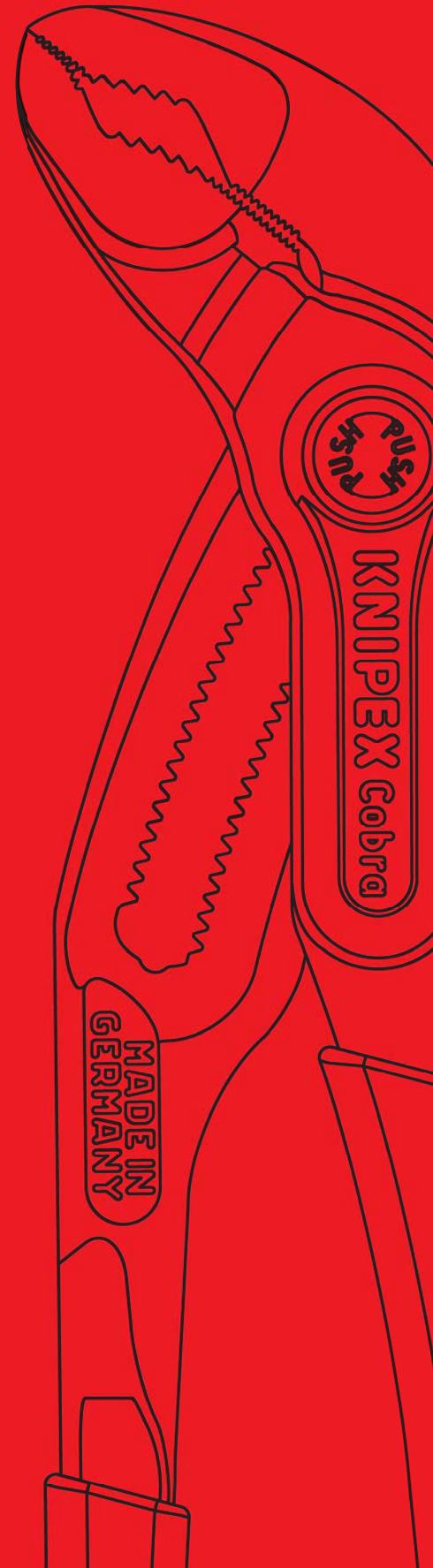


GENERAL CATALOGUE



Pliers

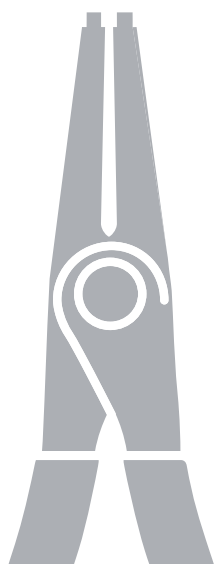
MADE IN GERMANY SINCE 1882



Circlip Pliers



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Circlip Pliers

to assemble internal circlips into bores

44

- > 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



44 11 J2



44 21 J21
90°



44 31 J22
45°

- Style 1**
DIN 5256 C, straight tips
- Style 2**
DIN 5256 D; 90° angled tips
- Style 3**
45° angled tips

Article No.	EAN	↔ mm		Style	Pliers	Head	Handles	Size of bore Ø mm	Tips Ø mm	⚖ g
44 11 J0	040286	140	☉	1	black atramentized	polished	plastic coated	8 - 13	0.9	88
44 11 J1	022862	140						12 - 25	1.3	88
44 11 J2	022879	180						19 - 60	1.8	135
44 11 J3	033943	225						40 - 100	2.3	196
44 11 J4	042549	320						85 - 140	3.2	469
44 13 J0	048176	140	☉	1	chrome plated	plastic coated	8 - 13	0.9	89	
44 13 J1	042938	140					12 - 25	1.3	88	
44 13 J2	042945	180					19 - 60	1.8	138	
44 13 J3	042952	225					40 - 100	2.3	194	
44 13 J4	017301	320					85 - 140	3.2	463	
44 21 J01	040132	130	☉ 90°	2	black atramentized	polished	plastic coated	8 - 13	0.9	88
44 21 J11	022886	130						12 - 25	1.3	88
44 21 J21	022893	170						19 - 60	1.8	139
44 21 J31	033769	215						40 - 100	2.3	196
44 21 J41	043683	300						85 - 140	3.2	462
44 23 J11	042969	130	☉ 90°	2	chrome plated	plastic coated	12 - 25	1.3	89	
44 23 J21	042976	170					19 - 60	1.8	138	
44 23 J31	042983	215					40 - 100	2.3	200	
44 31 J02	066941	140	☉ 45°	3	black atramentized	polished	plastic coated	8 - 13	0.9	90
44 31 J12	066958	140						12 - 25	1.3	90
44 31 J22	066965	180						19 - 60	1.8	140
44 31 J32	066972	225						40 - 100	2.3	195
44 31 J42	066989	310						85 - 140	3.2	465

