-17x19-22x24	770



► Adjustable series

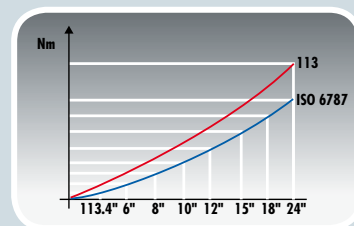


Series 113A adjustable wrenches

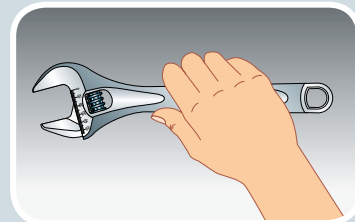
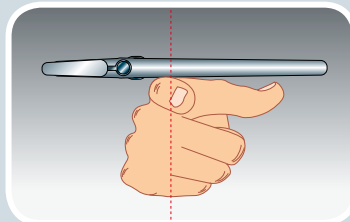
HIGH-PERFORMANCE AND MANOEUVRABILITY

**Powerful**

- Performance exceeds standard specifications.
- ISO 6787, DIN 3117 NF E 74-324.
- ASME B 107.8m-1996 (US. nat.std).

**Ergonomic**

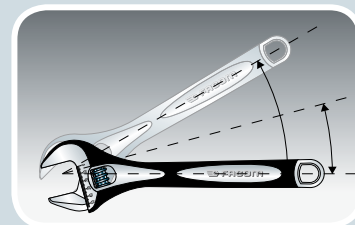
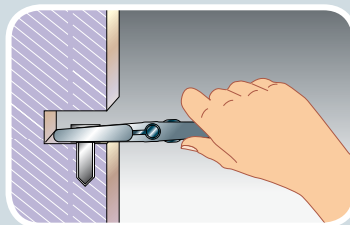
- Optimised contact surfaces for maximum user comfort.
- Contoured handle for improved handling.
- Ergonomic worm screw :
 - Optimised finger contact area.
 - Improved worm screw access.

**Versatile**

- Millimetre graduations :
 - Reading measurements,
 - Wrench presetting.
- Non-protruding moving jaw at maximum capacity.

**For greater accessibility**

- Head angled at 15° for easier repositioning.
- Tapered jaw tips for optimum access.

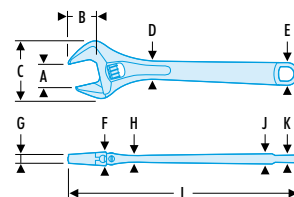


Variable opening wrenches

Series 113A.C Chromed adjustable wrenches

▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.

- Chromed body and polished jaw faces.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Clockwise rotating worm screw.
- Sizes from 4" to 24".
- Registered design.

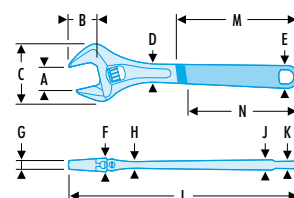


	A	B	C	D	E	F	G	H	J	K	L	ΔΔ
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g
113A.4C	13	13	34	11	14	9,5	4,5	5	6,5	5	114	65
113A.6C	20	19	45,0	14,8	18,5	11,8	5	6	8,3	5,8	155	125
113A.8C	27	24	61,5	18,5	24	13,5	6,5	9	11	8,5	206	275
113A.10C	30	29	69,5	21,5	28,5	15,5	9	9,5	12,7	10	255	480
113A.12C	34	34	80	25	31	18	10	10,2	13	10	306	700
113A.15C	44	44	97	28	35	20	13,5	12	14,8	11,5	380	1146
113A.18C	53	53	115	31	38,5	22,5	16	14,3	17,8	13,5	456	1792
113C.24C	62	61	132	42	38	31	17	17	15	15	612	3495

Series 113A.CG Sheathed and chromed adjustable wrenches

▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.

- Sheathed and chromed body, polished jaws.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Sizes from 4" to 12".
- Registered design.

