

44

## Circlip Pliers

to assemble internal circlips into bores



44 11 J2



44 21 J21



∠90°



44 31 J22



∠45°

- for fitting circlips into bores, range of application from 8 - 140 mm dia.
- solid style, forged
- non-slip, solid tips
- Pliers body and tips: chrome vanadium steel, forged, oil-hardened

### Style 1

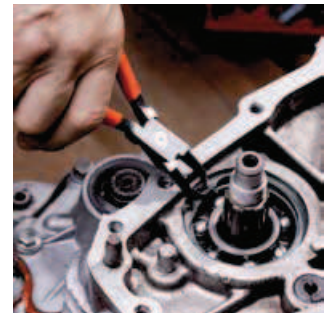
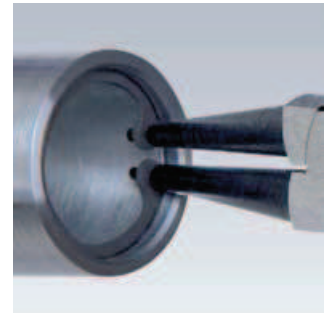
DIN 5256 C, straight tips

### Style 2

DIN 5254 B; 90° angled tips

### Style 3

45° angled tips



Pliers Sets,  
see page 193

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Head	Handles	Size of bore Ø mm	⚖ g
44 11 J0	040286	140	☉	1	black atramentized	polished	plastic coated	8 - 13	88
44 11 J1	022862	140						12 - 25	88
44 11 J2	022879	180						19 - 60	135
44 11 J3	033943	225						40 - 100	196
44 11 J4	042549	320						85 - 140	469
44 13 J0	048176	140	☉	1	chrome plated		plastic coated	8 - 13	89
44 13 J1	042938	140						12 - 25	88
44 13 J2	042945	180						19 - 60	138
44 13 J3	042952	225						40 - 100	194
44 13 J4	017301	320						85 - 140	463
44 21 J01	040132	130	☉ ∠90°	2	black atramentized	polished	plastic coated	8 - 13	88
44 21 J11	022886	130						12 - 25	88
44 21 J21	022893	170						19 - 60	139
44 21 J31	033769	215						40 - 100	196
44 21 J41	043683	300						85 - 140	462
44 23 J01	017325	140	☉ ∠90°	2	chrome plated		plastic coated	8 - 13	87
44 23 J11	042969	130						12 - 25	89
44 23 J21	042976	170						19 - 60	138
44 23 J31	042983	215						40 - 100	200
44 31 J02	066941	140						☉ ∠45°	3
44 31 J12	066958	140	12 - 25	90					
44 31 J22	066965	180	19 - 60	140					
44 31 J32	066972	225	40 - 100	195					
44 31 J42	066989	310	85 - 140	465					

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## Circlip Pliers

to assemble external circlips on shafts



46 11 A2  
 $\text{MM}$



46 21 A21  
 $\angle 90^\circ$   $\text{MM}$



46 31 A22  
 $\angle 45^\circ$   $\text{MM}$

- for fitting circlips on shafts, range of application from 3 - 140 mm dia.
- solid style, forged
- non-slip, solid tips
- Pliers body and tips: chrome vanadium steel, forged, oil-hardened

**Style 1**  
 DIN 5254 A; straight tips

**Style 2**  
 DIN 5254 B; 90° angled tips

**Style 3**  
 45° angled tips



Pliers Sets,  
 see page 193

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Head	Handles	Size of shaft Ø mm	⚖ g
46 11 A0	033950	140	◉ $\text{MM}$	1	black atramentized	polished	plastic coated	3 - 10	85
46 11 A1	022909	140						10 - 25	86
46 11 A2	022916	180						19 - 60	134
46 11 A3	033974	210						40 - 100	220
46 11 A4	042532	320						85 - 140	505
46 13 A0	017417	140	◉ $\text{MM}$	1	chrome plated		plastic coated	3 - 10	85
46 13 A1	042990	140						10 - 25	82
46 13 A2	043003	180						19 - 60	133
46 13 A3	043010	210						40 - 100	211
46 21 A01	033967	125	◉ $\angle 90^\circ$ $\text{MM}$	2	black atramentized	polished	plastic coated	3 - 10	85
46 21 A11	023005	125						10 - 25	85
46 21 A21	022923	170						19 - 60	132
46 21 A31	033981	200						40 - 100	219
46 21 A41	039365	300						85 - 140	510
46 23 A01	017509	125	◉ $\angle 90^\circ$ $\text{MM}$	2	chrome plated		plastic coated	3 - 10	84
46 23 A11	043027	125						10 - 25	84
46 23 A21	043034	170						19 - 60	132
46 23 A31	043041	200						40 - 100	221
46 31 A02	066996	130	◉ $\angle 45^\circ$ $\text{MM}$	3	black atramentized	polished	plastic coated	3 - 10	83
46 31 A12	067009	130						10 - 25	85
46 31 A22	067016	185						19 - 60	133
46 31 A32	067023	210						40 - 100	213
46 31 A42	067030	310						85 - 140	511

