

2. CONVENTIONAL TOOLS OFFSET WRENCHES



CAUTION





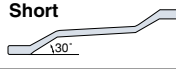
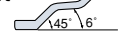
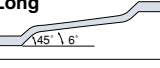
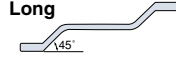
Offset wrench sets

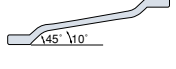

- Carefully read the individual safety warnings for the items included within the set.
- When carrying the set, make sure the metal fasteners are locked on.

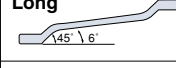
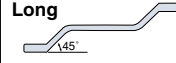
Offset wrenches


- Use wrenches that conform to the size of the bolts and nuts.
- Do not use by adding on pipe, etc.
- Insert the bolts and nuts fully.
- Do not use this tool as a hammer.
- Do not expose this tool to impact by hitting it with a hammer, etc.

List of offset wrench sizes

| Diameter mm Product number Type Tilt angle | 5.5 | 6 | 6 | 7 | 8 | 8 | 10 | 10 | 10 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 16 | 17 | 17 | 19 | 19 | 20 | 21 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 27 | 29 | 30 | 32 | 35 | 36 | 41 | | | | | | | | |
|--|-----|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|
| | 7 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 13 | 14 | 15 | 17 | 17 | 18 | 18 | 19 | 21 | 21 | 22 | 22 | 23 | 26 | 24 | 26 | 27 | 28 | 32 | 30 | 32 | 32 | 32 | 36 | 38 | 38 | 46 | | | | | | | | |
| M100 Straight-short  | | | | ● | | | | ● | | | | | ● | | | ● | | ● | | | | | | | | ● | | | | | | | | | | | | | | | | | | | |
| M150 Straight-long  | | | | | | | ● | | ● | | | | | | ● | | | ● | | | | | | | | | | | | | ● | | | | | | | | | | | | | | |
| M160 Super long-straight  | | | | | | | | ● | | ● | | | | | ● | ● | | | ● | | | | | | | | | | | | ● | | | | | | | | | | | | | | |
| M151 15° Long  | | | | | | | | | | | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M15 30° Short  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ● | ● | ● | ● | ● | | ● | ● | ● |
| M5S 45° x 6° Short  | ● | | | ● | ● | ● | | | ● | | | | ● | ● | ● | | ● | ● | ● | | ● | | | | | | | | | | | | | | | | | | | | | | | | |
| M5 45° x 6° Long  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| M25 45° Long  | ● | ● | | | ● | ● | | ● | ● | ● | ● | ● | ● | | ● | ● | | | ● | ● | ● | ● | | | | | ● | ● | ● | | | | | | | | | | | | | | | | |

| Diameter mm Product number Type Tilt angle | 8 | 10 | 12 | 14 |
|---|---|----|----|----|
| M27(hex diameter) 45° x 10° Long  | ● | ● | ● | ● |
|  | | | | |

| Diameter Product number Type Tilt angle | 1/4 x 5/16 | 5/16 x 3/8 | 3/8 x 7/16 | 13/32 x 1/2 | 7/16 x 1/2 | 1/2 x 9/16 | 9/16 x 5/8 | 19/32 x 11/16 | 5/8 x 11/16 | 5/8 x 3/4 | 11/16 x 3/4 | 3/4 x 25/32 | 3/4 x 13/16 | 25/32 x 7/8 | 13/16 x 7/8 | 15/16 x 1 | 1 x 1-1/16 | 1-1/8 x 1-1/4 |
|---|------------|------------|------------|-------------|------------|------------|------------|---------------|-------------|-----------|-------------|-------------|-------------|-------------|-------------|-----------|------------|---------------|
| M5 45° x 6° Long  | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| MB25 45° Long  | | | | | ● | | | | ● | | | ● | | | ● | ● | | |

*Please check the merchandise inventory for a product that is marked by  before placing an order.

● OFFSET WRENCH SET (6pcs.) (8pcs.) (10pcs.)



TM506



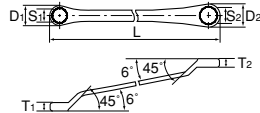
TM508



TM510

| OFFSET WRENCH SET (6pcs.) · (8pcs.) · (10pcs.) | | | mm |
|--|---|-----|----|
| No. TM506 | ▼kg 1.3 | 📦 1 | |
| Offset wrench | M5-0810, 1012, 1113, 1417, 1921, 2224 | | |
| • Resin form tray (L444xW184xH48mm) attached. | | | |
| No. TM508 | ▼kg 1.6 | 📦 1 | |
| Offset Wrench | M5-0810, 1012, 1113, 1214, 1417, 1719, 1921, 2224 | | |
| • Resin form tray (L444xW184xH48mm) attached. | | | |
| No. TM510 | ▼kg 2.3 | 📦 1 | |
| Offset Wrench | M5-05507, 0810, 1012, 1113, 1214, 1417, 1719, 1921, 2224, 2427 | | |
| • Resin form tray (L444xW184xH48mm) attached. | | | |
| OFFSET WRENCH SET (6pcs.) | | | in |
| No. TM506B | ▼kg 1.7 | 📦 1 | |
| Offset Wrench in | M5- $\frac{3}{8} \times \frac{7}{16}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{5}{8} \times \frac{11}{16}$, $\frac{3}{4} \times \frac{25}{32}$, $\frac{13}{16} \times \frac{7}{8}$, $\frac{15}{16} \times 1$ | | |
| • Resin form tray (L444xW184xH48mm) attached. | | | |

