

# SLEEVE SETS

## A USEFUL INNOVATION!

### PRACTICAL: SAVE TIME

- Immediately find the right wrench.
- No more loose wrenches in your tool box.
- Easy wrench selection.

### SAFE

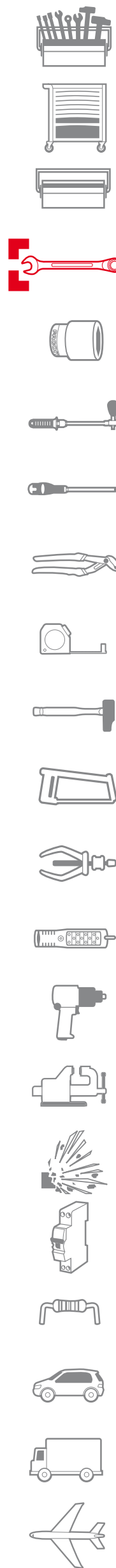
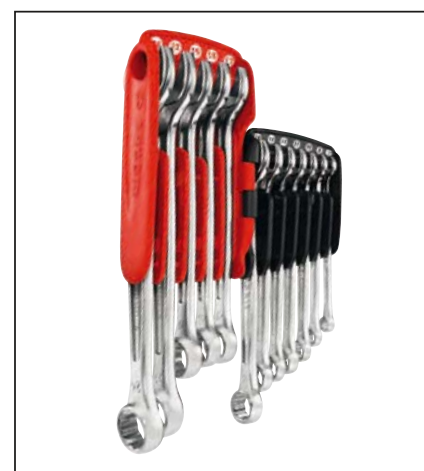
- No more tools left on site at the end of the job.
- Missing wrenches clearly identified.
- Compatible with the FOD concept (Foreign Object Damage).

### OPTIMISED STORAGE

- Compact and organised wrench set in the sleeve hence saving space.
- Easy to store in any Facom roller cabinet drawer and tool box compartment.

### AVAILABLE FOR ALL WRENCH FAMILIES

- Standard and short combination wrenches.
- Standard and short reversible ratchet wrenches.
- Hinged ratchet wrenches.
- Ratchet ring wrenches.



**440** | **COMBINATION WRENCH**  
"NEW GENERATION"

**THE COMBINATION WRENCH  
REINVENTED FOR YOU**

**More control**

During pre-tightening:

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



**More comfort**

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

**Painless torque application**



**Better ring head accessibility**

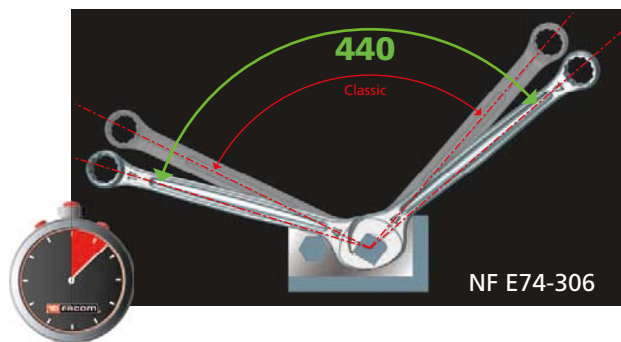
- Ring head provides better clearance for reaching recessed or closely spaced nuts.



**More efficient open-end**

The open-end / handle geometry:

- Saves 20% time.
- Save 15% space in highly confined zones.



**More power, delivered safely**

The combination wrench 440 was designed to combine compactness with strength:

- Dimensions meet the requirements of tooling standards NF ISO 1711-1 and aerospace standard SAE AS 954G.
- Tightening torques guaranteed significantly above specifications of high strength tooling and bolting standards ISO 898-1 (quality class 12.9).
- Combination wrench 440 was also designed to ensure maximum user safety. When critical tightening torques are reached, the wrench is distorted gradually. No brutal breaking likely to injure the user.