Circlip Pliers

to assemble external circlips on shafts

46

- > 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



46 11 A2
 MM



46 21 A21
 MM



46 31 A22
 MM

- Style 1**
DIN 5254 A; straight tips
- Style 2**
DIN 5254 B; 90° angled tips
- Style 3**
45° angled tips

Article No.	EAN	↔ mm		Style	Pliers	Head	Handles	Size of shaft Ø mm	Tips Ø mm	⚖ g
46 11 A0	033950	140	○ MM	1	black atramentized	polished	plastic coated	3 - 10	0.9	85
46 11 A1	022909	140						10 - 25	1.3	86
46 11 A2	022916	180						19 - 60	1.8	134
46 11 A3	033974	210						40 - 100	2.3	220
46 11 A4	042532	320						85 - 140	3.2	505
46 13 A0	017417	140	○ MM	1	chrome plated		plastic coated	3 - 10	0.9	85
46 13 A1	042990	140						10 - 25	1.3	82
46 13 A2	043003	180						19 - 60	1.8	133
46 13 A3	043010	210						40 - 100	2.3	211
46 21 A01	033967	125	○ ∠90° MM	2	black atramentized	polished	plastic coated	3 - 10	0.9	85
46 21 A11	023005	125						10 - 25	1.3	85
46 21 A21	022923	170						19 - 60	1.8	132
46 21 A31	033981	200						40 - 100	2.3	219
46 21 A41	039365	300					85 - 140	3.2	510	
46 23 A01	017509	125	○ ∠90° MM	2	chrome plated		plastic coated	3 - 10	0.9	84
46 23 A11	043027	125						10 - 25	1.3	84
46 23 A21	043034	170						19 - 60	1.8	132
46 23 A31	043041	200						40 - 100	2.3	221
46 31 A02	066996	130	○ ∠45° MM	3	black atramentized	polished	plastic coated	3 - 10	0.9	83
46 31 A12	067009	130						10 - 25	1.3	85
46 31 A22	067016	185						19 - 60	1.8	133
46 31 A32	067023	210						40 - 100	2.3	213
46 31 A42	067030	310					85 - 140	3.2	511	

Precision Circlip Pliers

to assemble internal circlips into bores

DIN 5256

48

With inserted tips for reliable work

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

- > bolted joint: 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

Style 1

DIN 5256 C; straight tips

Style 2

DIN 5256 D; 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 bounce off.

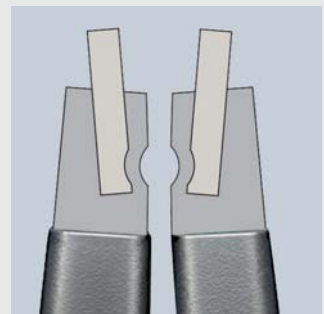


Precision and durability

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

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	0.9	105
48 11 J1	048527	140					12 - 25	1.3	105
48 11 J2	048534	180					19 - 60	1.8	175
48 11 J3	048541	225					40 - 100	2.3	266
48 11 J4	048558	320					85 - 140	3.2	580
48 21 J01	048619	130		2	grey atramentized	with non-slip plastic coating	8 - 13	0.9	105
48 21 J11	048633	130					12 - 25	1.3	105
48 21 J21	048640	165					19 - 60	1.8	175
48 21 J31	048657	210					40 - 100	2.3	265
48 21 J41	048664	305					85 - 140	3.2	576

Now also with overstretching limiter

For all circlips with a diameter of 8 - 100 mm

- > with overstretching limiter for standardized assembly according to DIN 472
- > the adjustable stop screw prevents overexpansion
- > adjustment using hexagonal screw
- > ideal for series production as excessive expansion of rings is effectively prevented

Style 3

DIN 5256 C, straight tips



Style 4

DIN 5256 D; 90° angled tips



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 overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and furthermore offer a superior durability.



