

# Precision Circlip Pliers

With inserted tips  
for reliable work



## Precision Circlip Pliers

With inserted tips for reliable work

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

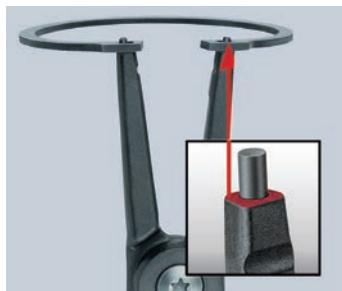
- > Large contact faces on the tips: no distortion of circlips
- > Inserted tips: spring steel wire, drawn
- > Bolted joint: precise, zero backlash operation of pliers



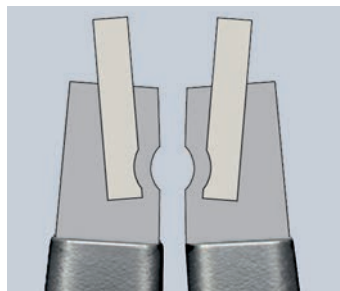
48 11 J2



48 21 J21  $\angle 90^\circ$



Circlips are held reliably: large contact areas and the position of the tips make it difficult for the circlip to bounce off



Form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level of protection against excessive stress and strain



48 31 J3



48 41 J11

48

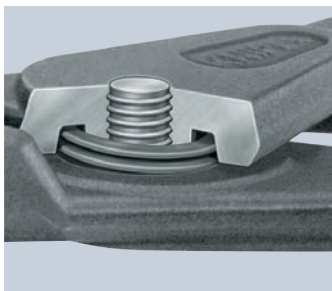
Precision Circlip Pliers for internal circlips in bore holes  $\odot$

Article No.	EAN 4003773-	Description	Size of bore $\varnothing$ mm	Tips $\varnothing$ mm	$\longleftrightarrow$ mm
48 11 J0	048510	straight tips	8 – 13	0.9	140
48 11 J1	048527	straight tips	12 – 25	1.3	140
48 11 J2	048534	straight tips	19 – 60	1.8	180
48 11 J3	048541	straight tips	40 – 100	2.3	225
48 11 J4	048558	straight tips	85 – 140	3.2	320
48 21 J01	048619	90° angled tips	8 – 3	0.9	130
48 21 J11	048633	90° angled tips	12 – 25	1.3	130
48 21 J21	048640	90° angled tips	19 – 60	1.8	165
48 21 J31	048657	90° angled tips	40 – 100	2.3	210
48 21 J41	048664	90° angled tips	85 – 140	3.2	305

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Precision Circlip Pliers for external circlips on shafts  $\odot$

Article No.	EAN 4003773-	Description	Size of bore $\varnothing$ mm	Tips $\varnothing$ mm	$\longleftrightarrow$ mm
49 11 A0	048718	straight tips	3 – 10	0.9	140
49 11 A1	048725	straight tips	10 – 25	1.3	140
49 11 A2	048732	straight tips	19 – 60	1.8	180
49 11 A3	048749	straight tips	40 – 100	2.3	225
49 11 A4	048756	straight tips	85 – 140	3.2	320
49 21 A01	048817	90° angled tips	3 – 10	0.9	130
49 21 A11	048824	90° angled tips	10 – 25	1.3	130
49 21 A21	048831	90° angled tips	19 – 60	1.8	165
49 21 A31	048848	90° angled tips	40 – 100	2.3	210
49 21 A41	048855	90° angled tips	85 – 140	3.2	305



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



48 31 J1/J2 and 49 31 A1/A2: With over-expansion guard (adjustable using end stop), Excessive expansion of rings is effectively prevented.