ISO 898-1\* Bolting standards

ISO 1711-1 Standard tooling standard

SAE AS 954G Aerospace tooling standard



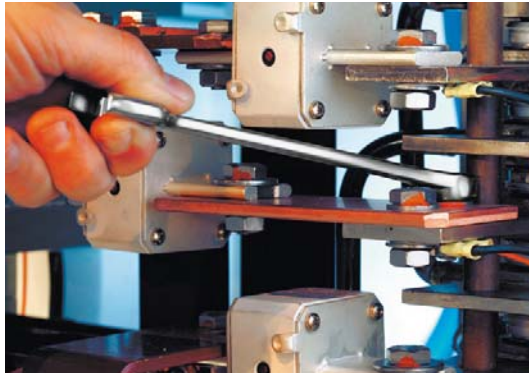
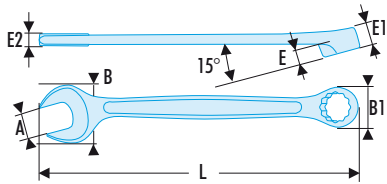
FACOM combination wrench



Maximum performance



## 440 - Metric combination wrenches



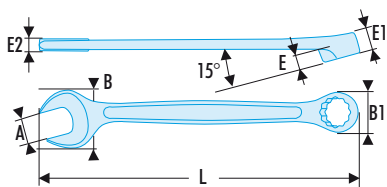
NF ISO 691, NF ISO 7738, NF ISO 3318, NF ISO 1711-1, E74-306, ISO 691, ISO 7738, ISO 3318, ISO 1711-1, DIN ISO 691, DIN 1711-1, DIN 3113, ASME B107.100

- Standard wrench for all current applications.
- High mechanical strength combined with compact size meeting aeronautical standards.
- Ring head:
  - Ring open end (size E) designed for better access to series or embedded screws.
  - OGV® profile with 12-point ring for powerful tightening while protecting the nut. H suffix = 6-point ring.
  - Ring head angled at 15°.
- Open end head:
  - Open end angled at 15°.
  - Open end head-handle geometry optimised for increased access.
- Metric sizes: 4 to 41 mm.
- Presentation: satin chrome finish.

➤	A [mm]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
<b>440.4H</b>	4	10,0	7,8	2,1	3,5	3,0	106	10
<b>440.5H</b>	5	13,3	9,2	3,1	6,0	3,6	115	16
<b>440.5,5H</b>	5,5	13,3	9,2	3,1	6,0	3,8	115	15
<b>440.6</b>	6	14,1	10,0	3,1	6,0	3,8	115	20
<b>440.7</b>	7	17,2	11,2	3,4	6,2	3,9	122	20
<b>440.8</b>	8	19,2	12,8	3,5	6,7	4,7	133	30
<b>440.9</b>	9	21,2	14,2	3,9	7,1	4,7	138	35
<b>440.10</b>	10	23,0	15,0	4,2	7,6	5,2	145	40
<b>440.11</b>	11	24,5	16,9	4,6	8,1	5,5	155	50
<b>440.12</b>	12	27,0	18,0	4,4	8,4	5,8	162	60
<b>440.13</b>	13	28,7	19,3	4,8	8,6	6,1	170	70
<b>440.14</b>	14	31,0	21,1	5,7	9,5	6,4	180	85
<b>440.15</b>	15	32,6	22,2	5,9	10,0	6,8	185	95
<b>440.16</b>	16	35,6	23,9	6,4	10,5	7,3	195	115
<b>440.17</b>	17	37,0	25,3	6,5	10,9	7,6	202	130
<b>440.18</b>	18	38,7	26,0	7,2	11,4	8,1	208	150
<b>440.19</b>	19	41,2	27,8	7,2	11,9	8,3	216	170
<b>440.20</b>	20	43,1	29,5	6,3	12,3	8,6	224	185