Article No.	EAN 4003773-	↔ mm		Style	Pliers	Handles	Size of shaft Ø mm	Tips Ø mm	⚖ g
48 31 J0	079552	140	 	3	grey atramentized	with non-slip plastic coating	8 - 13	0.9	105
48 31 J1	073864	140					12 - 25	1.3	105
48 31 J2	073871	180					19 - 60	1.8	175
48 31 J3	073888	225					40 - 100	2,3	266
48 41 J01	079569	130	 $\angle 90^\circ$ 	4	grey atramentized	with non-slip plastic coating	8 - 13	0.9	105
48 41 J11	079576	130					12 - 25	1.3	105
48 41 J21	079640	165					19 - 60	1.8	175
48 41 J31	079590	210					40 - 100	2.3	265

Precision Circlip Pliers

to assemble external circlips on shafts

DIN 5254

49

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
- > bolted joint: 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 11 A2



49 21 A21

Style 1
 DIN 5254 A; straight tips

Style 2
 DIN 5254 B; 90° angled tips

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 bounce off.



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



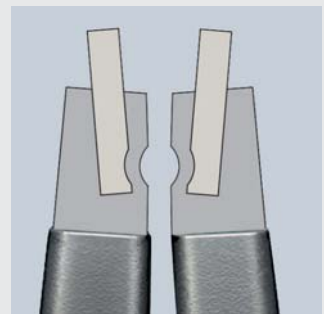
KNIPEX-Precision Circlip Pliers: fit circlips without distortion; easy and quick assembling

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 shaft Ø mm	Tips Ø mm	⚖ g
49 11 A0	048718	140		1	grey atramentized	with non-slip plastic coating	3 - 10	0.9	101
49 11 A1	048725	140					10 - 25	1.3	100
49 11 A2	048732	180					19 - 60	1.8	170
49 11 A3	048749	225					40 - 100	2.3	270
49 11 A4	048756	320					85 - 140	3.2	599
49 21 A01	048817	130		2	grey atramentized	with non-slip plastic coating	3 - 10	0.9	100
49 21 A11	048824	130					10 - 25	1.3	102
49 21 A21	048831	165					19 - 60	1.8	169
49 21 A31	048848	210					40 - 100	2.3	272
49 21 A41	048855	305					85 - 140	3.2	601

Now also with overstretching limiter

For all circlips with a diameter of 8 - 100 mm

- > with overstretching limiter for standardized assembly according to DIN 471
- > the adjustable stop screw prevents overexpansion
- > adjustment using hexagonal screw
- > ideal for series production as excessive expansion of rings is effectively prevented

Style 3

DIN 5254 A; straight tips;

Style 4

DIN 5254 B; 90° angled tips



49 31 A0
   MM



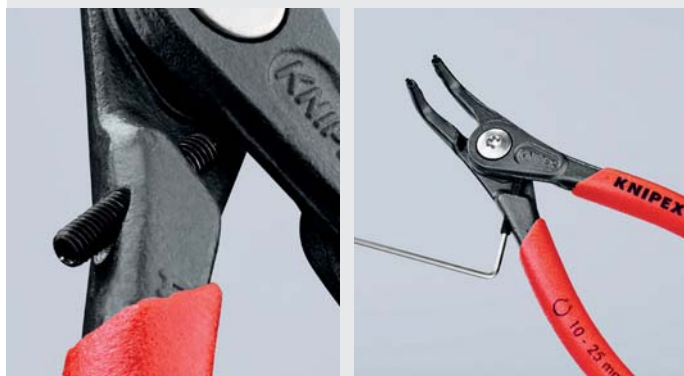
49 31 A2
   MM









49 41 A11
 $\angle 90^\circ$   MM

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 overexpansion guard or a cone. KNIPEX Circlip Pliers with overexpansion guard meet the requirements and furthermore offer a superior durability.



