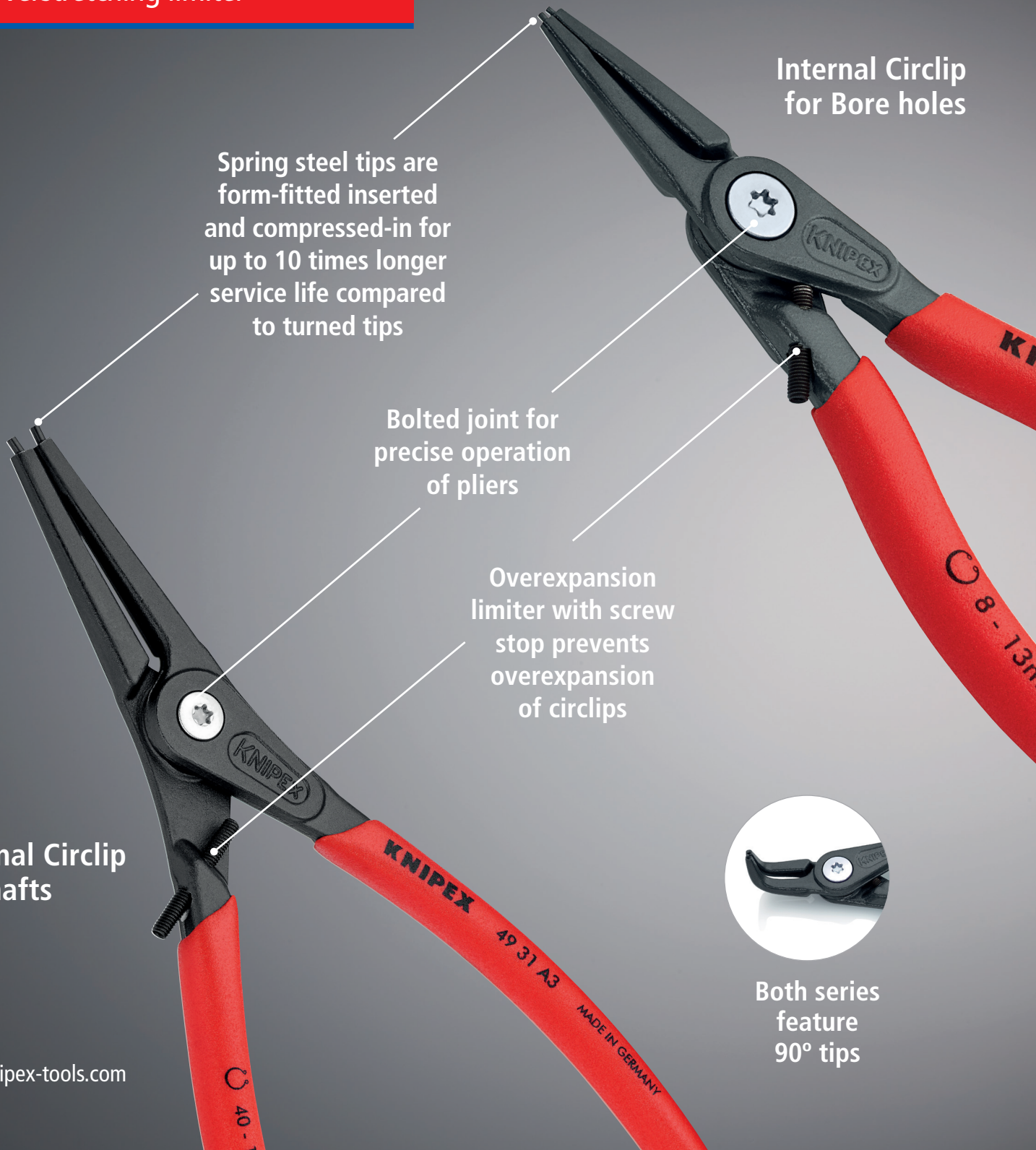


Precision Circlip Pliers with overstretching limiter



Internal Circlip
for Bore holes

Spring steel tips are
form-fitted inserted
and compressed-in for
up to 10 times longer
service life compared
to turned tips