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Precision Circlip Pliers for internal circlips in bore holes  $\odot$

Article No.	EAN 4003773-	Description	Size of bore $\varnothing$ mm	Tips $\varnothing$ mm	$\longleftrightarrow$ mm
48 31 J0	048619	straight tips	8 - 13	0.9	180
48 31 J1	073864	straight tips	12 – 25	1.3	140
48 31 J2	073871	straight tips	19 – 60	1.8	180
48 41 J01	079569	90° angled tips	8 - 13	0.9	130
48 41 J11	079576	90° angled tips	12 - 25	1.3	130
48 41 J21	080695	90° angled tips	19 - 60	1.8	165
48 41 J31	079590	90° angled tips	40 - 100	2.3	210

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Precision Circlip Pliers for external circlips on shafts  $\odot$

Article No.	EAN 4003773-	Description	Size of bore $\varnothing$ mm	Tips $\varnothing$ mm	$\longleftrightarrow$ mm
49 31 A0	061748	straight tips	3 - 10	0.9	140
49 31 A1	073895	straight tips	10 - 25	1.3	140
49 31 A2	073901	straight tips	19 - 60	1.8	180
49 31 A3	073918	straight tips	40 - 100	2.3	225
49 41 A01	061755	90° angled tips	3 - 10	0.9	130
49 41 A11	079606	90° angled tips	10 - 25	1.3	130
49 41 A21	079613	90° angled tips	19 - 60	1.8	165
49 41 A31	079620	90° angled tips	40 - 100	2.3	210

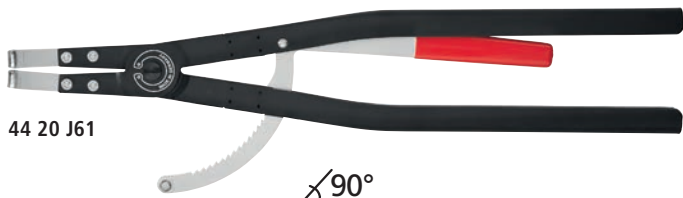
## Circlip Pliers

for internal circlips in bore holes

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44 11 J2



44 20 J61



44 31 J22

Article No.	EAN 4003773-	Description	Size of bore Ø mm	Tips Ø mm	↔ mm
44 11 J0	040286	pliers black atramentized. head	8 – 13	0.9	140
44 11 J1	022862	polished. handles plastic coated;	12 – 25	1.3	140
44 11 J2	022879	DIN 5256 C;	19 – 60	1.8	180
44 11 J3	033943	straight tips	40 – 100	2.3	225
44 11 J4	042549		85 – 140	3.2	320
44 21 J01	040132	pliers black atramentized. head	8 – 13	0.9	130
44 21 J11	022886	polished. handles plastic coated;	12 – 25	1.3	130
44 21 J21	022893	DIN 5256 D; 90° angled tips	19 – 60	1.8	170
44 21 J31	033769	∠90°	40 – 100	2.3	215
44 21 J41	043683		85 – 140	3.2	300
44 31 J02	066941	pliers black atramentized. head	8 – 13	0.9	140
44 31 J12	066958	polished. handles plastic coated;	12 – 25	1.3	140
44 31 J22	066965	45° angled tips	19 – 60	1.8	180
44 31 J32	066972	∠45°	40 – 100	2.3	225
44 31 J42	066989		85 – 140	3.2	310
44 10 J5	024910	pliers black powder coated. with	122 – 300	3.5	570
44 10 J6	024927	locking device. can be released;	252 – 400	4.5	580
		straight tips			
44 20 J51	024958	pliers black powder-coated; with	122 – 300	3.5	590
44 20 J61	024965	locking device. can be released;	252 – 400	4.5	600
		90° angled tips ∠90°			
44 19 J5	024934	1 pair of spare tips for			
		44 10 J5			
44 19 J6	024941	1 pair of spare tips for			
		44 10 J6			
44 29 J51	024972	1 pair of spare tips for			
		44 20 J51			
44 29 J61	024965	1 pair of spare tips for			
		44 20 J61			