Article No.	EAN 4003773-	↔ mm		Style	Pliers	Handles	Size of shaft Ø mm	Tips Ø mm	g
49 31 A0	061748	140	   MM	3	grey atramentized	with non-slip plastic coating	3 - 10	0.9	103
49 31 A1	073895	140					10 - 25	1.3	100
49 31 A2	073901	180					19 - 60	1.8	170
49 31 A3	073918	225					40 - 100	2.3	270
49 41 A01	061755	130	 $\angle 90^\circ$   MM	4	grey atramentized	with non-slip plastic coating	3 - 10	0.9	102
49 41 A11	079606	130					10 - 25	1.3	102
49 41 A21	079613	165					19 - 60	1.8	169
49 41 A31	079620	210					40 - 100	2.3	272

Circlip Pliers

for large internal circlips

44

- > 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 5256 D; 90° angled tips



44 10 J6



44 20 J61
90°

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Size of bore Ø mm	Tips Ø mm	⚖ g
44 10 J5	024910	570	☉	1	black powder-coated	122 - 300	3.5	1738
44 10 J6	024927	580				252 - 400	4.5	1755
44 20 J51	024958	590	☉ 90°	2	black powder-coated	122 - 300	3.5	1803
44 20 J61	024965	600				252 - 400	4.5	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						

Circlip Pliers

for large external circlips

46

- > 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



46 10 A5



46 20 A61
90°

Article No.	EAN 4003773-	↔ mm		Style	Pliers	Size of shaft Ø mm	Tips Ø mm	⚖ g
46 10 A5	024996	560	☉	1	black powder-coated	122 - 300	3.5	1773
46 10 A6	025009	570				252 - 400	4.5	1795
46 20 A51	025023	570	☉ 90°	2	black powder-coated	122 - 300	3.5	1832
46 20 A61	025030	580				252 - 400	4.5	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						

Circlip Tool

for large internal and external circlips up to 1000 mm

46

- > universally usable for large circlips with diameters of 400 - 1000 mm
- > reliable opening and closing of the circlips and holding by self-locking precision spindle drive
- > for fitting and removing circlips
- > circlips are reliably caught thanks to short, direct attachment
- > replaceable tips having working ends with diameters of 6 and 9 mm, for perfect adaption to the handling bores in the circlips
- > optional operation by hand, with Allen key, ratchet wrench or cordless screwdriver
- > areas of application are heavy engines where very high forces and torques are transmitted with large shafts and bearings, e.g. wind turbines, tidal power stations, generator construction, hydropower stations, large machine construction (rolling mills, presses), shipbuilding, aerospace
- > tool in a plastic case with foam insert
- > tip material: chrome-vanadium electric steel



46 10 100



Manually operable



Machine operable



Replaceable inserts for internal and external circlips



Article No.	EAN		Size of bore Ø mm	Size of shaft Ø mm	g
46 10 100	075417	⊙ ⊙	400 - 1000	400 - 1000	2200

Special Retaining Ring Pliers

for retaining rings on shafts

DIN ISO 5743

45

> 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
 MM



45 21 200
 $\angle 30^\circ$ MM

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



45 10 170



45 21 200



45 21 200

Article No.	EAN 4003773-	↔ mm		Pliers	Handles	⚖ g
45 10 170	017370	170	MM	burnished		156
45 21 200	031208	200	$\angle 30^\circ$ MM	burnished	plastic coated	186

Circlip Pliers

for grip rings on shafts

DIN ISO 5743

46

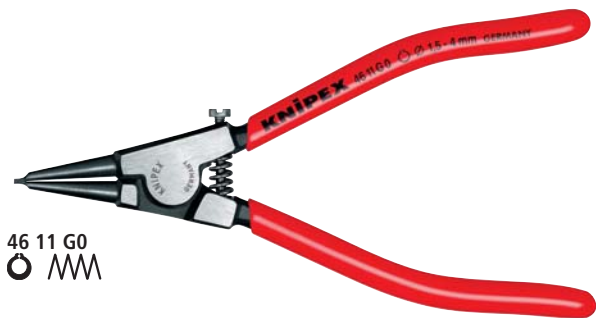
> for fitting grip rings on shafts from 1.5 - 30 mm dia.

