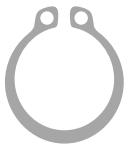
Precision Circlip Pliers
to assemble external circlips on shafts

49

With inserted tips for reliable work

Heavy-duty in continuous operation: up to 10 times longer service life compared to turned tips



- for fitting snap rings on shafts, ranging from 1/8" – 5 1/2" (3 – 140 mm) dia.
- large contact faces on the tips: no distortion of circlips, easy fitting
- bolted joint: precise, zero-backlash operation of pliers
- internal opening spring, protected and captive
- pliers body: chrome vanadium electric steel; forged, oil-hardened
- inserted tips: spring steel wire, drawn

Style 1
Straight tips

Style 2
90° angled tips

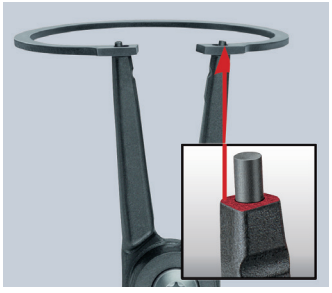
49 11 A2

49 21 A21

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.

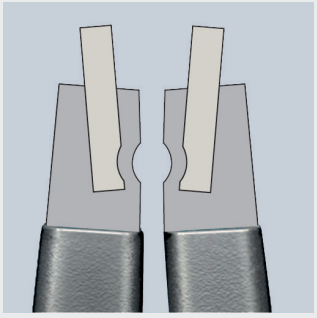
Spring inside the joint: the spring is protected inside the precision bolted joint. It does not hinder work and cannot get dirty or lost



Circlips are held securely: large contact faces and the position of the tips make it difficult for the circlip 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	↔ Inch mm		Pliers	Handles	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	⚖ lbs
49 11 A0	X	5 1/2 140		grey atramentized	non-slip plastic coated	1	1/8 - 25/64 3 - 10	1/32 0.9	0.22
49 11 A1	X	5 1/2 140				1	25/64 - 1 10 - 25	3/64 1.3	0.22
49 11 A2	X	7 1/4 180				1	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 11 A3	X	9 225				1	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 11 A4	X	12 5/8 320				1	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.32
49 21 A01	X	5 1/8 130		grey atramentized	non-slip plastic coated	2	1/8 - 25/64 3 - 10	1/32 0.9	0.22
49 21 A11	X	5 1/8 130				2	25/64 - 1 10 - 25	3/64 1.3	0.22
49 21 A21	X	6 1/2 165				2	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 21 A31	X	8 1/4 210				2	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 21 A41	X	12 305				2	3 11/32 - 5 1/2 85 - 140	1/8 3.2	1.32

Precision Circlip Pliers Sets can be found on pages 197, 199 and 200

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 overexpansion limiter (adjustable using end stop)

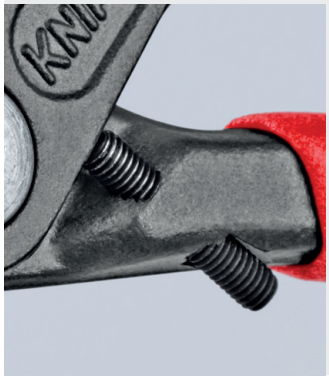
Style 4
90° angled tips with overexpansion limiter (adjustable using end stop)

Style 3 / style 4: with adjustable restricted opening

49 31 A0

49 31 A2

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.



49 41 A11

Product Number	Packaging	↔ Inch mm		Pliers	Handles	Style	Size of shaft Ø Inch Ø mm	Tips Ø Inch Ø mm	lbs
49 31 A0		5 1/2 140		grey atramentized	non-slip plastic coated	3	1/8 - 25/64 3 - 10	1/32 0.9	0.23
49 31 A1		5 1/2 140				3	25/64 - 1 10 - 25	3/64 1.3	0.22
49 31 A2		7 1/4 180				3	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 31 A3		9 225				3	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60
49 41 A01		5 1/8 130		grey atramentized	non-slip plastic coated	4	1/8 - 25/64 3 - 10	1/32 0.9	0.23
49 41 A11		5 1/8 130				4	25/64 - 1 10 - 25	3/64 1.3	0.22
49 41 A21		6 1/2 165				4	3/4 - 2 3/64 19 - 60	5/64 1.8	0.38
49 41 A31		8 1/4 210				4	1 37/64 - 3 15/16 40 - 100	3/32 2.3	0.60