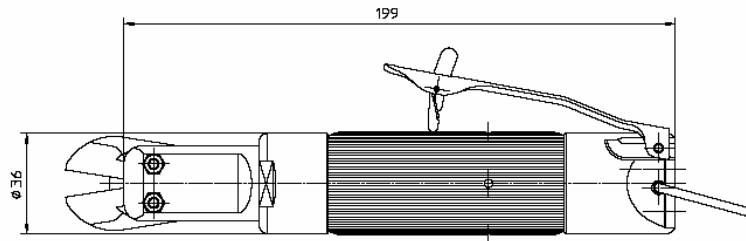


Pneumatic pincers

- Cutting pincers
 - Pneumatic pincers for processing hose clips of every kind
 - Pressing and squeezing pincers
 - Sealing pincers
 - Assembly pincers for retaining ring
 - Special pincers

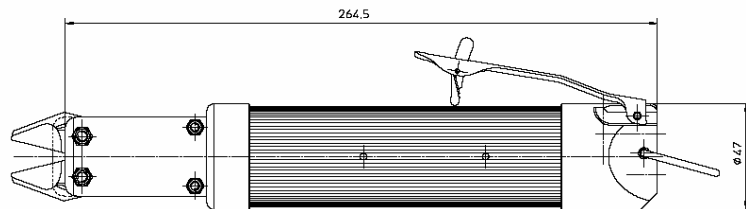
Cutting pincers

- Pneumatic pincer DZ-281-2-S (2 pistons) (fig.)
- Pneumatic pincer DZ-281-3-S (3 pistons)



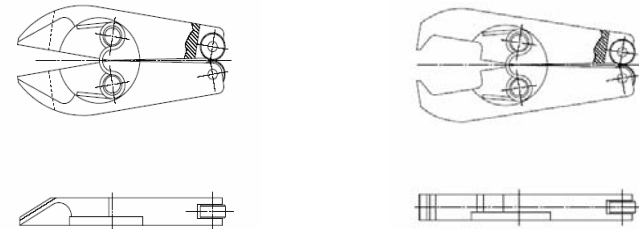
pincer body: length 199 mm
diameter $\varnothing 36$ mm

- Pneumatic pincer DZ-381-2-S (2 pistons)
- Pneumatic pincer DZ-381-3-S (3 pistons) (fig.)

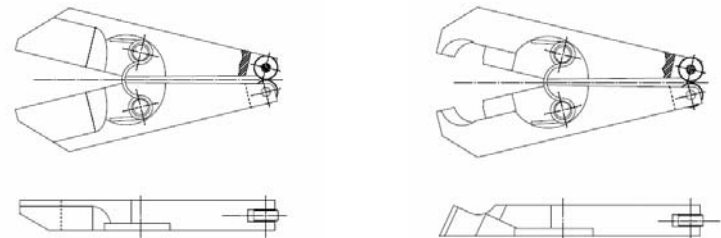


pincer body: length 264.5 mm
diameter $\varnothing 47$ mm

- Pincer jaws:
ES-280 (30° cutting angle) (fig. left)
ES-281 (straight line cutting)
ES-283 (front cutting) (fig. right)

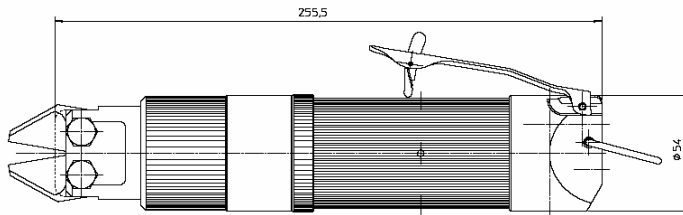


- Pincer jaws:
ES-370 (25° cutting angle)
ES-371 (straight line cutting) (fig. left)
ES-372 (65° developed angle) (fig. right)

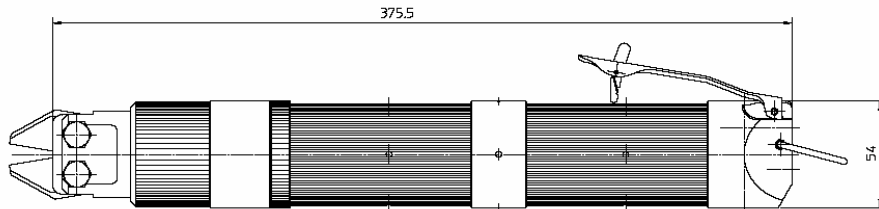


Cutting pincers

- Pneumatic pincer DZ-451-2-S (2 pistons) (fig. above)
- Pneumatic pincer DZ-451-3-SV (3 pistons)
- Pneumatic pincer DZ-451-4-SV (4 pistons) (fig. below)
- Pneumatic pincer DZ-451-5-SV (5 pistons)