● 45°×6° LONG OFFSET WRENCH



| 45°×6° LONG OFFSET WRENCH | | | | | | | | | | mm |
|---------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----|------|---|--|----|
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 📦 | | |
| M5 -05507 | 5.5× 7 | 10 | 12 | 4.5 | 5 | 151 | 20 | 5 | | |
| -0607 | 6× 7 | 10.5 | 12 | 4.5 | 5 | 151 | 20 | 5 | | |
| -0608 | 6× 8 | 10.5 | 13 | 4.5 | 5.5 | 157 | 27 | 5 | | |
| -0708 | 7× 8 | 12 | 13 | 5 | 5.5 | 167 | 30 | 5 | | |
| -0809 | 8× 9 | 13 | 14.5 | 5.5 | 6 | 174 | 40 | 5 | | |
| -0810 | 8×10 | 13 | 16 | 5.5 | 6.5 | 179 | 45 | 5 | | |
| -1011 | 10×11 | 16 | 17.5 | 6.5 | 7 | 197 | 60 | 5 | | |
| -1012 | 10×12 | 16 | 18.5 | 6.5 | 7.5 | 207 | 70 | 5 | | |
| -1013 | 10×13 | 16 | 19.5 | 6.5 | 8.5 | 208 | 70 | 5 | | |
| -1014 | 10×14 | 16 | 21 | 6.5 | 9.5 | 218 | 82 | 5 | | |
| -1113 | 11×13 | 17.5 | 19.5 | 7 | 8.5 | 218 | 80 | 5 | | |
| -1214 | 12×14 | 18.5 | 21 | 7.5 | 9.5 | 226 | 100 | 5 | | |
| -1315 | 13×15 | 19.5 | 23 | 8.5 | 10 | 236 | 115 | 5 | | |
| -1317 | 13×17 | 19.5 | 25.5 | 8.5 | 10.5 | 252 | 135 | 5 | | |
| -1417 | 14×17 | 21 | 25.5 | 9.5 | 10.5 | 253 | 140 | 5 | | |
| -1618 | 16×18 | 24 | 27 | 10.5 | 11.5 | 265 | 180 | 5 | | |
| -1719 | 17×19 | 25.5 | 28 | 10.5 | 12 | 287 | 220 | 5 | | |
| -1721 | 17×21 | 25.5 | 31 | 10.5 | 13 | 308 | 250 | 5 | | |
| -1921 | 19×21 | 28 | 31 | 12 | 13 | 309 | 270 | 5 | | |
| -1922 | 19×22 | 28 | 32.5 | 12 | 13.5 | 320 | 280 | 5 | | |
| -2022 | 20×22 | 30 | 32.5 | 12 | 13.5 | 321 | 300 | 5 | | |
| -2123 | 21×23 | 31 | 34 | 13 | 14.5 | 322 | 335 | 5 | | |
| -2126 | 21×26 | 31 | 38 | 13 | 16 | 354 | 405 | 5 | | |
| -2224 | 22×24 | 32.5 | 35.5 | 13.5 | 15 | 334 | 380 | 5 | | |
| -2326 | 23×26 | 34 | 38 | 14.5 | 16 | 356 | 410 | 5 | | |
| -2427 | 24×27 | 35.5 | 39 | 15 | 16.5 | 367 | 440 | 5 | | |
| -2528 | 25×28 | 36.5 | 41 | 15.5 | 17 | 379 | 525 | 5 | | |
| -2632 | 26×32 | 38 | 47 | 16 | 18 | 412 | 630 | 5 | | |
| -2730 | 27×30 | 39.5 | 44 | 16.5 | 18 | 412 | 640 | 5 | | |
| -2732 | 27×32 | 39.5 | 47 | 16.5 | 18 | 413 | 675 | 5 | | |
| -2932 | 29×32 | 44 | 47 | 18 | 18 | 460 | 795 | 5 | | |
| -3032 | 30×32 | 44 | 47 | 18 | 18 | 460 | 795 | 5 | | |
| -3236 | 32×36 | 47 | 52.5 | 18 | 21 | 490 | 950 | 5 | | |
| -3538 | 35×38 | 52.5 | 55 | 21 | 22 | 519 | 1150 | 5 | | |
| -3638 | 36×38 | 52.5 | 55 | 21 | 22 | 519 | 1150 | 5 | | |
| -4146 | 41×46 | 59.5 | 66.5 | 24.5 | 26 | 593 | 1760 | 2 | | |