➤	A [mm]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
<b>440.21</b>	21	45,4	30,9	7,8	12,8	8,8	233	205
<b>440.22</b>	22	46,9	32,3	8,3	13,3	9,0	248	230
<b>440.23</b>	23	49,0	33,6	8,7	13,8	9,3	257	255
<b>440.24</b>	24	51,0	35,0	8,9	14,2	9,7	267	290
<b>440.25</b>	25	53,0	36,4	9,4	14,7	9,9	274	315
<b>440.26</b>	26	55,5	37,8	9,8	15,1	10,1	285	345
<b>440.27</b>	27	58,0	39,2	8,9	15,6	10,4	295	375
<b>440.28</b>	28	60,7	40,6	10,6	16,1	10,7	305	415
<b>440.29</b>	29	63,0	42,0	10,8	16,6	11,2	320	475
<b>440.30</b>	30	65,0	43,5	11,2	17,1	11,5	340	530
<b>440.32</b>	32	68,0	46,1	11,5	18,0	12,5	355	640
<b>440.33</b>	33	69,8	47,0	11,8	18,5	12,8	380	715
<b>440.34</b>	34	72,0	48,9	12,8	19,0	13,0	390	745
<b>440.35</b>	35	74,3	51,0	12,8	19,5	13,5	430	890
<b>440.36</b>	36	76,0	53,0	13,2	20,0	14,0	440	945
<b>440.38</b>	38	80,0	56,0	14,1	22,0	15,2	450	1130
<b>440.41</b>	41	85,0	58,3	14,7	23,0	16,0	460	1290

## 440 - Inch combination wrenches

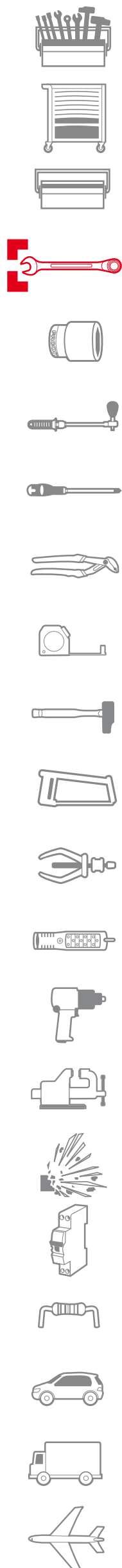


ASME B107.100, SAE AS954G

- Standard wrench for all current applications.
- High mechanical strength combined with compact size meeting aeronautical standards.
- Ring head:
  - Ring open end (size E) designed for better access to series or embedded screws.
  - OGV® profile with 12-point ring for powerful tightening while protecting the nut. H suffix = 6-point ring.
  - Ring head angled at 15°.
- Open end head:
  - Open end angled at 15°.
  - Open end head-handle geometry optimised for increased access.
- Dimensions in inches: from 1/4" to 1 1/2".
- Presentation: satin chrome finish.

➤	A ["]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
<b>440.1/4</b>	1/4	14,1	10,0	3,1	6,0	3,8	115	20
<b>440.5/16</b>	5/16	19,2	12,8	3,5	6,7	4,7	133	30
<b>440.11/32</b>	11/32	21,2	14,2	3,9	7,1	4,7	138	35
<b>440.3/8</b>	3/8	23,0	15,0	4,2	7,6	5,2	145	45
<b>440.7/16</b>	7/16	24,5	16,9	4,6	8,1	5,5	155	50
<b>440.1/2</b>	1/2	28,7	19,3	4,8	8,6	6,1	170	70
<b>440.9/16</b>	9/16	31,0	21,1	5,7	9,5	6,4	180	85
<b>440.5/8</b>	5/8	35,6	23,9	6,4	10,5	7,3	195	115
<b>440.11/16</b>	11/16	37,0	25,3	6,5	10,9	7,6	202	130
<b>440.3/4</b>	3/4	41,2	27,8	7,2	11,9	8,3	216	170
<b>440.13/16</b>	13/16	43,1	29,5	6,3	12,3	8,6	224	185