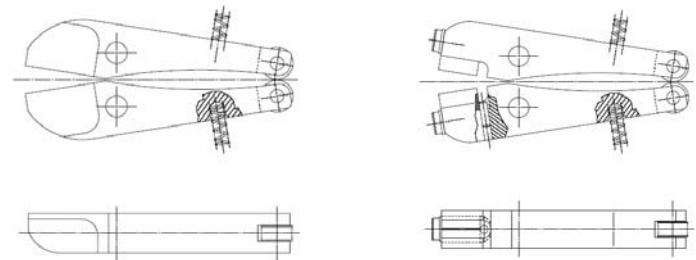


pincer body: length 255.5 mm
diameter Ø54 mm



pincer body: length 375.5 mm
diameter Ø54 mm

- **Pincer jaws:**
E-120 (30° cutting angle) (see DZ-12)
E-121 (straight line cutting) (fig. left)
E-123 (front cutting)
E-172 (55° edge angle)
E-251 (straight line cutting added)
E-421 (straight line cutting central)
E-463 (straight centric cut with exchangeable triangular-cutting dies) (fig. right)



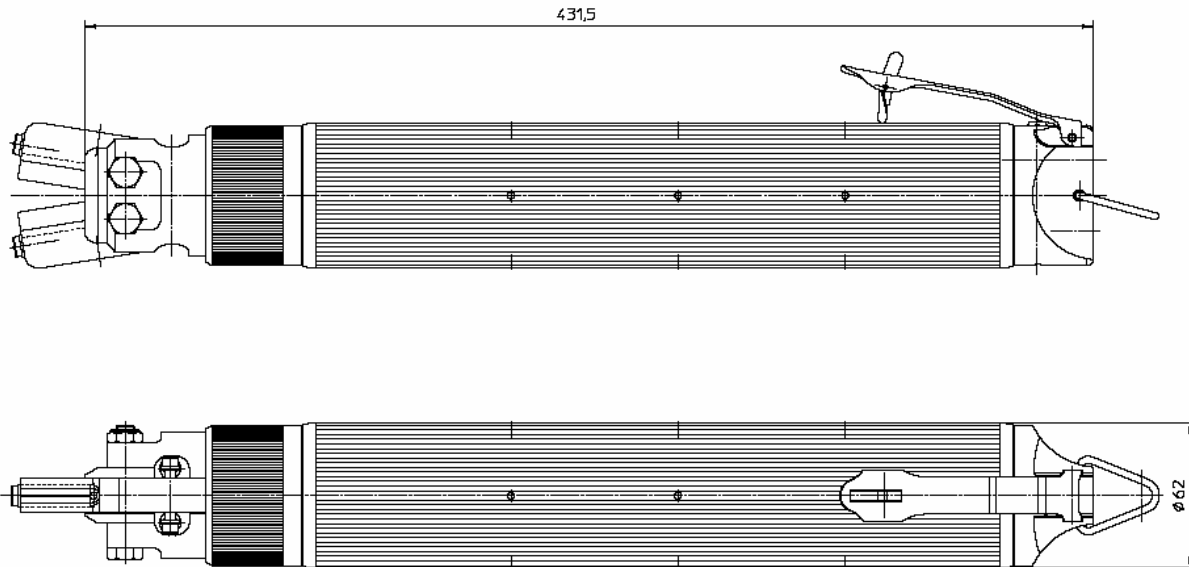
- Many pincer jaws are, dependent on the material to be cut, deliverable with different sharpened blade geometries.

- Diverse pincer jaws are also deliverable with longer blades.

- Cutting pincer jaws are also deliverable according to customers' special Requirements.

Cutting pincers

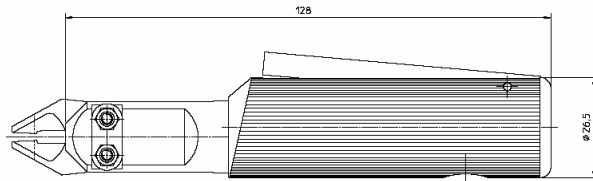
- Pneumatic pincer DZ-541-3
- Pneumatic pincer DZ-541-4-S (*fig.*)
- Pneumatic pincer DZ -541-5



pincer body: length 431,5 mm
diameter $\phi 62$ mm

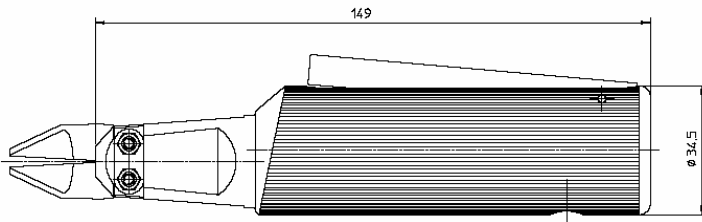
Cutting pincers

- Pneumatic pincer DZ-5 (fig.)



