

FILES

No.	Length		Finish	Weight g
	mm	Inch		

Needle files without handle

5-201	140	5 1/2"	flat-dull	7
5-202	140	5 1/2"	flat pointed	6
5-203	140	5 1/2"	round	6
5-204	140	5 1/2"	half round	6
5-205	140	5 1/2"	triangular	6
5-206	140	5 1/2"	square	6

5-210 6-piece set of needle files

No. 5-201-5-206 in plastic wallet

50

Warding files with wooden handle

overall length 175 mm - 6 3/4"

5-231	100	4"	flat-dull	17
5-232	100	4"	flach-pointed	14
5-233	100	4"	round	13
5-234	100	4"	half round	27
5-235	100	4"	triangular	18
5-236	100	4"	square	15

5-240 6-piece set of warding files

No. 5-231 - 5-236 with wooden handle, in plastic wallet

11

No.	Length		Finish	Weight g
	mm	Inch		

Contact file

with fine cut

5-261	150	6"	flat-hand	9
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Engineer's files with wooden handle

heavy type, fine cut, overall length 320 mm - 13 1/2"

5-271	200	8"	flat-hand	155
5-274	200	8"	half round	155



HAND TOOLS

No.	Blade length mm	Length mm	Weight g
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Pocket hack saw „Puk“

with adjustable wooden handle, with saw blade for wood and metal, in a plastic wallet

7-616	150	300	140
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Hack saw blade special for „Puk“ hack saws and pocket hack saw 7-620

7-617		150	3
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No.	Bore-Ø mm	Blade length mm	Total length mm	Weight g
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Twist gimlets

black lacquered, with knurled ring handle

7-304	4		140	20
7-306	6		170	30

No.	Blade-Ø mm	Blade length mm	Total length mm	Weight g
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Drill rasp

with plastic handle

7-316	6	100	185	80
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No.	Blade length mm	Total length mm	Weight g
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Trowel

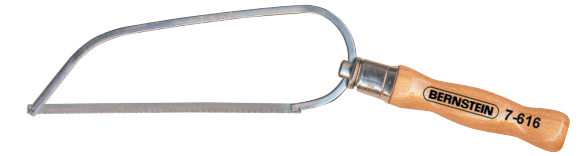
with conical forged blade and wooden handle

7-405	50	200	70
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Slicker trowel

polished with round shank

7-410	16	220	25
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SCISSORS

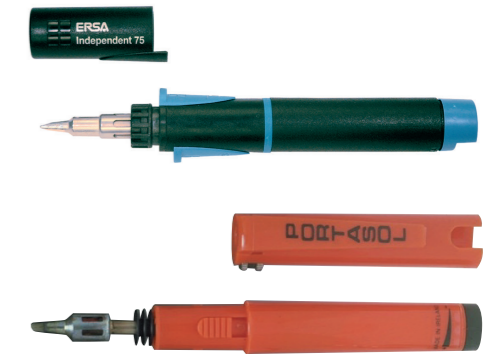
No.	Length		Finish	Weight
	mm	Inch		
g				
Universal cutting shears				
5-306	180	7"	black-lacquered, polished head	85
Telephone and cable shears				
5-308	125	5"	nickel-plated	67
Domestic scissors				
5-311	180	7"	nickel-plated, polished	80
Clamping scissors				
5-161	130	7"	stainless, with serrated jaws	80
Special scissors				
5-301	110	7"	with teeth, particularly slim	80



GAS SOLDERING IRONS

The progressive gas soldering iron is suitable for laboratories, service and production.

- 8-375 Ersa gas soldering iron Independent 75,**
OGO 70KN with soldering tip OGO 72 KN adjustable gas supply 15 - 75 W, heating up time ca. 46 sek. (280° C) max. temperature ca. 580 °C.
- 8-396 PORTASOL gas soldering iron**
with soldering tip 8-396-2 adjustable gas supply 10 - 60 W, heating up time ca. 20 sek. max. temperature ca. 450 °C



DESOLDERING PUMPS

ERSA desoldering device VAC 2, VAC 3 und VAC X are distinguished by their high suction power. The antistatic design of the device allows desoldering work on electrostatically endangered assemblies.

- 8-385 Ersa Desoldering pump OVAC X,** suction capacity 11.3 cm³

Desoldering suction pumps Praktik

Handy tools in an all-metal cabinet with interchangeable teflon bit, high suction capacity by dual-sealing of the bulb. Colour: gold

- 8-390 Desoldering pump** 195 mm long, 20 mm Ø



VACUUM PUMPS

- 8-110 Ersa fine soldering iron Tip** 260 BN/230 V/16 W