| 45°×6° LONG OFFSET WRENCH | | | | | | | | | | in |
|--|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|---|--|----|
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 📦 | | |
| M5 - $\frac{1}{4} \times \frac{5}{16}$ | 6.3× 7.9 | 10.5 | 13 | 4.5 | 5.5 | 157 | 27 | 5 | | |
| - $\frac{5}{16} \times \frac{3}{8}$ | 7.9× 9.5 | 13 | 16 | 5.5 | 6.5 | 179 | 45 | 5 | | |
| - $\frac{3}{8} \times \frac{7}{16}$ | 9.5×11.1 | 16 | 17.5 | 6.5 | 7 | 197 | 60 | 5 | | |
| - $\frac{13}{32} \times \frac{1}{2}$ | 10.3×12.7 | 16 | 19.5 | 6.5 | 8.5 | 208 | 70 | 5 | | |
| - $\frac{7}{16} \times \frac{1}{2}$ | 11.1×12.7 | 17.5 | 19.5 | 7 | 8.5 | 218 | 80 | 5 | | |
| - $\frac{1}{2} \times \frac{9}{16}$ | 12.7×14.2 | 19.5 | 21 | 8.5 | 9.5 | 235 | 111 | 5 | | |
| - $\frac{9}{16} \times \frac{5}{8}$ | 14.2×15.8 | 21 | 24 | 9.5 | 10.5 | 252 | 139 | 5 | | |
| - $\frac{19}{32} \times \frac{11}{16}$ | 15 ×17.4 | 23 | 25.5 | 10 | 10.5 | 254 | 146 | 5 | | |
| - $\frac{5}{8} \times \frac{11}{16}$ | 15.8×17.4 | 24 | 25.5 | 10.5 | 10.5 | 265 | 171 | 5 | | |
| - $\frac{5}{8} \times \frac{3}{4}$ | 15.8×19 | 24 | 28 | 10.5 | 12 | 286 | 207 | 5 | | |
| - $\frac{11}{16} \times \frac{3}{4}$ | 17.4×19 | 25.5 | 28 | 10.5 | 12 | 287 | 220 | 5 | | |
| - $\frac{3}{4} \times \frac{25}{32}$ | 19 ×19.8 | 28 | 30 | 12 | 12 | 309 | 263 | 5 | | |
| - $\frac{3}{4} \times \frac{13}{16}$ | 19 ×20.6 | 28 | 31 | 12 | 13 | 309 | 270 | 5 | | |
| - $\frac{25}{32} \times \frac{7}{8}$ | 19.8×22.2 | 30 | 32.5 | 12 | 13.5 | 321 | 300 | 5 | | |
| - $\frac{13}{16} \times \frac{7}{8}$ | 20.6×22.2 | 31 | 32.5 | 13 | 13.5 | 322 | 324 | 5 | | |
| - $\frac{15}{16} \times 1$ | 23.8×25.4 | 35.5 | 36.5 | 15 | 15.5 | 366 | 464 | 5 | | |
| -1 ×1 - $\frac{1}{16}$ | 25.4×26.9 | 36.5 | 39 | 15.5 | 16.5 | 378 | 515 | 5 | | |
| -1 - $\frac{1}{8} \times 1 -\frac{1}{4}$ | 28.5×31.7 | 44 | 47 | 18 | 18 | 460 | 795 | 5 | | |

| 45° LONG OFFSET WRENCH SET (6pcs.) | | | | mm · in |
|------------------------------------|---|-----|--|---------|
| No. M256 | ▼kg 2.1 | 📦 1 | | JIS |
| 45° Long OFFSET Wrench | M25-10×12, 12×14, 14×17, 17×19, 19×21, 23×26 | | | |
| No. M2506 | ▼kg 2.1 | 📦 1 | | JIS |
| 45° Long OFFSET Wrench | M25- 8×10, 11×13, 12×14, 17×19, 22×24, 24×27 | | | |
| Common Items | | | | |
| Metal Case | M256-M L385×W100×H45mm | | | |
| | | | | |
| No. MB256 | ▼kg 2 | 📦 1 | | |
| 45° Long OFFSET Wrench in | MB25- $\frac{3}{8} \times \frac{7}{16}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{5}{8} \times \frac{11}{16}$, $\frac{3}{4} \times \frac{25}{32}$, $\frac{13}{16} \times \frac{7}{8}$, $\frac{15}{16} \times 1$ | | | |
| Metal Case | MB256-M L385×W100×H45mm | | | |

● 45° LONG OFFSET WRENCH SET (6pcs.)



M256

| 45° LONG OFFSET WRENCH SET (8pcs.) · (10pcs.) | | | | mm |
|---|---|-----|--|-----|
| No. M258 | ▼kg 2.5 | 📦 1 | | JIS |
| 45° Long OFFSET Wrench | M25- 8×10, 10×12, 11×13, 12×14, 14×17, 17×19, 19×21, 22×24 | | | |
| No. M2510 | ▼kg 3 | 📦 1 | | JIS |
| 45° Long OFFSET Wrench | M25-5.5×7, 8×10, 10×12, 11×13, 12×14, 14×17, 17×19, 19×21, 22×24, 24×27 | | | |
| Common Items | | | | |
| Metal Case | M258-M L370×W180×H55mm | | | |
| | | | | |

● 45° LONG OFFSET WRENCH SET (8pcs.) (10pcs.)