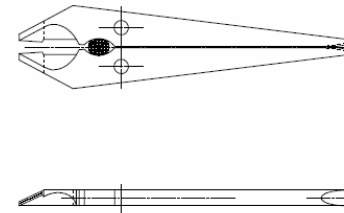
pincer body: length 128 mm
diameter \varnothing 26.5 mm

- Pneumatic pincer DZ-6 (fig.)

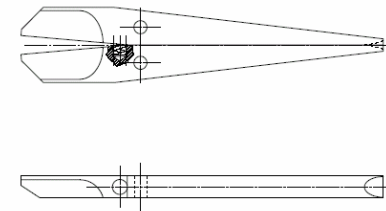


pincer body: length 149 mm
diameter \varnothing 34.5 mm

- Pincer jaws:
E-50 (25° cutting angle) (fig.)
E-51 (straight line cutting)
E-52 (60° cutting angle and crimper)

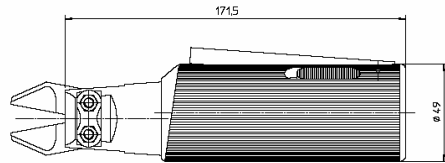


- Pincer jaws:
E-60 (21° cutting angle)
E-61 (straight line cutting) (fig.)
(E-62 (45° cutting angle and crimper)

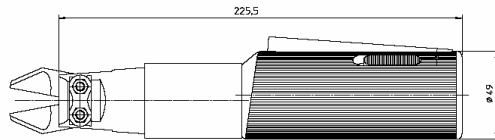


Cutting pincers

- Pneumatic pincer DZ-7 (1 piston) *(fig. above)*
- Pneumatic pincer DZ-7-D (2 pistons) *(fig. below)*

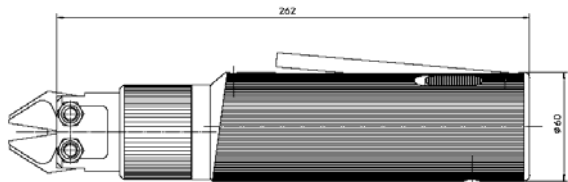


pincer body: length 171.5 mm
diameter $\phi 49$ mm



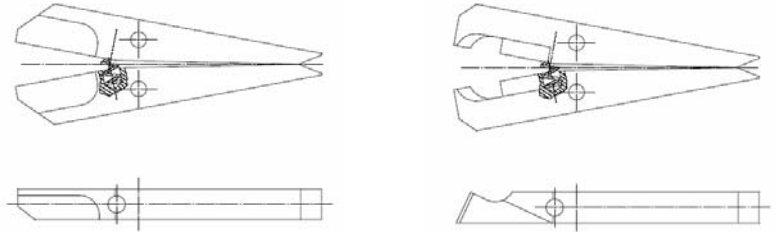
pincer body: length 225.5 mm
diameter $\phi 49$ mm

- Pneumatic pincer DZ-12

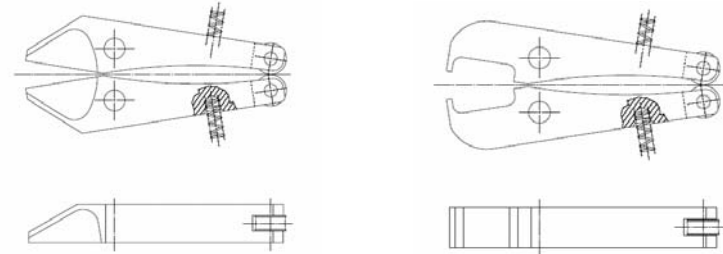


pincer body: length 262 mm
diameter $\phi 60$ mm

- Pincer jaws:
E-70 (25° cutting angle)
E-71 (straight line cutting) *(fig. left)*
E-72 (65° cutting angle) *(fig. right)*

