

# Special tools *pliers for seeger manipulation*

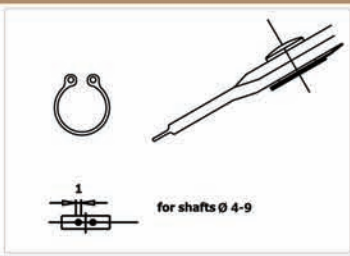


special tools

## P1



**P1:** Seeger ring pliers to fit and remove circlips and seeger rings from shafts. For shaft Ø 4-9. Steel thickness 2.5mm. Tool length 155mm. ESD-safe handles version available

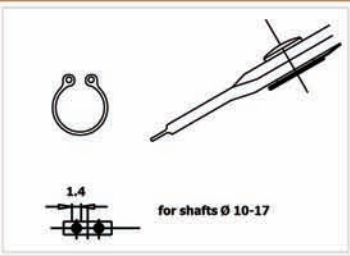


Order code	ESD Order code	Lenght (mm)	For shafts (Ø mm)	Tip diameter (Ø mm)
P1	P1 D	155	4-9	1.0

## P2



**P2:** Seeger ring pliers to fit and remove circlips and seeger rings from shafts. For shaft Ø 10-17. Steel thickness 2.5mm. Tool length 155mm. ESD-safe handles version available

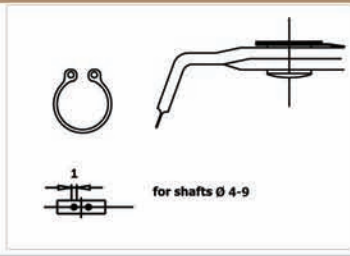


Order code	ESD Order code	Lenght (mm)	For shafts (Ø mm)	Tip diameter (Ø mm)
P2	P2 D	155	10-17	1.4

## PP1



**PP1:** Seeger ring pliers to fit and remove circlips and seeger rings from shafts. 90° angled nose. For shaft Ø 4-9. Steel thickness 2.5mm. Tool length 150mm. ESD-safe handles version available

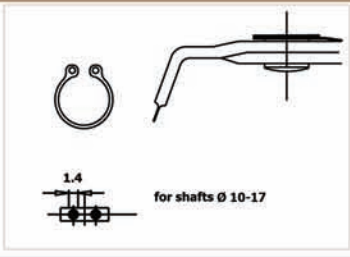


Order code	ESD Order code	Lenght (mm)	For shafts (Ø mm)	Tip diameter (Ø mm)
PP1	PP1 D	150	4-9	1.0

## PP2



**PP2:** Seeger ring pliers to fit and remove circlips and seeger rings from shafts. 90° angled nose. For shaft Ø 10-17. Steel thickness 2.5mm. Tool length 150mm. ESD-safe handles version available

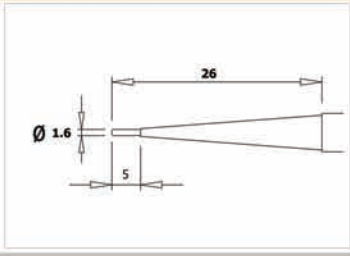


Order code	ESD Order code	Lenght (mm)	For shafts (Ø mm)	Tip diameter (Ø mm)
PP2	PP2 D	150	10-17	1.4

## PN 5030



**PN 5030:** Pliers for the removal or insertion of internal seeger rings. For shafts Ø 14-30mm. Steel thickness 5mm. Tool length 155mm. ESD-safe handles version available



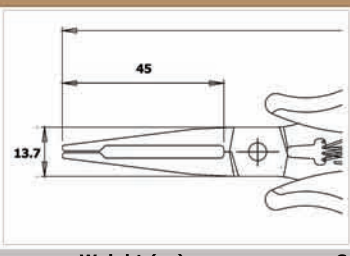
Order code	ESD Order code	Lenght (mm)	For shafts (Ø mm)	Tip diameter (Ø mm)
PN 5030	PN 5030 D	155	14-30	1.6

# Special tools *pliers for contact insertion*

## PPN 04 NB



**PPN 04 NB:** Special tool for the insertion of contacts into multi-polar connectors. The ergonomic grip is curved on the bottom to make easier the insertion push. Contact dimension: 16-18-20. Tool length 170mm. ESD-safe handles version available



Order code	ESD Order code	Lenght (mm)	Weight (gr)	Contacts dimensions (Ø mm)
PPN 04 NB	PPN 04 NB D	170	115	16-18-20

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