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## Circlip Pliers

for large internal circlips



44 10 J6



- for assembling circlips into bores within the range of Ø 122 - 400 mm
- with locking device, can be released
- with replaceable tips made of tempered steel
- black powder coated
- Pliers body: rolled steel, high-strength
- Tips: special tool steel, oil-hardened

### Style 1

DIN 5256 C, straight tips

### Style 2

DIN 5254 B; 90° angled tips

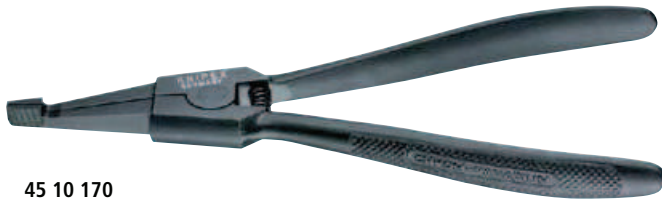
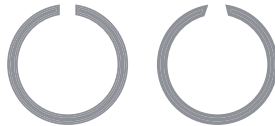
Article No.	EAN 4003773-	↔ mm		Style	Pliers	Size of bore Ø mm	g	
44 10 J5	024910	570		1	black powder-coated	122 - 300	1738	
44 10 J6	024927	580	○			252 - 400	1755	
44 20 J51	024958	590	○	2	black powder-coated	122 - 300	1803	
44 20 J61	024965	600	○			252 - 400	1723	
44 19 J5	024934	1 pair of spare tips 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	024989	1 pair of spare tips for 44 20 J61						

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## Special Retaining Ring Pliers

for retaining rings on shafts

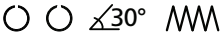
DIN ISO 5743



45 10 170



45 21 200



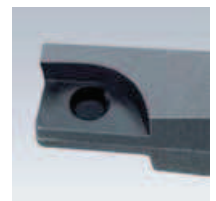
- for fitting horseshoe-shaped spring retaining rings and circlips without grip holes
- for shaft retaining devices
- with opening spring
- Chrome vanadium electric steel, forged, oil-hardened



45 10 170



45 21 200



45 21 200

### 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 securing cardan shafts in a motor vehicle; minimum ring split gap of the rings 2.2 mm

Article No.	EAN 4003773-	↔ mm		Pliers	Handles	g
45 10 170	017370	170	○	burnished		156
45 21 200	031208	200	○	burnished	plastic coated	186

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## Circlip Pliers

for large external circlips



46 10 A5



- for assembling circlips on shafts within the range of Ø 122 - 400 mm
- with locking device, can be released
- with replaceable tips made of tempered steel
- black powder coated
- Pliers body: rolled steel, high-strength
- Tips: special tool steel, oil-hardened

### Style 1

DIN 5254 A; straight tips

### Style 2

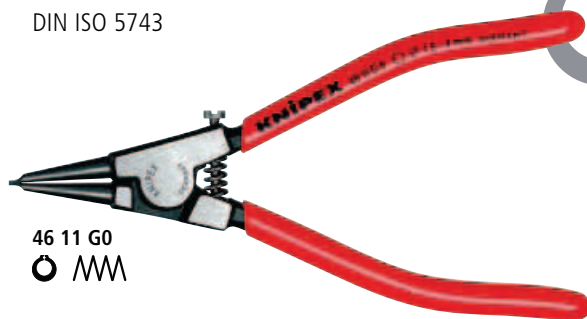
DIN 5254 B; 90° angled tips

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Size of shaft Ø mm	g
46 10 A5	024996	560		1	black powder-coated	122 - 300	1773
46 10 A6	025009	570	⊙			252 - 400	1795
46 20 A51	025023	570		2	black powder-coated	122 - 300	1832
46 20 A61	025030	580	⊙ 90°			252 - 400	1826
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					

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## Circlip Pliers for grip rings on shafts

DIN ISO 5743



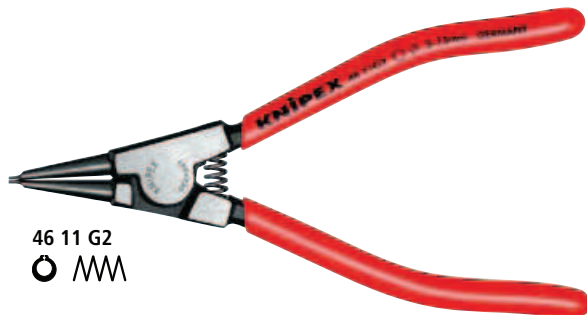
46 11 G0



- for fitting grip rings on shafts from 1.5 - 30 mm dia.
- with opening spring
- solid style, forged
- non-slip, solid tips
- Pliers body and tips: chrome vanadium steel, forged, oil-hardened