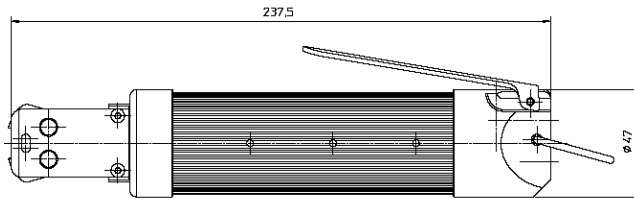


- Pincer jaws:
E-120 (30° cutting angle) *(fig. left)*
E-121 (straight line cutting)
E-123 (front cutting) *(fig. right)*
E-172 (55° edge angle)



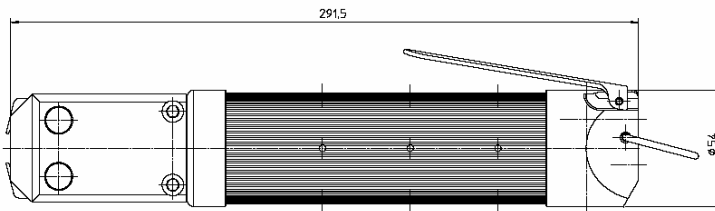
Pneumatic pincers for processing hose clips of every kind

- Pneumatic pincer DZ-381-2 (2 pistons)
- Pneumatic pincer DZ-381-3 (3 pistons)
- Pneumatic pincer DZ-381-4 (4 pistons) (fig.)
- Pneumatic pincer DZ-381-5 (5 pistons)



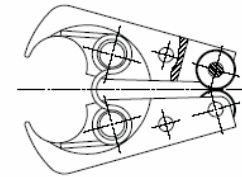
pincer body: length 237.5 mm
diameter 47 mm

- Pneumatic pincer DZ-451-4-10R (4 pistons) (fig.)
- Pneumatic pincer DZ-451-5-10R (5 pistons)
- Pneumatic pincer DZ-451-6-10R (6 pistons)
- Pneumatic pincer DZ-451-7-10R (7 pistons)

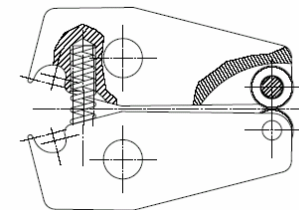


pincer body: length 291.5 mm
diameter 54 mm

- Pincer jaws:
ES-38-5,5R (for pipe clip width till 5,5 mm)
ES-38-7,5R (for pipe clip width till 7,5 mm)
ES-38-10R (for pipe clip width till 10,0 mm) (fig.)



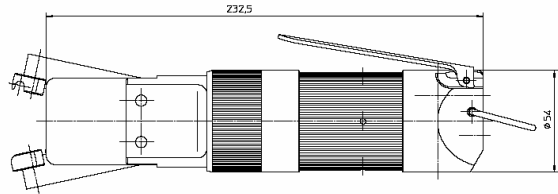
- Pincer jaws:
ES-47-10R (for pipe clip width till 10,0 mm) (fig.)
ES-47-13R ((for pipe clip width till 13,0 mm)



- All clips, from the smallest up to the biggest clip, from a galvanized steelband until the (VA execution) stainless steel models can be processed with our pneumatic pincers.

Pneumatic pincers for processing hose clips of every kind

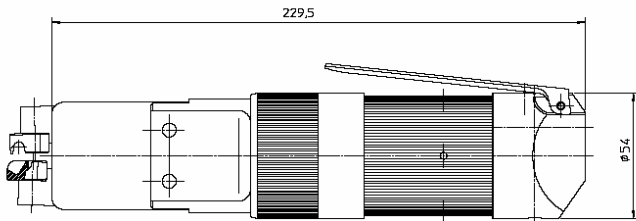
- Pneumatic pincer DZ-451-FS



pincer body: length 232.5 mm
diameter 54 mm

- Pneumatic pincer for feather volume clips, compl. with an adjustable jaw opening.

- Pneumatic pincer DZR-45-FS



pincer body: length 229.5 mm
diameter 54 mm

- Pneumatic pincer for feather volume clips, compl. with an adjustable opening distance - pincer jaws open at activity of the control lever (at all other pneumatic pincers the jaws close at activity of the control lever).

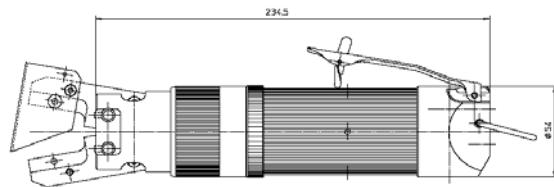
- Many different pincer jaws and -heads for the most different applications are deliverable from factory stock.

- The pincer strength is to be selected according to the size, the material and the strength of the tube clips. Due to our long-standing experiences we are able to give you competent advice.

