

Carbon steel pliers specially made for cutting hairsprings.
Plain and impeccable cutting.



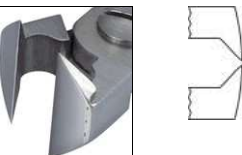
MSA	No.	Length	Kg
11.705	17	125 mm	0.076

Carbon steel pliers for cutting hairsprings. Inclined head, anti-skid handles with 2 return springs.
Screw lap joint construction.



MSA	No.	Length	Kg
11.706	20	110 mm	0.081

Carbon steel pliers for cutting hairsprings. Straight and pointed head at both ends, anti-skid handles with 2 return springs.
Screw lap joint construction.



BAHCO® and KNIPEX® cutting pliers.



MSA	Cutting	Cutting capacity	Kg
11.228	Bevelled	Ø 1.80 mm : piano-wire Ø 5.00 mm : copper wire	0.134

Steel side cutting BAHCO® precision pliers, with large anti-skid handles and 1 return spring.
Lap joint construction.
Total length 155 mm.



MSA	Cutting	Cutting capacity	Kg
11.229	Bevelled	Ø 1.50 mm : piano-wire Ø 4.00 mm : copper wire	0.134

Heavy duty KNIPEX® end cutter with strong torque. Tempered and polished head and PVC protected handles.
Lap joint construction.
Total length 140 mm.

Ring cutters.

PRECITEC
QUALITY



MSA	Length	Kg
11.230	160 mm	0.107

Large ring cutting pliers with chromed grooved handle.
Delivered with 1 mounted thin teeth steel circular saw.

Spare part :

MSA	Item	Kg	
11.230-A	Circular saw, Ø 21 mm	0.002	

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MSA	Length	Kg
11.198	178 mm	0.145

Steel ring cutter with PVC protected handles.
Delivered with 1 mounted thin teeth hardened steel circular saw and 1 key for saw change.

Spare part :

MSA	Item	Kg	
11.198-A	Circular saw, Ø 30 mm	0.005	



MSA	Length	Kg
11.226	120 mm	0.095

Ring cutter with knurled steel handle.
Delivered with 1 mounted thin teeth hardened steel circular saw and 1 key for saw change.

Spare part :

MSA	Item	Kg	
11.226-A	Circular saw, Ø 20 mm	0.001	

Revolving pliers for leather holing.



MSA	Length	Kg
11.300	200 mm	0.280

Revolving pliers for leather holing with 6 punchers.

Holing Ø : 2.0 - 2.5 - 3.0 - 3.5 - 4.0 - 4.5 mm.



MSA	Version	Length	Kg
11.310	Complete case	x mm	x.xxx
11.311	Light case	x mm	x.xxx

Multiplied pliers for piercing leather straps, delivered in a case.

Composition MSA11.310, complete case :

- MSA11.310-P : 1 multiplied pliers
- MSA11.310-0x : 4 brass supports, centre-to-centre 5, 6, 7 and 8 mm
- MSA11.310-Pxxx : 6 round punches, Ø 1.00, 1.20, 1.40, 1.60, 1.80 and 2.00 mm
- MSA11.310-Gxxx : 18 round guides (3x per diameter) Ø 1.00, 1.20, 1.40, 1.60, 1.80 and 2.00 mm
- MSA11.310-CL : 1 Allen key.

Composition MSA11.311, light case :

- MSA11.310-P : 1 multiplied pliers
- MSA11.310-07 : 1 brass support, centre-to-centre 7 mm
- MSA11.310-P180 : 1 round punch, Ø 1.80 mm
- MSA11.310-Gxxx : 3 round guides Ø 1.80 mm
- MSA11.310-CL : 1 Allen key.

Holing Ø : 1.00, 1.20, 1.40, 1.60, 1.80 and 2.00 mm.



Spare parts :

MSA	Item
11.310-05	Brass support, centre-to-centre 5 mm
11.310-06	(1) Brass support, centre-to-centre 6 mm
11.310-07	Brass support, centre-to-centre 7 mm
11.310-08	Brass support, centre-to-centre 8 mm
11.310-G100	(2) Round guide, Ø 1.00 mm
11.310-G120	Round guide, Ø 1.20 mm
11.310-G140	Round guide, Ø 1.40 mm
11.310-G160	Round guide, Ø 1.60 mm
11.310-G180	Round guide, Ø 1.80 mm
11.310-G200	Round guide, Ø 2.00 mm
11.310-P	Pliers alone
11.310-P100	(3) Round punch, Ø 1.00 mm
11.310-P120	Round punch, Ø 1.20 mm
11.310-P140	Round punch, Ø 1.40 mm
11.310-P160	Round punch, Ø 1.60 mm
11.310-P180	Round punch, Ø 1.80 mm
11.310-P200	Round punch, Ø 2.00 mm