

# Precision Circlip Pliers

for internal circlips in bore holes

48

With inserted tips for reliable work  
Heavy-duty in continuous operation:  
up to 10 times longer service life than  
turned tips

- > for fitting snap rings into bores, ranging from 5/16" to 5 1/2" (8 – 140 mm) dia.
- > bolted joint: precise, zero-backlash operation of pliers
- > pliers body: chrome vanadium electric steel; forged, oil-hardened
- > inserted tips: spring steel wire, drawn

## Style 1

Straight tips

## Style 2

90° angled tips



48 11 J2



48 21 J21



## High Precision Quality

Easy and reliable assembly: form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level of protection against excessive stress and strain, e.g. when removing stuck rings. The large supporting surfaces and the position of the tips make it more difficult for the rings to fly off.

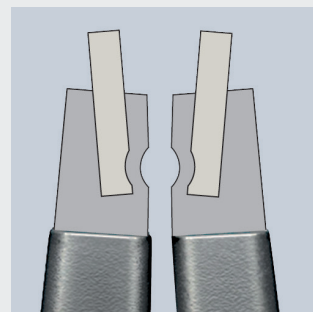


## Precision and durability

High-density spring steel with a score-free surface is used for the tips. This increases the tips' resistance to dynamic and static strain. The tips are 30% more stable than conventional pliers when subjected to one-off overloading while still allowing good accessibility during assembly. Subjected to dynamic strain, the tips' resistance capacity is up to 10 times greater! The tips on the precision circlip pliers are non-detachable!



Sturdy, inserted tips: made from high-density spring steel



Tight fit through compression

| Product Number | Packaging | ↔<br>Inch<br>mm |  | Pliers            | Handles                 | Style | Size of bore<br>Ø Inch<br>Ø mm | Tips<br>Ø Inch<br>Ø mm | ⚖<br>lbs |
|----------------|-----------|-----------------|--|-------------------|-------------------------|-------|--------------------------------|------------------------|----------|
| 48 11 J0       | X         | 5 1/2<br>140    |  | grey atramentized | non-slip plastic coated | 1     | 5/16 - 1/2<br>8 - 13           | 1/32<br>0.9            | 0.23     |
| 48 11 J1       | X         | 5 1/2<br>140    |  |                   |                         | 1     | 15/32 - 1<br>12 - 25           | 3/64<br>1.3            | 0.23     |
| 48 11 J2       | X         | 7 1/4<br>180    |  |                   |                         | 1     | 3/4 - 2 3/64<br>19 - 60        | 5/64<br>1.8            | 0.39     |
| 48 11 J3       | X         | 9<br>225        |  |                   |                         | 1     | 1 37/64 - 3 15/16<br>40 - 100  | 3/32<br>2.3            | 0.59     |
| 48 11 J4       | X         | 12 1/2<br>320   |  |                   |                         | 1     | 3 11/32 - 5 1/2<br>85 - 140    | 1/8<br>3.2             | 1.24     |
| 48 21 J01      | X         | 5 1/8<br>130    |  | grey atramentized | non-slip plastic coated | 2     | 5/16 - 1/2<br>8 - 13           | 1/32<br>0.9            | 0.23     |
| 48 21 J11      | X         | 5 1/8<br>130    |  |                   |                         | 2     | 15/32 - 1<br>12 - 25           | 3/64<br>1.3            | 0.23     |
| 48 21 J21      | X         | 6 1/2<br>165    |  |                   |                         | 2     | 3/4 - 2 3/64<br>19 - 60        | 5/64<br>1.8            | 0.39     |
| 48 21 J31      | X         | 8 1/4<br>210    |  |                   |                         | 2     | 1 37/64 - 3 15/16<br>40 - 100  | 3/32<br>2.3            | 0.59     |
| 48 21 J41      | X         | 12<br>305       |  |                   |                         | 2     | 3 11/32 - 5 1/2<br>85 - 140    | 1/8<br>3.2             | 1.24     |

**NEW**

**NOW with overstretching limiter**

**For all circlips with a diameter of 5/16" – 3 15/16"**

- > overexpansion limiter with screw stop prevents overexpansion of circlips
- > adjustment using Allen Wrench

**Style 3**

Straight tips with overstretching limiter (adjustable using end stop)

**Style 4**

90° angled tips with overstretching limiter (adjustable using end stop)



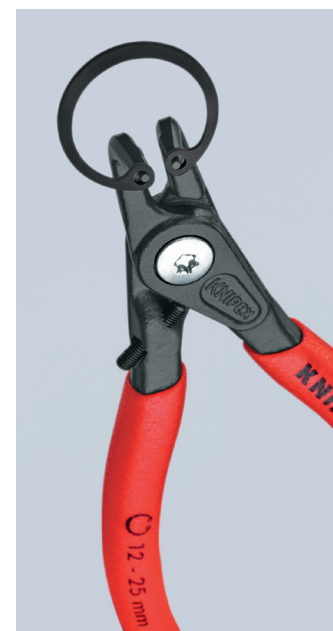
48 31 J2  
 



48 41 J21  
  $\angle 90^\circ$  

**KNIPEX Precision Circlip Pliers with overexpansion guard**

For the standardized fitting of circlips in the industrial serial production. Particularly manufacturers of sensitive, safety-relevant components (e.g. brakes or gears) highly appreciate the compliance of DIN 471 and 472. The mounting of circlip rings in this case requires pliers with an overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and offer a superior durability.



| Product Number | Packaging | ↔<br>Inch<br>mm |                                                                                     | Pliers            | Handles                 | Style | Size of bore<br>Ø Inch<br>Ø mm | Tips<br>Ø Inch<br>Ø mm | ⚖<br>lbs |
|----------------|-----------|-----------------|-------------------------------------------------------------------------------------|-------------------|-------------------------|-------|--------------------------------|------------------------|----------|
| 48 31 J0       |           | 5 1/2<br>140    |  | grey atramentized | non-slip plastic coated | 3     | 5/16 - 1/2<br>8 - 13           | 1/32<br>0.9            | 0.23     |
| 48 31 J1       |           | 5 1/2<br>140    |                                                                                     |                   |                         | 3     | 15/32 - 1<br>12 - 25           | 3/64<br>1.3            | 0.23     |
| 48 31 J2       |           | 7 1/4<br>180    |                                                                                     |                   |                         | 3     | 3/4 - 2 3/64<br>19 - 60        | 5/64<br>1.8            | 0.39     |
| 48 31 J3       |           | 9<br>225        |                                                                                     |                   |                         | 3     | 1 37/64 - 3 15/16<br>40 - 100  | 3/32<br>2.3            | 0.59     |
| 48 41 J01      |           | 5 1/8<br>130    |  | grey atramentized | non-slip plastic coated | 4     | 5/16 - 1/2<br>8 - 13           | 1/32<br>0.9            | 0.23     |
| 48 41 J11      |           | 5 1/8<br>130    |                                                                                     |                   |                         | 4     | 15/32 - 1<br>12 - 25           | 3/64<br>1.3            | 0.23     |
| 48 41 J21      |           | 6 1/2<br>165    |                                                                                     |                   |                         | 4     | 3/4 - 2 3/64<br>19 - 60        | 5/64<br>1.8            | 0.39     |
| 48 41 J31      |           | 8 1/4<br>210    |                                                                                     |                   |                         | 4     | 1 37/64 - 3 15/16<br>40 - 100  | 3/32<br>2.3            | 0.59     |