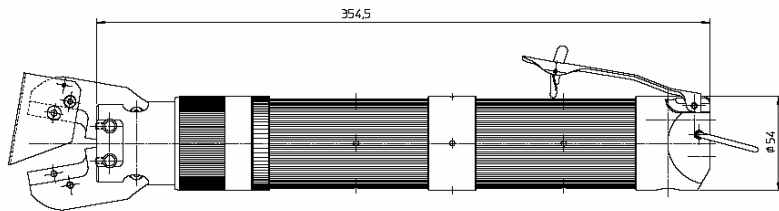
- Hose-, wire-, earless-, 1 + 2 ear clips and Feather volume clips of all brands (e.g. Oetiker, Norma- COBRA, Muhr & Bender, Caillau-Clic etc.) can be processed with our different pincer jaws.

Pressing- and crimp pincer

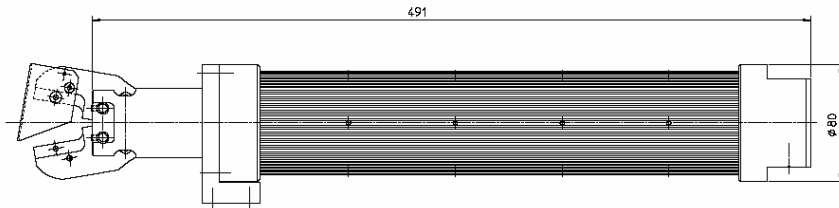
- Pneumatic pincer DZ-451-2-Q (2 pistons) (fig. above)
- Pneumatic pincer DZ-451-3-QST (3 pistons)
- Pneumatic pincer DZ-451-4-QST (4 pistons) (fig. center)
- Pneumatic pincer DZ-63-5-Q (fig. below)



pincer body: length 234,5 mm
diameter 54 mm



pincer body: length 354,5 mm
diameter 54 mm

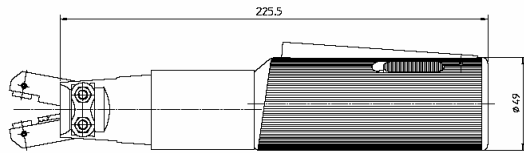


pincer body: length 491 mm
diameter 80 mm

- **Pincer jaws:**
ES-48.01 pincer jaws for exchangeable pressing dies
- **pressing dies for:**
cable and sleeve 0,4 - 2,5 mm²
cable and sleeve 0,25 - 6,0 mm²
cable and sleeve 7,0 - 16,0 mm²
cable and sleeve 25,0 + 35,0 mm²
cable and sleeve 25,0 + 50,0 mm²
6-Kant-Pressing 0,6 - 1,0 mm²
BNC-connector + cable
insulated press terminals
non-insulated duct terminals
non-insulated crimp terminals
non-insulated flat connections
non-insulated angle flat connections
one-point pressing
twin-point pressing

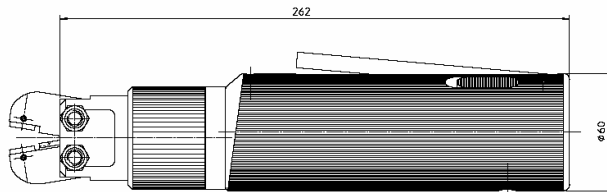
Sealing pincers

- Pneumatic pincer DZ-7-D with pincer jaw E-78



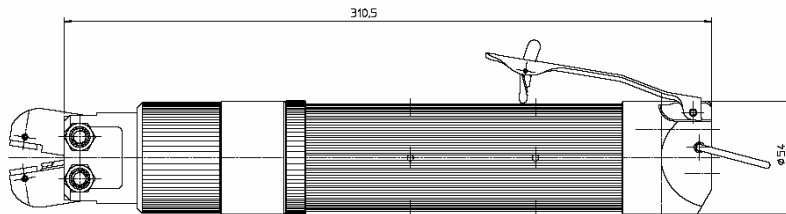
pincer body: length 225.5 mm
diameter $\varnothing 49$ mm

- Pneumatic pincer DZ-12 with pincer jaw E-128



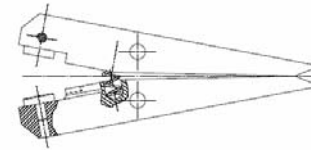
pincer body: length 262 mm
diameter $\varnothing 60$ mm