M258

| OFFSET WRENCH SET (14pcs.) | | | | mm |
|--|-------------------------------|-----|--|----|
| No. M215P | ▼kg 1.9 | 📦 1 | | |
| Flat Type Short OFFSET Wrench | M100-7×8, 10×12, 12×14, 14×17 | | | |
| Flat Type Long OFFSET Wrench | M150-10×12, 12×14, 14×17 | | | |
| 15° Long OFFSET Wrench | M151-10×12, 12×14, 14×17 | | | |
| OFFSET Wrench | M27-8H, 10H, 12H, 14H | | | |
| Hard Plastic Case | TCP1-1 L385×W190×H65mm | | | |
| <ul style="list-style-type: none"> Mixed set of Flat Type Short OFFSET Wrench (M100), Flat Type Long OFFSET Wrench (M150), 15° Long Offset Wrench and Hex OFFSET Wrench. With Hard Plastic Case for light weight and durability. | | | | |

● OFFSET WRENCH SET (14pcs.)



| 45° LONG OFFSET WRENCH SET (3pcs.) | | | | mm · in |
|------------------------------------|--|-----|--|---------|
| No. M253 | ▼g 345 | 📦 1 | | JIS |
| Long OFFSET Wrench | M25-10×12, 12×14, 14×17 | | | |
| | | | | |
| No. MB253 | ▼g 350 | 📦 1 | | |
| Long OFFSET Wrench in | MB25- $\frac{3}{8} \times \frac{7}{16}$, $\frac{1}{2} \times \frac{9}{16}$, $\frac{5}{8} \times \frac{11}{16}$ | | | |

● 45° LONG OFFSET WRENCH SET (3pcs.)

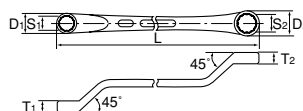


| 45° LONG OFFSET WRENCH | | | | | | | | | | mm |
|------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|----|--|----|
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 📦 | | |
| M25 -5.5×7 | 5.5×7 | 9.5 | 12 | 4.5 | 5 | 150 | 26 | 10 | | |
| - 6×7 | 6×7 | 11 | 12 | 4.5 | 5 | 150 | 26 | 10 | | |
| - 8×9 | 8×9 | 14 | 15 | 5.5 | 6 | 175 | 50 | 10 | | |
| - 8×10 | 8×10 | 14 | 17 | 5.5 | 6.5 | 175 | 50 | 10 | | |
| - 10×12 | 10×12 | 17 | 19 | 6.5 | 7.5 | 200 | 70 | 10 | | |
| - 10×13 | 10×13 | 17 | 21 | 6.5 | 8.5 | 200 | 72 | 10 | | |
| - 10×14 | 10×14 | 17 | 22 | 6.5 | 9 | 220 | 100 | 10 | | |
| - 11×13 | 11×13 | 18 | 21 | 7 | 8.5 | 200 | 74 | 10 | | |
| - 12×14 | 12×14 | 19 | 22 | 7.5 | 9 | 220 | 110 | 10 | | |
| - 13×17 | 13×17 | 21 | 26 | 8.5 | 10.5 | 245 | 145 | 10 | | |
| - 14×17 | 14×17 | 22 | 26 | 9 | 10.5 | 245 | 155 | 10 | | |
| - 17×19 | 17×19 | 26 | 29 | 10.5 | 12 | 270 | 210 | 10 | | |
| - 17×21 | 17×21 | 26 | 31 | 10.5 | 13 | 310 | 270 | 10 | | |
| - 19×21 | 19×21 | 29 | 31 | 12 | 13 | 310 | 275 | 10 | | |
| - 19×22 | 19×22 | 29 | 33 | 12 | 13.5 | 310 | 280 | 10 | | |
| - 21×23 | 21×23 | 31 | 34 | 13 | 14.5 | 310 | 340 | 5 | | |
| - 22×24 | 22×24 | 33 | 35 | 13.5 | 15 | 315 | 350 | 5 | | |
| - 23×26 | 23×26 | 34 | 38 | 14.5 | 16 | 355 | 410 | 5 | | |
| - 24×27 | 24×27 | 35 | 39 | 15 | 16.5 | 360 | 460 | 5 | | |

● 45° LONG OFFSET WRENCH



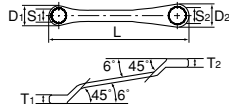
| 45° LONG OFFSET WRENCH | | | | | | | | | | in |
|--|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|----|--|----|
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 📦 | | |
| MB25-$\frac{3}{8} \times \frac{7}{16}$ | 9.5×11.1 | 16 | 18 | 6 | 7 | 195 | 80 | 10 | | |
| - $\frac{1}{2} \times \frac{9}{16}$ | 12.7×14.2 | 20 | 22 | 8 | 8 | 220 | 115 | 10 | | |
| - $\frac{5}{8} \times \frac{11}{16}$ | 15.8×17.4 | 24 | 26 | 10 | 10 | 245 | 105 | 10 | | |
| - $\frac{3}{4} \times \frac{25}{32}$ | 19 ×19.8 | 29 | 30 | 11 | 11 | 275 | 210 | 10 | | |
| - $\frac{13}{16} \times \frac{7}{8}$ | 20.6×22.2 | 31 | 33 | 12 | 13 | 310 | 280 | 5 | | |
| - $\frac{15}{16} \times 1$ | 23.8×25.4 | 35 | 37 | 15 | 15.5 | 355 | 400 | 5 | | |



JIS (M25-5.5×7, 6×7, 10×14, excludes inch size)

Note : opt. Sockets are shown in blue letters. *Please check the merchandise inventory for a product that is marked by before placing an order.

