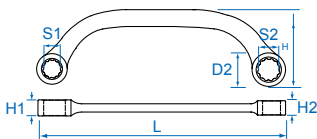
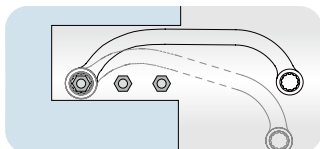


# Half Moon Ring Wrench & Set

## 1950

- Short pattern design enables greater access in confined spaces
- Chrome vanadium alloy steel
- Chrome plated
- DIN 3113



| KT NO.   | Size mm | D1 mm | D2 mm | L mm | H1 mm | H2 mm | H mm |     |          |
|----------|---------|-------|-------|------|-------|-------|------|-----|----------|
| 19500810 | 8 x 10  | 15.6  | 14.3  | 137  | 6.5   | 6.2   | 42   | 40  | 12 / 288 |
| 19501012 | 10 x 12 | 15.6  | 18.2  | 141  | 6.6   | 6.5   | 50   | 61  | 12 / 288 |
| 19501113 | 11 x 13 | 18.2  | 21.0  | 166  | 8.2   | 8.0   | 63   | 101 | 8 / 128  |
| 19501214 | 12 x 14 | 18.2  | 21.0  | 166  | 8.2   | 8.0   | 63   | 95  | 8 / 128  |
| 19501315 | 13 x 15 | 22.0  | 25.0  | 190  | 9.2   | 8.2   | 75   | 133 | 6 / 72   |
| 19501417 | 14 x 17 | 22.0  | 25.0  | 190  | 9.2   | 8.2   | 75   | 130 | 6 / 72   |
| 19501618 | 16 x 18 | 25.5  | 28.0  | 220  | 9.6   | 8.8   | 79   | 164 | 6 / 72   |
| 19501719 | 17 x 19 | 25.5  | 28.0  | 220  | 9.6   | 8.8   | 79   | 163 | 6 / 72   |
| 19501922 | 19 x 22 | 28.6  | 32.5  | 256  | 11.1  | 10.1  | 91   | 257 | 6 / 48   |

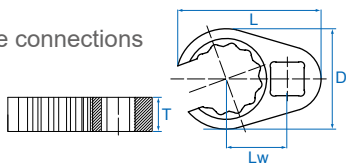
| KT NO.   | PC. | Contents                                    |      |        |
|----------|-----|---------------------------------------------|------|--------|
| 9-1905MR | 5   | 10 x 12, 11 x 13, 14 x 17, 16 x 18, 19 x 22 | 0.82 | 1 / 10 |



# Crowfoot Wrench & Set

## 1031

- 12 points
- For union nuts and tube connections
- With square mount



- Use to reach limit place with extension bar
- Use with torque wrench and 90° extension bar, will not effectively change the torque value

| KT NO.   | Size mm | Drive square | D mm | T mm | L mm | Lw mm |     |          |
|----------|---------|--------------|------|------|------|-------|-----|----------|
| 1031-10R | 10      | 3/8"         | 27.0 | 9.2  | 36.5 | 17.1  | 40  | 12 / 192 |
| 1031-11R | 11      | 3/8"         | 27.0 | 9.2  | 36.5 | 17.0  | 40  | 12 / 192 |
| 1031-12R | 12      | 3/8"         | 27.5 | 9.2  | 36.5 | 16.8  | 40  | 12 / 192 |
| 1031-13R | 13      | 3/8"         | 27.2 | 9.3  | 36.5 | 16.7  | 40  | 12 / 192 |
| 1031-14R | 14      | 3/8"         | 29.8 | 9.6  | 42.0 | 20.0  | 42  | 12 / 192 |
| 1031-15R | 15      | 3/8"         | 31.4 | 9.2  | 42.0 | 19.2  | 44  | 12 / 192 |
| 1031-16R | 16      | 3/8"         | 30.2 | 10.1 | 42.0 | 19.5  | 48  | 12 / 192 |
| 1031-17R | 17      | 3/8"         | 34.0 | 11.4 | 45.6 | 23.5  | 68  | 12 / 192 |
| 1031-18R | 18      | 3/8"         | 33.6 | 10.0 | 45.6 | 22.5  | 63  | 12 / 192 |
| 1031-19R | 19      | 3/8"         | 33.7 | 10.8 | 45.8 | 23.0  | 63  | 12 / 192 |
| 1031-22R | 22      | 1/2"         | 38.5 | 13.0 | 55.0 | 23.0  | 82  | 15 / 180 |
| 1031-24R | 24      | 1/2"         | 38.5 | 12.5 | 55.0 | 24.5  | 74  | 15 / 180 |
| 1031-26R | 26      | 1/2"         | 42.5 | 13.5 | 60.0 | 24.0  | 105 | 15 / 180 |
| 1031-27R | 27      | 1/2"         | 42.5 | 13.5 | 61.0 | 25.0  | 98  | 15 / 180 |
| 1031-30R | 30      | 1/2"         | 49.0 | 14.0 | 68.5 | 30.0  | 136 | 12 / 144 |
| 1031-32R | 32      | 1/2"         | 50.0 | 14.0 | 70.0 | 30.0  | 136 | 12 / 144 |

| KT NO.   | Size mm | Drive square | D mm | T mm | L mm | Lw mm |     |         |
|----------|---------|--------------|------|------|------|-------|-----|---------|
| 1031-34R | 34      | 3/4"         | 55.6 | 22.5 | 84.5 | 38.0  | 345 | 12 / 60 |
| 1031-35R | 35      | 3/4"         | 55.6 | 22.5 | 84.5 | 39.0  | 334 | 12 / 60 |
| 1031-36R | 36      | 3/4"         | 55.6 | 22.5 | 84.5 | 39.0  | 315 | 12 / 60 |
| 1031-38R | 38      | 3/4"         | 61.7 | 23.0 | 90.5 | 43.0  | 346 | 12 / 60 |
| 1031-41R | 41      | 3/4"         | 61.7 | 23.0 | 90.5 | 43.0  | 357 | 12 / 60 |
| 1031-46R | 46      | 3/4"         | 70.0 | 25.0 | 101  | 47.0  | 517 | 12 / 24 |
| 1031-48R | 48      | 3/4"         | 75.5 | 28.5 | 104  | 47.0  | 482 | 12 / 24 |
| 1031-50R | 50      | 3/4"         | 75.5 | 28.5 | 104  | 48.0  | 587 | 12 / 24 |



| KT NO. | PC. | Contents                                   |      |        |
|--------|-----|--------------------------------------------|------|--------|
| 1E10MR | 10  | 10, 11, 12, 13, 14, 15, 16, 17, 18, 19     | 0.59 | 1 / 30 |
| 1E11MR | 11  | 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22 | 0.68 | 1 / 30 |