- Pneumatic pincer DZ-451-3-S with pincer jaw E-128

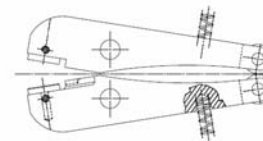


pincer body: length 310.5 mm
diameter $\varnothing 54$ mm

- Pincer jaw E-78

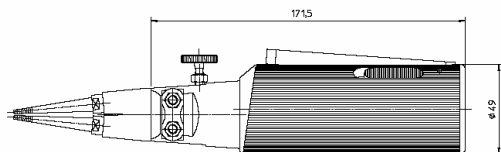


- Pincer jaw E-128



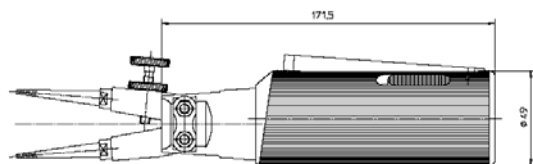
Assembly pincers for retaining ring

- Pneumatic pincer DZ-7-AS (for retaining rings external)

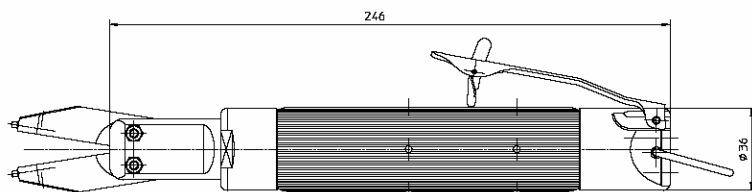


pincer body: length 171.5 mm
diameter 49 mm

- Pneumatic pincer DZ-7-IS (for retaining rings inside) (fig. above)
- Pneumatic pincer DZ-281-3-S (for retaining rings inside) (fig. below)

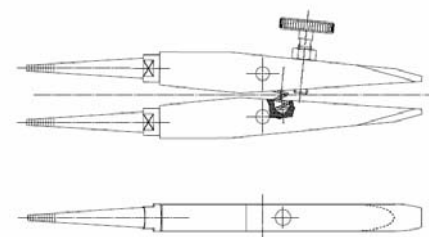


pincer body: length 171.5 mm
diameter 49 mm

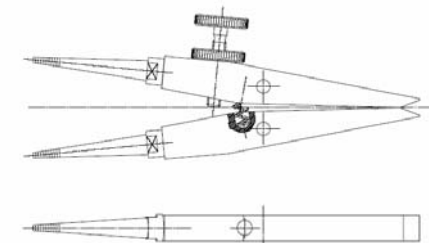


pincer body: length 246 mm
diameter 36 mm

- Pincer jaw E-74-A



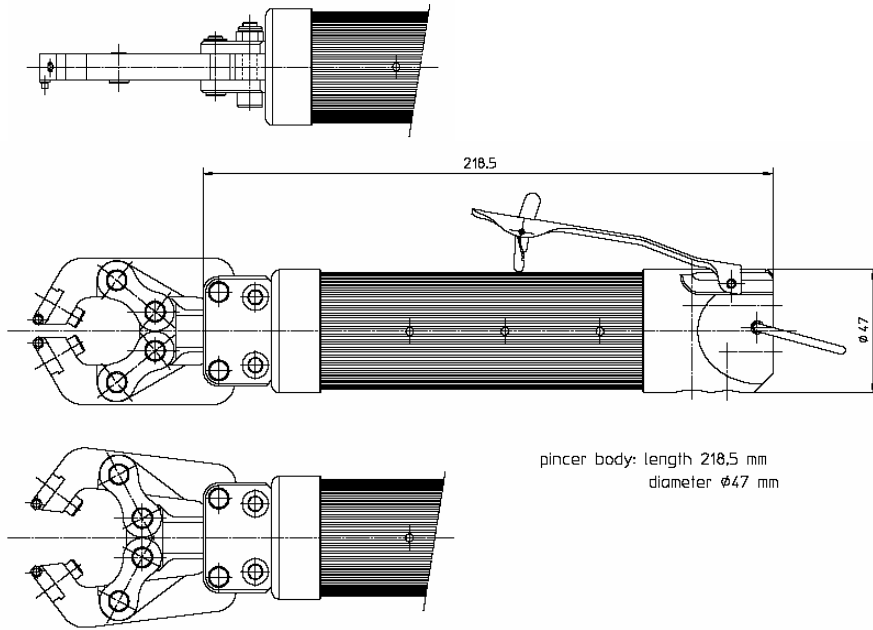
- Pincer jaw E-74-I



Assembly pincers for retaining ring

- Pneumatic pincer DZ-382-4-R (for retaining rings external)