## Circlip Pliers

for external circlips on shafts

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46 11 A2



46 10 A5



46 11 A2



46 21 A2





Article No.	EAN 4003773-	Description	Size of bore Ø mm	Tips Ø mm	↔ mm
46 11 A0	033950	pliers black atramentized. head	3 – 10	0.9	140
46 11 A1	022909	polished. handles plastic coated;	10 – 25	1.3	140
46 11 A2	022916	DIN 5254 A; straight tips	19 – 60	1.8	180
46 11 A3	033974	∩	40 – 100	2.3	210
46 11 A4	042532		85 – 140	3.2	320
46 21 A01	033967	pliers black atramentized. head	3 – 10	0.9	125
46 21 A11	023005	polished. handles plastic coated;	10 – 25	1.3	125
46 21 A21	022923	DIN 5254 B; 90° angled tips	19 – 60	1.8	170
46 21 A31	033981	∠90° ∩	40 – 100	2.3	200
46 21 A41	039365		85 – 140	3.2	300
46 31 A02	066996	pliers black atramentized. head	3 – 10	0.9	130
46 31 A12	067009	polished. with locking device.	10 – 25	1.3	130
46 31 A22	067016	can be released; 45° angled tips	19 – 60	1.8	185
46 31 A32	067023	∠45° ∩	40 – 100	2.3	210
46 31 A42	067030		85 – 140	3.2	310
46 10 A5	024996	pliers black powder-coated; head	122 – 300	3.5	560
46 10 A6	025009	polished; handles plastic coated;	252 – 400	4.5	570
		straight tips			
46 20 A51	025023	pliers black powder-coated. with	122 – 300	3.5	570
46 20 A61	025030	locking device. can be released;	252 – 400	4.5	580
		90° angled tips ∠90°			
46 19 A5	024316	1 pair of spare tips for			
		46 10 A5			
46 19 A6	025016	1 pair of spare tips for			
		46 10 A6			
46 29 A51	025047	1 pair of spare tips for			
		46 20 A51			
46 29 A61	025054	1 pair of spare tips for			
		46 20 A61			

## Special Retaining Ring Pliers

For retaining rings on shafts

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- > For fitting horseshoe-shaped spring retaining rings and circlips without grip holes
- > For shaft retaining devices
- > With opening spring
- > Chrome vanadium electric steel, forged, oil-hardened

Article No.	EAN 4003773-		↔ mm
45 10 170	017370	○ ○  	170
45 21 200	031208	○ ○  	200



**45 10 170:**

- > For retaining rings with a minimum ring split gap of 3.6 mm



**45 21 200:**

- > Angled jaws with centering hole; for snap rings larger than 12.0 mm dia., e.g. for cardan shafts in a motor vehicle; minimum ring split gap of the rings 2.2 mm

## Precision Circlip Pliers Set

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- > High-quality, impact-resistant plastic case
- > Contains common Precision Circlip Pliers for highest requirements
- > Precisely-sized recesses for holding the pliers
- > Clearly organised storage of tools

Article No.	EAN 4003773-	Content
00 21 25	050131	1 x 48 11 J1 1 x 48 11 J2 1 x 48 21 J11 1 x 48 21 J21 1 x 49 11 A1 1 x 49 11 A2 1 x 49 21 A11 1 x 49 21 A21



## Circlip Pliers Sets

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- > Contains common Precision Circlip Pliers for highest requirements
- > Sturdy plastic packaging, also suitable for storage of the pliers

00 20 04 V01



00 20 03 V02



00 20 03 SB



00 20 04 SB



Article No.	EAN 4003773-	Content
00 20 03 SB	050100	1 x 48 11 J1, 48 11 J2, 49 11 A1, 49 11 A2
00 20 03 V02	077640	1 x 44 11 J1, 44 11 J2, 46 11 A1, 46 11 A2
00 20 04 SB	062417	1 x 48 11 J1, 48 11 J2, 49 11 A1, 49 11 A2, 48 21 J11, 48 21 J21, 49 21 A11, 49 21 A21
00 20 04 V01	077633	1 x 44 11 J1, 44 11 J2, 46 11 A1, 46 11 A2, 44 21 J11, 44 21 J21, 46 21 A11, 46 21 A21