> with opening spring

> solid style, forged

> non-slip, solid tips

> pliers body and tips: chrome vanadium electric steel, forged, oil-hardened



46 11 G0
 MM



46 11 G2
 MM

46 11 G0

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

Article No.	EAN 4003773-	↔ mm		Pliers	Head	Handles	Size of shaft Ø mm	Tips Ø mm	⚖ g
46 11 G0	047896	140	MM	black atramentized	polished	plastic coated	1.5 - 4.0	0.9	87
46 11 G1	031062	140	MM	black atramentized	polished	plastic coated	4.0 - 7.0	1.3	85
46 11 G2	031079	140					5.0 - 13.0	1.8	85
46 11 G3	031086	140					14.0 - 18.0	2.3	86
46 11 G4	031093	180					20.0 - 30.0	3.2	134

Circlip Pliers Sets

4 parts

00
19

- > tool roll made of hard-wearing polyester fabric
- > with practical, adjustable quickrelease fastener



00 19 56
⊙ ⊙



00 19 57
⊙ ⊙

00 19 56

four common Circlip Pliers for internal and external circlips

00 19 57

four common Precision Circlip Pliers for highest requirements

Article No.	EAN			Style	Capacity Ø mm	Tips Ø mm	Quantity	g
00 19 56	4003773-030973		Circlip Pliers Set 4 parts					670
		⊙	44 11 J2	Circlip Pliers for internal circlips into bores	straight tips	19 - 60	1.8	1
		⊙ ∠90°	44 21 J21		angled tips	19 - 60	1.8	1
		⊙ MM	46 11 A2	Circlip Pliers for external circlips on shafts	straight tips	19 - 60	1.8	1
		⊙ ∠90° MM	46 21 A21		angled tips	19 - 60	1.8	1
00 19 57	050056		Precision Circlip Pliers Set 4 parts					665
		⊙	48 11 J1	Precision Circlip Pliers for internal circlips into bores	straight tips	12 - 25	1.3	1
		⊙	48 11 J2			19 - 60	1.8	1
		⊙	49 11 A1	Precision Circlip Pliers for external circlips on shafts		10 - 25	1.3	1
		⊙ MM	49 11 A2			19 - 60	1.8	1

Sets of pliers

in a foam tray

00
20

- > in a foam tray for workbenches and tool trolleys
- > clearly organised storage of tools
- > precisely-sized recesses for holding the pliers
- > foam tray dimensions (L x W x H): 335 x 165 x 33 mm
- > Material: two colour, closed pore foam



00 20 01 V02



00 20 01 V09

Article No.	EAN					Quantity	g
00 20 01 V02	069652		Circlip Pliers Set "SRZ" Six precision circlip pliers in a foam tray				915
		⊙	48 11 J1	Precision Circlip Pliers for internal circlips into bores		1	
		⊙	48 11 J2			1	
		⊙ ∠90°	48 21 J21			1	
		⊙ MM	49 11 A1	Precision Circlip Pliers for external circlips on shafts		1	
		⊙	49 11 A2			1	
		⊙ MM ∠90°	49 21 A21			1	
00 20 01 V09	073291		Circlip Pliers Set "SRZ II" Four precision circlip pliers in a foam tray				820
		⊙	48 11 J2	Precision Circlip Pliers, for internal circlips in bore holes		1	
		⊙ ∠90°	48 21 J21			1	
		⊙ MM	49 11 A2	Precision Circlip Pliers, for external circlips on shafts		1	
		⊙ MM ∠90°	49 21 A21			1	

Precision Circlip Pliers Sets

00
20

- > attractive sales packaging with Euro standard perforation
- > contains common Precision Circlip Pliers for highest requirements
- > sturdy plastic packaging, also suitable for storage of the pliers