● 45°×6° SHORT OFFSET WRENCH · SET (5pcs.)

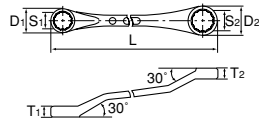
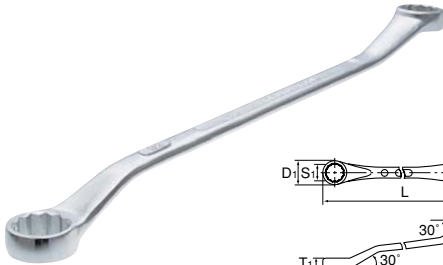


45°×6° SHORT OFFSET WRENCH · SET (5pcs.) mm

| No. TM5S05 | | ▼g 310 | | ☺ 1 | | | | | | |
|----------------------------|--------------------------------|----------------------------------|----------------|----------------|----------------|-----|-----|----|--|--|
| 45°×6° Short Offset Wrench | | M5S-0810, 1012, 1113, 1214, 1417 | | | | | | | | |
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☺ | | |
| M5S -05507 | 5.5×7 | 9.8 | 11.8 | 4.3 | 4.8 | 96 | 15 | 10 | | |
| -0708 | 7×8 | 11.8 | 12.8 | 4.8 | 5.3 | 102 | 20 | 10 | | |
| -0809 | 8×9 | 12.8 | 14.3 | 5.3 | 5.8 | 104 | 25 | 10 | | |
| -0810 | 9×10 | 12.8 | 15.8 | 5.3 | 6.3 | 109 | 30 | 10 | | |
| -1012 | 10×12 | 15.8 | 18.3 | 6.3 | 7.3 | 127 | 50 | 10 | | |
| -1113 | 11×13 | 17.3 | 19.3 | 6.8 | 8.3 | 138 | 55 | 10 | | |
| -1214 | 12×14 | 18.3 | 20.8 | 7.3 | 9.3 | 145 | 70 | 10 | | |
| -1315 | 13×15 | 19.3 | 22.8 | 8.3 | 9.8 | 156 | 85 | 10 | | |
| -1417 | 14×17 | 20.8 | 25.3 | 9.3 | 10.3 | 168 | 105 | 10 | | |
| -1618 | 16×18 | 23.8 | 26.8 | 10.3 | 11.3 | 170 | 130 | 10 | | |
| -1719 | 17×19 | 25.3 | 27.8 | 10.3 | 11.8 | 177 | 160 | 10 | | |
| -1921 | 19×21 | 27.8 | 30.8 | 11.8 | 12.8 | 179 | 185 | 10 | | |

POWERFIT

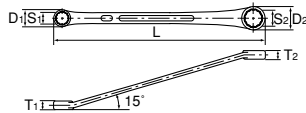
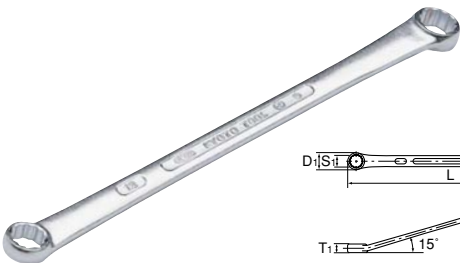
● 30° OFFSET WRENCH



30° OFFSET WRENCH mm

| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☺ | | |
|-----------|--------------------------------|----------------|----------------|----------------|----------------|-----|-------|---|--|--|
| M15-26×32 | 26×32 | 39 | 48 | 17 | 18 | 415 | 560 | 5 | | |
| -27×30 | 27×30 | 39 | 44 | 17 | 18 | 410 | 570 | 5 | | |
| -27×32 | 27×32 | 39 | 48 | 17 | 18 | 415 | 630 | 5 | | |
| -29×32 | 29×32 | 44 | 48 | 18 | 19 | 460 | 910 | 5 | | |
| -30×32 | 30×32 | 44 | 48 | 18 | 19 | 460 | 840 | 5 | | |
| -35×38 | 35×38 | 52 | 56 | 21 | 22 | 520 | 1,520 | 5 | | |
| -36×38 | 36×38 | 52 | 56 | 21 | 22 | 520 | 1,360 | 5 | | |
| -41×46 | 41×46 | 61 | 68 | 24.5 | 26 | 600 | 2,100 | 2 | | |

● 15° LONG OFFSET WRENCH · SET (3pcs.)

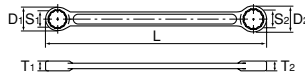
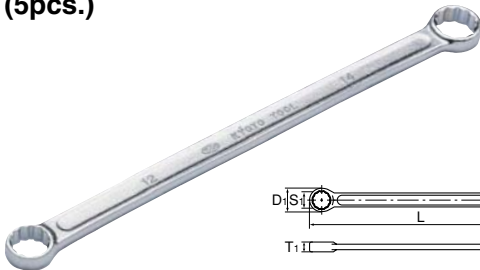


15° LONG OFFSET WRENCH · SET (3pcs.) mm

| No. M1513 | | ▼g 340 | | ☺ 10 | | JIS | | | | |
|------------------------|--------------------------------|--------------------------|----------------|----------------|----------------|-----|-----|----|--|--|
| 15° Long OFFSET Wrench | | M151-10×12, 12×14, 14×17 | | | | | | | | |
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☺ | | |
| M151-10×12 | 10×12 | 17 | 19 | 6.5 | 7.5 | 200 | 50 | 10 | | |
| -12×14 | 12×14 | 19 | 22 | 7.5 | 9 | 220 | 100 | 10 | | |
| -14×17 | 14×17 | 22 | 26 | 9 | 10.5 | 245 | 140 | 10 | | |

POWERFIT

● FLAT TYPE LONG OFFSET WRENCH · SET (5pcs.)