➤	A ["]	B [mm]	B1 [mm]	E [mm]	E1 [mm]	E2 [mm]	L [mm]	ΔΔ [g]
<b>440.7/8</b>	7/8	46,9	32,3	8,3	13,3	9,0	248	230
<b>440.15/16</b>	15/16	51,0	35,0	8,9	14,2	9,7	267	290
<b>440.1'</b>	1	53,0	36,4	9,4	14,7	9,9	274	315
<b>440.1'1/16</b>	1'1/16	58,0	39,2	8,9	15,6	10,4	295	375
<b>440.1'1/8</b>	1'1/8	60,7	40,6	10,6	16,1	10,7	305	415
<b>440.1'1/4</b>	1'1/4	68,0	46,1	11,5	18,0	12,5	355	640
<b>440.1'5/16</b>	1'5/16	69,8	47,0	11,8	18,5	12,8	380	715
<b>440.1'3/8</b>	1'3/8	74,3	51,0	12,8	19,5	13,5	430	890
<b>440.1'7/16</b>	1'7/16	76,0	53,0	13,2	20,0	14,0	440	945
<b>440.1'1/2</b>	1'1/2	80,0	56,0	14,1	22,0	15,2	450	1130



# Combination wrenches

## 440 - Metric offset combination wrench sets in portable case

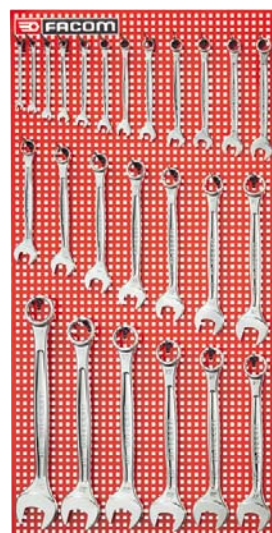


NF ISO 691, NF ISO 7738, NF ISO 3318, NF ISO 1711-1, E74-306, ISO 691, ISO 7738, ISO 3318, ISO 1711-1, DIN ISO 691, DIN 1711-1, DIN 3113, ASME B107.100

- Productivity and safety = easy to organise, easy to spot, always with you.
- Resistant to chemicals and impacts.

➤	A [mm]	Contents	ΔΔ [kg]
<b>440.JP9</b>	8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19	Etui : CK.440J1	0,940
<b>440.JP12</b>	7 - 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19 - 22 - 24	Etui : CK.440J2	1,550
<b>440.JP14</b>	7 - 8 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24	Etui : CK.440J3	1,680

## 440 - Metric combination wrench sets



NF ISO 691, NF ISO 7738, NF ISO 3318, NF ISO 1711-1, E74-306, ISO 691, ISO 7738, ISO 3318, ISO 1711-1, DIN ISO 691, DIN 1711-1, DIN 3113, ASME B107.100

- Presentation: supplied as box, roll or panel sets.

➤	A [mm]	Contents	ΔΔ [kg]
<b>440.JN8</b>	8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	Box	1,010
<b>440.JN8T</b>	8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	Roll: N.38A-8C	1,135
<b>440.JE9</b>	8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19	Box	0,660
<b>440.JE11</b>	7 - 8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19	Box	0,900
<b>440.JE16</b>	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	Box	1,990
<b>440.JE16T</b>	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	Roll: N.38A-17A	2,165
<b>440.JE18</b>	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	Box	1,990
<b>440.JE25</b>	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	Box	5,950
<b>440.JE29</b>	7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32 - 33 - 34 - 35 - 36 - 38 - 41	Box	11,150
<b>440.P25M</b>	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	Panel: PK.1	8,345

## 440 - Inch combination wrench sets



ASME B107.100, SAE AS954G

- Presentation: supplied as box or roll sets.

➤	A ["]	Contents	ΔΔ [kg]
<b>440.JU9</b>	1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4	Box	0,700
<b>440.JU12</b>	1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16	Box	1,540
<b>440.JU21</b>	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" - 1"1/16 - 1"1/8 - 1"1/4 - 1"5/16 - 1"3/8 - 1"7/16 - 1"1/2	Box	7,250
<b>440.JU6T</b>	3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	Roll: N.38A-6B	0,605
<b>440.JU17T</b>	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" - 1 1/16" - 1 1/8" - 1 1/4"	Roll: N.38A-17A	3,350