00 20 03 SB
⊙ ⊙



00 20 04 SB
⊙ ⊙

Article No.	EAN 4003773-			Style	Capacity Ø mm	Tips Ø mm	Quantity	g
00 20 03 SB	050100		Precision Circlip Pliers Set					685
		⊙ ⊙	48 11 J1 Precision Circlip Pliers for internal circlips into bores	straight tips	12 - 25	1.3	1	
			48 11 J2		19 - 60	1.8	1	
		⊙ ⊙ MM	49 11 A1 Precision Circlip Pliers for external circlips on shafts		10 - 25	1.3	1	
			49 11 A2		19 - 60	1.8	1	
00 20 04 SB	062417		Precision Circlip Pliers Set					1275
		⊙ ⊙	48 11 J1 Precision Circlip Pliers for internal circlips into bores	straight tips	12 - 25	1.3	1	
			48 11 J2		19 - 60	1.8	1	
		⊙ ⊙ MM	49 11 A1 Precision Circlip Pliers for external circlips on shafts		10 - 25	1.3	1	
			49 11 A2		19 - 60	1.8	1	
		⊙ ⊙ ∠90°	48 21 J11 Precision Circlip Pliers for internal circlips into bores	angled tips	12 - 25	1.3	1	
			48 21 J21		19 - 60	1.8	1	
		⊙ ⊙ MM ∠90°	49 21 A11 Precision Circlip Pliers for external circlips on shafts		12 - 25	1.3	1	
			49 21 A21		19 - 60	1.8	1	

Precision Circlip Pliers Set

00
21

- > high quality, shock-resistant plastic case
- > contains common Precision Circlip Pliers for highest requirements
- > precisely-sized recesses for holding the pliers
- > clearly organised storage of tools
- > dimensions, (W x H x D): 260 x 80 x 210 mm

00 21 25
⊙ ⊙



Article No.	EAN 4003773-			Style	Capacity Ø mm	Tips Ø mm	Quantity	g
00 21 25	050131		Precision-Circlip Pliers Set					1635
		⊙ ⊙	48 11 J1 Precision Circlip Pliers for internal circlips into bores	straight tips	12 - 25	1.3	1	
			48 11 J2		19 - 60	1.8	1	
		⊙ ⊙ MM	49 11 A1 Precision Circlip Pliers for external circlips on shafts		10 - 25	1.3	1	
			49 11 A2		19 - 60	1.8	1	
		⊙ ⊙ ∠90°	48 21 J11 Precision Circlip Pliers for internal circlips into bores	angled tips	12 - 25	1.3	1	
			48 21 J21		19 - 60	1.8	1	
		⊙ ⊙ MM ∠90°	49 21 A11 Precision Circlip Pliers for external circlips on shafts		10 - 25	1.3	1	
			49 21 A21		19 - 60	1.8	1	

Circlip Pliers Sets

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- > attractive sales packaging with Euro standard perforation
- > contains common Circlip Pliers for highest requirements
- > sturdy plastic packaging, also suitable for storage of the pliers



00 20 04 V01
○ ○



00 20 03 V02
○ ○

Article No.	EAN 4003773-			Style	Capacity Ø mm	Tips Ø mm	Quantity	△ g
00 20 03 V02	077640		Circlip Pliers Set					450
		○	44 11 J1 44 11 J2	straight tips	12 - 25	1.3	1	
			Circlip Pliers for internal circlips into bores		19 - 60	1.8	1	
		○	46 11 A1 46 11 A2		10 - 25	1.3	1	
			Circlip Pliers for external circlips on shafts		19 - 60	1.8	1	
00 20 04 V01	077633		Circlip Pliers Set					890
		○	44 11 J1 44 11 J2	straight tips	12 - 25	1.3	1	
			Circlip Pliers for internal circlips into bores		19 - 60	1.8	1	
		○	46 11 A1 46 11 A2		10 - 25	1.3	1	
			Circlip Pliers for external circlips on shafts		19 - 60	1.8	1	
		○ ∠90°	44 21 J11 44 21 J21	angled tips	12 - 25	1.3	1	
			Circlip Pliers for internal circlips into bores		19 - 60	1.8	1	
		○ ∠90°	46 21 A11 46 21 A21		10 - 25	1.3	1	
			Circlip Pliers for external circlips on shafts		19 - 60	1.8	1	





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