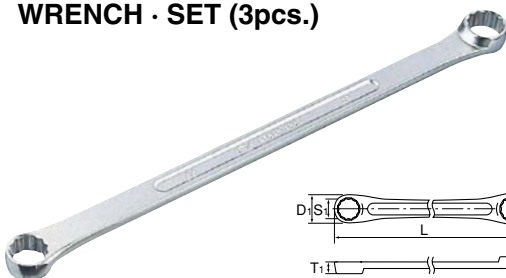


FLAT TYPE LONG OFFSET WRENCH · SET (5pcs.) mm

| No. M1505 | | ▼g 380 | | ☺ 10 | | JIS | | | | |
|------------------------------|--------------------------------|---------------------------------------|----------------|----------------|----------------|-----|-----|----|--|--|
| Flat Type Long OFFSET Wrench | | M150-8×10, 10×12, 11×13, 12×14, 14×17 | | | | | | | | |
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☺ | | |
| M150- 8×10 | 8×10 | 13 | 16 | 5.5 | 6.5 | 185 | 44 | 10 | | |
| -10×12 | 10×12 | 16 | 18 | 6.5 | 7.5 | 200 | 56 | 10 | | |
| -11×13 | 11×13 | 17 | 19 | 7 | 8 | 200 | 60 | 10 | | |
| -12×14 | 12×14 | 18 | 21 | 7.5 | 8 | 220 | 80 | 10 | | |
| -14×17 | 14×17 | 21 | 25 | 8 | 8.5 | 245 | 125 | 10 | | |
| -17×19 | 17×19 | 25 | 28 | 8.5 | 9 | 285 | 148 | 10 | | |
| -22×24 | 22×24 | 32 | 35 | 9.5 | 10 | 335 | 240 | 10 | | |

POWERFIT

● FLAT TYPE EXTRA-LONG OFFSET WRENCH · SET (3pcs.)



FLAT TYPE EXTRA-LONG OFFSET WRENCH · SET (3pcs.) mm

| No. M1603 | | ▼g 545 | | ☺ 1 | | JIS | | | | |
|--|--------------------------------|-------------------------|----------------|----------------|----------------|-----|------|----|--|--|
| Flat Type Extra-Long OFFSET Wrench · Set (3pcs.) | | M160-8×10, 12×14, 17×19 | | | | | | | | |
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☺ | | |
| M160- 8×10 | 8×10 | 14 | 17 | 7.3 | 7.6 | 235 | 60 | 10 | | |
| -10×12 | 10×12 | 17 | 19 | 8.2 | 8.8 | 295 | 84 | 10 | | |
| -12×14 | 12×14 | 19 | 22 | 9.4 | 10 | 330 | 120 | 10 | | |
| -13×15 | 13×15 | 21 | 24 | 9.9 | 10.5 | 355 | 197 | 10 | | |
| -14×17 | 14×17 | 22 | 26 | 10.6 | 11.5 | 370 | 240 | 10 | | |
| -17×19 | 17×19 | 26 | 29 | 12.3 | 12.9 | 405 | 365 | 10 | | |
| -22×24 | 22×24 | 33 | 35 | 15.2 | 15.8 | 435 | 540 | 10 | | |
| -27×30 | 27×30 | 39 | 44 | 19.8 | 20.7 | 550 | 1118 | 10 | | |

POWERFIT

*Please check the merchandise inventory for a product that is marked by before placing an order.

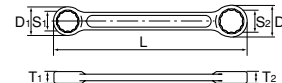
FLAT TYPE SHORT OFFSET WRENCH · SET (4pcs.) mm

No. **M1004** ▼g 170 1
 Flat Type Short OFFSET Wrench · Set (4pcs.) M100-7×8, 10×12, 12×14, 14×17

| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 1 |
|-------------------|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|----|
| M100- 7× 8 | 7× 8 | 12 | 13 | 5 | 5.5 | 95 | 18 | 10 |
| -10×12 | 10×12 | 16 | 18 | 6.5 | 7.5 | 115 | 34 | 10 |
| -12×14 | 12×14 | 18 | 21 | 7.5 | 8 | 130 | 50 | 10 |
| -14×17 | 14×17 | 21 | 25 | 8 | 8.5 | 145 | 72 | 10 |
| -17×19 | 17×19 | 25 | 28 | 8.5 | 9 | 180 | 95 | 10 |
| -22×24 | 22×24 | 32 | 35 | 9.5 | 10 | 230 | 120 | 10 |