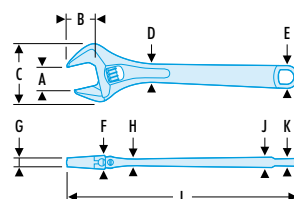


	A	B	C	D	E	F	G	H	J	K	L	M	N	ΔΔ
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g
113A.4CG	13	13	34,0	11,0	18,5	9,5	4,5	5,0	9,5	6,0	116	65,5	65,0	75
113A.6CG	20	19	45,0	14,8	24,0	11,8	5,0	6,0	12,0	8,0	159	90,5	80,0	140
113A.8CG	27	24	61,5	18,5	31,0	13,5	6,5	9,0	14,5	10,0	209	123,0	109,0	310
113A.10CG	30	29	69,5	21,5	36,5	15,5	9,0	9,5	17,5	12,5	259	157,5	140,0	510
113A.12CG	34	34	80,0	25,0	39,5	18,0	10,1	10,2	19,5	14	310	189,5	169,5	740

113A.T Phosphated adjustable wrenches

▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.

- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Phosphated body, fine-ground jaw faces.
- Sizes from 4" to 24".
- Registered design.



	A	B	C	D	E	F	G	H	J	K	L	ΔΔ
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g
113A.4T	13	13	34	11	14	9,5	4,5	5	6,5	5	114	65
113A.6T	20	19	45	14,8	18,5	11,8	5	6	8,3	5,8	155	125
113A.8T	27	24	61,5	18,5	24	13,5	6,5	9	11	8,5	206	275
113A.10T	30	29	69,5	21,5	28,5	15,5	9	9,5	12,7	10	255	480
113A.12T	34	34	80	25	31	18	10	10,2	13	10	306	700
113A.15T	44	44	97	28	35	20	13,5	12	14,8	11,5	380	1146
113A.18T	53	53	115	31	38,5	22,5	16	14,3	17,8	13,5	456	1792
113.24T	62	61	132	42	38	31	17	17	15	15	612	3265

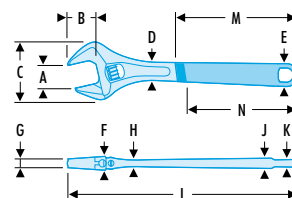
113A.TG Sheathed and phosphated adjustable wrenches

► Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.

- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Sheathed, phosphated body, fine-ground jaw faces.
- Sizes from 4" to 12".
- Registered design.



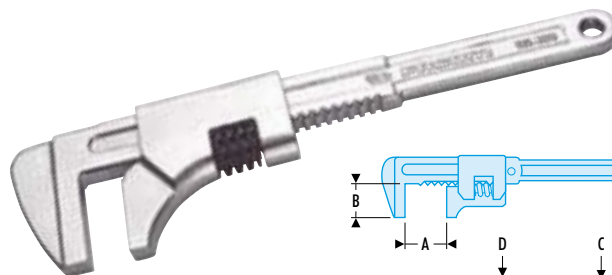
	A	B	C	D	E	F	G	H	J	K	L	M	N	ΔΔ
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	g
113A.4TG	13	13	34,0	11,0	18,5	9,5	4,5	5,0	9,5	6,0	116	65,5	65,0	75
113A.6TG	20	19	45,0	14,8	24,0	11,8	5,0	6,0	12,0	8,0	159	90,5	80,0	140
113A.8TG	27	24	61,5	18,5	31,0	13,5	6,5	9,0	14,5	10,0	209	123,0	109,0	310
113A.10TG	30	29	69,5	21,5	36,5	15,5	9,0	9,5	17,5	12,5	259	157,5	140,0	510
113A.12TG	34	34	80,0	25,0	39,5	18,0	10,1	10,2	19,5	14,5	310	189,5	169,5	740



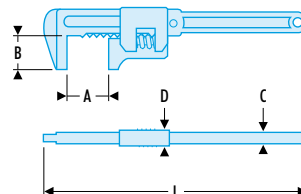
► Monkey wrench series

105 Monkey wrenches

- 3 models, jaw capacities 60 - 70 - 80 mm.
- Sturdy, wide-opening tools for heavy-duty work on farms and building sites.
- Body and worm in hardened steel.
- Ground and chrome finish.