Bolted joint for
precise operation
of pliers

Overexpansion
limiter with screw
stop prevents
overexpansion
of circlips

External Circlip
for shafts



Both series
feature
90° tips

Precision Circlip Pliers

48/49

▶ Overexpansion limiter with screw stop prevents overexpansion of circlips

▶ Spring steel tips are form-fitted inserted and compressed-in for up to 10 times longer service life compared to turned tips

- > Bolted joint - precise and zero-backlash operation of pliers
- > External precision circlips have a spring inside the joint – prevents spring from getting dirty or lost
- > Precision tips fit circlips without distortion
- > Conventional circlip pliers tend to distort circlips
- > German chrome vanadium electric steel

Internal



48 31 J0



Both series feature 90° tips

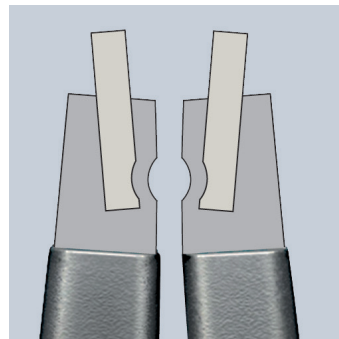
External



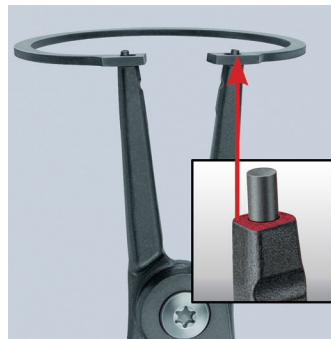
49 31 A0



External precision circlips have a spring inside the joint – prevents spring from getting dirty or lost



Spring steel tips are inserted with a tight fit through compression - 30% more stable than conventional pliers



Precision circlip tips fit circlips without distortion



Overstretching limiter with screw stop prevents overexpansion of circlips

Part Number	Carded Packaging	Handles	Size of bore (Inches)	Size of bore (mm)	Size of shaft (Inches)	Size of shaft (mm)	Tip size (Inches)	Tip size (mm)
48 31 J0	n	non slip plastic coating	5/16 to 33/64	8 to 13	-	-	3/64	0.90
48 31 J1	n	non slip plastic coating	15/32 to 63/64	12 to 25	-	-	3/64	1.30
48 31 J2	n	non slip plastic coating	3/4 to 2 23/64	19 to 60	-	-	5/64	1.80
48 31 J3	n	non slip plastic coating	1 37/64 to 3 15/16	40 to 100	-	-	3/32	2.30
48 41 J01 (90° tips)	n	non slip plastic coating	5/16 to 33/64	8 to 13	-	-	3/64	0.90
48 41 J11 (90° tips)	n	non slip plastic coating	15/32 to 63/64	12 to 25	-	-	3/64	1.30
48 41 J21 (90° tips)	n	non slip plastic coating	3/4 to 2 23/64	19 to 60	-	-	5/64	1.80
48 41 J31 (90° tips)	n	non slip plastic coating	1 37/64 to 3 15/16	40 to 100	-	-	3/32	2.30
49 31 A0	n	non slip plastic coating	-	-	1/8 to 25/64	3 to 10	3/64	0.90
49 31 A1	n	non slip plastic coating	-	-	25/64 to 63/64	10 to 25	3/64	1.30
49 31 A2	n	non slip plastic coating	-	-	3/4 to 2 23/64	19 to 60	5/64	1.80
49 31 A3	n	non slip plastic coating	-	-	1 37/64 to 3 15/16	40 to 100	3/32	2.30
49 41 A01 (90° tips)	n	non slip plastic coating	-	-	1/8 to 25/64	3 to 10	3/64	0.90
49 41 A11 (90° tips)	n	non slip plastic coating	-	-	25/64 to 63/64	10 to 25	3/64	1.30
49 41 A21 (90° tips)	n	non slip plastic coating	-	-	3/4 to 2 23/64	19 to 60	5/64	1.80
49 41 A31 (90° tips)	n	non slip plastic coating	-	-	1 37/64 to 3 15/16	40 to 100	3/32	2.30