● **FLAT TYPE SHORT OFFSET WRENCH · SET (4pcs.)**



HEX OFFSET WRENCH · SET (4pcs.) mm

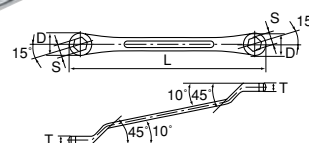
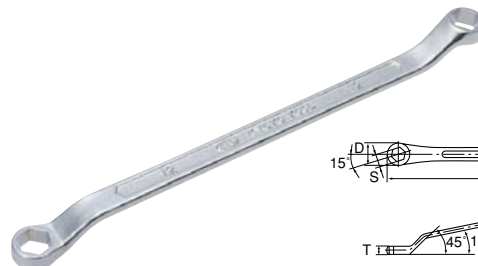
No. **M274** ▼g 330 5
 Hex OFFSET Wrench Set (4pcs.) M27-8H, 10H, 12H, 14H

Hexagonal

| No. | S | D | T | L | ▼g | 1 |
|----------------|----|----|---|-----|-----|----|
| M27- 8H | 8 | 13 | 5 | 175 | 40 | 10 |
| -10H | 10 | 16 | 6 | 195 | 57 | 10 |
| -12H | 12 | 18 | 7 | 220 | 86 | 10 |
| -14H | 14 | 21 | 8 | 240 | 120 | 10 |

- 15° symmetric angle can enable this wrench used as Bi-hexagonal wrench.
- No chamfering on hexagonal end for bigger contact between bolts and the wrenches.
- Comfortable grip for applying torque easily.

● **HEX OFFSET WRENCHS · SET (4pcs.)**



DOUBLE-FLEX RATCHET OFFSET WRENCH · SET (2pcs.) mm

No. **MTRW02A** ▼g 230 5
 Double-Flex Ratchet OFFSET Wrench MRW-0810F, 1214F

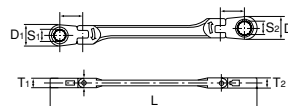
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 1 |
|------------------|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|----|
| MRW-0810F | 8×10 | 17.0 | 21.0 | 7.5 | 8.5 | 160 | 90 | 10 |
| -1012F | 10×12 | 21.0 | 24.0 | 8.5 | 8.5 | 180 | 110 | 10 |
| -1214F | 12×14 | 23.5 | 26.5 | 8.5 | 8.5 | 200 | 140 | 10 |

Special Feature

- Tight fastening possible in double heads.
- The pitch between the ratchet offset section and the hinge section is shortened while the thickness is designed as a thin-flat type, allowing smooth continuous operation in narrow areas.
- Fine adjustments and operation can be conducted due to the 5° ratchet feed angle.
- The operating direction is easy to grasp as the overall form is asymmetrical and the tightening/loosening direction is indicated using arrows.
- The shape of the handle makes it easy to grip.

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

● **DOUBLE-FLEX RATCHET OFFSET WRENCH · SET (2pcs.)**



SHORT RATCHET BOX END WRENCH SET mm

No. **TMR1S05** ▼g 580 1
 Flex Ratchet OFFSET Wrench MR1S-0810F, 1012F, 1214F, 1315F, 1417F

* Ratchet head is available as replacement part.

CAUTION • DO NOT APPLY EXCESSIVE POWER ON THE JOINT PART.
 • THE RATCHET END IS ONLY FOR TEMPORARY FASTENINGS. DO NOT USE IT FOR PERMANENT FASTENING.

SHORT RATCHET BOX END WRENCH mm

| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | 1 |
|-------------------|--------------------------------|----------------|----------------|----------------|----------------|-----|-----|---|
| MR1S-0810F | 8×10 | 18 | 21 | 7.5 | 8.5 | 107 | 38 | 5 |
| -1012F | 10×12 | 21 | 23 | 8.5 | 8.5 | 129 | 91 | 5 |
| -1113F | 11×13 | 22 | 25 | 8.5 | 8.5 | 135 | 105 | 5 |
| -1214F | 12×14 | 23.5 | 26.5 | 8.5 | 8.5 | 149 | 117 | 5 |
| -1315F | 13×15 | 25 | 28 | 8.5 | 8.5 | 155 | 133 | 5 |
| -1417F | 14×17 | 26.5 | 30.5 | 8.5 | 10 | 168 | 162 | 5 |
| -1618F | 16×18 | 29 | 32 | 10 | 11.5 | 170 | 210 | 5 |
| -1719F | 17×19 | 30.5 | 34 | 10 | 11.5 | 180 | 233 | 5 |

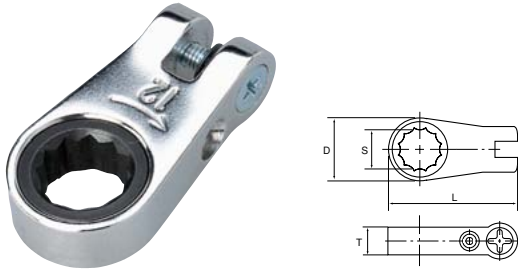


CAUTION • DO NOT APPLY EXCESSIVE POWER ON THE JOINT PART.