	A max	B	C	D	L	ΔΔ
	mm	mm	mm	mm	mm	kg
105.230	60	34	10	17	230	0,480
105.280	70	45	11	20	280	0,810
105.375	80	45	13	22	375	1,440



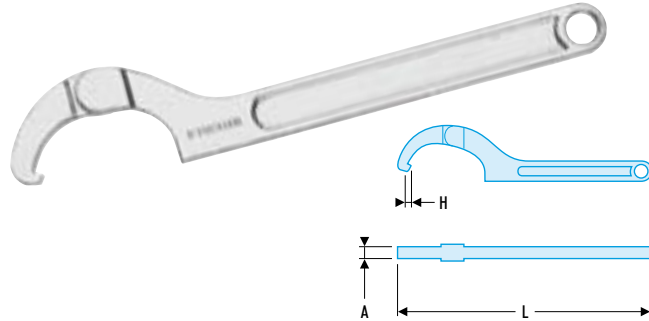
Hook and pin wrenches

► Series for side-slot nuts

125A Hinged hook wrenches

- Capacity 15 to 180 mm.
- Joint fitted with a spring-washer for smooth, reliable operation.
- Five wrench sizes equate to three times as many conventional C-wrenches.
- Chrome finish.

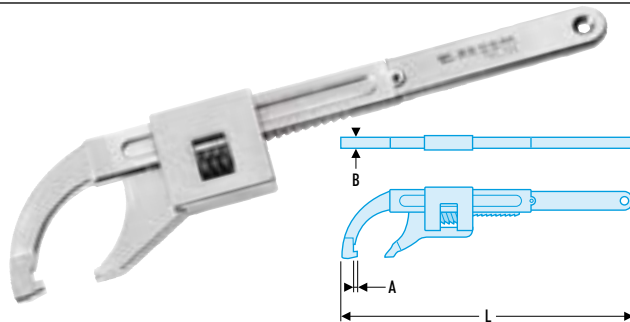
	mm	A mm	H mm	L mm	ΔΔ kg
125A.35	15 - 35	5	3,0	168	0,08
125A.50	35 - 50	6	4,0	202	0,17
125A.80	50 - 80	8	5,0	280	0,38
125A.120	80 - 120	9	5,5	345	0,7
125A.180	120 - 180	11	7,5	492	1,48



115A Adjustable hook wrench

- Capacity 10 to 200 mm.
- Chrome finish.

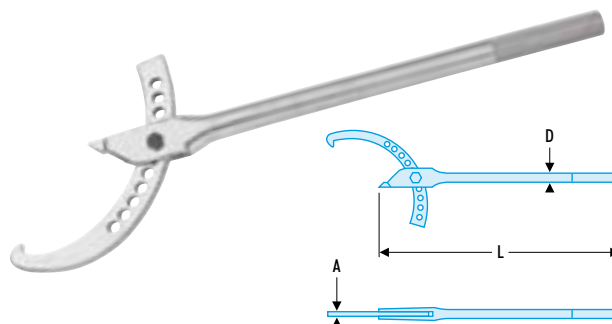
	mm	A mm	B mm	L mm	ΔΔ kg
115A.50	10 - 50	4	7,5	215	0,34
115A.100	20 - 100	5	8,0	360	0,8
115A.200	30 - 200	7	10,0	550	1,86



119 Heavy-duty hook wrenches

- Capacity 120 to 324 mm.
- With its 11-hole adjustment, this wrench alone replaces a variety of conventional tools in heavy-duty applications.
- Chrome finish.
- Forged hook, hardened to 44 HRC.

	mm	A mm	D mm	L mm	ΔΔ kg
119.3/8	120 - 224	9,5	26	610	3,16
119.3/4	220 - 324	19	33	650	5,9

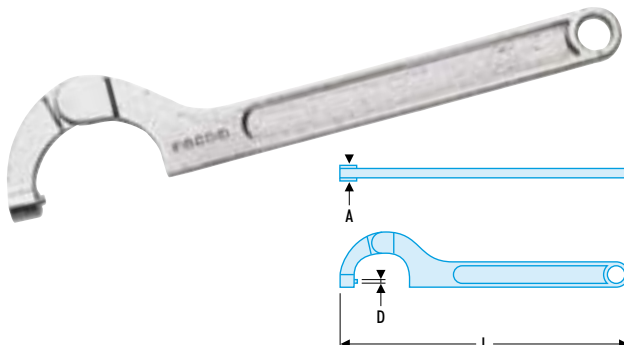


► Series for side-hole nuts

126A Hinged pin wrenches

- For nuts with side holes.
- Interchangeable pins.
- Capacity 15 to 180 mm.
- Same design advantages as wrench "125A" but with interchangeable pins for nuts with holes around the side.
- Five sizes cover the full range of conventional fixed wrenches.
- Pins hardened to 40 HRC.