### 46 11 G0

for rings of 1.5 - 4.0 mm dia., with adjustable stop screw to prevent overstretching



46 11 G2



Article No.	EAN 4003773-	↔ mm		Pliers	Head	Handles	Size of shaft Ø mm	g
46 11 G0	047896	140	⊙	black atramentized	polished	plastic coated	1.5 - 4.0	87
46 11 G1	031062	140					4.0 - 7.0	85
46 11 G2	031079	140					5.0 - 13.0	85
46 11 G3	031086	140	⊙	black atramentized	polished	plastic coated	14.0 - 18.0	86
46 11 G4	031093	180					20.0 - 30.0	134

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## Precision Circlip Pliers

to assemble internal circlips into bores



48 11 J2



48 21 J21



### Style 1

DIN 5256 C, straight tips

### Style 2

DIN 5256 D; 90° angled tips

Pliers Sets,  
see page 193



Slim head shape



### Tiptop quality

Easy and reliable assembly: form-fitting inserted and pressed-in tips made of high-density spring steel offer a high level added resilience 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 bounce off.

### With inserted tips for reliable work

- heavy duty in continuous operation: up to 10 times longer service life compared to turned tips
- joint with screw: precise, zero backlash operation of pliers
- non-slip plastic coating on the handles
- Pliers body: chrome vanadium electric steel, forged, oil-hardened
- Inserted tips: spring steel wire, drawn

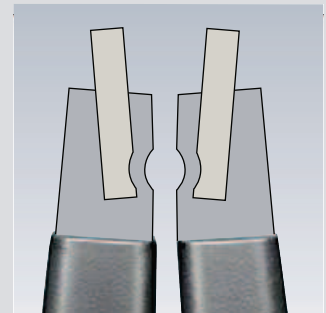
### Precision and durability

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

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Handles	Size of bore Ø mm	Tips Ø mm	⚖ g
48 11 J0	048510	140		1	grey atramentized	with non-slip plastic coating	8 - 13	0.90	105
48 11 J1	048527	140					12 - 25	1.25	105
48 11 J2	048534	180					19 - 60	1.80	175
48 11 J3	048541	225					40 - 100	2.25	266
48 11 J4	048558	320					85 - 140	3.20	580
48 21 J01	048619	130		2	grey atramentized	with non-slip plastic coating	8 - 13	0.90	105
48 21 J11	048633	130					12 - 25	1.25	105
48 21 J21	048640	165					19 - 60	1.80	175
48 21 J31	048657	210					40 - 100	2.25	265
48 21 J41	048664	305					85 - 140	3.20	576

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## Precision Circlip Pliers

to assemble external circlips on shafts



49 11 A2

Style 1  
 DIN 5254 A, straight tips



49 21 A21

Style 2  
 DIN 5254 B; 90° angled tips

### 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, easy fitting
- joint with screw: precise, zero backlash operation of pliers
- internal opening spring, protected and captive
- non-slip plastic coating on the handles
- Pliers body: chrome vanadium electric steel, forged, oil-hardened
- Inserted tips: spring steel wire, drawn

**49 31 A0 / Style 3**  
 with additional opening limiter (infinitely adjustable opening width); avoids overstretching of small external circlips; DIN 5254 A; straight tips

**49 41 A01 / Style 4**  
 with additional opening limiter (infinitely adjustable opening width); avoids overstretching of small external circlips; DIN 5254 B; 90° angled tips



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



Style 3 / style 4: with adjustable opening restriction

Pliers Sets,  
 see page 193



Bolted joint: high precision and smooth action



KNIPEX Precision Circlip Pliers: fit circlips without distortion; easy and quick assembling



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



Conventional Circlip Pliers: distortion of the circlip when widening the circlip

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Handles	Size of shaft Ø mm	Tips Ø mm	⚖ g
49 11 A0	048718	140		1	grey atramentized	with non-slip plastic coating	3 - 10	0.90	101
49 11 A1	048725	140					10 - 25	1.25	100
49 11 A2	048732	180					19 - 60	1.80	170
49 11 A3	048749	225					40 - 100	2.25	270
49 11 A4	048756	320					85 - 140	3.20	599
49 21 A01	048817	130		2	grey atramentized	with non-slip plastic coating	3 - 10	0.90	100
49 21 A11	048824	130					10 - 25	1.25	102
49 21 A21	048831	165					19 - 60	1.80	169
49 21 A31	048848	210					40 - 100	2.25	272
49 21 A41	048855	305					85 - 140	3.20	601
49 31 A0	061748	140		3	grey atramentized	with non-slip plastic coating	3 - 10	0.90	103
49 41 A01	061755	130		4	grey atramentized	with non-slip plastic coating	3 - 10	0.90	102