● **SHORT RATCHET BOX END WRENCH · SET**



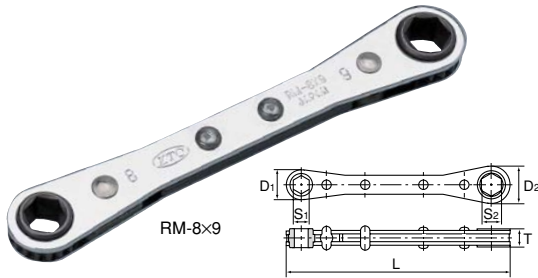
● FLEX RATCHET OFFSET WRENCH HEAD



| FLEX RATCHET OFFSET WRENCH HEAD | | | | | | | | mm |
|---------------------------------|----|----|----|------|-----|---|--|----|
| No. | S | D | T | L | ▼g | ☞ | | |
| MRF- 8K | 8 | 17 | 8 | 38.5 | 25 | 1 | | |
| -10K | 10 | 19 | 8 | 39 | 28 | 1 | | |
| -12K | 12 | 23 | 9 | 46 | 43 | 1 | | |
| -13K | 13 | 24 | 9 | 47 | 45 | 1 | | |
| -14K | 14 | 26 | 10 | 52 | 50 | 1 | | |
| -17K | 17 | 31 | 12 | 62 | 105 | 1 | | |
| -19K | 19 | 34 | 13 | 68 | 135 | 1 | | |

CAUTION • DO NOT APPLY EXCESSIVE POWER ON THE JOINT PART.
 • THE RATCHET END IS ONLY FOR TEMPORARY FASTENINGS. DO NOT USE IT FOR PERMANENT FASTENING.

● RATCHET OFFSET WRENCH · SET (3pcs.)



| RATCHET OFFSET WRENCH · SET (3pcs.) | | | | | | | | mm |
|-------------------------------------|----------------------------------|------------------------|----------------|------|-----|-----|----|----|
| No. RM03 | | ▼g 640 | | ☞ 10 | | | | |
| Ratchet OFFSET Wrench | | RM-10×12, 12×14, 14×17 | | | | | | |
| No. | S ₁ ×S ₂ * | D ₁ | D ₂ | T | L | ▼g | ☞ | |
| RM- 8× 9 | 8× 9 | 17 | 19 | 10 | 120 | 70 | 10 | |
| - 8×10 | 8×10 | 17 | 22 | 10 | 120 | 70 | 10 | |
| -10×12 | 10×12 | 22 | 24 | 11 | 150 | 130 | 10 | |
| -12×14 | 12×14 | 24 | 29 | 14 | 165 | 230 | 10 | |
| -14×17 | 14×17 | 29 | 33 | 14 | 195 | 280 | 10 | |

* When the diameter is 14mm or larger, the socket has 12 points.
 • Smooth ratcheting operation.
 • Thin and round shaped head for use in confined spaces.
 • For light-load operation.
 • The feed angle is 20°.

CAUTION • ENSURE THAT THE SWITCH LEVER HAS BEEN SET PROPERLY, OTHERWISE IT MAY CAUSE DAMAGE OR IDLING.
 • THIS IS ONLY FOR TEMPORARY FASTENINGS. DO NOT USE IT FOR PERMANENT FASTENINGS.

● 4SIZE STANDARD RATCHET BOXEND WRENCH



| 4SIZE STANDARD RATCHET OFFSET WRENCH | | | | | | | | mm |
|--------------------------------------|--------------------------------|----------------|----------------|----|-----|-----|----|----|
| No. | S ₁ ×S ₂ | D ₁ | D ₂ | T | L | ▼g | ☞ | |
| MR-0813 | 8×12 · 10×13 | 21 | 25 | 15 | 143 | 130 | 10 | |
| -1014 | 10×13 · 12×14 | 25 | 28 | 15 | 166 | 160 | 10 | |

• The socket is thin enough to operate in narrow quarters.
 • The grip, with its wave form, is easy to hold and apply load.
 • The green color is distinguishable in the workplace. it is also lightweight because it is made of plastic.

CAUTION • ENSURE THAT THE SWITCH LEVER HAS BEEN SET PROPERLY, OTHERWISE IT MAY CAUSE DAMAGE OR IDLING.
 • THIS IS ONLY FOR TEMPORARY FASTENINGS. DO NOT USE IT FOR PERMANENT FASTENINGS.

● 4SIZE LONG RATCHET BOXEND WRENCH



| 4SIZE LONG RATCHET OFFSET WRENCH | | | | | | | | | | | | mm |
|----------------------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|-----|----|
| No. | Nominal Size | h ₁ | h ₂ | h ₃ | h ₄ | D ₁ | D ₂ | T ₁ | T ₂ | L | ▼g | ☞ |
| MR-0813L | 8×12 · 10×13 | 10 | 17.5 | 15 | 17.5 | 21 | 25 | 34.5 | 44.5 | 143 | 180 | 10 |
| -1014L | 10×13 · 12×14 | 15 | 18 | 15 | 30 | 25 | 28 | 39.5 | 57.5 | 166 | 230 | 10 |

• The socket is long enough to operate in deep quarters.
 • The grip, with its wave form, is easy to hold and apply load.
 • The green color is distinguishable in the workplace. It is also lightweight because it is made of plastic.

CAUTION • ENSURE THAT THE SWITCH LEVER HAS BEEN SET PROPERLY, OTHERWISE IT MAY CAUSE DAMAGE OR IDLING.
 • THIS IS ONLY FOR TEMPORARY FASTENINGS. DO NOT USE IT FOR PERMANENT FASTENINGS.