	mm	D mm	A mm	L mm	ΔΔ kg
126A.35	15 - 35	3	10	168	0,08
126A.50	35 - 50	4	12	202	0,17
126A.80	50 - 80	5	14	280	0,36
126A.120	80 - 120	6	18	345	0,7
126A.180	120 - 180	8	20	492	1,44



126.E Sets of 2 spare pins

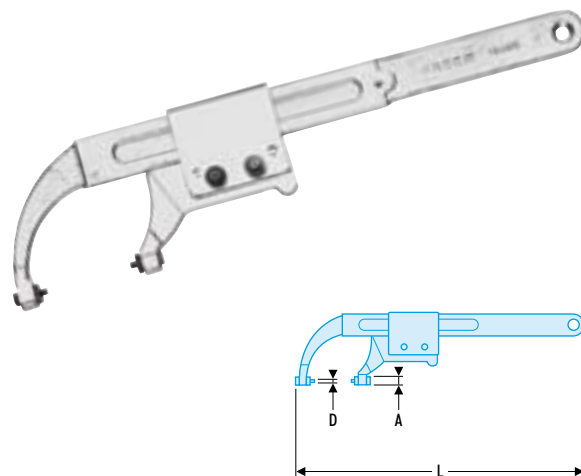
	Ø mm	ΔΔ g
126.E35	3	2
126.E50	4	5
126.E80	5	9
126.E120	6	19
126.E180	8	34



116 Sliding-jaw pin wrenches

- For nuts with side holes.
- Interchangeable pins.
- Capacity 0 to 200 mm.
- Moving jaw simply slides along the shank and is self-locking on to the nut.
- Supplied with two sets of easy-to-change pins.
- Chrome-finish body, phosphated pins.

	mm	D mm	A mm	L mm	ΔΔ kg
116.50	0 - 50	2,5 - 4	8	210	0,38
116.100	0 - 100	4 - 6	12	360	0,82
116.200	35 - 200	6 - 8	16	550	1,96



116E Sets of 2 spare pins

	For key	Ø mm	ΔΔ g
116.50E1	116.50	2,5	6
116.50E2	116.50	4	6
116.100E1	116.100	4	15
116.100E2	116.100	6	16
116.200E1	116.200	6	36
116.200E2	116.200	8	36



► Series for top-hole nuts

Wrenches for nuts with top holes

117.B

- Interchangeable pins.
- Forged in chrome vanadium steel, with divider-type adjustment controlled from central knurl. Each wrench supplied with a set of 8 pins.
- Set of 2 spare pins.
- Double-ended round pins for nuts with top holes.
- Chrome finish.

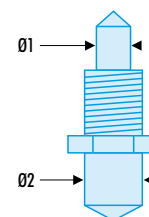
	Length mm	Capacity mm	ΔΔ g
117.B	245	20 - 100	530



117.E Sets of 2 spare pins

- Double-ended round pins for nuts with top holes.

	Ø1 - Ø2 mm	ΔΔ g
117.E1	2,5 - 4	16
117.E2	6 - 8	24
117.E3	3 - 5	17
117.E4	7 - 9	27



Wrench for nuts with top slots

118A

- Interchangeable pins.
 - Capacity 20 to 100 mm.
 - Forged in chrome vanadium steel, with divider-type adjustment controlled from central knurl.
 - Each wrench supplied with a set of 8 pins.
 - Length 245 mm.
 - Chrome finish.
- ΔΔ : 530 g.



118.EC Sets of 2 spare pins

- Square pins for nuts with top slots.

	A mm	ΔΔ g
118.EC4	4	11
118.EC5	5	12
118.EC6	6	14
118.EC8	8	17