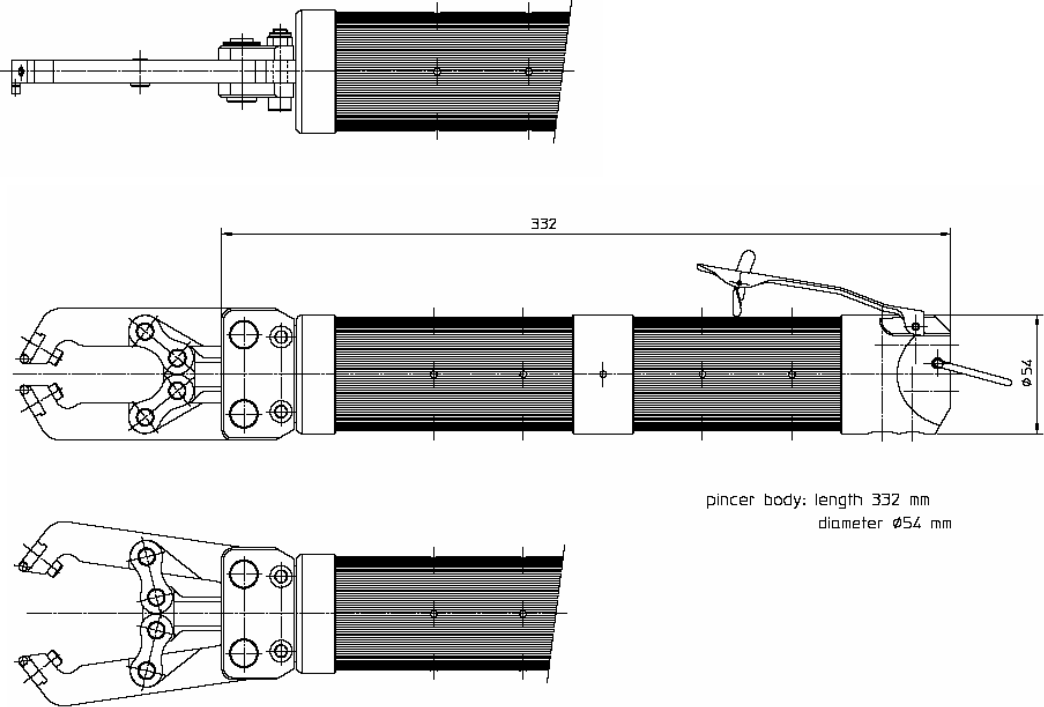
- Special pincer jaw



- Pneumatic pincer DZ-451-2- (2 pistons)
- Pneumatic pincer DZ-451-3- (3 pistons)
- Pneumatic pincer DZ-451-4- (4 pistons)
- Pneumatic pincer DZ-451-5- (5 pistons)

Assembly pincers for retaining ring

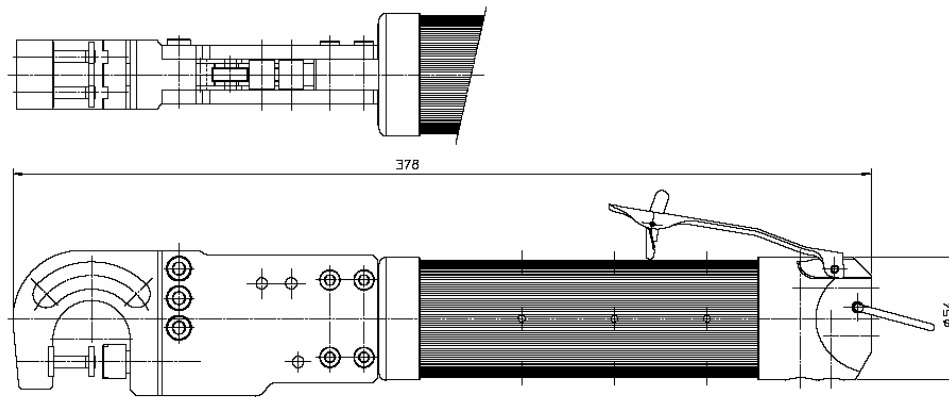
- Pneumatic pincer DZ-452-6-R (6 pistons) (for retaining rings external)



pincer body: length 332 mm
diameter $\phi 54$ mm

Pneumatic special pincers

- Special pneumatic pincer
Pneumatic pincers with electronic supervision and strength sensor + way query; additional end judging electronics for the pneumatic pincer types DZ-38 and DZ-45
- Pneumatic pincers to insert and sliding on special fuel tubes
- Pneumatic pincers for putting up chain locks (*fig.*)

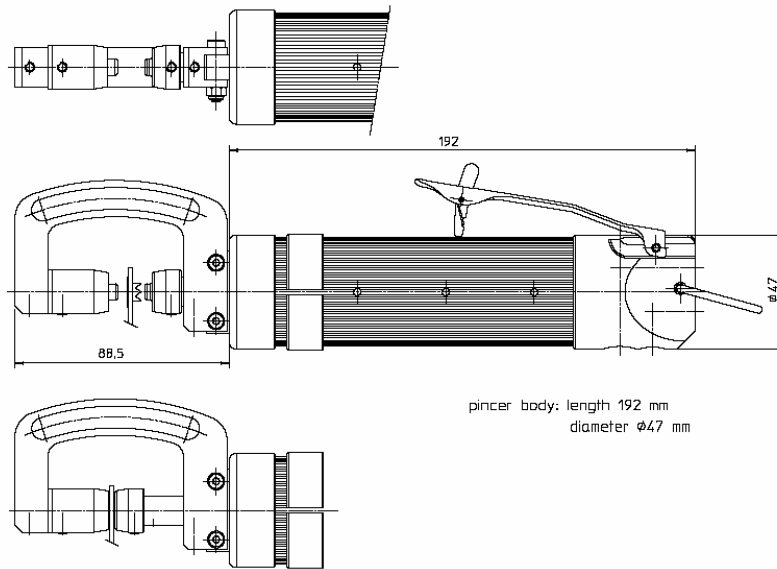


pincer body (incl. pincer head): length 378 mm
diameter Ø54 mm

- Pneumatic pincers for assembling hollow blanks
- Pneumatic pincers to press or putting of synthetic material stoppers (blind plugs)
- Pneumatic pincers for putting ground clamps
- Pneumatic pincers for assembling safeguarding clamps

Pneumatic special pincers

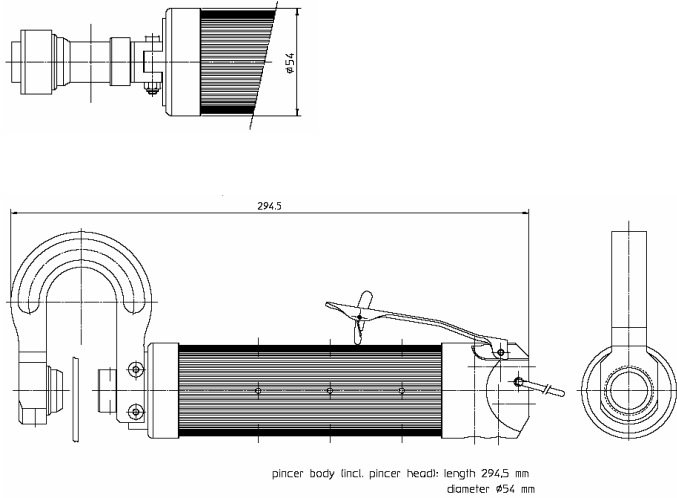
- Pneumatic pincer for the assembly of hole strengthening bushings (*fig.*)



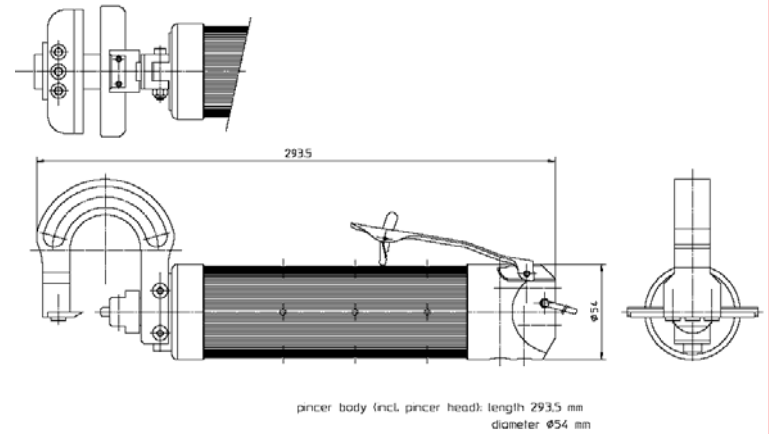
- Pneumatic pincer to punch or disengage (materials: Rubber, synthetic material, non-ferrous metal)
- Pneumatic pincer for marking metals
- Pneumatic pincer to press of hinge pins
- Pneumatic pincer for pre-tensioning of hand brake bowden wires
- Pneumatic pincer for spreading rails and similar components
- Pneumatic pincer to enlarge cable duct holes

Pneumatic special pincers

- Punches (materials: Leather, rubber, synthetic material) (fig.)



- Pneumatic pincer for bringing in a broad slice (fig.)



- Pneumatic pincer for turning of wire eyes (fig.)

